



June 25, 2020

Mr. Craig Poskus
EOG Resources, Inc.
1111 Bagby Street
Sky Lobby 2
Houston, TX 77002

**RE: Parshall #58-1608H
SESW Sec. 16, T.152N., R.90W.
Mountrail County, North Dakota
Parshall Field
Well File No. 28525
STRIPPER WELL DETERMINATION**

Dear Mr. Poskus:


EOG Resources, Inc. (EOG) filed with the North Dakota Industrial Commission – Oil and Gas Division (Commission) on January 15, 2020 an application for a Stripper Well Determination for the above captioned well.

Information contained in the application indicates that the above mentioned well is a stripper well pursuant to statute and rule, and EOG has elected to designate said well as a stripper well. The well produced from a well depth greater than 10000 feet and was completed after June 30, 2013. During the qualifying period, October 1, 2018 through September 30, 2019, the well produced at a maximum efficient rate or was not capable of exceeding the production threshold. The average daily production from the well was 33.9 barrels of oil per day during this period.

It is therefore determined that the above captioned well qualifies as a “Stripper Well” pursuant to Section 57-51.1-01 of the North Dakota Century Code. This determination is applicable only to the Bakken Pool in and under said well.

The Commission shall have continuing jurisdiction, and shall have the authority to review the matter, and to amend or rescind the determination if such action is supported by additional or newly discovered information. If you have any questions, do not hesitate to contact me.

Sincerely,


David J. McCusker
Petroleum Engineer

Cc: ND Tax Department



AUTHORIZATION TO PURCHASE AND TRANSPORT OIL FROM LEASE - FORM 8

INDUSTRIAL COMMISSION OF NORTH DAKOTA
OIL AND GAS DIVISION
600 EAST BOULEVARD DEPT 405
BISMARCK, ND 58505-0840
SFN 5698 (03-2000)

Well File No.
28525

PLEASE READ INSTRUCTIONS BEFORE FILLING OUT FORM.
PLEASE SUBMIT THE ORIGINAL.

Well Name and Number PARSHALL 58-1608H	Qtr-Qtr SESW	Section 16	Township 152 N	Range 90 W	County Mountrail
Operator EOG Resources, Inc.	Telephone Number (303) 262-9973	Field Parshall			
Address 600 17th Steet, Suite 1000N	City Denver	State CO	Zip Code 80202		

Name of First Purchaser EOG Resources Marketing, LLC.	Telephone Number (713) 651-7000	% Purchased 100	Date Effective January 1, 2015
Principal Place of Business 1111 Bagby Sky Lobby 2	City Houston	State TX	Zip Code 77002
Field Address	City	State	Zip Code
Name of Transporter Bridger Pipeline, LLC	Telephone Number (307) 237-9301	% Transported 100	Date Effective May 11, 2015
Address 455 N. Poplar, P.O. Drawer 2360	City Casper	State WY	Zip Code 82602
The above named producer authorizes the above named purchaser to purchase the percentage of oil stated above which is produced from the lease designated above until further notice. The oil will be transported by the above named transporter.			

Other First Purchasers Purchasing From This Lease	% Purchased	Date Effective
Other First Purchasers Purchasing From This Lease	% Purchased	Date Effective
Other Transporters Transporting From This Lease	% Transported	Date Effective
Other Transporters Transporting From This Lease	% Transported	Date Effective
Comments		

I hereby swear or affirm that all transporters of Bakken Petroleum System oil listed above implement or adhere to a tariff specification as stringent as the Commission's VPCR₄ requirement. ☒ 13.7 VPCR₄ Tariff Specification Bridger Tariff Authority

I hereby swear or affirm that the information provided is true, complete and correct as determined from all available records.		Date September 9, 2019
Signature 	Printed Name Cally Wescoat	Title Regulatory Administrator
Above Signature Witnessed By Witness Signature 	Witness Printed Name Jennifer Yu	Witness Title Sr. Regulatory Administrator

FOR STATE USE ONLY

Date Approved SEP 19 2019	NDIC CTB NO 228315
By 	
Title Oil & Gas Production Analyst	

**SUNDRY NOTICES AND REPORTS ON WELLS - FORM 4**

INDUSTRIAL COMMISSION OF NORTH DAKOTA
OIL AND GAS DIVISION
600 EAST BOULEVARD DEPT 405
BISMARCK, ND 58505-0840
SFN 5749 (09-2006)

Received**MAR 24 2016**

Well File No.

28525**ND Oil & Gas Division**

PLEASE READ INSTRUCTIONS BEFORE FILLING OUT FORM.
PLEASE SUBMIT THE ORIGINAL AND ONE COPY.

<input type="checkbox"/> Notice of Intent	Approximate Start Date
<input checked="" type="checkbox"/> Report of Work Done	Date Work Completed February 15, 2015
<input type="checkbox"/> Notice of Intent to Begin a Workover Project that may Qualify for a Tax Exemption Pursuant to NDCC Section 57-51.1-03.	Approximate Start Date

<input type="checkbox"/> Drilling Prognosis	<input type="checkbox"/> Spill Report
<input type="checkbox"/> Redrilling or Repair	<input type="checkbox"/> Shooting
<input type="checkbox"/> Casing or Liner	<input type="checkbox"/> Acidizing
<input type="checkbox"/> Plug Well	<input type="checkbox"/> Fracture Treatment
<input type="checkbox"/> Supplemental History	<input type="checkbox"/> Change Production Method
<input type="checkbox"/> Temporarily Abandon	<input type="checkbox"/> Reclamation
<input checked="" type="checkbox"/> Other	Oil Allocation Meter Install

Well Name and Number Parshall 58-1608H					
Footages	Qtr-Qtr	Section	Township	Range	
420 F S L 1600 F W L	SESW	16	152 N	90 W	
Field Parshall	Pool Bakken	County Mountrail			

24-HOUR PRODUCTION RATE			
Before		After	
Oil	Bbls	Oil	Bbls
Water	Bbls	Water	Bbls
Gas	MCF	Gas	MCF

Name of Contractor(s)			
Address	City	State	Zip Code

DETAILS OF WORK

The referenced well was connected to an oil allocation meter on February 15, 2015.

Meter Serial No:14430522**Meter Make: Micro Motion****Meter Model Number: F200S418CWBAEZZZZ**

Company EOG Resources, Inc.		Telephone Number (303) 262-9973	
Address 600 17th Street, Suite 1000N			
City Denver		State CO	Zip Code 80202
Signature <i>Cally Wescoat</i>	Printed Name Cally Wescoat		
Title Sr. Regulatory Assistant	Date March 22, 2016		
Email Address Cally_Wescoat@eogresources.com			

FOR STATE USE ONLY	
<input type="checkbox"/> Received	<input checked="" type="checkbox"/> Approved
Date 3-29-16	
By <i>David Taber</i>	
Title REGULATORY ASSISTANT	



WELL COMPLETION OR RECOMPLETION REPORT - FORM 6

INDUSTRIAL COMMISSION OF NORTH DAKOTA
OIL AND GAS DIVISION
600 EAST BOULEVARD DEPT 405
BISMARCK, ND 58505-0840
SFN 2468 (04-2010)

Received

Well File No.
28525

REVISED
MAR 4 2016
ND Oil & Gas Division

PLEASE READ INSTRUCTIONS BEFORE FILLING OUT FORM.

PLEASE SUBMIT THE ORIGINAL AND ONE COPY.

Designate Type of Completion			
<input checked="" type="checkbox"/> Oil Well	<input type="checkbox"/> EOR Well	<input type="checkbox"/> Recompletion	<input type="checkbox"/> Deepened Well
<input type="checkbox"/> Gas Well	<input type="checkbox"/> SWD Well	<input type="checkbox"/> Water Supply Well	<input type="checkbox"/> Other:
Well Name and Number Parshall 58-1608H		Spacing Unit Description Sections 8, 16 & 17 T152N R90W	
Operator EOG Resources, Inc.		Telephone Number (303) 262-9973	
Address 600 17th Street, Suite 1000N		Field Parshall	
City Denver		State CO	Zip Code 80202
		Permit Type <input type="checkbox"/> Wildcat <input checked="" type="checkbox"/> Development <input type="checkbox"/> Extension	

LOCATION OF WELL

At Surface 420 F S L	1600 F WL	Qtr-Qtr SESW	Section 16	Township 152 N	Range 90 W	County Mountrail
Spud Date July 20, 2014	Date TD Reached October 19, 2014	Drilling Contractor and Rig Number H&P #454		KB Elevation (Ft) 1983	Graded Elevation (Ft) 1957	
Type of Electric and Other Logs Run (See Instructions) CBL/GR; MWD/GR						

CASING & TUBULARS RECORD (Report all strings set in well)

Well Bore	String Type	Size (Inch)	Top Set (MD Ft)	Depth Set (MD Ft)	Hole Size (Inch)	Weight (Lbs/Ft)	Anchor Set (MD Ft)	Packer Set (MD Ft)	Sacks Cement	Top of Cement
Surface Hole	Surface	9-5/8	0	1985	13.5	36			680	0
Vertical Hole	Intermediate	7-0	0	9557	8.75	26, 32			920	2036
Lateral1	Production	4-1/2	8859	18294	6.0	11.6		8881	830	8859

PERFORATION & OPEN HOLE INTERVALS

Well Bore	Well Bore TD Drillers Depth (MD Ft)	Completion Type	Open Hole/Perforated Interval (MD,Ft) Top Bottom	Kick-off Point (MD Ft)	Top of Casing Window (MD Ft)	Date Perf'd or Drilled	Date Isolated	Isolation Method	Sacks Cement
Lateral1	18298	Perforations	9582 18260	8837		11/01/2014			

PRODUCTION

Current Producing Open Hole or Perforated Interval(s), This Completion, Top and Bottom, (MD Ft) Perforated from 9,582' MD to 18,260' MD						Name of Zone (If Different from Pool Name)		
Date Well Completed (SEE INSTRUCTIONS) February 4, 2015		Producing Method Flowing		Pumping-Size & Type of Pump		Well Status (Producing or Shut-In) Producing		
Date of Test 02/07/2015	Hours Tested 24	Choke Size 64 /64	Production for Test	Oil (Bbls) 1227	Gas (MCF) 107	Water (Bbls) 2855	Oil Gravity-API (Corr.) 43.1 °	Disposition of Gas Sold
Flowing Tubing Pressure (PSI) 360		Flowing Casing Pressure (PSI) 650		Calculated 24-Hour Rate	Oil (Bbls) 1227	Gas (MCF) 107	Water (Bbls) 2855	Gas-Oil Ratio 87

GEOLOGICAL MARKERS

Formation	MD (Ft)	TVD (Ft)
Pierre Shale		1694
Greenhorn		3950
Dakota Sandstone		4650
Base Dakota		4936
Piper Lime		5747
Piper Dunham Salt		5981
Spearfish		6061
Opeche		6406
Minnelusa		6480
Tyler		6767
Kibbey		7100
Kibbey Lime		7211
Charles		7394
Base Last Salt		7777
Mission Canyon		7925
Lodgepole		8530
Lower WW		8825
Upper Virden		8905
Lower Virden		8990
1st Shale		9107
2nd Shale		9224
3rd Shale		9243
False Bakken		9265
Scallion		9272
Upper Bakken Shale		9285
Middle Bakken		9302

PLUG BACK INFORMATION

[illegible]

CORES CUT

Top (Ft)	Bottom (Ft)	Formation	Top (Ft)	Bottom (Ft)	Formation

Drill Stem Test

Test Date	Formation	Top (Ft)	Bottom (Ft)	BH Temp (°F)	CL ppm	H2S ppm	Shut-in 1 (PSIG)	Shut-in 2 (PSIG)
Drill Pipe Recovery								
Sample Chamber Recovery								
Test Date	Formation	Top (Ft)	Bottom (Ft)	BH Temp (°F)	CL ppm	H2S ppm	Shut-in 1 (PSIG)	Shut-in 2 (PSIG)
Drill Pipe Recovery								
Sample Chamber Recovery								
Test Date	Formation	Top (Ft)	Bottom (Ft)	BH Temp (°F)	CL ppm	H2S ppm	Shut-in 1 (PSIG)	Shut-in 2 (PSIG)
Drill Pipe Recovery								
Sample Chamber Recovery								
Test Date	Formation	Top (Ft)	Bottom (Ft)	BH Temp (°F)	CL ppm	H2S ppm	Shut-in 1 (PSIG)	Shut-in 2 (PSIG)
Drill Pipe Recovery								
Sample Chamber Recovery								
Test Date	Formation	Top (Ft)	Bottom (Ft)	BH Temp (°F)	CL ppm	H2S ppm	Shut-in 1 (PSIG)	Shut-in 2 (PSIG)
Drill Pipe Recovery								
Sample Chamber Recovery								
Test Date	Formation	Top (Ft)	Bottom (Ft)	BH Temp (°F)	CL ppm	H2S ppm	Shut-in 1 (PSIG)	Shut-in 2 (PSIG)
Drill Pipe Recovery								
Sample Chamber Recovery								

Well Specific Stimulations

Date Stimulated 11/01/2014	Stimulated Formation Bakken	Top (Ft) 9582	Bottom (Ft) 18260	Stimulation Stages 43	Volume 6855155	Volume Units Gallons
Type Treatment Sand Frac	Acid %	Lbs Proppant 9080590	Maximum Treatment Pressure (PSI) 8342		Maximum Treatment Rate (BBLS/Min) 59.4	
Details Treated fracture with 6,855,155 gallons of water; 6,920,812 lbs of 100 mesh and 2,159,778 lbs of 40/70 sand.						

Date Stimulated	Stimulated Formation	Top (Ft)	Bottom (Ft)	Stimulation Stages	Volume	Volume Units
Type Treatment	Acid %	Lbs Proppant	Maximum Treatment Pressure (PSI)		Maximum Treatment Rate (BBLS/Min)	
Details						

Date Stimulated	Stimulated Formation	Top (Ft)	Bottom (Ft)	Stimulation Stages	Volume	Volume Units
Type Treatment	Acid %	Lbs Proppant	Maximum Treatment Pressure (PSI)		Maximum Treatment Rate (BBLS/Min)	
Details						

Date Stimulated	Stimulated Formation	Top (Ft)	Bottom (Ft)	Stimulation Stages	Volume	Volume Units
Type Treatment	Acid %	Lbs Proppant	Maximum Treatment Pressure (PSI)		Maximum Treatment Rate (BBLS/Min)	
Details						

Date Stimulated	Stimulated Formation	Top (Ft)	Bottom (Ft)	Stimulation Stages	Volume	Volume Units
Type Treatment	Acid %	Lbs Proppant	Maximum Treatment Pressure (PSI)		Maximum Treatment Rate (BBLS/Min)	
Details						


ADDITIONAL INFORMATION AND/OR LIST OF ATTACHMENTS

REVISED: Well specific stimulation section

Drilled well to 15,143' MD, MWD failed. Placed a whipstock at 11,408' MD to sidetrack the well.

REVISED: Production, Perforation and Well Specific Stimulations.

Attachments emailed to digitallogs@nd.gov; CBL, Mudlogs: Horizontal and Vertical in (Ias) and (Tif) forming, geological report; Certified survey attached and emailed to certsurvey@nd.gov.

I hereby swear or affirm that the information provided is true, complete and correct as determined from all available records.	Email Address cally_wescoat@eogresources.com		Date 3-2-16
	Signature 	Printed Name Cally Wescoat	Title Sr. Regulatory Assistant

**SUNDRY NOTICES AND REPORTS ON WELLS - FORM 4**

INDUSTRIAL COMMISSION OF NORTH DAKOTA
OIL AND GAS DIVISION
600 EAST BOULEVARD DEPT 405
BISMARCK, ND 58505-0840
SFN 5749 (09-2006)



Well File No.

28525

PLEASE READ INSTRUCTIONS BEFORE FILLING OUT FORM.
PLEASE SUBMIT THE ORIGINAL AND ONE COPY.

<input type="checkbox"/> Notice of Intent	Approximate Start Date
<input checked="" type="checkbox"/> Report of Work Done	Date Work Completed February 7, 2015
<input type="checkbox"/> Notice of Intent to Begin a Workover Project that may Qualify for a Tax Exemption Pursuant to NDCC Section 57-51.1-03.	Approximate Start Date

<input type="checkbox"/> Drilling Prognosis	<input type="checkbox"/> Spill Report
<input type="checkbox"/> Redrilling or Repair	<input type="checkbox"/> Shooting
<input type="checkbox"/> Casing or Liner	<input type="checkbox"/> Acidizing
<input type="checkbox"/> Plug Well	<input type="checkbox"/> Fracture Treatment
<input type="checkbox"/> Supplemental History	<input type="checkbox"/> Change Production Method
<input type="checkbox"/> Temporarily Abandon	<input type="checkbox"/> Reclamation
<input checked="" type="checkbox"/> Other	Oil Allocation Meter Install

Well Name and Number Parshall 58-1608H					
Footages 420 F S L 1600 F W L		Qtr-Qtr SESW	Section 16	Township 152 N	Range 90 W
Field Parshall	Pool Bakken	County Mountrail			

24-HOUR PRODUCTION RATE

Before		After	
Oil	Bbls	Oil	Bbls
Water	Bbls	Water	Bbls
Gas	MCF	Gas	MCF

Name of Contractor(s)			
Address	City	State	Zip Code

DETAILS OF WORK

The referenced well was connected to an oil allocation meter on February 7, 2015.

Meter Serial No: 14430522
Meter Make: Micro Motion
Meter Model Number: F200S418CWBAEZZZZ

Company EOG Resources, Inc.		Telephone Number (303) 262-9973	
Address 600 17th Street, Suite 1000N			
City Denver	State CO	Zip Code 80202	
Signature <i>Cally Wescoat</i>	Printed Name Cally Wescoat		
Title Sr. Regulatory Assistant	Date January 4, 2016		
Email Address Cally_Wescoat@eogresources.com			

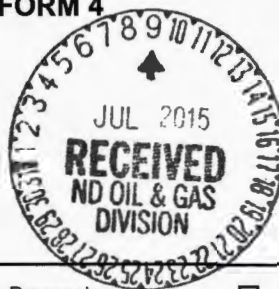
FOR STATE USE ONLY

<input type="checkbox"/> Received	<input checked="" type="checkbox"/> Approved
Date 1-8-16	
By <i>David Tabor</i>	
Title REGULATORY ASSISTANT	



SUNDRY NOTICES AND REPORTS ON WELLS - FORM 4

INDUSTRIAL COMMISSION OF NORTH DAKOTA
OIL AND GAS DIVISION
600 EAST BOULEVARD DEPT 405
BISMARCK, ND 58505-0840
SFN 5749 (09-2006)



Well File No.
28525

PLEASE READ INSTRUCTIONS BEFORE FILLING OUT FORM.
PLEASE SUBMIT THE ORIGINAL AND ONE COPY.

<input type="checkbox"/> Notice of Intent	Approximate Start Date
<input checked="" type="checkbox"/> Report of Work Done	Date Work Completed July 3, 2015
<input type="checkbox"/> Notice of Intent to Begin a Workover Project that may Qualify for a Tax Exemption Pursuant to NDCC Section 57-51.1-03.	Approximate Start Date

<input type="checkbox"/> Drilling Prognosis	<input type="checkbox"/> Spill Report
<input type="checkbox"/> Redrilling or Repair	<input type="checkbox"/> Shooting
<input type="checkbox"/> Casing or Liner	<input type="checkbox"/> Acidizing
<input type="checkbox"/> Plug Well	<input type="checkbox"/> Fracture Treatment
<input type="checkbox"/> Supplemental History	<input checked="" type="checkbox"/> Change Production Method
<input type="checkbox"/> Temporarily Abandon	<input type="checkbox"/> Reclamation
<input type="checkbox"/> Other	

Well Name and Number Parshall 58-1608H						
Footages	Qtr-Qtr	Section	Township	Range		
420 F S L 1600 F W L	SESW	16	152 N	90 W		
Field	Pool	County				
Parshall	Bakken	Mountrail				

24-HOUR PRODUCTION RATE			
Before		After	
Oil	Bbls	Oil	Bbls
Water	Bbls	Water	Bbls
Gas	MCF	Gas	MCF

Name of Contractor(s)			
Address	City	State	Zip Code

DETAILS OF WORK

The referenced well changed production methods from flowing to pump with the installation of an ESP on July 3, 2015.

ESP ASSEMBLY:
BAKER FLEX ER ESP ASSEMBLY
2-7/8" 6.5# L-80 EUE 8RD TBG
2-7/8" CUP TYPE SEAT NIPPLE
261 JTS 2-7/8" 6.5# L-80 EUE 8RD PROD TBG
2-7/8" 6.5# L-80 EUE 8RD TBG SUB
LANDED @ 8759.22'

The referenced well returned to sale on June 8, 2015.

Company EOG Resources, Inc.		Telephone Number (303) 262-2866	
Address 600 17th Street, Suite 1000N			
City Denver		State CO	Zip Code 80202
Signature 	Printed Name Ally Gale		
Title Regulatory Clerk	Date July 8, 2015		
Email Address Ally_Gale@eogresources.com			

FOR STATE USE ONLY	
<input checked="" type="checkbox"/> Received	<input type="checkbox"/> Approved
Date 7-16-2015	
By 	
Title JARED THUNE	Engineering Technician



SUNDRY NOTICES AND REPORTS ON WELLS - FORM 4

INDUSTRIAL COMMISSION OF NORTH DAKOTA
OIL AND GAS DIVISION
600 EAST BOULEVARD DEPT 405
BISMARCK, ND 58505-0840
SFN 5749 (09-2006)

Well File No.
28525



PLEASE READ INSTRUCTIONS BEFORE FILLING OUT FORM.
PLEASE SUBMIT THE ORIGINAL AND ONE COPY.

<input checked="" type="checkbox"/> Notice of Intent	Approximate Start Date June 15, 2015	<input type="checkbox"/> Drilling Prognosis	<input type="checkbox"/> Spill Report
<input type="checkbox"/> Report of Work Done	Date Work Completed	<input type="checkbox"/> Redrilling or Repair	<input type="checkbox"/> Shooting
<input type="checkbox"/> Notice of Intent to Begin a Workover Project that may Qualify for a Tax Exemption Pursuant to NDCC Section 57-51.1-03.	Approximate Start Date	<input checked="" type="checkbox"/> Casing or Liner	<input type="checkbox"/> Acidizing
		<input type="checkbox"/> Plug Well	<input type="checkbox"/> Fracture Treatment
		<input type="checkbox"/> Supplemental History	<input type="checkbox"/> Change Production Method
		<input type="checkbox"/> Temporarily Abandon	<input type="checkbox"/> Reclamation
		<input checked="" type="checkbox"/> Other <u>Pressure Monitoring and Remedial Work</u>	

Well Name and Number Parshall 58-1608H						24-HOUR PRODUCTION RATE			
Footages		Qtr-Qtr	Section	Township	Range	Before		After	
420 F S L 1600 F W L		SESW	16	152 N	90 W	Oil	Bbbs	Oil	Bbbs
Field		Pool	County			Water	Bbbs	Water	Bbbs
Parshall		Bakken	Mountrail			Gas	MCF	Gas	MCF

Name of Contractor(s)			
Address	City	State	Zip Code

DETAILS OF WORK

EOG Resources, Inc. (EOG) requests to perform interim reclamation on the referenced location.

EOG will re-contour, rip subsoil, spread topsoil, and reseed the portions of the location not needed for ongoing operations. The following native grass mixture will be drill seeded with an approximate application rate of 15 lbs per acre.

Grass Species / % of seed mix

1. Western Wheatgrass 41.35
2. Green Needle Grass 20.46
3. Slender Wheatgrass 25.88
4. Side Oats Grama 10.60

The location will be monitored in subsequent years for grass growth and the presence of weeds. Further reclamation activities will be conducted if the monitoring indicates issues with either of these.

Surface Owner: James and Cora Klesalek, 7568 34th St. NW, Parshall, ND 58770

Company EOG Resources, Inc.		Telephone Number (303) 262-9973	
Address 600 17th St, Suite 1000N			
City Denver	State CO	Zip Code 80202	
Signature <i>Cally Wescoat</i>	Printed Name Cally Wescoat		
Title Sr. Regulatory Assistant	Date May 7, 2015		
Email Address cally_wescoat@eogresources.com			

FOR STATE USE ONLY	
<input type="checkbox"/> Received	<input checked="" type="checkbox"/> Approved
Date 5-12-15	
By <i>Cally Wescoat</i>	
Title <i>Regulatory Assistant</i>	



AUTHORIZATION TO PURCHASE AND TRANSPORT OIL FROM LEASE - FORM 8

INDUSTRIAL COMMISSION OF NORTH DAKOTA
OIL AND GAS DIVISION
600 EAST BOULEVARD DEPT 405
BISMARCK, ND 58505-0840
SFN 5698 (03-2000)



Well File No.	28525
NDIC CTB No.	228315

PLEASE READ INSTRUCTIONS BEFORE FILLING OUT FORM.
PLEASE SUBMIT THE ORIGINAL AND FOUR COPIES.

Well Name and Number Parshall 58-1608H	Qtr-Qtr SESW	Section 16	Township 62N	Range 90 W	County MOUNTRAIL
Operator EOG Resources, Inc.	Telephone Number (303) 262-9973	Field PARSHALL			
Address 600 17th Street, Suite 1000N	City Denver	State CO	Zip Code 80202		

Name of First Purchaser EOG Resources Marketing, LLC.	Telephone Number (713) 651-7000	% Purchased 100	Date Effective January 1, 2015
Principal Place of Business 1111 Bagby Sky Lobby 2	City Houston	State TX	Zip Code 77002
Field Address	City	State	Zip Code
Name of Transporter Bridger Pipeline, LLC	Telephone Number (307) 237-9301	% Transported 100	Date Effective May 11, 2015
Address 455 N. Poplar, P.O. Drawer 2360	City Casper	State WY	Zip Code 82602
The above named producer authorizes the above named purchaser to purchase the percentage of oil stated above which is produced from the lease designated above until further notice. The oil will be transported by the above named transporter.			

Other First Purchasers Purchasing From This Lease	% Purchased	Date Effective
Other First Purchasers Purchasing From This Lease	% Purchased	Date Effective
Other Transporters Transporting From This Lease	% Transported	Date Effective
Other Transporters Transporting From This Lease	% Transported	Date Effective
Comments		

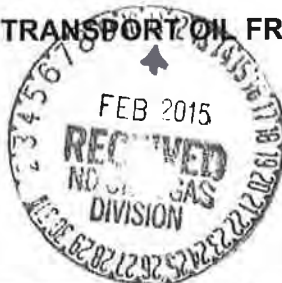
I hereby swear or affirm that the information provided is true, complete and correct as determined from all available records.		Date May 12, 2015
Signature <i>Cally Wescoat</i>	Printed Name Cally Wescoat	Title Sr. Regulatory Assistant
Above Signature Witnessed By	Witness Printed Name	Witness Title
Witness Signature <i>Christina Kemink</i>	Christina Kemink	Regulatory Clerk

FOR STATE USE ONLY

Date Approved MAY 18 2015
By <i>Ernie Robinson</i>
Title Oil & Gas Production Analyst

**AUTHORIZATION TO PURCHASE AND TRANSPORT OIL FROM LEASE - FORM 8**

INDUSTRIAL COMMISSION OF NORTH DAKOTA
OIL AND GAS DIVISION
600 EAST BOULEVARD DEPT 405
BISMARCK, ND 58505-0840
SFN 5698 (03-2000)



Well File No.
28525
NDIC CTB No.
228315

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Well Name and Number Parshall 58-1608H	Qtr-Qtr SESW	Section 16	Township 152 N	Range 90 W	County Mountrail
Operator EOG Resources, Inc.	Telephone Number (303) 262-9973	Field Parshall			
Address 600 17th Street, Suite 1000N	City Denver			State CO	Zip Code 80202

Name of First Purchaser EOG Resources Marketing, Inc	Telephone Number (713) 651-7000	% Purchased 100	Date Effective February 10, 2015
Principal Place of Business 1111 Bagby Sky Lobby 2	City Houston	State TX	Zip Code 77002
Field Address	City	State	Zip Code
Name of Transporter Red Star, LLC	Telephone Number (701) 627-4500	% Transported 100	Date Effective February 10, 2015
Address P.O. Box 1290	City Newtown	State ND	Zip Code 58763

The above named producer authorizes the above named purchaser to purchase the percentage of oil stated above which is produced from the lease designated above until further notice. The oil will be transported by the above named transporter.

Other First Purchasers Purchasing From This Lease	% Purchased	Date Effective
Other First Purchasers Purchasing From This Lease	% Purchased	Date Effective
Other Transporters Transporting From This Lease Aarmac Transport	% Transported	Date Effective February 10, 2015
Other Transporters Transporting From This Lease Iowa Tanklines, Inc	% Transported	Date Effective February 10, 2015
Comments REVISED: Red Star will continue to be the main transporter for the Parshall 16 SESW 1 pad. In the event that additional transportation is needed Aarmac and Iowa Tanklines will be the back up transporters		

I hereby swear or affirm that the information provided is true, complete and correct as determined from all available records.		Date February 10, 2015
Signature 	Printed Name Gally Wescoat	Title Sr. Regulatory Assistant
Above Signature Witnessed By		
Witness Signature 	Witness Printed Name Christina Kemink	Witness Title Regulatory Clerk

FOR STATE USE ONLY

Date Approved FEB 12 2015
By
Title Oil & Gas Production Analyst

**AUTHORIZATION TO PURCHASE AND TRANSPORT OIL FROM LEASE - FORM 8**

INDUSTRIAL COMMISSION OF NORTH DAKOTA
OIL AND GAS DIVISION
600 EAST BOULEVARD DEPT 405
BISMARCK, ND 58505-0840
SFN 5698 (03-2000)

Well File No.
28525
NDIC CTB No.
228315



PLEASE READ INSTRUCTIONS BEFORE FILLING OUT FORM
PLEASE SUBMIT THE ORIGINAL AND FOUR COPIES.

Well Name and Number Parshall 58-1608H	Qtr- Q1 SESW	Section 15	Township 152 N	Range 90 W	County Mountrail
Operator EOG Resources, Inc.	Telephone Number (303) 262-9973		Field Parshall		
Address 600 17th Street, Suite 1000N	City Denver		State CO	Zip Code 80202	

Name of First Purchaser EOG Resources Marketing, Inc	Telephone Number (713) 651-7000	% Purchased 100	Date Effective November 20, 2014	
Principal Place of Business 1111 Bagby Sky Lobby 2	City Houston	State TX	Zip Code 77002	
Field Address	City	State	Zip Code	
Name of Transporter Flint Energy Services	Telephone Number (701) 509-6537	% Transported 100	Date Effective November 20, 2014	
Address 2100 20th Ave SE	City Minot	State ND	Zip Code 58701	
The above named producer authorizes the above named purchaser to purchase the percentage of oil stated above which is produced from the lease designated above until further notice. The oil will be transported by the above named transporter.				

Other First Purchasers Purchasing From This Lease	% Purchased	Date Effective
Other First Purchasers Purchasing From This Lease	% Purchased	Date Effective
Other Transporters Transporting From This Lease	% Transported	Date Effective
Other Transporters Transporting From This Lease	% Transported	Date Effective
Comments		

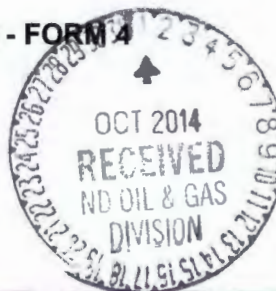
I hereby swear or affirm that the information provided is true, complete and correct as determined from all available records.		Date November 20, 2014
Signature <i>Cally Wescoat</i>	Printed Name Cally Wescoat	Title Sr. Regulatory Assistant
Above Signature Witnessed By Witness Signature <i>Christina Kemink</i>	Witness Printed Name Christina Kemink	Witness Title Regulatory Clerk

FOR STATE USE ONLY

Date Approved	FEB 04 2015
By	<i>Eric Holmson</i>
Title	Oil & Gas Production Analyst

**SUNDRY NOTICES AND REPORTS ON WELLS - FORM 4**

INDUSTRIAL COMMISSION OF NORTH DAKOTA
OIL AND GAS DIVISION
600 EAST BOULEVARD DEPT 405
BISMARCK, ND 58505-0840
SFN 5749 (09-2006)



Well File No.
28525

PLEASE READ INSTRUCTIONS BEFORE FILLING OUT FORM.
PLEASE SUBMIT THE ORIGINAL AND ONE COPY.

<input type="checkbox"/> Notice of Intent	Approximate Start Date
<input checked="" type="checkbox"/> Report of Work Done	Date Work Completed September 26, 2014
<input type="checkbox"/> Notice of Intent to Begin a Workover Project that may Qualify for a Tax Exemption Pursuant to NDCC Section 57-51.1-03.	Approximate Start Date

<input type="checkbox"/> Drilling Prognosis	<input type="checkbox"/> Spill Report
<input type="checkbox"/> Redrilling or Repair	<input type="checkbox"/> Shooting
<input type="checkbox"/> Casing or Liner	<input type="checkbox"/> Acidizing
<input type="checkbox"/> Plug Well	<input type="checkbox"/> Fracture Treatment
<input type="checkbox"/> Supplemental History	<input type="checkbox"/> Change Production Method
<input type="checkbox"/> Temporarily Abandon	<input type="checkbox"/> Reclamation
<input checked="" type="checkbox"/> Other Spud	

Well Name and Number Parshall 58-1608H					
Footages	Qtr-Qtr	Section	Township	Range	
420 F S L 1600 F W L	SESW	16	152 N	90 W	
Field Parshall	Pool Bakken	County Mountrail			

24-HOUR PRODUCTION RATE			
Before		After	
Oil	Bbls	Oil	Bbls
Water	Bbls	Water	Bbls
Gas	MCF	Gas	MCF

Name of Contractor(s)			
Address	City	State	Zip Code

DETAILS OF WORK

H&P FLEX #454 moved onto location to complete drilling and spud the well on 9/26/14.

Per sundry dated July 20, 2014.

A Craig's rig set surface casing on the referenced well on 7/21/2014.

[Handwritten signature]

Company EOG Resources, Inc.		Telephone Number (303) 262-9973	
Address 600 17th Street, Suite 1000N			
City Denver	State CO	Zip Code 80202	
Signature <i>[Handwritten Signature]</i>	Printed Name Cally Wescoat		
Title Sr. Regulatory Assistant	Date September 30, 2014		
Email Address Cally_Wescoat@eogresources.com			

FOR STATE USE ONLY	
<input checked="" type="checkbox"/> Received	<input type="checkbox"/> Approved
Date 9/23/15	
By <i>[Handwritten Signature]</i>	
Title <i>[Handwritten Signature]</i>	

August 1, 2014

North Dakota Industrial Commission
Oil & Gas Division
600 North Boulevard Ave
Department 405
Bismarck, North Dakota 58505

RE: EOG Resources, Inc.
Parshall 58-1608H
Mountrail County, ND
Rig: H&P #524

Dear North Dakota Industrial Commission:

Please find enclosed the original certified Rate Gyro Surveys run from Surface to a depth of 1,947' M.D. on the above mentioned well.

If I can be of any further assistance, please do not hesitate to call me at 936-442-2567.

Sincerely,

Crystal Verino
MS Survey

Surveyor Certification Form

Survey Company: MS ENERGY SERVICES
Surveyors Name: DUSTIN FOWLER
Survey Job Type: RATE GYRO
Customer: EOG RESOURCES
Well: PARSHALL 58-1608H
API: 33-061-03135
Surveyed from: SURFACE TO A DEPTH OF 1947' MD
Survey Run Date: 7-31-14
Surface Location: MOUNTRAIL COUNTY, ND

I certify that the data is true, correct, and complete and within the limitations of the tool set forth by MS Energy Services; that I am authorized and qualified to make this report; and that I have reviewed this report and find that it conforms to the principles and procedures as set forth by MS Energy Services.

Dustin Fowler

Digitally signed by Dustin Fowler
DN: cn=Dustin Fowler, o=MS Energy Services, ou=MS
Survey, email=dfowler@msenergyservices.com, c=US
Date: 2013.01.02 15:27:29 -06'00'



Job Number: SVGJ-140934
 Company: EOG Resources, Inc.
 Lease/Well: Parshall 58-1608H
 Location: Mountrail County, ND
 Rig Name: H&P #524
 RKB: 30'
 G.L. or M.S.L.: GL

State/Country: North Dakota/USA
 Declination: 7.26°
 Grid: East To True North
 File name: S:\2014SU-1\EOG\GJ\PARSHALL\58\1608H.SVY
 Date/Time: 01-Aug-14 / 12:18
 Curve Name: Surface - 1947' M.D. (Rate Gyro)

MS SURVEY

WINSERVE SURVEY CALCULATIONS
 Minimum Curvature Method
 Vertical Section Plane .00
 Vertical Section Referenced to Wellhead
 Rectangular Coordinates Referenced to Wellhead

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	CLOSURE		Dogleg Severity Deg/100
							Distance FT	Direction Deg	
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
100.00	.88	13.37	100.00	.75	.18	.75	.77	13.37	.88
200.00	.82	2.34	199.99	2.21	.38	2.21	2.24	9.87	.17
300.00	.45	33.67	299.98	3.25	.63	3.25	3.31	10.99	.49
400.00	.58	58.07	399.98	3.85	1.28	3.85	4.05	18.39	.25
500.00	.37	70.46	499.97	4.22	2.01	4.22	4.68	25.49	.23
600.00	.08	67.18	599.97	4.36	2.38	4.36	4.96	28.66	.29
700.00	.13	262.24	699.97	4.37	2.33	4.37	4.95	28.11	.21
800.00	.25	88.84	799.97	4.36	2.44	4.36	4.99	29.24	.38
900.00	.23	308.80	899.97	4.49	2.50	4.49	5.14	29.13	.45

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	C L O S U R E		Dogleg Severity Deg/100
							Distance FT	Direction Deg	
1000.00	.46	192.79	999.97	4.22	2.26	4.22	4.79	28.11	.60
1100.00	.49	118.11	1099.97	3.63	2.54	3.63	4.43	35.03	.58
1200.00	.36	56.38	1199.96	3.60	3.18	3.60	4.81	41.47	.45
1300.00	.05	334.04	1299.96	3.81	3.42	3.81	5.13	41.92	.36
1400.00	.36	110.21	1399.96	3.74	3.70	3.74	5.26	44.66	.40
1500.00	.38	3.26	1499.96	3.97	4.01	3.97	5.64	45.33	.59
1600.00	.42	269.46	1599.96	4.30	3.67	4.30	5.65	40.48	.58
1700.00	.26	180.98	1699.96	4.06	3.30	4.06	5.23	39.04	.49
1800.00	.28	300.21	1799.96	3.96	3.08	3.96	5.02	37.88	.47
1900.00	.56	253.86	1899.96	3.95	2.40	3.95	4.62	31.30	.42

Last Survey Depth Recorded									
1947.00	.64	234.72	1946.95	3.73	1.97	3.73	4.22	27.77	.46



**Scientific
Drilling**

Survey Certification

7327 West Barton Road
Casper, WY 82604
(307)-472-6621 Fax (307) 472-5439

Operator	EOG Resources Inc,
Well Name & No.	Parshall 58-1608H OH
County & State	Mountraí County, ND
SDI Job No.	410814HEFK186361
Rig	H&P 278
Survey Date	12-Oct-2014

I, Seth M. Burstad, having personal knowledge of all the facts, hereby
certify that the attached directional survey run from a measured depth of 2047 feet to a
measured depth of 15124 feet is true and correct as determined from all available records.

Seth Burstad
Signature

16-Oct-2014
Date

Seth M. Burstad
Rockies Region Well Planner
Scientific Drilling - Rocky Mountain District



EOG Resources Inc.

**Parshall NAD 27
Parshall
Parshall 58-1608H**

Original Drilling

Design: Original Drilling

Standard Survey Report

16 October, 2014



Company:	EOG Resources Inc.	Local Co-ordinate Reference:	Well Parshall 58-1608H
Project:	Parshall NAD 27	TVD Reference:	GL 1957' & KB 26' @ 1983.00ft
Site:	Parshall	MD Reference:	GL 1957' & KB 26' @ 1983.00ft
Well:	Parshall 58-1608H	North Reference:	True
Wellbore:	Original Drilling	Survey Calculation Method:	Minimum Curvature
Design:	Original Drilling	Database:	Casper District

Project	Parshall NAD 27,		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	North Dakota North 3301		

Site	Parshall		
Site Position:		Northing:	360,619.48 usft
From:	Lat/Long	Easting:	1,596,401.21 usft
Position Uncertainty:	0.00 ft	Slot Radius:	13.200 in
		Latitude:	47° 58' 36.472 N
		Longitude:	102° 8' 52.445 W
		Grid Convergence:	-1.23 °

Well	Parshall 58-1608H, 420' FSL 1600' FWL Sec 16 T152N R90W		
Well Position	+N/-S	0.00 ft	Northing: 361,738.40 usft
	+E/-W	0.00 ft	Easting: 1,581,709.44 usft
Position Uncertainty	0.00 ft	Wellhead Elevation:	0.00 ft
		Latitude:	47° 58' 44.353 N
		Longitude:	102° 12' 28.692 W
		Ground Level:	1,957.00 ft

Wellbore	Original Drilling				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2014	8/7/2014	7.50	73.06	56,368

Design	Original Drilling				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)	
	0.00	0.00	0.00	27.77	

Survey Program	Date	10/16/2014			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
100.00	1,947.00	Survey #1 - Surface (Original Drilling)	NS-GYRO-MS	North sensing gyrocompassing m/s	
2,047.00	9,500.00	Survey #2 - Vertical/Curve (Original Drilling)	MWD SDI	MWD - Standard ver 1.0.1	
9,603.00	15,124.00	Survey #3 - Lateral (Original Drilling)	MWD+IFR1+MSA (Sperry)	Fixed:v2:Rockies, crustal dec + 3-axis correction	

Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
1,947.00	0.64	234.72	1,946.95	3.73	1.97	4.22	0.46	0.17	-40.72	
2,047.00	1.10	265.29	2,046.94	3.33	0.55	3.21	0.64	0.46	30.57	
1st SDI MWD Survey										
2,111.00	1.14	279.45	2,110.93	3.39	-0.69	2.68	0.44	0.06	22.13	
2,206.00	1.05	313.34	2,205.91	4.14	-2.25	2.61	0.68	-0.09	35.67	
2,301.00	1.38	2.44	2,300.89	5.88	-2.84	3.88	1.11	0.35	51.68	
2,396.00	1.93	13.39	2,395.85	8.58	-2.42	6.46	0.67	0.58	11.53	
2,491.00	2.52	21.14	2,490.78	12.08	-1.29	10.09	0.70	0.62	8.16	
2,585.00	1.75	359.93	2,584.72	15.44	-0.55	13.41	1.16	-0.82	-22.56	

Company:	EOG Resources Inc.	Local Co-ordinate Reference:	Well Parshall 58-1608H
Project:	Parshall NAD 27	TVD Reference:	GL 1957' & KB 26' @ 1983.00ft
Site:	Parshall	MD Reference:	GL 1957' & KB 26' @ 1983.00ft
Well:	Parshall 58-1608H	North Reference:	True
Wellbore:	Original Drilling	Survey Calculation Method:	Minimum Curvature
Design:	Original Drilling	Database:	Casper District

Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
2,680.00	0.81	282.98	2,679.70	17.05	-1.21	14.52	1.85	-0.99	-81.00	
2,775.00	1.21	180.30	2,774.69	16.19	-1.87	13.46	1.68	0.42	-108.08	
2,871.00	1.92	169.30	2,870.65	13.60	-1.57	11.30	0.80	0.74	-11.46	
2,966.00	1.88	168.24	2,965.60	10.51	-0.96	8.85	0.06	-0.04	-1.12	
3,061.00	1.92	165.22	3,060.55	7.45	-0.24	6.48	0.11	0.04	-3.18	
3,156.00	1.89	162.27	3,155.50	4.42	0.65	4.21	0.11	-0.03	-3.11	
3,250.00	1.85	172.81	3,249.45	1.43	1.31	1.88	0.37	-0.04	11.21	
3,345.00	1.68	171.62	3,344.40	-1.47	1.70	-0.50	0.18	-0.18	-1.25	
3,439.00	1.64	175.17	3,438.36	-4.17	2.02	-2.75	0.12	-0.04	3.78	
3,534.00	1.15	173.66	3,533.33	-6.47	2.24	-4.68	0.52	-0.52	-1.59	
3,629.00	0.98	176.84	3,628.32	-8.23	2.39	-6.17	0.19	-0.18	3.35	
3,724.00	0.57	170.74	3,723.31	-9.51	2.51	-7.24	0.44	-0.43	-6.42	
3,818.00	0.46	190.63	3,817.30	-10.34	2.51	-7.98	0.22	-0.12	21.16	
3,913.00	0.03	287.87	3,912.30	-10.71	2.42	-8.35	0.49	-0.45	102.36	
4,008.00	0.67	45.31	4,007.30	-10.31	2.79	-7.82	0.72	0.67	123.62	
4,103.00	0.74	68.47	4,102.29	-9.69	3.76	-6.83	0.31	0.07	24.38	
4,198.00	0.97	66.06	4,197.28	-9.14	5.06	-5.73	0.24	0.24	-2.54	
4,293.00	0.42	89.21	4,292.28	-8.81	6.15	-4.93	0.64	-0.58	24.37	
4,388.00	0.92	101.59	4,387.27	-8.96	7.24	-4.55	0.54	0.53	13.03	
4,483.00	1.58	98.43	4,482.25	-9.30	9.28	-3.91	0.70	0.69	-3.33	
4,578.00	1.71	97.53	4,577.21	-9.68	11.98	-2.98	0.14	0.14	-0.95	
4,673.00	0.92	92.37	4,672.18	-9.90	14.15	-2.17	0.84	-0.83	-5.43	
4,767.00	0.50	79.19	4,766.17	-9.85	15.31	-1.59	0.48	-0.45	-14.02	
4,862.00	0.27	21.03	4,861.17	-9.57	15.80	-1.11	0.45	-0.24	-61.22	
4,957.00	0.85	49.98	4,956.17	-8.90	16.42	-0.23	0.66	0.61	30.47	
5,051.00	1.08	23.95	5,050.15	-7.65	17.31	1.30	0.52	0.24	-27.69	
5,146.00	1.12	22.40	5,145.14	-5.97	18.03	3.12	0.05	0.04	-1.63	
5,240.00	1.07	51.67	5,239.12	-4.58	19.07	4.83	0.59	-0.05	31.14	
5,335.00	1.49	79.40	5,334.10	-3.80	20.97	6.41	0.78	0.44	29.19	
5,429.00	0.33	86.33	5,428.08	-3.56	22.45	7.31	1.24	-1.23	7.37	
5,524.00	0.11	332.50	5,523.08	-3.46	22.68	7.51	0.41	-0.23	-119.82	
5,619.00	0.17	92.67	5,618.08	-3.38	22.78	7.62	0.26	0.06	126.49	
5,714.00	0.34	75.08	5,713.08	-3.32	23.19	7.87	0.19	0.18	-18.52	
5,808.00	0.32	95.49	5,807.08	-3.27	23.72	8.16	0.13	-0.02	21.71	
5,903.00	0.20	79.71	5,902.08	-3.27	24.15	8.36	0.15	-0.13	-16.61	
5,997.00	0.46	100.26	5,996.08	-3.31	24.68	8.57	0.30	0.28	21.86	
6,092.00	0.38	146.33	6,091.08	-3.64	25.23	8.54	0.35	-0.08	48.49	
6,187.00	0.51	179.07	6,186.07	-4.32	25.41	8.02	0.29	0.14	34.46	
6,281.00	1.18	184.28	6,280.06	-5.70	25.35	6.76	0.72	0.71	5.54	
6,376.00	1.72	184.43	6,375.03	-8.10	25.16	4.56	0.57	0.57	0.16	
6,471.00	1.99	175.37	6,469.98	-11.17	25.19	1.85	0.42	0.28	-9.54	
6,566.00	2.11	178.50	6,564.92	-14.56	25.36	-1.06	0.17	0.13	3.29	
6,660.00	2.18	173.06	6,658.86	-18.06	25.63	-4.04	0.23	0.07	-5.79	

Company:	EOG Resources Inc.	Local Co-ordinate Reference:	Well Parshall 58-1608H
Project:	Parshall NAD 27	TVD Reference:	GL 1957' & KB 26' @ 1983.00ft
Site:	Parshall	MD Reference:	GL 1957' & KB 26' @ 1983.00ft
Well:	Parshall 58-1608H	North Reference:	True
Wellbore:	Original Drilling	Survey Calculation Method:	Minimum Curvature
Design:	Original Drilling	Database:	Casper District

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
6,755.00	2.23	189.61	6,753.79	-21.68	25.54	-7.28	0.67	0.05	17.42
6,850.00	0.36	214.90	6,848.76	-23.75	25.06	-9.34	2.01	-1.97	26.62
6,945.00	0.11	343.14	6,943.76	-23.90	24.86	-9.57	0.46	-0.26	134.99
7,038.00	0.20	302.96	7,036.76	-23.73	24.70	-9.49	0.15	0.10	-43.20
7,133.00	0.14	183.07	7,131.76	-23.76	24.55	-9.58	0.31	-0.06	-126.20
7,228.00	0.47	335.62	7,226.76	-23.52	24.38	-9.45	0.63	0.35	160.58
7,323.00	1.00	331.28	7,321.75	-22.44	23.83	-8.75	0.56	0.56	-4.57
7,418.00	0.49	358.35	7,416.74	-21.30	23.42	-7.94	0.64	-0.54	28.49
7,512.00	0.54	353.09	7,510.74	-20.46	23.35	-7.22	0.07	0.05	-5.60
7,607.00	0.88	32.01	7,605.73	-19.40	23.68	-6.13	0.60	0.36	40.97
7,702.00	1.07	14.94	7,700.72	-17.92	24.30	-4.54	0.36	0.20	-17.97
7,797.00	0.67	37.45	7,795.71	-16.62	24.87	-3.12	0.55	-0.42	23.69
7,892.00	0.70	7.64	7,890.70	-15.61	25.28	-2.03	0.37	0.03	-31.38
7,987.00	0.81	13.24	7,985.69	-14.38	25.51	-0.84	0.14	0.12	5.89
8,082.00	0.59	34.12	8,080.68	-13.32	25.94	0.30	0.35	-0.23	21.98
8,176.00	0.44	1.38	8,174.68	-12.56	26.22	1.10	0.34	-0.16	-34.83
8,271.00	0.92	353.22	8,269.67	-11.44	26.14	2.06	0.51	0.51	-8.59
8,366.00	0.82	351.99	8,364.66	-10.01	25.95	3.24	0.11	-0.11	-1.29
8,461.00	0.85	358.42	8,459.65	-8.63	25.84	4.40	0.10	0.03	6.77
8,556.00	0.64	346.65	8,554.64	-7.41	25.70	5.42	0.27	-0.22	-12.39
8,650.00	0.66	9.22	8,648.64	-6.36	25.66	6.33	0.27	0.02	24.01
8,743.00	0.66	21.67	8,741.63	-5.34	25.95	7.37	0.15	0.00	13.39
8,806.00	0.71	6.37	8,804.63	-4.61	26.12	8.09	0.30	0.08	-24.29
8,838.00	0.71	17.76	8,836.62	-4.23	26.21	8.47	0.44	0.00	35.59
8,869.00	0.40	302.20	8,867.62	-3.99	26.17	8.67	2.33	-1.00	-243.74
8,901.00	4.97	272.98	8,899.58	-3.85	24.69	8.10	14.45	14.28	-91.31
8,932.00	11.05	275.19	8,930.26	-3.51	20.39	6.39	19.63	19.61	7.13
8,964.00	18.06	281.27	8,961.22	-2.27	12.46	3.80	22.39	21.91	19.00
8,996.00	24.07	286.28	8,991.07	0.54	1.32	1.09	19.59	18.78	15.66
9,027.00	26.77	285.77	9,019.07	4.21	-11.47	-1.62	8.74	8.71	-1.65
9,059.00	29.53	285.04	9,047.28	8.21	-26.02	-4.86	8.69	8.63	-2.28
9,090.00	32.83	285.05	9,073.80	12.38	-41.52	-8.39	10.65	10.65	0.03
9,122.00	35.67	285.77	9,100.24	17.17	-58.88	-12.24	8.96	8.88	2.25
9,153.00	38.72	285.82	9,124.94	22.27	-76.91	-16.13	9.84	9.84	0.16
9,185.00	42.19	284.64	9,149.28	27.71	-96.94	-20.65	11.10	10.84	-3.69
9,216.00	45.85	283.76	9,171.57	32.99	-117.82	-25.71	11.97	11.81	-2.84
9,248.00	51.32	283.63	9,192.73	38.67	-141.13	-31.54	17.10	17.09	-0.41
9,280.00	56.21	284.21	9,211.64	44.88	-166.17	-37.71	15.35	15.28	1.81
9,311.00	59.10	284.50	9,228.22	51.37	-191.54	-43.79	9.36	9.32	0.94
9,343.00	61.33	285.18	9,244.12	58.49	-218.39	-50.00	7.21	6.97	2.13
9,374.00	64.32	286.22	9,258.28	65.95	-244.93	-55.76	10.10	9.65	3.35
9,406.00	68.25	287.08	9,271.14	74.35	-272.99	-61.41	12.53	12.28	2.69
9,437.00	72.00	287.31	9,281.68	82.97	-300.84	-66.76	12.12	12.10	0.74
9,469.00	74.46	287.34	9,290.91	92.09	-330.09	-72.31	7.69	7.69	0.09

Company:	EOG Resources Inc.	Local Co-ordinate Reference:	Well Parshall 58-1608H
Project:	Parshall NAD 27	TVD Reference:	GL 1957' & KB 26' @ 1983.00ft
Site:	Parshall	MD Reference:	GL 1957' & KB 26' @ 1983.00ft
Well:	Parshall 58-1608H	North Reference:	True
Wellbore:	Original Drilling	Survey Calculation Method:	Minimum Curvature
Design:	Original Drilling	Database:	Casper District

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
9,500.00	76.50	287.38	9,298.68	101.04	-358.73	-77.74	6.58	6.58	0.13
9,603.00	82.93	283.69	9,317.07	128.14	-456.31	-99.23	7.17	6.24	-3.58
First Survey in 6" Hole									
9,636.00	84.28	284.77	9,320.75	136.20	-488.10	-106.91	5.23	4.09	3.27
9,667.00	85.39	282.36	9,323.54	143.44	-518.11	-114.49	8.53	3.58	-7.77
9,697.00	86.30	280.18	9,325.71	149.28	-547.45	-122.99	7.86	3.03	-7.27
9,728.00	86.98	279.58	9,327.53	154.59	-577.94	-132.49	2.92	2.19	-1.94
9,758.00	86.54	277.49	9,329.22	159.04	-607.56	-142.36	7.11	-1.47	-6.97
9,789.00	85.96	277.61	9,331.25	163.10	-638.22	-153.05	1.91	-1.87	0.39
9,820.00	87.11	277.40	9,333.13	167.15	-668.90	-163.77	3.77	3.71	-0.68
9,851.00	89.03	278.31	9,334.17	171.38	-699.59	-174.32	6.85	6.19	2.94
9,882.00	91.18	277.52	9,334.11	175.65	-730.29	-184.85	7.39	6.94	-2.55
9,912.00	91.38	276.30	9,333.44	179.26	-760.07	-195.53	4.12	0.67	-4.07
9,974.00	92.49	276.06	9,331.35	185.93	-821.67	-218.33	1.83	1.79	-0.39
10,005.00	91.24	275.45	9,330.34	189.03	-852.50	-229.94	4.49	-4.03	-1.97
10,035.00	89.63	274.93	9,330.11	191.75	-882.37	-241.46	5.64	-5.37	-1.73
10,097.00	89.06	276.20	9,330.82	197.76	-944.07	-264.89	2.25	-0.92	2.05
10,189.00	86.13	274.71	9,334.68	206.50	-1,035.56	-299.79	3.57	-3.18	-1.62
10,220.00	85.36	274.77	9,336.98	209.05	-1,066.37	-311.88	2.49	-2.48	0.19
10,251.00	84.92	273.77	9,339.61	211.35	-1,097.17	-324.20	3.51	-1.42	-3.23
10,282.00	85.26	273.56	9,342.26	213.33	-1,128.00	-336.82	1.29	1.10	-0.68
10,313.00	87.45	274.72	9,344.23	215.56	-1,158.85	-349.22	7.99	7.06	3.74
10,344.00	89.26	275.41	9,345.12	218.30	-1,189.72	-361.18	6.25	5.84	2.23
10,375.00	89.36	275.25	9,345.49	221.18	-1,220.58	-373.01	0.61	0.32	-0.52
10,406.00	89.97	275.77	9,345.68	224.15	-1,251.44	-384.75	2.59	1.97	1.68
10,436.00	89.90	276.37	9,345.71	227.32	-1,281.27	-395.84	2.01	-0.23	2.00
10,467.00	90.03	276.54	9,345.73	230.81	-1,312.07	-407.11	0.69	0.42	0.55
10,498.00	89.90	276.84	9,345.75	234.42	-1,342.86	-418.26	1.05	-0.42	0.97
10,529.00	88.99	279.86	9,346.05	238.92	-1,373.53	-428.57	10.17	-2.94	9.74
10,560.00	89.09	281.12	9,346.57	244.56	-1,404.00	-437.78	4.08	0.32	4.06
10,591.00	89.63	282.85	9,346.91	251.00	-1,434.32	-446.21	5.85	1.74	5.58
10,622.00	89.83	283.46	9,347.06	258.06	-1,464.51	-454.03	2.07	0.65	1.97
10,653.00	90.13	283.37	9,347.07	265.25	-1,494.66	-461.72	1.01	0.97	-0.29
10,683.00	90.34	285.55	9,346.95	272.74	-1,523.71	-468.62	7.30	0.70	7.27
10,713.00	89.93	286.40	9,346.88	281.00	-1,552.55	-474.76	3.15	-1.37	2.83
10,744.00	89.63	284.95	9,347.00	289.37	-1,582.40	-481.25	4.78	-0.97	-4.68
10,775.00	89.50	286.55	9,347.23	297.78	-1,612.23	-487.71	5.18	-0.42	5.16
10,806.00	89.16	287.65	9,347.59	306.90	-1,641.86	-493.45	3.71	-1.10	3.55
10,837.00	90.07	288.63	9,347.80	316.55	-1,671.32	-498.63	4.31	2.94	3.16
10,867.00	90.97	289.30	9,347.53	326.30	-1,699.69	-503.22	3.74	3.00	2.23
10,898.00	91.31	289.99	9,346.91	336.72	-1,728.88	-507.60	2.48	1.10	2.23
10,929.00	91.01	290.12	9,346.29	347.35	-1,757.99	-511.77	1.05	-0.97	0.42
10,959.00	89.13	291.89	9,346.25	358.10	-1,786.00	-515.30	8.61	-6.27	5.90

Company:	EOG Resources Inc.	Local Co-ordinate Reference:	Well Parshall 58-1608H
Project:	Parshall NAD 27	TVD Reference:	GL 1957' & KB 26' @ 1983.00ft
Site:	Parshall	MD Reference:	GL 1957' & KB 26' @ 1983.00ft
Well:	Parshall 58-1608H	North Reference:	True
Wellbore:	Original Drilling	Survey Calculation Method:	Minimum Curvature
Design:	Original Drilling	Database:	Casper District

Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
10,990.00	88.76	293.29	9,346.82	370.01	-1,814.61	-518.10	4.67	-1.19	4.52	
11,021.00	88.03	291.90	9,347.42	381.91	-1,843.23	-520.89	4.57	0.87	-4.48	
11,052.00	88.99	292.37	9,347.95	393.59	-1,871.94	-523.94	1.52	-0.13	1.52	
11,082.00	88.62	293.07	9,348.58	405.18	-1,899.60	-526.58	2.64	-1.23	2.33	
11,113.00	88.52	295.20	9,349.35	417.85	-1,927.88	-528.54	6.88	-0.32	6.87	
11,144.00	88.28	295.04	9,350.22	431.00	-1,955.94	-529.98	0.93	-0.77	-0.52	
11,175.00	88.89	295.31	9,350.98	444.19	-1,983.99	-531.38	2.15	1.97	0.87	
11,206.00	89.43	295.28	9,351.44	457.43	-2,012.01	-532.72	1.74	1.74	-0.10	
11,237.00	89.56	296.69	9,351.71	471.01	-2,039.88	-533.69	4.57	0.42	4.55	
11,268.00	88.79	296.79	9,352.16	484.96	-2,067.56	-534.24	2.50	-2.48	0.32	
11,299.00	88.83	298.08	9,352.80	499.24	-2,095.06	-534.42	4.16	0.13	4.16	
11,330.00	88.52	299.19	9,353.52	514.09	-2,122.27	-533.96	3.72	-1.00	3.58	
11,361.00	88.49	299.39	9,354.33	529.25	-2,149.29	-533.13	0.65	-0.10	0.65	
11,392.00	88.83	301.60	9,355.05	544.98	-2,176.00	-531.66	7.21	1.10	7.13	
11,422.00	89.76	301.77	9,355.42	560.73	-2,201.52	-529.61	3.15	3.10	0.57	
11,453.00	90.87	303.65	9,355.25	577.48	-2,227.60	-526.95	7.04	3.58	6.06	
11,484.00	91.68	303.47	9,354.56	594.62	-2,253.43	-523.82	2.68	2.61	-0.58	
11,515.00	91.24	302.56	9,353.77	611.50	-2,279.42	-520.99	3.26	-1.42	-2.94	
11,546.00	90.10	304.29	9,353.41	628.57	-2,305.28	-517.93	6.68	-3.68	5.58	
11,577.00	89.13	304.80	9,353.62	646.15	-2,330.82	-514.28	3.54	-3.13	1.65	
11,607.00	88.79	306.57	9,354.16	663.65	-2,355.18	-510.15	6.01	-1.13	5.90	
11,638.00	89.66	307.48	9,354.58	682.31	-2,379.93	-505.16	4.06	2.81	2.94	
11,669.00	89.90	310.32	9,354.70	701.78	-2,404.05	-499.18	9.19	0.77	9.16	
11,700.00	90.27	309.99	9,354.65	721.77	-2,427.74	-492.53	1.60	1.19	-1.06	
11,730.00	90.67	311.93	9,354.41	741.43	-2,450.40	-485.68	6.60	1.33	6.47	
11,761.00	90.50	313.07	9,354.09	762.38	-2,473.25	-477.80	3.72	-0.55	3.68	
11,792.00	90.37	313.72	9,353.86	783.67	-2,495.78	-469.45	2.14	-0.42	2.10	
11,823.00	89.80	315.84	9,353.81	805.51	-2,517.78	-460.39	7.08	-1.84	6.84	
11,854.00	89.66	317.15	9,353.96	827.99	-2,539.12	-450.44	4.25	-0.45	4.23	
11,885.00	89.56	319.10	9,354.17	851.07	-2,559.81	-439.65	6.30	-0.32	6.29	
11,916.00	89.90	320.28	9,354.31	874.71	-2,579.86	-428.08	3.96	1.10	3.81	
11,946.00	90.07	320.29	9,354.32	897.79	-2,599.03	-416.59	0.57	0.57	0.03	
12,008.00	90.47	319.76	9,354.03	945.30	-2,638.86	-393.11	1.07	0.65	-0.85	
12,039.00	91.01	319.90	9,353.63	968.99	-2,658.86	-381.47	1.80	1.74	0.45	
12,130.00	91.65	320.62	9,351.52	1,038.94	-2,717.02	-346.67	1.06	0.70	0.79	
12,223.00	89.80	319.09	9,350.34	1,110.02	-2,776.97	-311.71	2.58	-1.99	-1.65	
12,317.00	89.50	319.15	9,350.91	1,181.09	-2,838.49	-277.49	0.33	-0.32	0.06	
12,412.00	90.34	319.25	9,351.05	1,253.00	-2,900.56	-242.79	0.89	0.88	0.11	
12,507.00	90.40	321.57	9,350.43	1,326.21	-2,961.10	-206.22	2.44	0.06	2.44	
12,601.00	89.66	321.08	9,350.38	1,399.59	-3,019.84	-168.66	0.94	-0.79	-0.52	
12,696.00	90.30	322.23	9,350.42	1,474.10	-3,078.78	-130.19	1.39	0.67	1.21	
12,759.00	90.40	322.11	9,350.03	1,523.86	-3,117.42	-104.17	0.25	0.16	-0.19	
12,791.00	88.99	322.65	9,350.20	1,549.20	-3,136.95	-90.84	4.72	-4.41	1.69	

Company:	EOG Resources Inc.	Local Co-ordinate Reference:	Well Parshall 58-1608H
Project:	Parshall NAD 27	TVD Reference:	GL 1957' & KB 26' @ 1983.00ft
Site:	Parshall	MD Reference:	GL 1957' & KB 26' @ 1983.00ft
Well:	Parshall 58-1608H	North Reference:	True
Wellbore:	Original Drilling	Survey Calculation Method:	Minimum Curvature
Design:	Original Drilling	Database:	Casper District

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
12,885.00	90.00	325.19	9,351.03	1,625.16	-3,192.30	-49.42	2.91	1.07	2.70
12,949.00	91.08	323.09	9,350.43	1,677.02	-3,229.79	-21.00	3.69	1.69	-3.28
12,979.00	91.41	325.11	9,349.78	1,701.32	-3,247.37	-7.70	6.82	1.10	6.73
13,011.00	89.97	324.13	9,349.39	1,727.41	-3,265.90	6.75	5.44	-4.50	-3.06
13,074.00	89.13	324.90	9,349.89	1,778.70	-3,302.47	35.10	1.81	-1.33	1.22
13,106.00	88.96	324.46	9,350.42	1,804.81	-3,320.97	49.58	1.47	-0.53	-1.38
13,169.00	88.29	324.61	9,351.93	1,856.11	-3,357.51	77.95	1.09	-1.06	0.24
13,200.00	89.70	324.37	9,352.47	1,881.34	-3,375.51	91.88	4.61	4.55	-0.77
13,231.00	90.00	324.47	9,352.56	1,906.55	-3,393.55	105.79	1.02	0.97	0.32
13,263.00	89.97	324.68	9,352.56	1,932.62	-3,412.10	120.22	0.66	-0.09	0.66
13,295.00	90.64	325.76	9,352.39	1,958.91	-3,430.35	134.97	3.97	2.09	3.38
13,336.00	89.63	324.73	9,352.30	1,992.59	-3,453.72	153.88	3.52	-2.46	-2.51
13,358.00	88.92	325.05	9,352.58	2,010.59	-3,466.37	163.91	3.54	-3.23	1.45
13,452.00	86.47	325.84	9,356.36	2,087.93	-3,519.64	207.53	2.74	-2.61	0.84
13,515.00	86.27	325.66	9,360.34	2,139.90	-3,555.03	237.03	0.43	-0.32	-0.29
13,548.00	87.22	327.06	9,362.22	2,167.33	-3,573.28	252.79	5.12	2.88	4.24
13,611.00	87.95	326.42	9,364.87	2,219.97	-3,607.80	283.28	1.54	1.16	-1.02
13,642.00	88.86	325.36	9,365.74	2,245.62	-3,625.18	297.88	4.51	2.94	-3.42
13,737.00	90.67	326.34	9,366.13	2,324.24	-3,678.50	342.60	2.17	1.91	1.03
13,831.00	90.50	326.94	9,365.17	2,402.74	-3,730.19	387.98	0.66	-0.18	0.64
13,926.00	90.37	325.61	9,364.44	2,481.75	-3,782.93	433.31	1.41	-0.14	-1.40
14,021.00	90.50	325.25	9,363.72	2,559.98	-3,836.83	477.41	0.40	0.14	-0.38
14,115.00	88.62	325.82	9,364.44	2,637.47	-3,890.03	521.20	2.09	-2.00	0.61
14,178.00	88.02	326.39	9,366.29	2,689.74	-3,925.14	551.08	1.31	-0.95	0.90
14,209.00	88.59	325.19	9,367.21	2,715.37	-3,942.56	565.64	4.28	1.84	-3.87
14,241.00	89.06	325.88	9,367.87	2,741.74	-3,960.67	580.54	2.61	1.47	2.16
14,272.00	89.87	324.50	9,368.15	2,767.19	-3,978.36	594.82	5.16	2.61	-4.45
14,304.00	90.74	325.29	9,367.98	2,793.37	-3,996.77	609.41	3.67	2.72	2.47
14,398.00	91.75	325.77	9,365.94	2,870.85	-4,049.95	653.18	1.19	1.07	0.51
14,494.00	90.77	325.59	9,363.83	2,950.11	-4,104.07	698.10	1.04	-1.02	-0.19
14,588.00	90.34	326.20	9,362.92	3,027.94	-4,156.77	742.41	0.79	-0.46	0.65
14,683.00	87.41	324.33	9,364.79	3,105.99	-4,210.88	786.25	3.66	-3.08	-1.97
14,778.00	88.89	325.15	9,367.85	3,183.52	-4,265.69	829.31	1.78	1.56	0.86
14,809.00	89.19	326.14	9,368.37	3,209.10	-4,283.18	843.80	3.34	0.97	3.19
14,872.00	89.16	327.65	9,369.28	3,261.87	-4,317.59	874.46	2.40	-0.05	2.40
14,897.00	89.73	327.17	9,369.52	3,282.93	-4,331.05	886.82	2.98	2.28	-1.92
14,967.00	89.83	328.42	9,369.79	3,342.16	-4,368.36	921.85	1.79	0.14	1.79
15,062.00	88.76	326.42	9,370.96	3,422.20	-4,419.51	968.84	2.39	-1.13	-2.11
Last SDI MWD Survey									
15,124.00	88.76	326.42	9,372.30	3,473.84	-4,453.79	998.56	0.00	0.00	0.00
Projection to TD									

Company:	EOG Resources Inc.	Local Co-ordinate Reference:	Well Parshall 58-1608H
Project:	Parshall NAD 27	TVD Reference:	GL 1957' & KB 26' @ 1983.00ft
Site:	Parshall	MD Reference:	GL 1957' & KB 26' @ 1983.00ft
Well:	Parshall 58-1608H	North Reference:	True
Wellbore:	Original Drilling	Survey Calculation Method:	Minimum Curvature
Design:	Original Drilling	Database:	Casper District

Design Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
100.00	100.00	0.75	0.18	1st ThirdParty Gyro Survey
2,047.00	2,046.94	3.33	0.55	1st SDI MWD Survey
9,603.00	9,317.07	128.14	-456.31	First Survey in 6" Hole
15,062.00	9,370.96	3,422.20	-4,419.51	Last SDI MWD Survey
15,124.00	9,372.30	3,473.84	-4,453.79	Projection to TD

Checked By: _____ Approved By: _____ Date: _____



Survey Certification

7327 West Barton Road
Casper, WY 82604
(307)-472-6621 Fax (307) 472-5439

Operator	EOG Resources Inc,
Well Name & No.	Parshall 58-1608H ST1
County & State	Mountraí County, ND
SDI Job No.	410814HEFK186361
Rig	H&P 278
Survey Date	12-Oct-2014

I, Seth M. Burstad, having personal knowledge of all the facts, hereby certify that the attached directional survey run from a measured depth of 11392 feet to a measured depth of 18298 feet is true and correct as determined from all available records.

Seth Burstad
Signature

16-Oct-2014
Date

Seth M. Burstad
Rockies Region Well Planner
Scientific Drilling - Rocky Mountain District



EOG Resources Inc.

Parshall NAD 27
Parshall
Parshall 58-1608H

ST 1

Design: ST1

Standard Survey Report

16 October, 2014



Company:	EOG Resources Inc.	Local Co-ordinate Reference:	Well Parshall 58-1608H
Project:	Parshall NAD 27	TVD Reference:	GL 1957' & KB 26' @ 1983.00ft
Site:	Parshall	MD Reference:	GL 1957' & KB 26' @ 1983.00ft
Well:	Parshall 58-1608H	North Reference:	True
Wellbore:	ST 1	Survey Calculation Method:	Minimum Curvature
Design:	ST1	Database:	Casper District

Project	Parshall NAD 27,		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	North Dakota North 3301		

Site	Parshall		
Site Position:		Northing:	360,619.48 usft
From:	Lat/Long	Easting:	1,596,401.21 usft
Position Uncertainty:	0.00 ft	Slot Radius:	13.200 in
		Latitude:	47° 58' 36.472 N
		Longitude:	102° 8' 52.445 W
		Grid Convergence:	-1.23 °

Well	Parshall 58-1608H, 420' FSL 1600' FWL Sec 16 T152N R90W		
Well Position	+N/-S	0.00 ft	Northing: 361,738.40 usft
	+E/-W	0.00 ft	Easting: 1,581,709.44 usft
Position Uncertainty	0.00 ft	Wellhead Elevation:	0.00 ft
		Latitude:	47° 58' 44.353 N
		Longitude:	102° 12' 28.692 W
		Ground Level:	1,957.00 ft

Wellbore	ST 1		
Magnetics	Model Name	Sample Date	Declination (°)
	BGGM2014	10/9/2014	7.48
			Dip Angle (°) 73.05
			Field Strength (nT) 56,344

Design	ST1		
Audit Notes:			
Version:	1.0	Phase:	ACTUAL
		Tie On Depth:	11,392.00
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)
	0.00	0.00	0.00
			Direction (°) 313.27

Survey Program	Date	10/16/2014		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
100.00	1,947.00	Survey #1 - Surface (Original Drilling)	NS-GYRO-MS	North sensing gyrocompassing m/s
2,047.00	9,500.00	Survey #2 - Vertical/Curve (Original Drilling)	MWD SDI	MWD - Standard ver 1.0.1
9,603.00	11,392.00	Survey #3 - Lateral (Original Drilling)	MWD+IFR1+MSA (Sperry)	Fixed:v2:Rockies, crustal dec + 3-axis correction
11,453.00	18,298.00	Survey #1 - Lateral (ST 1)	MWD+IFR1+MSA (Sperry)	Fixed:v2:Rockies, crustal dec + 3-axis correction

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
11,392.00	88.83	301.60	9,355.05	544.98	-2,176.00	1,957.97	7.21	1.10	7.13
TIP									
11,453.00	89.87	301.41	9,355.74	576.85	-2,228.00	2,017.69	1.73	1.70	-0.31
11,484.00	89.46	300.54	9,355.93	592.80	-2,254.58	2,047.98	3.10	-1.32	-2.81
11,576.00	89.63	300.92	9,356.66	639.81	-2,333.66	2,137.78	0.45	0.18	0.41
11,668.00	88.79	300.41	9,357.92	686.73	-2,412.78	2,227.55	1.07	-0.91	-0.55
11,761.00	88.73	298.76	9,359.94	732.63	-2,493.64	2,317.89	1.77	-0.06	-1.77
11,854.00	89.60	297.95	9,361.29	776.80	-2,575.47	2,407.74	1.28	0.94	-0.87

Company:	EOG Resources Inc.	Local Co-ordinate Reference:	Well Parshall 58-1608H
Project:	Parshall NAD 27	TVD Reference:	GL 1957' & KB 26' @ 1983.00ft
Site:	Parshall	MD Reference:	GL 1957' & KB 26' @ 1983.00ft
Well:	Parshall 58-1608H	North Reference:	True
Wellbore:	ST 1	Survey Calculation Method:	Minimum Curvature
Design:	ST1	Database:	Casper District

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
11,916.00	90.03	298.89	9,361.49	806.30	-2,630.00	2,467.67	1.67	0.69	1.52
11,946.00	89.77	298.72	9,361.55	820.76	-2,656.28	2,496.72	1.04	-0.87	-0.57
11,977.00	89.63	299.89	9,361.71	835.93	-2,683.32	2,526.80	3.80	-0.45	3.77
12,008.00	89.63	300.08	9,361.91	851.43	-2,710.17	2,556.97	0.61	0.00	0.61
12,039.00	89.46	300.23	9,362.15	867.00	-2,736.97	2,587.16	0.73	-0.55	0.48
12,069.00	90.44	301.28	9,362.18	882.34	-2,762.75	2,616.45	4.79	3.27	3.50
12,099.00	90.77	301.19	9,361.86	897.89	-2,788.40	2,645.79	1.14	1.10	-0.30
12,130.00	90.44	302.75	9,361.54	914.31	-2,814.70	2,676.19	5.14	-1.06	5.03
12,161.00	90.07	303.67	9,361.40	931.28	-2,840.63	2,706.71	3.20	-1.19	2.97
12,192.00	88.99	304.27	9,361.65	948.60	-2,866.34	2,737.30	3.99	-3.48	1.94
12,223.00	89.09	304.62	9,362.17	966.14	-2,891.90	2,767.93	1.17	0.32	1.13
12,254.00	89.73	306.06	9,362.49	984.07	-2,917.19	2,798.63	5.08	2.06	4.65
12,286.00	89.60	307.02	9,362.68	1,003.12	-2,942.90	2,830.41	3.03	-0.41	3.00
12,317.00	89.97	307.47	9,362.79	1,021.88	-2,967.57	2,861.24	1.88	1.19	1.45
12,348.00	90.37	308.90	9,362.70	1,041.04	-2,991.94	2,892.11	4.79	1.29	4.61
12,380.00	90.80	309.88	9,362.38	1,061.35	-3,016.67	2,924.04	3.34	1.34	3.06
12,412.00	90.97	311.05	9,361.88	1,082.11	-3,041.01	2,955.99	3.69	0.53	3.66
12,443.00	90.77	312.26	9,361.41	1,102.71	-3,064.17	2,986.98	3.96	-0.65	3.90
12,475.00	91.14	312.96	9,360.88	1,124.38	-3,087.72	3,018.97	2.47	1.16	2.19
12,507.00	90.81	313.82	9,360.33	1,146.36	-3,110.97	3,050.97	2.88	-1.03	2.69
12,538.00	90.50	314.97	9,359.98	1,168.04	-3,133.12	3,081.96	3.84	-1.00	3.71
12,570.00	90.13	315.63	9,359.80	1,190.79	-3,155.62	3,113.94	2.36	-1.16	2.06
12,601.00	89.50	316.10	9,359.90	1,213.03	-3,177.21	3,144.90	2.54	-2.03	1.52
12,633.00	89.70	317.28	9,360.13	1,236.32	-3,199.16	3,176.85	3.74	0.63	3.69
12,664.00	90.30	318.53	9,360.13	1,259.32	-3,219.94	3,207.74	4.47	1.94	4.03
12,696.00	89.70	319.91	9,360.13	1,283.55	-3,240.84	3,239.57	4.70	-1.88	4.31
12,728.00	89.60	320.35	9,360.32	1,308.11	-3,261.36	3,271.34	1.41	-0.31	1.38
12,759.00	89.77	321.10	9,360.49	1,332.11	-3,280.98	3,302.08	2.48	0.55	2.42
12,791.00	90.03	323.15	9,360.55	1,357.37	-3,300.62	3,333.70	6.46	0.81	6.41
12,822.00	90.13	324.18	9,360.50	1,382.34	-3,318.99	3,364.19	3.34	0.32	3.32
12,853.00	90.07	324.78	9,360.45	1,407.57	-3,337.00	3,394.59	1.95	-0.19	1.94
12,885.00	90.23	324.89	9,360.37	1,433.73	-3,355.43	3,425.94	0.61	0.50	0.34
12,958.00	88.89	323.73	9,360.93	1,493.01	-3,398.02	3,497.59	2.43	-1.84	-1.59
12,979.00	88.56	323.36	9,361.39	1,509.90	-3,410.49	3,518.25	2.36	-1.57	-1.76
13,074.00	89.00	324.53	9,363.42	1,586.68	-3,466.39	3,611.58	1.32	0.46	1.23
13,105.00	89.46	324.76	9,363.83	1,611.97	-3,484.33	3,641.97	1.66	1.48	0.74
13,168.00	89.36	325.94	9,364.48	1,663.79	-3,520.14	3,703.57	1.88	-0.16	1.87
13,200.00	90.23	326.74	9,364.60	1,690.42	-3,537.88	3,734.74	3.69	2.72	2.50
13,263.00	90.10	325.71	9,364.42	1,742.79	-3,572.90	3,796.13	1.65	-0.21	-1.63
13,357.00	89.93	326.74	9,364.39	1,820.92	-3,625.16	3,887.74	1.11	-0.18	1.10
13,452.00	89.60	324.61	9,364.78	1,899.37	-3,678.73	3,980.51	2.27	-0.35	-2.24
13,547.00	88.80	324.93	9,366.11	1,976.97	-3,733.52	4,073.60	0.91	-0.84	0.34
13,642.00	88.89	325.81	9,368.02	2,055.12	-3,787.50	4,166.47	0.93	0.09	0.93

Company:	EOG Resources Inc.	Local Co-ordinate Reference:	Well Parshall 58-1608H
Project:	Parshall NAD 27	TVD Reference:	GL 1957' & KB 26' @ 1983.00ft
Site:	Parshall	MD Reference:	GL 1957' & KB 26' @ 1983.00ft
Well:	Parshall 58-1608H	North Reference:	True
Wellbore:	ST 1	Survey Calculation Method:	Minimum Curvature
Design:	ST1	Database:	Casper District

Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
13,705.00	90.47	325.74	9,368.37	2,107.21	-3,822.93	4,227.97	2.51	2.51	-0.11	
13,737.00	90.57	325.29	9,368.08	2,133.58	-3,841.05	4,259.24	1.44	0.31	-1.41	
13,831.00	89.40	324.39	9,368.11	2,210.43	-3,895.18	4,351.33	1.57	-1.24	-0.96	
13,926.00	91.34	327.39	9,367.49	2,289.07	-3,948.44	4,444.01	3.76	2.04	3.16	
14,020.00	91.54	327.49	9,365.13	2,368.27	-3,999.01	4,535.12	0.24	0.21	0.11	
14,115.00	91.55	327.65	9,362.57	2,448.43	-4,049.94	4,627.15	0.17	0.01	0.17	
14,209.00	88.69	326.36	9,362.37	2,527.26	-4,101.12	4,718.45	3.34	-3.04	-1.37	
14,304.00	88.39	324.27	9,364.79	2,605.35	-4,155.16	4,811.32	2.22	-0.32	-2.20	
14,335.00	88.66	324.66	9,365.59	2,630.56	-4,173.17	4,841.72	1.53	0.87	1.26	
14,398.00	88.56	324.38	9,367.12	2,681.85	-4,209.73	4,903.49	0.47	-0.16	-0.44	
14,493.00	89.03	325.70	9,369.12	2,759.69	-4,264.15	4,996.47	1.47	0.49	1.39	
14,588.00	87.38	325.64	9,372.09	2,838.10	-4,317.70	5,089.21	1.74	-1.74	-0.06	
14,651.00	86.37	325.08	9,375.53	2,889.85	-4,353.46	5,150.72	1.83	-1.60	-0.89	
14,683.00	86.85	325.84	9,377.42	2,916.17	-4,371.57	5,181.94	2.81	1.50	2.38	
14,778.00	86.70	326.82	9,382.77	2,995.10	-4,424.15	5,274.33	1.04	-0.16	1.03	
14,872.00	88.76	329.45	9,386.49	3,074.86	-4,473.73	5,365.10	3.55	2.19	2.80	
14,967.00	89.97	328.93	9,387.54	3,156.45	-4,522.38	5,456.45	1.39	1.27	-0.55	
15,062.00	90.44	328.80	9,387.20	3,237.76	-4,571.50	5,547.95	0.51	0.49	-0.14	
15,156.00	91.07	328.86	9,385.96	3,318.19	-4,620.15	5,638.50	0.67	0.67	0.06	
15,251.00	89.93	329.54	9,385.13	3,399.78	-4,668.79	5,729.84	1.40	-1.20	0.72	
15,346.00	90.07	329.88	9,385.13	3,481.81	-4,716.71	5,820.96	0.39	0.15	0.36	
15,441.00	88.36	328.40	9,386.44	3,563.35	-4,765.43	5,912.32	2.38	-1.80	-1.56	
15,536.00	89.63	328.25	9,388.10	3,644.19	-4,815.31	6,004.05	1.35	1.34	-0.16	
15,630.00	88.99	328.43	9,389.23	3,724.19	-4,864.64	6,094.81	0.71	-0.68	0.19	
15,724.00	88.19	329.84	9,391.55	3,804.85	-4,912.85	6,185.20	1.72	-0.85	1.50	
15,819.00	90.54	330.18	9,392.60	3,887.12	-4,960.33	6,276.16	2.50	2.47	0.36	
15,914.00	89.56	328.83	9,392.52	3,968.98	-5,008.54	6,367.37	1.76	-1.03	-1.42	
16,009.00	89.93	328.10	9,392.94	4,049.95	-5,058.22	6,459.04	0.86	0.39	-0.77	
16,103.00	90.64	328.38	9,392.47	4,129.87	-5,107.70	6,549.85	0.81	0.76	0.30	
16,198.00	88.86	327.40	9,392.89	4,210.33	-5,158.19	6,641.77	2.14	-1.87	-1.03	
16,293.00	89.43	327.09	9,394.30	4,290.22	-5,209.59	6,733.94	0.68	0.60	-0.33	
16,388.00	90.23	328.28	9,394.59	4,370.50	-5,260.37	6,825.95	1.51	0.84	1.25	
16,482.00	89.02	327.73	9,395.20	4,450.22	-5,310.17	6,916.85	1.41	-1.29	-0.59	
16,577.00	90.87	329.91	9,395.29	4,531.49	-5,359.35	7,008.37	3.01	1.95	2.29	
16,672.00	89.87	330.17	9,394.68	4,613.79	-5,406.79	7,099.32	1.09	-1.05	0.27	
16,767.00	90.54	329.93	9,394.34	4,696.10	-5,454.22	7,190.28	0.75	0.71	-0.25	
16,862.00	90.57	330.12	9,393.42	4,778.39	-5,501.68	7,281.24	0.20	0.03	0.20	
16,957.00	90.60	329.66	9,392.45	4,860.57	-5,549.34	7,372.27	0.49	0.03	-0.48	
17,051.00	90.47	328.41	9,391.57	4,941.17	-5,597.70	7,462.72	1.34	-0.14	-1.33	
17,146.00	87.89	328.83	9,392.93	5,022.26	-5,647.16	7,554.32	2.75	-2.72	0.44	
17,240.00	86.52	327.59	9,397.52	5,102.06	-5,696.61	7,645.03	1.96	-1.46	-1.32	
17,272.00	87.85	327.03	9,399.09	5,128.95	-5,713.88	7,676.03	4.51	4.16	-1.75	
17,335.00	87.88	325.72	9,401.43	5,181.37	-5,748.74	7,737.35	2.08	0.05	-2.08	
17,429.00	87.72	323.31	9,405.04	5,257.85	-5,803.26	7,829.47	2.57	-0.17	-2.56	

Company:	EOG Resources Inc.	Local Co-ordinate Reference:	Well Parshall 58-1608H
Project:	Parshall NAD 27	TVD Reference:	GL 1957' & KB 26' @ 1983.00ft
Site:	Parshall	MD Reference:	GL 1957' & KB 26' @ 1983.00ft
Well:	Parshall 58-1608H	North Reference:	True
Wellbore:	ST 1	Survey Calculation Method:	Minimum Curvature
Design:	ST1	Database:	Casper District

Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
17,461.00	88.23	323.76	9,406.17	5,283.57	-5,822.27	7,860.94	2.12	1.59	1.41	
17,524.00	89.06	323.06	9,407.66	5,334.14	-5,859.81	7,922.93	1.72	1.32	-1.11	
17,618.00	90.64	323.83	9,407.91	5,409.65	-5,915.79	8,015.45	1.87	1.68	0.82	
17,713.00	90.13	323.59	9,407.27	5,486.22	-5,972.02	8,108.88	0.59	-0.54	-0.25	
17,807.00	90.17	322.10	9,407.02	5,561.13	-6,028.79	8,201.56	1.59	0.04	-1.59	
17,902.00	89.30	322.16	9,407.46	5,636.13	-6,087.11	8,295.43	0.92	-0.92	0.06	
17,997.00	89.53	323.32	9,408.43	5,711.73	-6,144.62	8,389.13	1.24	0.24	1.22	
18,091.00	91.85	323.43	9,407.30	5,787.16	-6,200.69	8,481.65	2.47	2.47	0.12	
18,186.00	91.98	322.75	9,404.13	5,863.08	-6,257.71	8,575.21	0.73	0.14	-0.72	
18,235.00	92.08	323.83	9,402.39	5,902.33	-6,286.98	8,623.43	2.21	0.20	2.20	
Last SDI MWD Survey										
18,298.00	92.08	323.83	9,400.11	5,953.16	-6,324.14	8,685.32	0.00	0.00	0.00	
Projection to TD										

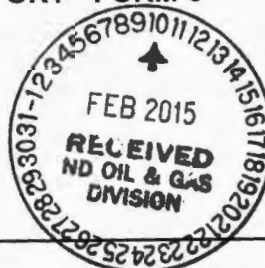
Design Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates			
		+N/-S (ft)	+E/-W (ft)	Comment	
11,392.00	9,355.05	544.98	-2,176.00	TIP	
18,235.00	9,402.39	5,902.33	-6,286.98	Last SDI MWD Survey	
18,298.00	9,400.11	5,953.16	-6,324.14	Projection to TD	

Checked By: _____ Approved By: _____ Date: _____



WELL COMPLETION OR RECOMPLETION REPORT - FORM 6

INDUSTRIAL COMMISSION OF NORTH DAKOTA
OIL AND GAS DIVISION
600 EAST BOULEVARD DEPT 405
BISMARCK, ND 58505-0840
SFN 2468 (04-2010)



Well File No.
28525

PLEASE READ INSTRUCTIONS BEFORE FILLING OUT FORM.
PLEASE SUBMIT THE ORIGINAL AND ONE COPY.

Designate Type of Completion			
<input checked="" type="checkbox"/> Oil Well	<input type="checkbox"/> EOR Well	<input type="checkbox"/> Recompletion	<input type="checkbox"/> Deepened Well
<input type="checkbox"/> Gas Well	<input type="checkbox"/> SWD Well	<input type="checkbox"/> Water Supply Well	<input type="checkbox"/> Other:
Well Name and Number Parshall 58-1608H		Spacing Unit Description Sections 8, 16 & 17 T152N R90W	
Operator EOG Resources, Inc.		Telephone Number (303) 262-9973	
Address 600 17th Street, Suite 1000N		Field Parshall	
City Denver	State CO	Zip Code 80202	Permit Type <input type="checkbox"/> Wildcat <input checked="" type="checkbox"/> Development <input type="checkbox"/> Extension

LOCATION OF WELL

At Surface 420 F S L	1600 F WL	Qtr-Qtr SESW	Section 16	Township 152 N	Range 90 W	County Mountrail
Spud Date July 20, 2014	Date TD Reached October 19, 2014	Drilling Contractor and Rig Number H&P #454		KB Elevation (Ft) 1983	Graded Elevation (Ft) 1957	
Type of Electric and Other Logs Run (See Instructions) CBL/GR; MWD/GR						

CASING & TUBULARS RECORD (Report all strings set in well)

Well Bore	String Type	Size (Inch)	Top Set (MD Ft)	Depth Set (MD Ft)	Hole Size (Inch)	Weight (Lbs/Ft)	Anchor Set (MD Ft)	Packer Set (MD Ft)	Sacks Cement	Top of Cement
Surface Hole	Surface	9-5/8	0	1970	13.5	36			680	0
Vertical Hole	Intermediate	7-0	0	9557	8.75	26, 32			920	4037
Lateral1	Production	4-1/2	8859	18294	6.0	11.6			830	8859

PERFORATION & OPEN HOLE INTERVALS

Well Bore	Well Bore TD Drillers Depth (MD Ft)	Completion Type	Open Hole/Perforated Interval (MD,Ft)		Kick-off Point (MD Ft)	Top of Casing Window (MD Ft)	Date Perf'd or Drilled	Date Isolated	Isolation Method	Sacks Cement
Lateral1	18298	Perforations	9582	18260	8837		12/21/2014			

PRODUCTION

Current Producing Open Hole or Perforated Interval(s), This Completion, Top and Bottom, (MD Ft) Perforated from 9,582' MD to 18,260' MD						Name of Zone (If Different from Pool Name)				
Date Well Completed (SEE INSTRUCTIONS) February 4, 2015			Producing Method Flowing		Pumping-Size & Type of Pump			Well Status (Producing or Shut-In) Producing		
Date of Test 02/07/2015	Hours Tested 24	Choke Size 64 /64	Production for Test		Oil (Bbls) 1227	Gas (MCF) 107	Water (Bbls) 2855	Oil Gravity-API (Corr.) 43.1 °	Disposition of Gas Sold	
Flowing Tubing Pressure (PSI) 360		Flowing Casing Pressure (PSI) 650		Calculated 24-Hour Rate	Oil (Bbls) 1227	Gas (MCF) 107	Water (Bbls) 2855	Gas-Oil Ratio 87		

GEOLOGICAL MARKERS

Formation	MD (Ft)	TVD (Ft)
Pierre Shale		1694
Greenhorn		3950
Dakota Sandstone		4650
Base Dakota		4936
Piper Lime		5747
Piper Dunham Salt		5981
Spearfish		6061
Opeche		6406
Minnelusa		6480
Tyler		6767
Kibbey		7100
Kibbey Lime		7211
Charles		7394
Base Last Salt		7777
Mission Canyon		7925
Lodgepole		8530
Lower WW		8825
Upper Virden		8905
Lower Virden		8990
1st Shale		9107
2nd Shale		9224
3rd Shale		9243
False Bakken		9265
Scallion		9272
Upper Bakken Shale		9285
Middle Bakken		9302

PLUG BACK INFORMATION

[illegible]

CORES CUT

Top (Ft)	Bottom (Ft)	Formation	Top (Ft)	Bottom (Ft)	Formation

Drill Stem Test

Test Date	Formation	Top (Ft)	Bottom (Ft)	BH Temp (°F)	CL ppm	H2S ppm	Shut-in 1 (PSIG)	Shut-in 2 (PSIG)
Drill Pipe Recovery								
Sample Chamber Recovery								
Test Date	Formation	Top (Ft)	Bottom (Ft)	BH Temp (°F)	CL ppm	H2S ppm	Shut-in 1 (PSIG)	Shut-in 2 (PSIG)
Drill Pipe Recovery								
Sample Chamber Recovery								
Test Date	Formation	Top (Ft)	Bottom (Ft)	BH Temp (°F)	CL ppm	H2S ppm	Shut-in 1 (PSIG)	Shut-in 2 (PSIG)
Drill Pipe Recovery								
Sample Chamber Recovery								
Test Date	Formation	Top (Ft)	Bottom (Ft)	BH Temp (°F)	CL ppm	H2S ppm	Shut-in 1 (PSIG)	Shut-in 2 (PSIG)
Drill Pipe Recovery								
Sample Chamber Recovery								
Test Date	Formation	Top (Ft)	Bottom (Ft)	BH Temp (°F)	CL ppm	H2S ppm	Shut-in 1 (PSIG)	Shut-in 2 (PSIG)
Drill Pipe Recovery								
Sample Chamber Recovery								
Test Date	Formation	Top (Ft)	Bottom (Ft)	BH Temp (°F)	CL ppm	H2S ppm	Shut-in 1 (PSIG)	Shut-in 2 (PSIG)
Drill Pipe Recovery								
Sample Chamber Recovery								

Well Specific Stimulations

Date Stimulated 12/21/2014	Stimulated Formation Bakken	Top (Ft) 9582	Bottom (Ft) 18260	Stimulation Stages 43	Volume 6828452	Volume Units Gallons
Type Treatment Sand Frac	Acid % 7.5	Lbs Proppant 9080590	Maximum Treatment Pressure (PSI) 8342		Maximum Treatment Rate (BBLS/Min) 59.4	
Details Treated fracture with 6,828,452 gallons of xl gel, 7.5% HCl and freshwater; 6,920,812 lbs of 100 mesh and 2,159,778 lbs of 40/70 sand.						

Date Stimulated	Stimulated Formation	Top (Ft)	Bottom (Ft)	Stimulation Stages	Volume	Volume Units
Type Treatment	Acid %	Lbs Proppant	Maximum Treatment Pressure (PSI)		Maximum Treatment Rate (BBLS/Min)	
Details						

Date Stimulated	Stimulated Formation	Top (Ft)	Bottom (Ft)	Stimulation Stages	Volume	Volume Units
Type Treatment	Acid %	Lbs Proppant	Maximum Treatment Pressure (PSI)		Maximum Treatment Rate (BBLS/Min)	
Details						

Date Stimulated	Stimulated Formation	Top (Ft)	Bottom (Ft)	Stimulation Stages	Volume	Volume Units
Type Treatment	Acid %	Lbs Proppant	Maximum Treatment Pressure (PSI)		Maximum Treatment Rate (BBLS/Min)	
Details						

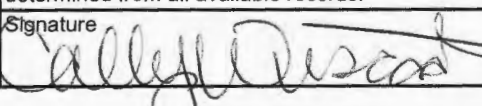
Date Stimulated	Stimulated Formation	Top (Ft)	Bottom (Ft)	Stimulation Stages	Volume	Volume Units
Type Treatment	Acid %	Lbs Proppant	Maximum Treatment Pressure (PSI)		Maximum Treatment Rate (BBLS/Min)	
Details						

ADDITIONAL INFORMATION AND/OR LIST OF ATTACHMENTS

Drilled well to 15,143' MD, MWD failed. Placed a whipstock at 11,408' MD to sidetrack the well.

REVISED: Production, Perforation and Well Specific Stimulations.

Attachments emailed to digitallogs@nd.gov; CBL, Mudlogs: Horizontal and Vertical in (las) and (Tif) forming, geological report; Certified survey attached and emailed to certsurvey@nd.gov.

I hereby swear or affirm that the information provided is true, complete and correct as determined from all available records.	Email Address cally_wescoat@eogresources.com	Date 02/09/2015
	Signature 	Printed Name Cally Wescoat

**WELL COMPLETION OR RECOMPLETION REPORT - FORM 6**

INDUSTRIAL COMMISSION OF NORTH DAKOTA
OIL AND GAS DIVISION
600 EAST BOULEVARD DEPT 405
BISMARCK, ND 58505-0840
SFN 2468 (04-2010)



File No.
28525

PLEASE READ INSTRUCTIONS BEFORE FILLING OUT FORM.
PLEASE SUBMIT THE ORIGINAL AND ONE COPY.

Designate Type of Completion			
<input checked="" type="checkbox"/> Oil Well	<input type="checkbox"/> EOR Well	<input type="checkbox"/> Recompletion	<input type="checkbox"/> Deepened Well
<input type="checkbox"/> Gas Well	<input type="checkbox"/> SWD Well	<input type="checkbox"/> Water Supply Well	<input type="checkbox"/> Other:
Well Name and Number Parshall 58-1608H		Spacing Unit Description Sections 8, 16 & 17 T152N R90W	
Operator EOG Resources, Inc.		Telephone Number (303) 262-9973	
Address 600 17th Street, Suite 1000N		Field parshall	
City Denver		Pool Bakken	
State CO		Zip Code 80202	
Permit Type <input type="checkbox"/> Wildcat <input checked="" type="checkbox"/> Development <input type="checkbox"/> Extension			

LOCATION OF WELL

At Surface 420 F S L	1600 F WL	Qtr-Qtr SESW	Section 16	Township 152 N	Range 90 W	County Mountrail
Spud Date July 20, 2014	Date TD Reached October 19, 2014	Drilling Contractor and Rig Number H&P #454		KB Elevation (Ft) 1983	Graded Elevation (Ft) 1957	
Type of Electric and Other Logs Run (See Instructions) CBL/GR; MWD/GR						

CASING & TUBULARS RECORD (Report all strings set in well)

Well Bore	Type	String Size (Inch)	Top Set (MD Ft)	Depth Set (MD Ft)	Hole Size (Inch)	Weight (Lbs/Ft)	Anchor Set (MD Ft)	Packer Set (MD Ft)	Sacks Cement	Top of Cement
Surface Hole	Surface	9-5/8	0	1970	13.5	36			680	0
Vertical Hole	Intermediate	7-0	0	9557	8.75	26, 32			920	4037
Lateral1	Production	4-1/2	8859	18294	6.0	11.6			830	8837

PERFORATION & OPEN HOLE INTERVALS

Well Bore	Well Bore TD Drillers Depth (MD Ft)	Completion Type	Open Hole/Perforated Interval (MD,Ft) Top Bottom	Kick-off Point (MD Ft)	Top of Casing Window (MD Ft)	Date Perf'd or Drilled	Date Isolated	Isolation Method	Sacks Cement
Lateral1	18298	Perforations		8837					

PRODUCTION

Current Producing Open Hole or Perforated Interval(s), This Completion, Top and Bottom, (MD Ft)						Name of Zone (If Different from Pool Name)				
Date Well Completed (SEE INSTRUCTIONS)			Producing Method Flowing		Pumping-Size & Type of Pump			Well Status (Producing or Shut-In)		
Date of Test	Hours Tested	Choke Size /64	Production for Test		Oil (Bbls)	Gas (MCF)	Water (Bbls)	Oil Gravity-API (Corr.)	Disposition of Gas	
Flowing Tubing Pressure (PSI)		Flowing Casing Pressure (PSI)		Calculated 24-Hour Rate	Oil (Bbls)	Gas (MCF)	Water (Bbls)	Gas-Oil Ratio		

GEOLOGICAL MARKERS

Formation	MD (Ft)	TVD (Ft)
Pierre Shale		1694
Greenhorn		3950
Dakota Sandstone		4650
Base Dakota		4936
Piper Lime		5747
Piper Dunham Salt		5981
Spearfish		6061
Opeche		6406
Minnelusa		6480
Tyler		6767
Kibbey		7100
Kibbey Lime		7211
Charles		7394
Base Last Salt		7777
Mission Canyon		7925
Lodgepole		8530
Lower WW		8825
Upper Viriden		8905
Lower Viriden		8990
1st Shale		9107
2nd Shale		9224
3rd Shale		9243
False Bakken		9265
Scallion		9272
Upper Bakken Shale		9285
Middle Bakken		9302

PLUG BACK INFORMATION

[illegible]

CORES CUT

Top (Ft)	Bottom (Ft)	Formation	Top (Ft)	Bottom (Ft)	Formation

Drill Stem Test

Test Date	Formation	Top (Ft)	Bottom (Ft)	BH Temp (°F)	CL ppm	H2S ppm	Shut-in 1 (PSIG)	Shut-in 2 (PSIG)
Drill Pipe Recovery								
Sample Chamber Recovery								
Test Date	Formation	Top (Ft)	Bottom (Ft)	BH Temp (°F)	CL ppm	H2S ppm	Shut-in 1 (PSIG)	Shut-in 2 (PSIG)
Drill Pipe Recovery								
Sample Chamber Recovery								
Test Date	Formation	Top (Ft)	Bottom (Ft)	BH Temp (°F)	CL ppm	H2S ppm	Shut-in 1 (PSIG)	Shut-in 2 (PSIG)
Drill Pipe Recovery								
Sample Chamber Recovery								
Test Date	Formation	Top (Ft)	Bottom (Ft)	BH Temp (°F)	CL ppm	H2S ppm	Shut-in 1 (PSIG)	Shut-in 2 (PSIG)
Drill Pipe Recovery								
Sample Chamber Recovery								
Test Date	Formation	Top (Ft)	Bottom (Ft)	BH Temp (°F)	CL ppm	H2S ppm	Shut-in 1 (PSIG)	Shut-in 2 (PSIG)
Drill Pipe Recovery								
Sample Chamber Recovery								
Test Date	Formation	Top (Ft)	Bottom (Ft)	BH Temp (°F)	CL ppm	H2S ppm	Shut-in 1 (PSIG)	Shut-in 2 (PSIG)
Drill Pipe Recovery								
Sample Chamber Recovery								

Well Specific Stimulations

Date Stimulated	Stimulated Formation	Top (Ft)	Bottom (Ft)	Stimulation Stages	Volume	Volume Units
Type Treatment	Acid %	Lbs Proppant	Maximum Treatment Pressure (PSI)		Maximum Treatment Rate (BBLS/Min)	
Details						

Date Stimulated	Stimulated Formation	Top (Ft)	Bottom (Ft)	Stimulation Stages	Volume	Volume Units
Type Treatment	Acid %	Lbs Proppant	Maximum Treatment Pressure (PSI)		Maximum Treatment Rate (BBLS/Min)	
Details						

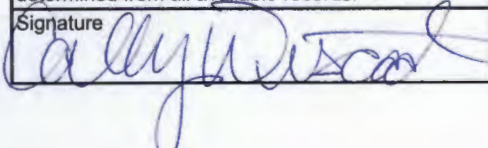
Date Stimulated	Stimulated Formation	Top (Ft)	Bottom (Ft)	Stimulation Stages	Volume	Volume Units
Type Treatment	Acid %	Lbs Proppant	Maximum Treatment Pressure (PSI)		Maximum Treatment Rate (BBLS/Min)	
Details						

Date Stimulated	Stimulated Formation	Top (Ft)	Bottom (Ft)	Stimulation Stages	Volume	Volume Units
Type Treatment	Acid %	Lbs Proppant	Maximum Treatment Pressure (PSI)		Maximum Treatment Rate (BBLS/Min)	
Details						

Date Stimulated	Stimulated Formation	Top (Ft)	Bottom (Ft)	Stimulation Stages	Volume	Volume Units
Type Treatment	Acid %	Lbs Proppant	Maximum Treatment Pressure (PSI)		Maximum Treatment Rate (BBLS/Min)	
Details						

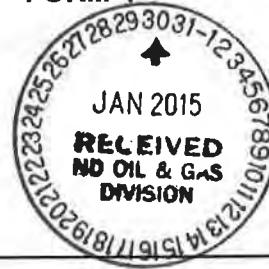
ADDITIONAL INFORMATION AND/OR LIST OF ATTACHMENTS

Attachments emailed to digitallogs@nd.gov; CBL, Mudlogs: Horizontal and Vertical in (las) and (Tif) formatting, geological report; Certified survey attached and emailed to certsurvey@nd.gov.

I hereby swear or affirm that the information provided is true, complete and correct as determined from all available records.	Email Address	Date
	cally_wescoat@eogresources.com	12/15/2014
Signature 	Printed Name Cally Wescoat	Title Sr. Regulatory Assistant

**SUNDRY NOTICES AND REPORTS ON WELLS - FORM 4**

INDUSTRIAL COMMISSION OF NORTH DAKOTA
OIL AND GAS DIVISION
600 EAST BOULEVARD DEPT 405
BISMARCK, ND 58505-0840
SFN 5749 (09-2006)



Well File No.
28525

PLEASE READ INSTRUCTIONS BEFORE FILLING OUT FORM.
PLEASE SUBMIT THE ORIGINAL AND ONE COPY.

<input type="checkbox"/> Notice of Intent	Approximate Start Date	<input type="checkbox"/> Drilling Prognosis	<input type="checkbox"/> Spill Report
<input checked="" type="checkbox"/> Report of Work Done	Date Work Completed January 29, 2015	<input type="checkbox"/> Redrilling or Repair	<input type="checkbox"/> Shooting
<input type="checkbox"/> Notice of Intent to Begin a Workover Project that may Qualify for a Tax Exemption Pursuant to NDCC Section 57-51.1-03.	Approximate Start Date	<input type="checkbox"/> Casing or Liner	<input type="checkbox"/> Acidizing
		<input type="checkbox"/> Plug Well	<input type="checkbox"/> Fracture Treatment
		<input type="checkbox"/> Supplemental History	<input type="checkbox"/> Change Production Method
		<input type="checkbox"/> Temporarily Abandon	<input type="checkbox"/> Reclamation
		<input checked="" type="checkbox"/> Other First Gas Sales	

Well Name and Number Parshall 58-1608H					
Footages 420 F S L 1600 F W L		Qtr-Qtr SESW	Section 16	Township 152 N	Range 90 W
Field Parshall	Pool Bakken	County Mountrail			

24-HOUR PRODUCTION RATE			
Before		After	
Oil	Bbls	Oil	Bbls
Water	Bbls	Water	Bbls
Gas	MCF	Gas	MCF

Name of Contractor(s)			
Address	City	State	Zip Code

DETAILS OF WORK

Gas for the subject well was turned to sales through Pecan Meter No. 70900542 on January 29, 2015 .

Model: ABB X1407072562
Serial No. T141064516
Differential Range: 0-250 Inches
Meter Run Size: 6.065 Inches

Company EOG Resources, Inc.		Telephone Number (303) 262-9973	
Address 600 17th Street, Suite 1000N			
City Denver	State CO	Zip Code 80202	
Signature <i>Cally Wescoat</i>	Printed Name Cally Wescoat		
Title Sr. Regulatory Assistant	Date January 29, 2015		
Email Address Cally_Wescoat@eogresources.com			

FOR STATE USE ONLY	
<input type="checkbox"/> Received	<input checked="" type="checkbox"/> Approved
Date 2-2-2015	
By <i>Daniel John</i>	
Title PETROLEUM ENGINEER	

**SUNDRY NOTICES AND REPORTS ON WELLS - FORM 4**

INDUSTRIAL COMMISSION OF NORTH DAKOTA
OIL AND GAS DIVISION
600 EAST BOULEVARD DEPT 405
BISMARCK, ND 58505-0840
SFN 5749 (09-2006)



Well File No.
28525

PLEASE READ INSTRUCTIONS BEFORE FILLING OUT FORM.
PLEASE SUBMIT THE ORIGINAL AND ONE COPY.

<input type="checkbox"/> Notice of Intent	Approximate Start Date
<input checked="" type="checkbox"/> Report of Work Done	Date Work Completed February 4, 2015
<input type="checkbox"/> Notice of Intent to Begin a Workover Project that may Qualify for a Tax Exemption Pursuant to NDCC Section 57-51.1-03.	Approximate Start Date

<input type="checkbox"/> Drilling Prognosis	<input type="checkbox"/> Spill Report
<input type="checkbox"/> Redrilling or Repair	<input type="checkbox"/> Shooting
<input type="checkbox"/> Casing or Liner	<input type="checkbox"/> Acidizing
<input type="checkbox"/> Plug Well	<input type="checkbox"/> Fracture Treatment
<input type="checkbox"/> Supplemental History	<input type="checkbox"/> Change Production Method
<input type="checkbox"/> Temporarily Abandon	<input type="checkbox"/> Reclamation
<input checked="" type="checkbox"/> Other	Confidential Status Request

Well Name and Number Parshall 58-1608H					
Footages	Qtr-Qtr	Section	Township	Range	
420 F S L 1600 F W L	SESW	16	152 N	90 W	
Field	Pool	County			
Parshall	Bakken	Mountrail			

24-HOUR PRODUCTION RATE			
Before		After	
Oil	Bbls	Oil	Bbls
Water	Bbls	Water	Bbls
Gas	MCF	Gas	MCF

Name of Contractor(s)			
Address	City	State	Zip Code

DETAILS OF WORK

EOG Resources, Inc requests that all information furnished to the Director regarding the referenced well be kept confidential for six (6) months.

Date of first production **February 4, 2015.**

OFF CONFIDENTIAL 8/04/15.

Company EOG Resources, Inc.		Telephone Number (303) 262-9973	
Address 600 17th Street, Suite 1000N			
City Denver	State CO	Zip Code 80202	
Signature <i>Cally Wescoat</i>	Printed Name Cally Wescoat		
Title Sr. Regulatory Assistant	Date February 9, 2015		
Email Address Cally_Wescoat@eogresources.com			

FOR STATE USE ONLY	
<input type="checkbox"/> Received	<input checked="" type="checkbox"/> Approved
Date 2/12/15	
By <i>Allen D. Wehler</i>	
Title Engineering Technician	

EOG Resources, Inc.

Parshall 58-1608H

Section 16 – T152N – R90W

Mountrail County, North Dakota

Prepared By: Joshua Wold
Dobrovolny Geological Consulting
2504 Belmont Road
Grand Forks, ND 58201

For: EOG Resources
Suite 1100N
600 17th Street
Denver, CO 80202

Well Data

Operator: EOG Resources, Inc.

Well Name: Parshall 58-1608H

API # 33-061-03155

Surface Location: Sect. 16, T152N, R90W
420' FSL, 1600' FWL
Mountrail County, North Dakota

Elevation: Kelly Bushing: 1983'
Ground: 1957'

Target Zone: Middle Bakken Dolomite

Spud Date: September 26, 2014

Cease Drilling: October 12, 2014

Total Depth: 18298' MD 9400.10' TVD

Contractor: H & P Drilling Rig # 454

Company Representative: Gregg Stamper & Larry Keith / John Duncan

Company Engineer: Jim Binegar

Company Geologist: Liam Kaltenback, Tony Rios, & Bob Masitti

Mud Company: Mi SWACO

Mud Type: Fresh Water to 2012' MD
Invert from 2012' MD to 9559' MD
Fresh Water from 9559' MD to 18298' MD

Well Data

Directional Company: Scientific Drilling

MWD Company: Scientific Drilling

Mudlogging Company: Dobrovolny Geological Consulting

Mudlogging Services: Dobrovolny Geological Consulting

Wellsite Gas Monitoring: PASON Systems

Wellsite Geologist: Joshua Wold

Sample Intervals: Pre-Charles Vertical: 30'
Vertical and Curve: 30'
Lateral: 50-100'

Well status: TD'd at 18298' MD on October 12, 2014 @ 1824 HRS

Geologic Summary

The PARSHALL 58-1608H was drilled as a vertical and horizontal wellbore, targeting the Middle Member of the Bakken Formation. The surface location of the well is in Section 16, T152N, R90W, of Mountrail County, North Dakota. The vertical whole location was four-hundred, twenty feet (420') from the south section line, and sixteen hundred feet (1600') from the west section line.

Fresh water was used to drill from the surface to 2012' measured depth in the vertical hole. Invert mud was used to drill from 2012' measured depth until we set casing at 9559' MD. Fresh water was used to drill the horizontal hole from 9559' MD until TD at 18298' MD.

Well site geological supervision began September 28, 2014. Logging began above the Charles formation at a measured depth of 7680'. Joshua Wold & Brad Hill logged vertical and horizontal hole. Thirty foot-lagged samples were caught during the curve portion of the well, increasing to one-hundred foot lagged samples during the horizontal portion of the well. The Parshall 151-1608H, Parshall 75-2127H and the Hovda 1-08H were used as correlates in steering the curve.

The 3rd Shale Marker and False Bakken member of the Lodgepole formation appear to be relatively reliable markers for isopach thickness to target. The Upper Bakken shale came in at 9285.14' true vertical depth. The Middle Bakken dolomite came in at 9302.61' true vertical depth.

The Parshall 58-1608H lateral was drilled until we reached 15143' MD. At this point, a correction to our well plan was made, and it was decided to pull back to a depth of 11392' MD. Once we completed our sidetrack, the Parshall 58-1608H lateral was drilled without further incident.

The PARSHALL 58-1608H reached a total measured depth of 18298' (feet) on October 12, 2014, 16 days after spud.

Formation Tops Logged by Onsite Loggers

KB – 1983.0' ft.

**** (PLEASE NOTE TVD DEPTHS HAVE BEEN ROUNDED TO THE NEAREST
WHOLE NUMBER) ****

<u>Formation</u>	<u>Log Top (TVD)</u>	<u>Subsea</u>
Base of Last Salt	7754 '	-5771
Mission Canyon	7925 '	-5942
Lodgepole	8529 '	-6547
3rd Shale Marker	9243 '	-7260
False Bakken	9265 '	-7282
Scallion	9272 '	-7289
Upper Shale	9285 '	-7302
Middle Bakken	9303 '	-7320

Sample Descriptions

Straight Hole and Horizontal Hole

Begin Logging [7680' MD, 7678.72 TVD, -30.03 VS, (-5696') SS]

7680-7710 Limestone: light-medium brown, tan, cryptocrystalline, subangular-subrounded medium grained, slightly firm-firm, slightly argillaceous, slightly calcareous, slightly carbonaceous, tracely anhydritic

7710-7740 Salt: clear-white, hard, very firm, crystalline. Scattered black and red shale from uphole. Trace Limestone: light brown, some medium brown-trace tan, cryptocrystalline, subangular-subrounded fine-medium grained, slightly firm-firm, slightly argillaceous, slightly calcareous, slightly carbonaceous

7740-7770 Limestone: light-medium brown, some tan, cryptocrystalline, subangular-subrounded fine-medium grained, slightly-moderately firm, some very firm, slightly argillaceous, slightly calcareous, slightly carbonaceous, slightly anhydritic

7770-7800 Limestone: light brown, some scattered medium brown, tan, cryptocrystalline, subangular-subrounded fine-medium grained, slightly-moderately firm, some very firm, slightly argillaceous, slightly-moderately calcareous, slightly carbonaceous, slightly anhydritic

7800-7830 Limestone: light-medium brown, tan, cryptocrystalline, subangular-subrounded medium grained, slightly firm-firm, slightly argillaceous, slightly calcareous, slightly carbonaceous, tracely anhydritic

7830-7860 Limestone: light brown, some scattered medium brown-tan, cryptocrystalline, subangular to subrounded medium grained, slightly firm-firm, slightly argillaceous, slightly calcareous, slightly carbonaceous, tracely anhydritic

7860-7890 Limestone: light-medium brown, tan, cryptocrystalline, subangular-subrounded medium grained, slightly firm-firm, slightly argillaceous, slightly calcareous, slightly carbonaceous, tracely anhydritic

7890-7920 Limestone: light-medium brown, tan, cryptocrystalline, subangular-subrounded medium grained, slightly firm-firm, slightly argillaceous, slightly calcareous, slightly carbonaceous, tracely anhydritic

7920-7950 Limestone: light brown, some scattered medium brown-tan, cryptocrystalline, subangular to subrounded medium grained, slightly firm-firm, slightly argillaceous, slightly calcareous, slightly carbonaceous, tracely anhydritic

7950-7980 Limestone: light-medium brown, some scattered tan, cryptocrystalline, subangular to subrounded medium grained, slightly firm-firm, slightly argillaceous, slightly calcareous, slightly carbonaceous, tracely anhydritic

7980-8010 Limestone: light-medium brown, some scattered tan, white-cream anhydrite banding, cryptocrystalline, subangular to subrounded, fine-medium grained, slightly firm-firm, slightly argillaceous, slightly calcareous, slightly carbonaceous, moderately-very anhydritic

8010-8040 Limestone: light-medium brown, some scattered tan, abundant cream anhydrite banding, cryptocrystalline, subangular to subrounded, fine-medium grained, slightly firm-firm, slightly argillaceous, slightly calcareous, slightly carbonaceous, moderately anhydritic

8040-8070 Limestone: light-medium brown, some scattered tan, some cream anhydrite banding, cryptocrystalline, subangular to subrounded, fine-medium grained, slightly firm-firm, slightly argillaceous, slightly calcareous, slightly carbonaceous, moderately anhydritic

8070-8100 Limestone: light-medium brown, some scattered tan, some trace cream anhydrite banding, cryptocrystalline, subangular to subrounded, fine-medium grained, slightly firm-firm, slightly argillaceous, slightly calcareous, slightly carbonaceous, slightly-moderately anhydritic

8100-8130 Limestone: light brown, medium brown, some scattered tan, some trace cream anhydrite banding, cryptocrystalline, subangular to subrounded, fine-medium grained, slightly firm-firm, slightly argillaceous, slightly calcareous, slightly carbonaceous, slightly anhydritic

8130-8160 Limestone: light and medium brown, some scattered tan, some trace cream anhydrite banding, cryptocrystalline, subangular to subrounded, fine-medium grained, moderately firm-firm, slightly argillaceous, slightly calcareous, slightly carbonaceous, slightly anhydritic

8160-8190 Limestone: light and medium brown, some scattered tan, trace cream anhydrite banding, cryptocrystalline, subangular to subrounded, fine-medium grained, moderately firm-firm, slightly argillaceous, slightly calcareous, slightly carbonaceous, tracely anhydritic

8190-8220 Limestone: light-medium brown, medium gray, some scattered tan, cryptocrystalline, subangular to subrounded, fine-medium grained, moderately firm-firm, slightly argillaceous, slightly calcareous, slightly carbonaceous, tracely anhydritic

8220-8250 Limestone: light-medium brown, medium-dark gray, some scattered tan, cryptocrystalline, subangular to subrounded, fine-medium grained, slightly firm-firm, slightly argillaceous, slightly calcareous, slightly carbonaceous, tracely anhydritic

8250-8280 Limestone: light-medium brown, medium-dark gray, some scattered tan, cryptocrystalline, subangular-subrounded, fine-medium grained, slightly firm-firm, slightly argillaceous, slightly calcareous, slightly carbonaceous, very tracely anhydritic

8280-8310 Limestone: medium brown, medium-dark gray, some scattered tan, cryptocrystalline, subangular to subrounded, fine-medium grained, slightly firm-firm, slightly argillaceous, slightly calcareous, slightly carbonaceous, very tracely anhydritic

8310-8340 Limestone: light-medium brown, tan, light and medium gray, some white-cream anhydritic banding, cryptocrystalline, slightly firm-firm, subangular-subrounded, fine-medium grained, slightly-moderately argillaceous, slightly-moderately calcareous, slightly carbonaceous, slightly anhydritic

8340-8370 Limestone: light brown, medium brown, tan, light and medium gray, some white-cream anhydritic banding, cryptocrystalline, slightly firm-firm, subangular-subrounded, fine-medium grained, slightly-moderately argillaceous, slightly-moderately calcareous, slightly carbonaceous, slightly anhydritic

8370-8400 Limestone: light brown, medium brown, tan, light-medium gray, some white-cream anhydritic banding, cryptocrystalline, slightly firm-firm, subangular-subrounded, fine to medium

grained, slightly-moderately argillaceous, slightly-moderately calcareous, slightly carbonaceous, slightly anhydritic

8400-8430 Limestone: light brown, medium brown, tan, light and medium gray, some trace white-cream anhydritic banding, cryptocrystalline, moderately firm to firm, subangular to subrounded, fine-medium grained, slightly-moderately argillaceous, slightly-moderately calcareous, slightly carbonaceous, slightly anhydritic

8430-8460 Limestone: light brown, medium brown, tan, light and medium gray, some trace white-cream anhydritic banding, cryptocrystalline, moderately firm-firm, subangular to subrounded, fine-medium grained, slightly-moderately argillaceous, slightly-moderately calcareous, slightly carbonaceous, slightly anhydritic

8460-8490 Limestone: light brown, medium brown, tan, scattered light and medium gray, cryptocrystalline, subangular to subrounded, fine to medium grained, slightly firm-firm, slightly argillaceous, slightly-moderately calcareous, slightly chalky, earthy

8490-8520 Limestone: light-medium brown, tan, scattered light and medium gray, cryptocrystalline, subangular to subrounded, fine to medium grained, slightly firm-firm, slightly argillaceous, slightly-moderately calcareous, slightly chalky, earthy

8520-8550 Limestone: light-medium brown, some tan, scattered light-medium graybrown, cryptocrystalline, subangular to subrounded, fine to medium grained, slightly firm to firm, slightly argillaceous, slightly to moderately calcareous, slightly chalky, earthy

8550-8580 Limestone: medium brown, some tan, scattered light-medium graybrown, cryptocrystalline, subangular to subrounded, fine to medium grained, slightly firm to firm, slightly argillaceous, slightly to moderately calcareous, slightly chalky, earthy

8580-8610 Limestone: medium brown, some light brown and tan, trace scattered light-medium graybrown, cryptocrystalline, subangular to subrounded, medium grained, slightly firm to firm, slightly argillaceous, slightly to moderately calcareous, slightly chalky, earthy

8610-8640 Limestone: medium brown, light brown and tan, some light-medium graybrown, cryptocrystalline, subangular to subrounded, medium grained, slightly firm-firm, slightly argillaceous, slightly to moderately calcareous, slightly chalky, earthy

8640-8670 Limestone: medium brown, light brown and tan, some light-medium graybrown, cryptocrystalline, subangular to subrounded, medium grained, slightly firm-firm, slightly argillaceous, slightly to moderately calcareous, slightly chalky, earthy

8670-8700 Limestone: light-medium brown, some tan, some light graybrown, cryptocrystalline, subangular-subrounded, medium grained, slightly firm-firm, slightly argillaceous, slightly-moderately calcareous, slightly chalky, earthy

8700-8730 Limestone: medium brown, some light brown and tan, trace scattered light-medium graybrown, cryptocrystalline, subangular to subrounded, medium grained, slightly firm to firm, slightly argillaceous, slightly to moderately calcareous, slightly chalky, earthy

8730-8760 Limestone: light-medium brown, tan, scattered light and medium gray, cryptocrystalline, subangular to subrounded, fine to medium grained, slightly firm-firm, slightly

argillaceous, slightly-moderately calcareous, slightly chalky, earthy

8760-8790 Limestone: light-medium brown, tan, scattered light-medium graybrown, cryptocrystalline, subangular to subrounded, fine to medium grained, slightly firm to firm, slightly argillaceous, slightly to moderately calcareous, slightly chalky, earthy

8790-8820 Limestone: light-medium brown, tan, scattered light-medium graybrown, cryptocrystalline, subangular to subrounded, fine to medium grained, slightly firm to firm, slightly argillaceous, slightly to moderately calcareous, slightly chalky, earthy

8820-8850 Limestone: light brown, medium brown, tan, scattered light-medium graybrown, cryptocrystalline, subangular to subrounded, fine to medium grained, slightly firm to firm, slightly argillaceous, slightly to moderately calcareous, slightly chalky, earthy

8850-8880 Limestone: light brown, medium brown, tan, scattered medium graybrown, cryptocrystalline, subangular to subrounded, fine to medium grained, slightly firm to firm, slightly argillaceous, slightly calcareous, slightly chalky, earthy

8880-8910 Limestone: medium brown, tan, scattered medium graybrown, cryptocrystalline, subangular to subrounded, fine to medium grained, slightly firm to firm, slightly argillaceous, slightly calcareous, slightly chalky, earthy

8910-8940 Limestone: medium brown, tan, some scattered medium graybrown, cryptocrystalline, subangular to subrounded, fine to medium grained, slightly firm-firm, slightly argillaceous, slightly calcareous, slightly chalky, earthy

8940-8970 Limestone: medium brown, gray-tan, some scattered medium graybrown, cryptocrystalline, subangular to subrounded, fine to medium grained, slightly firm-firm, slightly argillaceous, slightly calcareous, slightly chalky, earthy

8970-9000 Limestone: medium brown, dark brown, some gray tan, trace light gray, very fine crystalline, subangular to subrounded, medium grained, slightly firm, slightly-moderately argillaceous, slightly calcareous, slightly carbonaceous, chalky, silty, earthy

9000-9030 Limestone: medium-dark brown, some gray tan, trace light gray, very fine crystalline, subangular to subrounded, medium grained, slightly firm, slightly-moderately argillaceous, slightly calcareous, slightly carbonaceous, chalky, silty, earthy

9030-9060 Limestone: medium-dark brown, gray tan, trace light gray, very fine crystalline, subangular to subrounded, medium grained, slightly firm, moderately argillaceous, slightly calcareous, slightly carbonaceous, slightly chalky, silty, earthy

9060-9090 Limestone: medium-dark brown, some grayish tan, trace light gray, very fine crystalline, subangular to subrounded, medium grained, slightly firm, moderately argillaceous, slightly calcareous, slightly carbonaceous, slightly chalky, silty, earthy

9090-9120 Limestone: medium-dark brown, some grayish tan, trace light gray, very fine crystalline, subangular to subrounded, medium grained, slightly firm, moderately argillaceous, slightly calcareous, slightly carbonaceous, slightly chalky, silty, earthy

9120-9150 Limestone: medium brown, some dark brown, some grayish tan, trace light gray, very fine crystalline, subangular-subrounded, medium grained, slightly firm, moderately argillaceous, slightly calcareous, slightly carbonaceous, slightly chalky, silty, earthy

9150-9180 Limestone: light gray, some scattered trace medium gray, medium brown, some darker brown, trace light grayish brown-gray tan, slightly firm-firm, cryptocrystalline, subangular-subrounded, medium grained, slightly-moderately argillaceous, moderately calcareous, slightly carbonaceous, slightly chalky, slightly silty, earthy

9180-9210 Limestone: light-medium gray, some light-medium brown, some darker brown, some graybrown, slightly firm-firm, cryptocrystalline, subangular-subrounded, medium grained, slightly-moderately argillaceous, moderately calcareous, slightly carbonaceous, slightly chalky, slightly silty, earthy

9210-9240 Limestone: light-medium gray, some light-medium brown, some darker brown, some graybrown, slightly firm-firm, cryptocrystalline, subangular-subrounded, medium grained, slightly-moderately argillaceous, moderately calcareous, slightly carbonaceous, slightly chalky, slightly silty, earthy

9240-9270 Limestone: light gray, some medium gray, trace light brown-graybrown, slightly firm-firm, cryptocrystalline, subangular to subrounded, medium grained, slightly-moderately argillaceous, slightly calcareous, slightly carbonaceous, slightly chalky, silty, earthy

9270-9300 Limestone: graybrown to light gray, some trace medium gray, trace light brown, slightly firm-firm, cryptocrystalline, subangular-subrounded, medium grained, slightly-moderately argillaceous, slightly calcareous, slightly carbonaceous, slightly chalky, silty, earthy

9300-9330 Limestone: light gray, some medium gray, trace light brown-graybrown, slightly firm-firm, cryptocrystalline, subangular to subrounded, medium grained, slightly argillaceous, slightly calcareous, slightly carbonaceous, slightly chalky, silty, earthy

9330-9360 Limestone: medium-dark gray, some light gray, some graybrown, trace light brown, slightly firm-firm, cryptocrystalline, subangular to subrounded, medium grained, slightly argillaceous, slightly calcareous, slightly carbonaceous, slightly chalky, silty, earthy

9360-9390 Limestone: light gray, some graybrown, trace light brown, slightly firm-firm, cryptocrystalline, subangular to subrounded, medium grained, slightly argillaceous, slightly calcareous, slightly carbonaceous, slightly chalky, silty, earthy

9390-9420 Limestone: medium-dark gray, some light gray, some graybrown, trace light brown, slightly firm-firm, cryptocrystalline, subangular to subrounded, medium grained, slightly-moderately argillaceous, slightly calcareous, slightly carbonaceous, slightly chalky, silty, earthy

9420-9450 Limestone: graybrown, some scattered light gray, some light brown, slightly firm-firm, cryptocrystalline, subangular-subrounded, medium grained, slightly argillaceous, slightly calcareous, slightly carbonaceous, chalky, silty, earthy. Very trace Shale: black, hard, cryptocrystalline, sooty, waxy, very tracely pyritic

9450-9480 Shale: black, hard, cryptocrystalline, sooty, waxy, very tracely pyritic

9480-9510 Shale: black, hard, cryptocrystalline, sooty, waxy, very tracely pyritic

9510-9540 Dolomite: medium-dark gray, some graybrown, very fine crystalline, slightly firm-firm, moderately argillaceous, slightly calcareous, slightly carbonaceous, very fine grained, trace scattered bright yellow-green fluorescence, light-medium gray spotty oil stain, fast, bright blue-white cut. Shale: black, hard, cryptocrystalline, sooty, waxy, very tracely pyritic

9540-9559 (bottoms up) Dolomite: medium-dark gray, some graybrown, very fine crystalline, slightly firm-firm, moderately argillaceous, slightly-moderately calcareous, slightly carbonaceous, very fine grained, trace scattered bright yellow-green fluorescence, light-medium gray spotty oil stain, fast, bright blue-white cut. Some trace Shale: black, firm-very firm, some hard, cryptocrystalline, sooty, waxy, very tracely pyritic

9559-9570 Dolomite: medium-dark gray, some graybrown, very fine crystalline, slightly firm-firm, moderately argillaceous, slightly calcareous, slightly carbonaceous, very fine grained, trace scattered bright yellow-green fluorescence, light-medium gray spotty oil stain, fast, bright blue-white cut

9570-9600 Dolomite: medium gray, some dark gray, trace graybrown, very fine crystalline, slightly firm-firm, moderately-very argillaceous, slightly calcareous, slightly carbonaceous, very fine grained, trace scattered bright yellow-green fluorescence, light-medium gray spotty oil stain, fast, bright blue-white cut

9600-9700 Dolomite: light gray, medium gray, some white-cream and tan, trace graybrown, very fine crystalline, slightly firm-firm, moderately-very argillaceous, slightly calcareous, slightly carbonaceous, fine-very fine grained, trace scattered bright yellow-green fluorescence, light-medium gray spotty oil stain, fast, bright blue-white cut

9700-9800 Dolomite: light-medium graybrown, some white-cream and tan, scattered medium gray, very fine crystalline, moderately firm-firm, moderately argillaceous, slightly calcareous, slightly carbonaceous, fine-very fine grained, trace scattered bright yellow-green fluorescence, light-medium gray spotty oil stain, fast, bright blue-white cut

9800-9900 Dolomite: light graybrown, medium graybrown, some white-cream and tan, scattered medium gray, very fine crystalline, moderately firm-firm, moderately argillaceous, slightly calcareous, slightly carbonaceous, fine-very fine grained, trace scattered bright yellow-green fluorescence, light-medium gray spotty oil stain, fast, bright blue-white cut

9900-10000 Dolomite: light graybrown, medium graybrown, some brownish tan, scattered medium gray, very fine crystalline, moderately firm-firm, slightly-moderately argillaceous, slightly calcareous, slightly-moderately carbonaceous, fine-very fine grained, trace scattered bright yellow-green fluorescence, light-medium gray spotty oil stain, fast, bright blue-white cut

10000-10100 Dolomite: light graybrown, medium graybrown, some brownish tan, trace scattered medium gray, very fine crystalline, moderately firm-firm, slightly argillaceous, slightly-moderately calcareous, moderately carbonaceous, fine-very fine grained, abundant scattered bright yellow-green fluorescence, light-medium gray spotty oil stain, fast, bright blue-white cut

10100-10200 Dolomite: light-medium graybrown, some brownish tan, trace scattered medium gray, very fine crystalline, moderately firm-firm, slightly argillaceous, slightly-moderately calcareous, moderately carbonaceous, fine-very fine grained, abundant scattered bright yellow-green fluorescence, light-medium gray spotty oil stain, fast, bright blue-white cut

10200-10300 Dolomite: medium graybrown, brownish tan, some trace scattered medium gray, very fine crystalline, moderately firm-firm, slightly argillaceous, slightly-moderately calcareous, moderately carbonaceous, fine-very fine grained, abundant scattered bright yellow-green fluorescence, light-medium gray spotty oil stain, fast, bright blue-white cut

10300-10400 Dolomite: graybrown, some light brown to brownish tan, some trace scattered light gray, very fine crystalline, slightly firm, some moderately firm, slightly argillaceous, moderately calcareous, moderately carbonaceous, fine-very fine grained, scattered bright yellow-green fluorescence, light gray spotty oil stain, fast, bright blue-white cut

10400-10500 Dolomite: graybrown-light gray, some light brown-brownish tan, scattered medium gray, very fine crystalline, slightly firm, some moderately firm, slightly argillaceous, moderately calcareous, moderately carbonaceous, fine-very fine grained, scattered bright yellow-green fluorescence, graybrown-light gray spotty oil stain, fast, bright blue-white cut

10500-10600 Dolomite: graybrown to light gray, some light brown-brownish tan, scattered medium gray, very fine crystalline, slightly firm, some moderately firm, slightly argillaceous, moderately calcareous, moderately carbonaceous, fine-very fine grained, scattered bright yellow-green fluorescence, graybrown-light gray spotty oil stain, fast, bright blue-white cut

10600-10700 Dolomite: graybrown-light gray, some light brown-brownish tan, scattered medium gray, very fine crystalline, slightly firm, some moderately firm, slightly argillaceous, moderately calcareous, moderately carbonaceous, fine-very fine grained, scattered bright yellow-green fluorescence, graybrown-light gray spotty oil stain, fast, bright blue-white cut

10700-10800 Dolomite: graybrown-light gray, light brown-brownish tan, scattered medium gray, very fine crystalline, slightly firm, some moderately firm, slightly argillaceous, moderately calcareous, moderately carbonaceous, fine-very fine grained, scattered bright yellow-green fluorescence, graybrown-light gray spotty oil stain, fast, bright blue-white cut

10800-10900 Dolomite: graybrown-light gray, light brown, scattered tan, very fine crystalline, slightly firm, some moderately firm, slightly argillaceous, slightly-moderately calcareous, moderately carbonaceous, fine-very fine grained, scattered bright yellow-green fluorescence, graybrown-light gray spotty oil stain, fast, bright blue-white cut

10900-11000 Dolomite: graybrown-light gray, light brown, scattered brownish tan-light grayish tan, very fine crystalline, slightly-moderately firm, slightly argillaceous, slightly-moderately calcareous, moderately carbonaceous, fine-very fine grained, bright yellow-green fluorescence, graybrown-light gray spotty oil stain, fast, bright blue-white cut

11000-11100 Dolomite: graybrown-light gray, light brown, scattered brownish tan-light grayish tan, fine-very fine crystalline, slightly-moderately firm, slightly argillaceous, slightly-moderately calcareous, slightly to moderately carbonaceous, fine-very fine grained, bright yellow-green fluorescence, light gray spotty oil stain, fast, bright blue-white cut

11100-11200 Dolomite: graybrown, light gray, some light-medium brown, scattered brownish tan-light grayish tan, fine-very fine crystalline, moderately firm-firm, slightly argillaceous, slightly-moderately calcareous, slightly to moderately carbonaceous, fine-very fine grained, moderately silty, bright yellow-green fluorescence, light gray spotty oil stain, fast, bright blue-white cut

11200-11300 Dolomite: medium brown, light gray, some light-medium graybrown, scattered brownish tan-light grayish tan, fine-very fine crystalline, moderately firm-firm, slightly argillaceous, slightly-moderately calcareous, slightly to moderately carbonaceous, fine-very fine grained, moderately silty, bright yellow-green fluorescence, light gray spotty oil stain, fast, bright blue-white cut

11300-11400 Dolomite: medium brown, light gray, some light-medium graybrown, scattered brownish tan-light grayish tan, fine-very fine crystalline, moderately firm-firm, slightly argillaceous, slightly-moderately calcareous, slightly to moderately carbonaceous, fine-very fine grained, moderately silty, bright yellow-green fluorescence, light gray spotty oil stain, fast, bright blue-white cut

11400-11500 Dolomite: medium brown, light gray, some medium graybrown, scattered brownish tan, fine to very fine crystalline, slightly firm-firm, slightly argillaceous, slightly-moderately calcareous, slightly to moderately carbonaceous, fine-very fine grained, moderately silty, bright yellow-green fluorescence, light gray spotty oil stain, fast, bright blue-white cut

11500-11600 Dolomite: medium brown-medium gray, some medium graybrown, scattered brownish tan, fine to very fine crystalline, slightly firm-moderately firm, slightly argillaceous, slightly-moderately calcareous, slightly to moderately carbonaceous, fine-very fine grained, moderately silty, bright yellow-green fluorescence, light gray spotty oil stain, fast, bright blue-white cut

11600-11700 Dolomite: light-medium brown, medium gray, some medium graybrown, scattered brownish tan, fine to very fine crystalline, slightly-moderately firm, slightly argillaceous, slightly-moderately calcareous, slightly to moderately carbonaceous, fine-very fine grained, moderately-very silty, bright yellow-green fluorescence, light gray spotty oil stain, fast, bright blue-white cut

11700-11800 Dolomite: light-medium brownish gray, light-medium gray, some medium graybrown, scattered brownish tan, fine crystalline, slightly firm-moderately firm, slightly-moderately argillaceous, moderately calcareous, moderately carbonaceous, fine grained, very silty, bright yellow-green fluorescence, light grayish brown spotty oil stain, fast, bright blue-white cut

11800-11900 Dolomite: medium brownish gray, light-medium gray, some medium graybrown, scattered brownish tan, fine crystalline, slightly firm-moderately firm, slightly-moderately argillaceous, moderately calcareous, moderately carbonaceous, fine grained, very silty, bright yellow-green fluorescence, light grayish brown spotty oil stain, fast, bright blue-white cut

11900-12000 Dolomite: medium brownish gray, light and medium gray, some light-medium graybrown, scattered brownish tan, fine crystalline, slightly firm-moderately firm, slightly-moderately argillaceous, moderately calcareous, moderately carbonaceous, fine grained, very silty, bright yellow-green fluorescence, light grayish brown spotty oil stain, fast, bright blue-white cut

12000-12100 Dolomite: light-medium brownish gray, medium gray, some light-medium graybrown, scattered brownish tan, fine crystalline, slightly firm-moderately firm, slightly-moderately argillaceous, moderately calcareous, moderately carbonaceous, fine grained, very silty, bright yellow-green fluorescence, light grayish brown spotty oil stain, fast, bright blue-white cut

12100-12200 Dolomite: light gray, some graybrown, some tracely scattered medium gray, scattered brownish tan, fine crystalline, slightly firm-moderately firm, slightly-moderately argillaceous, slightly-moderately calcareous, moderately carbonaceous, fine grained, moderately-very silty, bright yellow-green fluorescence, light graybrown spotty oil stain, fast, bright blue-white cut

12200-12300 Dolomite: light gray-graybrown, some medium gray, scattered brownish tan, fine-very fine crystalline, slightly firm-moderately firm, slightly-moderately argillaceous, slightly-moderately calcareous, moderately carbonaceous, fine grained, moderately-very silty, bright yellow-green fluorescence, light graybrown spotty oil stain, fast, bright blue-white cut

12300-12400 Dolomite: graybrown-light gray, some scattered medium gray to trace brownish tan, fine-very fine crystalline, slightly firm-moderately firm, slightly argillaceous, slightly-moderately calcareous, moderately carbonaceous, fine grained, moderately-very silty, bright yellow-green fluorescence, light graybrown spotty oil stain, fast, bright blue-white cut

12400-12500 Dolomite: graybrown-light gray, some scattered medium gray to trace brownish tan, fine-very fine crystalline, slightly firm-moderately firm, slightly argillaceous, slightly-moderately calcareous, moderately carbonaceous, fine grained, moderately-very silty, bright yellow-green fluorescence, light graybrown spotty oil stain, fast, bright blue-white cut

12500-12600 Dolomite: graybrown, some scattered light-medium gray, trace brownish tan, fine-very fine crystalline, slightly firm-firm, slightly argillaceous, slightly-moderately calcareous, moderately carbonaceous, fine grained, moderately-very silty, bright yellow-green fluorescence, light graybrown spotty oil stain, fast, bright blue-white cut

12600-12700 Dolomite: graybrown, some scattered light-medium gray, trace brownish tan, fine-very fine crystalline, slightly firm-firm, slightly argillaceous, slightly-moderately calcareous, moderately carbonaceous, fine grained, moderately-very silty, bright yellow-green fluorescence, light graybrown spotty oil stain, fast, bright blue-white cut

12700-12800 Dolomite: medium graybrown, some scattered light-medium gray, trace brownish tan, fine-very fine crystalline, slightly firm-firm, slightly argillaceous, slightly-moderately calcareous, moderately carbonaceous, fine grained, moderately-very silty, bright yellow-green fluorescence, light graybrown spotty oil stain, fast, bright blue-white cut

12800-12900 Dolomite: medium graybrown, some light-medium gray, trace brownish tan, scattered white-cream, fine-very fine crystalline, slightly firm-firm, slightly argillaceous, slightly-moderately calcareous, moderately carbonaceous, fine grained, moderately-very silty, bright yellow-green fluorescence, light graybrown spotty oil stain, fast, bright blue-white cut

12900-13000 Dolomite: light graybrown, medium graybrown, some light-medium gray, trace brownish tan, scattered white-cream, fine-very fine crystalline, slightly firm-firm, slightly argillaceous, slightly-moderately calcareous, moderately carbonaceous, fine grained, moderately-very silty, bright yellow-green fluorescence, light graybrown spotty oil stain, fast, bright blue-white cut

13000-13100 Dolomite: light-medium graybrown, some light-medium gray, trace brown-tan, scattered white-cream, fine-very fine crystalline, slightly firm-firm, slightly argillaceous, slightly-moderately calcareous, moderately carbonaceous, fine grained, moderately silty, bright yellow-green fluorescence, light graybrown spotty oil stain, fast, bright blue-white cut

13100-13200 Dolomite: light-medium graybrown, some light-medium gray, trace brown-tan, scattered white-cream, fine-very fine crystalline, moderately firm-firm, slightly argillaceous, slightly-moderately calcareous, slightly-moderately carbonaceous, fine grained, moderately silty, bright yellow-green fluorescence, light graybrown spotty oil stain, fast, bright blue-white cut

13200-13300 Dolomite: light brownish gray, medium graybrown, some light-medium gray, trace brown-tan, scattered white-cream, fine-very fine crystalline, moderately firm-firm, slightly argillaceous, slightly-moderately calcareous, slightly-moderately carbonaceous, fine grained, moderately silty, bright yellow-green fluorescence, light graybrown spotty oil stain, fast, bright blue-white cut

13300-13400 Dolomite: light brownish gray, medium graybrown, some light-medium gray, trace brown-tan, trace scattered white-cream, fine-very fine crystalline, moderately firm-firm, slightly argillaceous, slightly-moderately calcareous, slightly-moderately carbonaceous, fine grained, moderately silty, bright yellow-green fluorescence, light graybrown spotty oil stain, fast, bright blue-white cut

13400-13500 Dolomite: light to medium brownish gray, light to medium graybrown, some light-medium gray, trace brown-tan, trace scattered white-cream, fine-very fine crystalline, moderately firm-firm, slightly argillaceous, slightly-moderately calcareous, slightly-moderately carbonaceous, fine grained, moderately silty, bright yellow-green fluorescence, light graybrown spotty oil stain, fast, bright blue-white cut

13500-13600 Dolomite: light to medium brownish gray, light to medium graybrown, some light-medium gray, trace brown-tan, trace scattered white-cream, fine-very fine crystalline, moderately firm-firm, slightly argillaceous, slightly-moderately calcareous, slightly-moderately carbonaceous, fine grained, moderately silty, bright yellow-green fluorescence, light graybrown spotty oil stain, fast, bright blue-white cut

13600-13700 Dolomite: light-medium gray, some graybrown, trace brown-tan, trace scattered white-cream, fine-very fine crystalline, moderately firm-firm, slightly argillaceous, slightly-moderately calcareous, slightly-moderately carbonaceous, fine grained, moderately silty, bright yellow-green fluorescence, light graybrown spotty oil stain, fast, bright blue-white streaming cut

13700-13800 Dolomite: light gray-graybrown, some medium gray, trace brown-tan, trace scattered white-cream, fine-very fine crystalline, moderately firm-firm, slightly argillaceous, slightly-moderately calcareous, slightly-moderately carbonaceous, fine grained, moderately silty, bright yellow-green fluorescence, light graybrown spotty oil stain, fast, bright blue-white cut

13800-13900 Dolomite: light-medium graybrown, some light gray, trace brown-tan, trace scattered white-cream, fine-very fine crystalline, moderately firm-firm, slightly argillaceous, slightly-moderately calcareous, slightly-moderately carbonaceous, fine grained, moderately silty, bright yellow-green fluorescence, light graybrown spotty oil stain, fast, bright blue-white streaming cut

13900-14000 Dolomite: graybrown-light gray, trace brown-tan, trace scattered white-cream, fine-very fine crystalline, moderately firm-firm, slightly argillaceous, slightly-moderately calcareous, slightly-moderately carbonaceous, fine grained, moderately silty, bright yellow-green fluorescence, light graybrown spotty oil stain, fast, bright blue-white streaming cut

14000-14100 Dolomite: medium gray, some trace dark gray, scattered light gray to graybrown, fine-very fine crystalline, moderately firm-firm, moderately-very argillaceous, slightly-

moderately calcareous, slightly-moderately carbonaceous, fine grained, moderately silty, bright yellow-green fluorescence, light graybrown spotty oil stain, fast, bright blue-white streaming cut

14100-14200 Dolomite: medium gray, light graybrown, tan, scattered white-cream, trace dark gray, very fine crystalline, moderately firm-firm, slightly-moderately argillaceous, moderately calcareous, slightly carbonaceous, fine-very fine grained, scattered pyrite nodes, slightly silty, bright yellow-green fluorescence, light gray spotty oil stain, fast, bright blue-white cut

14200-14300 Dolomite: light-medium gray, light graybrown, tan, scattered white-cream, trace dark-very dark gray, very fine crystalline, moderately firm-firm, slightly-moderately argillaceous, moderately calcareous, slightly carbonaceous, fine-very fine grained, scattered pyrite nodes, slightly silty, bright yellow-green fluorescence, light gray spotty oil stain, fast, bright blue-white cut

14300-14400 Dolomite: light-medium gray, light graybrown, tan, scattered cream, trace dark-very dark gray, very fine crystalline, moderately firm-firm, slightly-moderately argillaceous, moderately calcareous, slightly carbonaceous, fine-very fine grained, scattered pyrite nodes, slightly silty, bright yellow-green fluorescence, light gray spotty oil stain, fast, bright blue-white cut

14400-14500 Dolomite: light-medium gray, light graybrown, tan, scattered cream, trace dark-very dark gray, very fine crystalline, slightly-moderately firm, slightly-moderately argillaceous, moderately calcareous, slightly carbonaceous, fine-very fine grained, trace scattered pyrite nodes, slightly silty, bright yellow-green fluorescence, light grayish brown spotty oil stain, fast, bright blue-white cut

14500-14600 Dolomite: light-medium gray, light graybrown, tan, scattered cream, trace dark-very dark gray, very fine crystalline, slightly-moderately firm, slightly-moderately argillaceous, moderately calcareous, slightly carbonaceous, fine-very fine grained, trace scattered pyrite nodes, slightly silty, bright yellow-green fluorescence, light grayish brown spotty oil stain, fast, bright blue-white cut

14600-14700 Dolomite: light-medium gray, medium graybrown, brownish tan, scattered cream, trace dark-very dark gray, fine-very fine crystalline, slightly-moderately firm, slightly-moderately argillaceous, moderately calcareous, slightly-moderately carbonaceous, fine-very fine grained, scattered pyrite nodes, slightly silty, bright yellow-green fluorescence, light grayish brown spotty oil stain, fast, bright blue-white cut

14700-14800 Dolomite: light-medium graybrown, light gray, trace brownish tan, trace scattered white-cream, fine-very fine crystalline, moderately firm-firm, slightly argillaceous, slightly-moderately calcareous, slightly-moderately carbonaceous, fine grained, moderately silty, bright yellow-green fluorescence, light graybrown spotty oil stain, fast, bright blue-white streaming cut

14800-14900 Dolomite: light graybrown, medium graybrown, light gray, trace brownish tan, trace scattered white-cream, fine-very fine crystalline, moderately firm-firm, slightly argillaceous, slightly-moderately calcareous, slightly-moderately carbonaceous, fine grained, moderately silty, bright yellow-green fluorescence, light graybrown spotty oil stain, fast, bright blue-white streaming cut

14900-15000 Dolomite: medium graybrown, light gray, some light-medium brown, scattered brownish tan to light grayish tan, fine-very fine crystalline, moderately firm-firm, slightly argillaceous, slightly-moderately calcareous, slightly to moderately carbonaceous, fine-very fine

grained, moderately silty, bright yellow-green fluorescence, light gray spotty oil stain, fast, bright blue-white cut

15000-15100 Dolomite: medium graybrown, light gray, some medium brown, scattered brownish tan, trace dark gray, fine-very fine crystalline, moderately firm-firm, slightly argillaceous, slightly-moderately calcareous, slightly to moderately carbonaceous, fine-very fine grained, moderately silty, bright yellow-green fluorescence, light gray spotty oil stain, fast, bright blue-white cut

15100-15200 Dolomite: medium graybrown, light gray, some medium brown, scattered brownish tan, trace dark gray, fine-very fine crystalline, slightly firm-firm, slightly argillaceous, slightly-moderately calcareous, slightly carbonaceous, fine-very fine grained, moderately-very silty, bright yellow-green fluorescence, light gray spotty oil stain, fast, bright blue-white cut

15200-15300 Dolomite: light-medium graybrown, light gray, some medium brown, scattered brownish tan, trace dark gray, fine-very fine crystalline, slightly firm-firm, slightly argillaceous, slightly-moderately calcareous, slightly carbonaceous, fine-very fine grained, moderately-very silty, bright yellow-green fluorescence, light gray spotty oil stain, fast, bright blue-white cut

15300-15400 Dolomite: light-medium graybrown, light-medium gray, some medium brown-brownish tan, trace scattered darker gray, fine-very fine crystalline, slightly firm-firm, slightly argillaceous, slightly calcareous, slightly carbonaceous, fine-very fine grained, very silty, bright yellow-green fluorescence, light grayish brown spotty oil stain, fast, bright blue-white cut

15400-15500 Dolomite: graybrown, light-medium gray, some medium brown-brownish tan, trace scattered darker gray, fine-very fine crystalline, slightly firm-firm, slightly argillaceous, slightly calcareous, slightly carbonaceous, fine-very fine grained, very silty, bright yellow-green fluorescence, light grayish brown spotty oil stain, fast, bright blue-white streaming cut

15500-15600 Dolomite: light-medium graybrown, light-medium gray, some medium brown-brownish tan, trace scattered darker gray, fine-very fine crystalline, slightly firm-firm, slightly argillaceous, slightly calcareous, slightly carbonaceous, fine-very fine grained, very silty, bright yellow-green fluorescence, light grayish brown spotty oil stain, fast, bright blue-white cut

15600-15700 Dolomite: graybrown, light gray, trace medium gray, medium brown-brownish tan, trace scattered darker gray, fine-very fine crystalline, slightly firm-firm, slightly argillaceous, slightly calcareous, slightly carbonaceous, fine-very fine grained, very silty, bright yellow-green fluorescence, light grayish brown spotty oil stain, fast, bright blue-white streaming cut

15700-15800 Dolomite: graybrown, light gray, trace medium gray, medium brown-brownish tan, trace scattered darker gray, fine-very fine crystalline, slightly firm-firm, slightly argillaceous, slightly calcareous, slightly carbonaceous, fine-very fine grained, slightly-moderately silty, bright yellow-green fluorescence, light grayish brown spotty oil stain, fast, bright blue-white streaming cut

15800-15900 Dolomite: graybrown-light gray, some trace scattered medium gray, trace light-medium brown, some brownish tan, fine-very fine crystalline, slightly firm-firm, slightly argillaceous, slightly-moderately calcareous, slightly carbonaceous, fine-very fine grained, slightly silty, bright yellow-green fluorescence, graybrown spotty oil stain, fast, bright blue-white streaming cut

15900-16000 Dolomite: graybrown-light gray, some trace scattered medium gray, trace light-medium brown, some brownish tan, fine-very fine crystalline, slightly firm-firm, slightly argillaceous, slightly-moderately calcareous, slightly carbonaceous, fine-very fine grained, slightly silty, bright yellow-green fluorescence, graybrown spotty oil stain, fast, bright blue-white streaming cut

16000-16100 Dolomite: graybrown-light gray, some trace scattered medium gray, trace light-medium brown, some brownish tan, fine-very fine crystalline, slightly firm-firm, slightly argillaceous, slightly-moderately calcareous, slightly carbonaceous, fine-very fine grained, slightly silty, bright yellow-green fluorescence, graybrown spotty oil stain, fast, bright blue-white streaming cut

16100-16200 Dolomite: graybrown-light gray, some medium gray, trace light-medium brown, trace brownish tan, fine-very fine crystalline, slightly firm-firm, slightly argillaceous, slightly-moderately calcareous, slightly carbonaceous, fine-very fine grained, slightly silty, bright yellow-green fluorescence, graybrown spotty oil stain, fast, bright blue-white streaming cut

16200-16300 Dolomite: graybrown, light gray, medium gray, some light-medium brown, trace brownish tan, fine-very fine crystalline, slightly firm-firm, slightly argillaceous, slightly-moderately calcareous, slightly carbonaceous, fine-very fine grained, slightly silty, bright yellow-green fluorescence, graybrown spotty oil stain, fast, bright blue-white streaming cut

16300-16400 Dolomite: graybrown to light gray, medium gray, some light-medium brown, trace brownish tan, fine-very fine crystalline, moderately firm-firm, slightly argillaceous, slightly-moderately calcareous, slightly carbonaceous, fine-very fine grained, slightly-moderately silty, bright yellow-green fluorescence, graybrown spotty oil stain, fast, bright blue-white streaming cut

16400-16500 Dolomite: graybrown, light-medium gray, some light-medium brown, trace brownish tan, fine-very fine crystalline, moderately firm-firm, slightly argillaceous, slightly-moderately calcareous, slightly carbonaceous, fine-very fine grained, slightly-moderately silty, bright yellow-green fluorescence, graybrown spotty oil stain, fast, bright blue-white streaming cut

16500-16600 Dolomite: light-medium graybrown, some light gray, trace brown-tan, trace scattered white-cream, fine-very fine crystalline, moderately firm-firm, slightly argillaceous, slightly-moderately calcareous, slightly-moderately carbonaceous, fine grained, moderately silty, bright yellow-green fluorescence, light graybrown spotty oil stain, fast, bright blue-white streaming cut

16600-16700 Dolomite: light graybrown, medium graybrown, some light gray, trace brown-tan, trace scattered white-cream, fine-very fine crystalline, moderately firm-firm, slightly argillaceous, slightly-moderately calcareous, slightly-moderately carbonaceous, fine grained, moderately silty, bright yellow-green fluorescence, light graybrown spotty oil stain, fast, bright blue-white streaming cut

16700-16800 Dolomite: light graybrown, medium graybrown, some light gray, trace tan, scattered white-cream, fine-very fine crystalline, moderately firm-firm, slightly argillaceous, slightly-moderately calcareous, slightly-moderately carbonaceous, fine grained, slightly-moderately silty, bright yellow-green fluorescence, light graybrown spotty oil stain, fast, bright blue-white streaming cut

16800-16900 Dolomite: light graybrown, medium graybrown, some light gray, trace tan, scattered cream, fine-very fine crystalline, moderately firm-firm, slightly argillaceous, slightly-

moderately calcareous, slightly-moderately carbonaceous, fine grained, slightly-moderately silty, bright yellow-green fluorescence, light graybrown spotty oil stain, fast, bright blue-white streaming cut

16900-17000 Dolomite: light-medium graybrown, some light gray, trace tan, scattered cream, fine-very fine crystalline, moderately firm-firm, slightly argillaceous, slightly-moderately calcareous, slightly-moderately carbonaceous, fine-very fine grained, slightly-moderately silty, bright yellow-green fluorescence, light graybrown spotty oil stain, fast, bright blue-white streaming cut

17000-17100 Dolomite: medium gray-light graybrown, tan, some scattered white-cream, trace dark gray, very fine crystalline, moderately firm-firm, slightly-moderately argillaceous, moderately calcareous, slightly carbonaceous, fine-very fine grained, scattered pyrite nodes, slightly silty, bright yellow-green fluorescence, light gray spotty oil stain, fast, bright blue-white cut

17100-17200 Dolomite: medium gray-graybrown, tan, some scattered white-cream, trace dark gray, very fine crystalline, moderately firm-firm, slightly-moderately argillaceous, moderately calcareous, slightly carbonaceous, fine-very fine grained, scattered pyrite nodes, slightly silty, bright yellow-green fluorescence, light gray spotty oil stain, fast, bright blue-white cut

17200-17300 Dolomite: light gray to graybrown, some tan to grayish tan, scattered white-cream, trace dark gray, very fine crystalline, slightly firm-firm, moderately argillaceous, moderately calcareous, slightly carbonaceous, fine-very fine grained, scattered pyrite nodes, slightly silty, bright yellow-green fluorescence, light gray spotty oil stain, fast, bright blue-white cut

17300-17400 Dolomite: graybrown-light gray, some tan-grayish tan, scattered white-cream, very fine crystalline, slightly firm-firm, slightly argillaceous, slightly-moderately calcareous, slightly carbonaceous, fine-very fine grained, scattered pyrite nodes, slightly silty, bright yellow-green fluorescence, light gray spotty oil stain, fast, bright blue-white cut

17400-17500 Dolomite: graybrown, scattered light gray, some gray tan, some trace medium gray specs, very fine crystalline, slightly firm-firm, slightly argillaceous, slightly-moderately calcareous, slightly carbonaceous, fine-very fine grained, scattered pyrite nodes, slightly silty, bright yellow-green fluorescence, light gray spotty oil stain, fast, bright blue-white cut

17500-17600 Dolomite: graybrown-light gray, gray tan, trace medium gray, very fine crystalline, slightly firm-firm, slightly argillaceous, slightly-moderately calcareous, slightly carbonaceous, fine-very fine grained, scattered pyrite nodes, slightly silty, bright yellow-green fluorescence, light gray spotty oil stain, fast, bright blue-white cut

17600-17700 Dolomite: graybrown-light gray, gray tan, trace medium gray, very fine crystalline, slightly firm-firm, slightly argillaceous, slightly-moderately calcareous, slightly carbonaceous, fine-very fine grained, scattered pyrite nodes, slightly silty, bright yellow-green fluorescence, light gray spotty oil stain, fast, bright blue-white streaming cut

17700-17800 Dolomite: graybrown-light gray, gray tan, trace medium gray, very fine crystalline, slightly firm-firm, slightly argillaceous, slightly-moderately calcareous, slightly carbonaceous, fine-very fine grained, scattered pyrite nodes, slightly silty, bright yellow-green fluorescence, light gray spotty oil stain, fast, bright blue-white cut

17800-17900 Dolomite: graybrown-light gray, gray tan, trace medium gray, very fine crystalline, slightly firm-firm, slightly argillaceous, slightly-moderately calcareous, slightly carbonaceous, fine-very fine grained, scattered pyrite nodes, slightly silty, bright yellow-green fluorescence, light gray spotty oil stain, fast, bright blue-white streaming cut

17900-18000 Dolomite: graybrown-light gray, gray tan, trace medium gray, very fine crystalline, slightly firm-firm, slightly argillaceous, slightly-moderately calcareous, slightly carbonaceous, fine-very fine grained, scattered pyrite nodes, slightly silty, bright yellow-green fluorescence, light gray spotty oil stain, fast, bright blue-white streaming cut

18000-18100 Dolomite: graybrown, some scattered light-medium gray, very fine crystalline, slightly firm-firm, slightly argillaceous, slightly-moderately calcareous, slightly carbonaceous, fine-very fine grained, scattered pyrite nodes, slightly silty, bright yellow-green fluorescence, light gray spotty oil stain, fast, bright blue-white streaming cut

18100-18200 Dolomite: graybrown, some scattered light-medium gray, very fine crystalline, slightly firm-firm, slightly argillaceous, slightly-moderately calcareous, slightly carbonaceous, fine-very fine grained, intermittently scattered pyrite nodes, tracely silty, bright yellow-green fluorescence, light gray spotty oil stain, fast, bright blue-white streaming cut

18200-18298 (bottoms up) Dolomite: graybrown, scattered light gray, very fine crystalline, slightly firm-firm, slightly argillaceous, slightly calcareous, slightly carbonaceous, fine-very fine grained, intermittently scattered pyrite nodes, tracely silty, bright yellow-green fluorescence, light gray spotty oil stain, fast, bright blue-white streaming cut



SUNDRY NOTICES AND REPORTS ON WELLS - FORM 4

INDUSTRIAL COMMISSION OF NORTH DAKOTA
OIL AND GAS DIVISION
600 EAST BOULEVARD DEPT 405
BISMARCK, ND 58505-0840
SFN 5749 (09-2006)

Well File No.

28525

PLEASE READ INSTRUCTIONS BEFORE FILLING OUT FORM.
PLEASE SUBMIT THE ORIGINAL AND ONE COPY.

<input type="checkbox"/> Notice of Intent	Approximate Start Date
<input checked="" type="checkbox"/> Report of Work Done	Date Work Completed July 20, 2014
<input type="checkbox"/> Notice of Intent to Begin a Workover Project that may Qualify for a Tax Exemption Pursuant to NDCC Section 57-51.1-03.	Approximate Start Date

<input type="checkbox"/> Drilling Prognosis	<input checked="" type="checkbox"/> Spill Report
<input type="checkbox"/> Redrilling or Repair	<input type="checkbox"/> Shooting
<input type="checkbox"/> Casing or Liner	<input type="checkbox"/> Acidizing
<input type="checkbox"/> Plug Well	<input type="checkbox"/> Fracture Treatment
<input type="checkbox"/> Supplemental History	<input type="checkbox"/> Change Production Method
<input type="checkbox"/> Temporarily Abandon	<input type="checkbox"/> Reclamation
<input checked="" type="checkbox"/> Other Spud	

Well Name and Number Parshall 58-1608H					
Footages	Qtr-Qtr	Section	Township	Range	
420 F S L 1600 F W L	SESW	16	152 N	90 W	
Field	Pool	County			
Parshall	Bakken	Mountrail			

24-HOUR PRODUCTION RATE					
Before			After		
Oil	Bbls		Oil	Bbls	
Water	Bbls		Water	Bbls	
Gas	MCF		Gas	MCF	

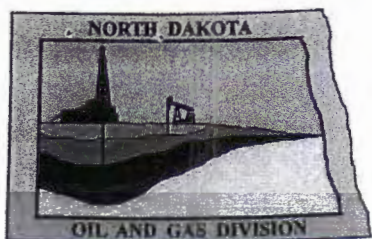
Name of Contractor(s)			
Address	City	State	Zip Code

DETAILS OF WORK

A Craig's rig set surface casing on the referenced well on 7/20/2014.

Company EOG Resources, Inc.		Telephone Number (303) 262-9973	
Address 600 17th Street, Suite 1000N			
City Denver	State CO	Zip Code 80202	
Signature <i>Cally Wescoat</i>	Printed Name Cally Wescoat		
Title Sr. Regulatory Assistant	Date July 21, 2014		
Email Address Cally_Wescoat@eogresources.com			

FOR STATE USE ONLY	
<input checked="" type="checkbox"/> Received	<input type="checkbox"/> Approved
Date 7/22/14	
By <i>[Signature]</i>	
Title <i>[Signature]</i>	



Oil and Gas Division

Lynn D. Helms - Director

Bruce E. Hicks - Assistant Director

Department of Mineral Resources

Lynn D. Helms - Director

North Dakota Industrial Commission

www.dmr.nd.gov/oilgas

28525

SHEILA SINGER
EOG RESOURCES, INC.
600 17TH ST., SUITE 1000 N
DENVER, CO 80202 USA

Date: 6/9/2014

RE: CORES AND SAMPLES

Well Name: **PARSHALL 58-1608H** Well File No.: **28525**
Location: **SESW 16-152-90** County: **MOUNTRAIL**
Permit Type: **Development - HORIZONTAL**
Field: **PARSHALL** Target Horizon: **BAKKEN**

Dear SHEILA SINGER:

North Dakota Century Code Section 38-08-04 provides for the preservation of cores and samples and their shipment to the State Geologist when requested. The following is required on the above referenced well:


- 1) All cores, core chips and samples must be submitted to the State Geologist as provided for under North Dakota Century Code: Section 38-08-04 and North Dakota Administrative Code: Section 43-02-03-38.1.
- 2) Samples: The Operator is to begin collecting sample drill cuttings no lower than the:
Base of the Last Charles Salt
 - Sample cuttings shall be collected at:
 - o 30' maximum intervals through all vertical and build sections.
 - o 100' maximum intervals through any horizontal sections.
 - Samples must be washed, dried, placed in standard sample envelopes (3" x 4.5"), packed in the correct order into standard sample boxes (3.5" x 5.25" x 15.25").
 - Samples boxes are to be carefully identified with a label that indicates the operator, well name, well file number, American Petroleum Institute (API) number, location and depth of samples; and forwarded in to the state core and sample library within 30 days of the completion of drilling operations.
- 3) Cores: Any cores cut shall be preserved in correct order, boxed in standard core boxes (4.5", 4.5", 35.75"), and the entire core forwarded to the state core and samples library within 180 days of completion of drilling operations. Any extension of time must have approval on a Form 4 Sundry Notice.

All cores, core chips, and samples must be shipped, prepaid, to the state core and samples library at the following address:

**ND Geological Survey Core Library
2835 Campus Road, Stop 8156
Grand Forks, ND 58202**

North Dakota Century Code Section 38-08-16 allows for a civil penalty for any violation of Chapter 38 08 not to exceed \$12,500 for each offense, and each day's violation is a separate offense.

Sincerely


Stephen Fried
Geologist

SUNDRY NOTICES AND REPORTS ON WELLS - FORM 44

INDUSTRIAL COMMISSION OF NORTH DAKOTA
OIL AND GAS DIVISION
600 EAST BOULEVARD DEPT 405
BISMARCK, ND 58505-0840
SFN 5749 (09-2006)



Well File No.

28525

PLEASE READ INSTRUCTIONS BEFORE FILLING OUT FORM.
PLEASE SUBMIT THE ORIGINAL AND ONE COPY.

☒ Notice of Intent

Approximate Start Date
June 1, 2014

☐ Report of Work Done

Date Work Completed

☐ Notice of Intent to Begin a Workover Project that may Qualify for a Tax Exemption Pursuant to NDCC Section 57-51.1-03.

Approximate Start Date

<input type="checkbox"/> Drilling Prognosis	<input type="checkbox"/> Spill Report
<input type="checkbox"/> Redrilling or Repair	<input type="checkbox"/> Shooting
<input type="checkbox"/> Casing or Liner	<input type="checkbox"/> Acidizing
<input type="checkbox"/> Plug Well	<input type="checkbox"/> Fracture Treatment
<input type="checkbox"/> Supplemental History	<input type="checkbox"/> Change Production Method
<input type="checkbox"/> Temporarily Abandon	<input type="checkbox"/> Reclamation
<input checked="" type="checkbox"/> Other	

Waiver Request for Open Hole Logs

Well Name and Number Parshall 58-1608H					
Footages 420 F S L 1600 F W L		Qtr-Qtr SESW	Section 16	Township 152 N	Range 90 W
Field Parshall		Pool Bakken		County Mountrail	

Before		After	
Oil	Bbls	Oil	Bbls
Water	Bbls	Water	Bbls
Gas	MCF	Gas	MCF


Name of Contractor(s)			
Address	City	State	Zip Code

DETAILS OF WORK

EOG Resources, Inc. requests a waiver to rule 43-02-03-31 with regards to running open hole logs. There are nearby offset wells that have been or will be logged. EOG confirms that a gamma ray log will be run from surface to total depth, and a cement bond log will be run on the 7" intermediate casing. Digital copies of all logs run will be provided to the NDIC.

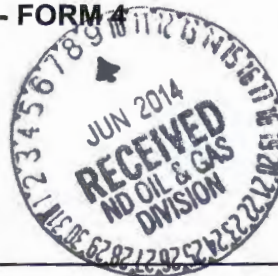
Approved per logs to be run on Parshall 147-1608#

Company EOG Resources, Inc.		Telephone Number (303) 262-9894	
Address 600 17th Street, Ste 1000N			
City Denver		State CO	Zip Code 80202
Signature <i>Barbara Griswold</i>		Printed Name Barbara Griswold	
Title Regulatory Specialist		Date February 24, 2014	
Email Address barbara_griswold@eoaresources.com			

FOR STATE USE ONLY	
<input type="checkbox"/> Received	<input checked="" type="checkbox"/> Approved
Date 6-3-2014	
By 	
Title Stephen Fried Geologist	

**SUNDRY NOTICES AND REPORTS ON WELLS - FORM 4**

INDUSTRIAL COMMISSION OF NORTH DAKOTA
OIL AND GAS DIVISION
600 EAST BOULEVARD DEPT 405
BISMARCK, ND 58505-0840
SFN 5749 (09-2006)



CTB
Well File No.
228315-01

PLEASE READ INSTRUCTIONS BEFORE FILLING OUT FORM.
PLEASE SUBMIT THE ORIGINAL AND ONE COPY.

<input checked="" type="checkbox"/> Notice of Intent	Approximate Start Date August 15, 2014
<input type="checkbox"/> Report of Work Done	Date Work Completed
<input type="checkbox"/> Notice of Intent to Begin a Workover Project that may Qualify for a Tax Exemption Pursuant to NDCC Section 57-51.1-03.	Approximate Start Date

<input type="checkbox"/> Drilling Prognosis	<input type="checkbox"/> Spill Report
<input type="checkbox"/> Redrilling or Repair	<input type="checkbox"/> Shooting
<input type="checkbox"/> Casing or Liner	<input type="checkbox"/> Acidizing
<input type="checkbox"/> Plug Well	<input type="checkbox"/> Fracture Treatment
<input type="checkbox"/> Supplemental History	<input type="checkbox"/> Change Production Method
<input type="checkbox"/> Temporarily Abandon	<input type="checkbox"/> Reclamation
<input checked="" type="checkbox"/> Other	Surface Commingling

Well Name and Number PARSHALL 38-1608H					
Footages		Qtr-Qtr	Section	Township	Range
400 F S L 2100 F W L		SESW	16	152 N	90 W
Field	Pool	County			
PARSHALL	BAKKEN	MOUNTRAIL			

24-HOUR PRODUCTION RATE			
Before		After	
Oil	Bbls	Oil	Bbls
Water	Bbls	Water	Bbls
Gas	MCF	Gas	MCF

Name of Contractor(s)			
Address	City	State	Zip Code

DETAILS OF WORK

EOG Resources, Inc. requests permission to commingle production. Please see attachments for the Parshall Section 16 SESW Central Facility/Continuous Measurement for the following wells:

Parshall 38-1608H (Well File #28317)
Parshall 39-1608H (Well File # 28315)
Parshall 147-1608H (Well File # 28316)
Parshall 58-1608H (Well File #28525)
Parshall 59-1608H (Well File #28521)
Parshall 151-1608H (Well File #28524)

There is common ownership on this location and an affidavit of ownership is attached.

Company EOG Resources, Inc.	Telephone Number 303-824-5467
Address 600 17th Street, Suite 1000N	
City Denver	State CO
Zip Code 80202	
Signature <i>Christine Campbell</i>	Printed Name Christine Campbell
Title Senior Regulatory Specialist	Date June 6, 2014
Email Address Christine_Campbell@eogresources.com	

FOR STATE USE ONLY	
<input type="checkbox"/> Received	<input checked="" type="checkbox"/> Approved
Date 6-12-2014	
By <i>David J. By</i>	
Title PETROLEUM ENGINEER	



Commingled Production Allocation Method for "Continuous Measurement" Locations

EOG Resources, Inc. is requesting approval to commingle production from the following wells:

Parshall Section 16 SESW

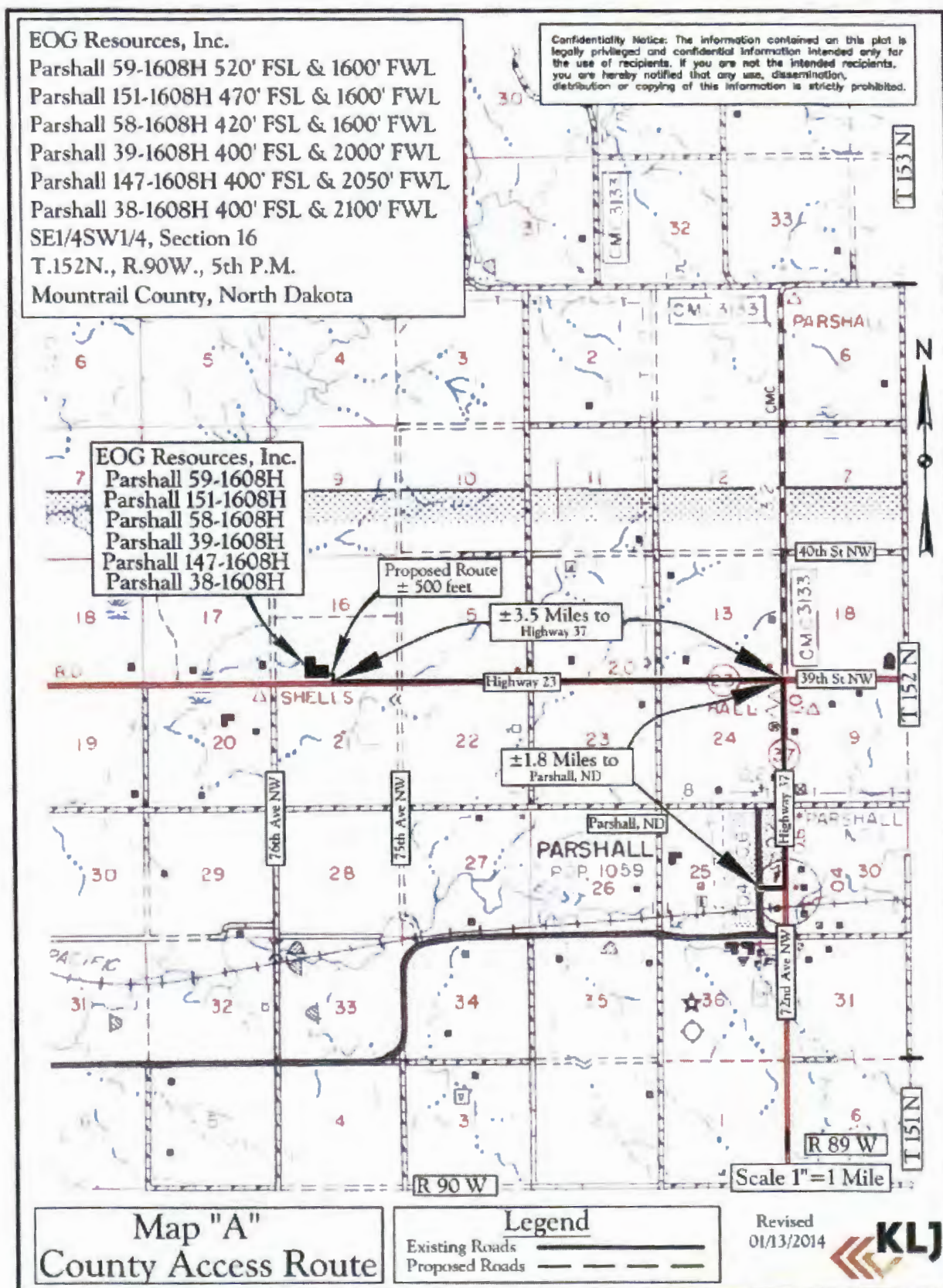
Parshall 38-1608H (Well File #28317), Surface loc. Sec 16, T152N, R90W, 5th P.M. Mountrail Co.
Parshall 39-1608H (Well File # 28315), Surface loc. Sec 16, T152N, R90W, 5th P.M. Mountrail Co.
Parshall 147-1608H (Well File # 28316), Surface loc. Sec 16, T152N, R90W, 5th P.M. Mountrail Co.
Parshall 58-1608H (Well File #28525), Surface loc. Sec 16, T152N, R90W, 5th P.M. Mountrail Co.
Parshall 59-1608H (Well File #28521), Surface loc. Sec 16, T152N, R90W, 5th P.M. Mountrail Co.
Parshall 151-1608H (Well File #28524), Surface loc. Sec 16, T152N, R90W, 5th P.M. Mountrail Co.

The above wells will use "Continuous Measurement" and as a group have common ownership. Continuous measurement for above wells will be located at the "Parshall Section 16 SESW" central production facility to be constructed on the same pad of where the wellheads are located.

Each well will flow into a single separator/treater located at the Central Facility where oil, water, and gas will be separated and continuous measurement used on each well as follows:

- 1) Per well continuous measurement oil volumes will be used to allocate actual stock tank oil volumes delivered through central facility commingled "oil sales" LACT back to individual well(s). Oil device will be Coriolis meter using Electronic Flow Measurement (EFM) and appropriate industry and manufacturer standards. Each well will have a tank that can be isolated and used as a test tank for the proving of its Coriolis meter.
- 2) Per well continuous measurement of gas volumes will be used to allocate actual standard condition gas volumes delivered through central facility "gas sales" meters back to individual well(s). Gas measurement device will be either orifice plate or wedge meters using EFM and appropriate industry and manufacturer standards.
- 3) Per well continuous measurement water volumes will be used to allocate actual water volumes transported out of central facility back to individual well(s). Water device will be Vortex Shedding, Electro-Magnetic, or Turbine using EFM and appropriate industry and manufacturer standards.

Please reference, 1) A map showing the location of the central facility and the location of each well, 2) The Facilities Commingling Diagram, 3) A list of the manufacturer, size and type of meters to be used, and 4) the Commingled Production Allocation Method to be used to determine individual well production.

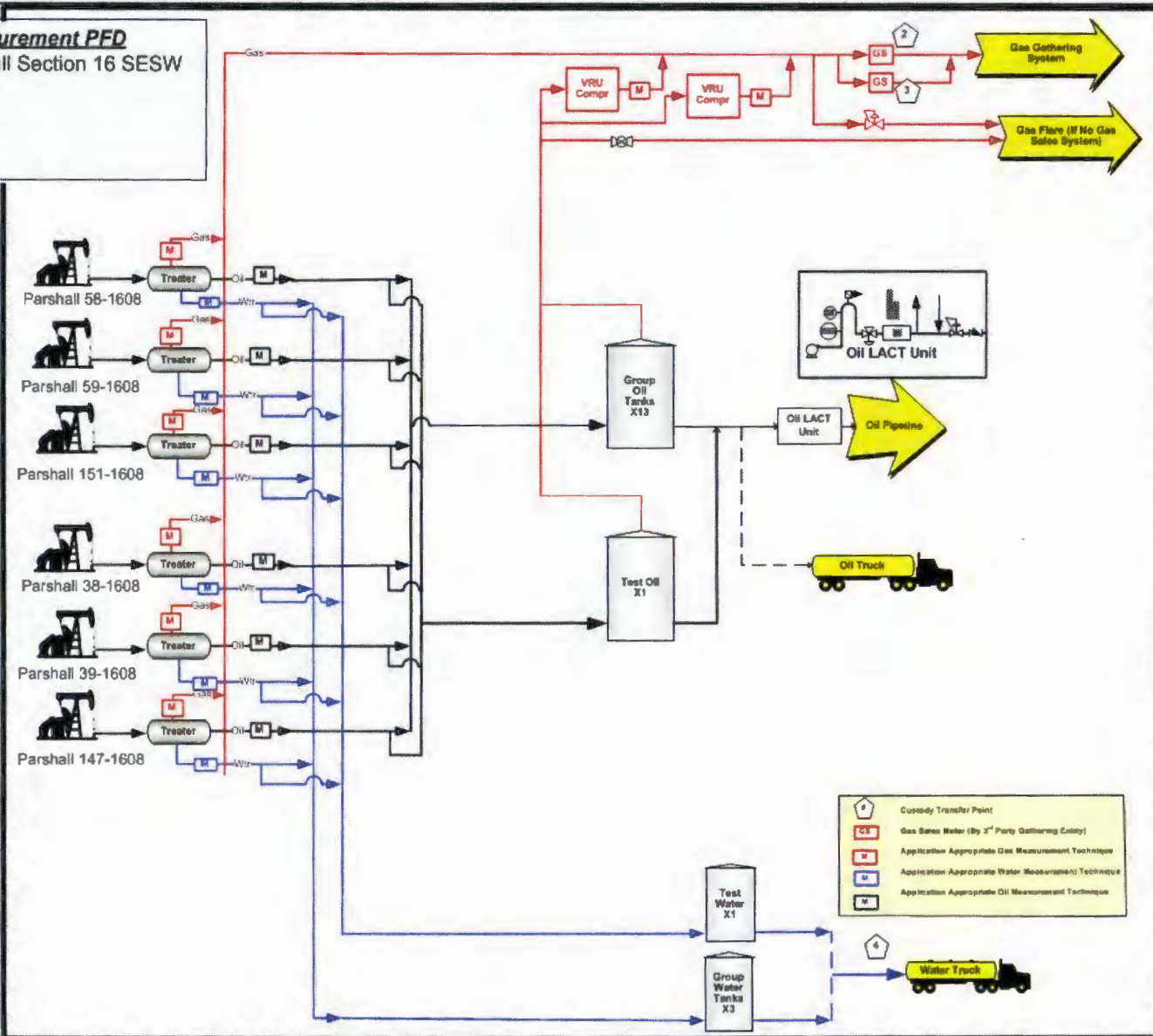


Continuous Measurement PFD

Pad Name: Parshall Section 16 SESW

Pad

County: Mountrail





Meters Manufacturer, Size and Type

Oil 2" Corilis Meters, Micromotion Series F for allocation

Water 2" Vortex Shedding, Emerson for allocation

Gas 2" & 3" Orifice Plate meter tubes, commodity item (no particular manufacturer) using Fisher ROC Electronic Flow Measurement (EFM) computer and AGA 3



Commingled Production Allocation Method for "Continuous Measurement" Locations

EOG Resources shall use the following procedures for allocating production for the associated continuous measurement wells commingled at the "Parshall Section 16 SESW" Pad:

General:

- a) Monthly downtime shall be monitored for all commingled wells to determine the total number of producing hours for each well (NDIC).

Oil Continuous Measurement: Individual Well "Allocated Monthly Well OIL SALES":

- a) Volumes of oil shall be metered at dedicated single well oil production tanks (at central facility) using Beginning and Closing tank levels, transfer pumps, Coriolis meters and Electronic Flow Measurement (EFM).
- b) The total oil volume leaving/shipping out of the central production facility shall be metered by a LACT unit prior to trucking oil or entry into an oil gathering pipeline system.
 - o LACT metered oil volumes for the month are termed "Actual Monthly Oil Sales".
- c) Determine a theoretical monthly oil production volume for each continuously measured well base on proration as follows:
 - o "Theoretical Monthly Oil Production" (post ops review) = Total oil volume continuously measured for month with *Volume corrected as necessary by responsible operations/metering personnel for known upsets/malfunctioning of equipment or measurement devices that impact accuracy of well oil volumes.*
- d) Sum all the individual well "Theoretical Monthly Oil Production" volumes to determine the "Total Theoretical Monthly Oil Production" for the central production facility.
- e) Calculate a sales factor by dividing the total "Actual Monthly Oil Sales" by the "Total Theoretical Monthly Oil Production" volumes for the central production facility corrected as necessary for any time well was producing but measurement was not operational.
- f) Determine "Allocated Monthly Oil Production" for each well by multiplying the respective individual well "Theoretical Monthly Oil Production" volume by the sales factor calculated in step (e) above.
- g) LACT meter used in the measurement will be proved according to the section below entitled "Current EOG Oil Sales LACT Proving".
- h) Well oil allocation meters will be proved on a quarterly basis using either a positive displacement prover loop or from a test tank.
- i) Volumes will be reported to appropriate agencies through routine oil production reports filed monthly.

Current EOG Oil Sales LACT Proving:

The time between LACT proving depends on the amount of oil sold through the LACT. It is the same for pipeline LACTs and truck LACTs as follows:

- a) LACT ships 2,000 bbls or more in a month: LACT proved every month.
- b) LACT ships less than 2,000 bbls in a month: LACT is proved every quarter.
- c) In addition, to establish a comparative meter factor for a new LACT, the initial proving is followed by a second proving a month later, regardless of how much oil is shipped through the LACT for that month.

Gas Continuous Measurement: Individual Well "Monthly Well GAS PRODUCTION":

- a) Volumes of gas shall be metered at a dedicated single well separator/treater (at central facility) using either orifice plate or v-cone and Electronic Flow Measurement (EFM).

Gas Continuous Measurement: Individual Well "Allocated Monthly Well GAS SALES" (If Gas Sales Are Active):

- a) Volumes of gas shall be metered at a dedicated single well separator/treater (at central facility) using either orifice plate or v-cone and Electronic Flow Measurement (EFM).
- b) The total gas volume leaving/shipping out of the central production facility shall be metered by custody transfer "gas sales" meter prior to delivery into a gas gathering pipeline system.
 - o Gas Sales metered volumes for the month are termed "Actual Monthly Gas Sales".
- c) Determine a theoretical monthly gas production volume for each continuously measured well as follows:
 - o "Theoretical Monthly Gas Production" (post ops review) = Total gas volume continuously measured for month with *Volume corrected as necessary by responsible operations/metering personnel for known upsets/malfunctioning of equipment or measurement devices that impact accuracy of well oil volumes.*
- d) Sum all the individual well "Theoretical Monthly Gas Production" volumes to determine the "Total Theoretical Monthly Gas Production" for the central production facility.
- e) Calculate a sales factor by dividing the total "Actual Monthly Gas Sales" by the "Total Theoretical Monthly Gas Production" volumes for the central production facility corrected as necessary for any time well was producing but measurement was not operational.
- f) Determine "Allocated Monthly Gas Sales" for each well by multiplying the respective individual well "Theoretical Monthly Gas Production" volume by the sales factor calculated in step (e) above.
- g) Gas Sales meter used in the measurement will be calibrated and maintained according to gas gathering contracts with commercial gathering entities and/or industry standard practices if performed by EOG Resources directly.
- h) Well gas allocation meters will be checked and calibrated on a standard timespan reflective of gas volume magnitude (large volumes quarterly, lower volumes every 6 months).
- i) Volumes will be reported to appropriate agencies through routine gas production reports filed monthly.

Associated Oil Tank Gas (aka, Vapors) Recovered And Sold With Separator Gas:

IF central facility separator gas is 1) active on gas sales system and 2) vapor recovery is required for emissions compliance and/or vapor recovery otherwise economic then a Vapor Recovery Unit (VRU) will be installed to recover tank gas prior to entry into atmospheric tanks.

- a) Commingled gas from the discharge of Vapor Recovery Unit (VRU) compressors will be measured and allocated back to the individual wells based upon each well prorata share of continuously measured oil volumes from the Coriolis meters and not producing wellstream GOR. This reflects that for similar crude oils gas volumes in solution within "saturated separator barrels" leaving treaters is primarily a function of separation "flash" conditions and not producing GOR from the well. The coriolis meters at the treaters will be measuring "saturated" separator barrels containing the soon to be liberated tank gas vapor still in solution before finally flashing at tank conditions.

Continuous Measurement: Individual Well "Monthly Well WATER PRODUCTION":

Produced Water: A continuously measured well water meter volume shall be used for individual well produced water volume.

AFFIDAVIT OF FACTUAL INFORMATION

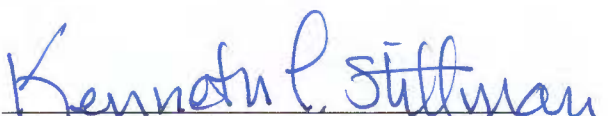
Kenneth T. Stillman, of lawful age, being first duly sworn, deposes and says:

1. That he is a Division Land Advisor for EOG Resources, Inc., located at 600 17th Street, Suite 1000N, Denver, CO 80202, a corporation duly organized under the State of Delaware, and is fully authorized to make and sign this Affidavit on behalf of said corporation; and
2. That EOG Resources, Inc. is the operator of the proposed wells described in "Exhibit A" attached hereto and made a part hereof; and
3. That the wells described in "Exhibit A" are producing into a common storage facility and have common ownership, including the common ownership of the working interest, the common ownership of the royalty ownership, and the common ownership of any overriding royalty owners; and
4. That the production from each well can be accurately determined and will be allocated by a three phase test treater, portrayed on "Exhibit B" attached hereto and made a part hereof; and
5. That EOG Resources, Inc. hereby requests approval of the commingling system described herein.

Further Affiant sayeth not.

In testimony whereof, the undersigned, Kenneth T. Stillman, has executed this instrument this 6th day of June, 2014, as Division Land Advisor for EOG Resources, Inc.

EOG RESOURCES, INC.

By: 
Kenneth T. Stillman, Division Land Advisor

ACKNOWLEDGEMENT

STATE OF COLORADO)
) ss.
COUNTY OF DENVER)

The foregoing instrument was acknowledged before me this 6th day of June, 2014 by Kenneth T. Stillman, Division Land Advisor, on behalf of EOG Resources, Inc.

Witness my hand and official seal.



EXHIBIT A

Attached to and made a part of the Affidavit of Factual Information submitted the 6th day of June, 2014.

Well Names and Description

1. Well Names: Parshall 38-1608H / NDIC File No. 28317
Parshall 39-1608H / NDIC File No. 28315
Parshall 58-1608H / NDIC File No. 28525
Parshall 59-1608H / NDIC File No. 28521
Parshall 147-1608H / NDIC File No. 28316
Parshall 151-1608H / NDIC File No. 28524
2. Operator: EOG Resources, Inc.
3. Location: Section 16, T152N, R90W
Mountrail County, North Dakota
4. Type of Wells: Horizontal – Oil – Bakken Pool
5. Spacing Unit: T152N, R90W, Mountrail County, North Dakota
Section 8, 16, 17: All
Containing 1920 acres, m/l



SUNDRY NOTICES AND REPORTS ON WELLS - FORM 4

INDUSTRIAL COMMISSION OF NORTH DAKOTA

OIL AND GAS DIVISION

600 EAST BOULEVARD DEPT 405

BISMARCK, ND 58505-0840

SFN 5749 (09-2006)

Well File No. **28525**

PLEASE READ INSTRUCTIONS BEFORE FILLING OUT FORM.

PLEASE SUBMIT THE ORIGINAL AND ONE COPY.

<input checked="" type="checkbox"/> Notice of Intent	Approximate Start Date June 1, 2014	<input type="checkbox"/> Drilling Prognosis	<input type="checkbox"/> Spill Report
<input type="checkbox"/> Report of Work Done	Date Work Completed	<input type="checkbox"/> Redrilling or Repair	<input type="checkbox"/> Shooting
<input type="checkbox"/> Notice of Intent to Begin a Workover Project that may Qualify for a Tax Exemption Pursuant to NDCC Section 57-51.1-03.	Approximate Start Date	<input type="checkbox"/> Casing or Liner	<input type="checkbox"/> Acidizing
		<input type="checkbox"/> Plug Well	<input type="checkbox"/> Fracture Treatment
		<input type="checkbox"/> Supplemental History	<input type="checkbox"/> Change Production Method
		<input type="checkbox"/> Temporarily Abandon	<input type="checkbox"/> Reclamation
		<input checked="" type="checkbox"/> Other	Suspension of Drilling

Well Name and Number Parshall 58-1608H							
Footages		Qtr-Qtr	Section	Township	Range		
420 F S L 1600 F W L		SESW	16	152 N	90 W		
Field		Pool		County			
Parshall		Bakken		Mountrail			

24-HOUR PRODUCTION RATE			
Before		After	
Oil	Bbls	Oil	Bbls
Water	Bbls	Water	Bbls
Gas	MCF	Gas	MCF

Name of Contractor(s) Craig's Roustabout Services, Inc.			
Address P.O. Box 41		City Jenssen	State UT
		Zip Code 84035	

DETAILS OF WORK

EOG Resources, Inc. requests permission for suspension of drilling for up to 90 days for the referenced well under NDAC 43-02-03-55. EOG Resources, Inc. intends to drill the surface hole with freshwater based drilling mud and set surface casing with a small drilling rig and move off within 3 to 5 days. The casing will be set at a depth pre-approved by the NDIC per the Application for Permit to Drill NDAC 43-02-03-21. No saltwater will be used in the drilling and cementing operations of the surface casing. Once the surface casing is cemented, a plug or mechanical seal will be placed at the top of the casing to prevent any foreign matter from getting into the well. A rig capable of drilling to TD will move onto the location within the 90 days previously outlined to complete the drilling and casing plan as per the APD. The undersigned states that this request for suspension of drilling operations in accordance with the Subsection 4 of Section 43-02-03-55 of the NDAC, is being requested to take advantage of the cost savings and time savings of using an initial rig that is smaller than the rig necessary to drill a well to total depth but is not intended to alter or extend the terms and conditions of, or suspend any obligation under, any oil and gas lease with acreage in or under the spacing or drilling unit for the above-referenced well. EOG Resources, Inc. understands NDAC 43-02-03-31 requirements regarding confidentiality pertaining to this permit. The drilling pit will be fenced immediately after construction if the well pad is located in a pasture (NDAC 43-02-03-19 & 19.1). EOG Resources, Inc. will plug and abandon the well and reclaim the well site if the well is not drilled by the larger rotary rig within 90 days after spudding the well with the smaller drilling rig.

NOTIFY NDIC INSPECTOR BOB GARRETT 701-720-3262 WITH SPAD + TD INFO.

Company EOG Resources, Inc.		Telephone Number (303) 262-9894	
Address 600 17th Street, Suite 1000N			
City Denver		State CO	Zip Code 80202
Signature <i>Barbara Griswold</i>		Printed Name Barbara Griswold	
Title Regulatory Specialist		Date February 24, 2014	
Email Address barbara_griswold@eogresources.com			

FOR STATE USE ONLY	
<input type="checkbox"/> Received	<input checked="" type="checkbox"/> Approved
Date 6/04/14	
By <i>Alvin D. Wahlen</i>	
Title Engineering Technician	



Oil and Gas Division

Lynn D. Helms - Director Bruce E. Hicks - Assistant Director

Department of Mineral Resources

Lynn D. Helms - Director

North Dakota Industrial Commission

www.oilgas.nd.gov

June 3, 2014

Tex Hall, Chairman
Three Affiliated Tribes
404 Frontage Road
New Town, ND 58763

RE: WELL PERMITTED ON FORT BERTHOLD RESERVATION
PARSHALL 58-1608H
SESW Section 16-152N-90W
Mountrail County
NDIC File No. 28525

Chairman Hall:

Please be advised that EOG RESOURCES, INC. was issued the above captioned permit on June 3, 2014 and will remain in effect for a period of one year. In addition, it was permitted with a 1920 acre spacing unit in Sections 8, 16 & 17 T152N R90W via Commission Order 23511.

Should you have any questions, feel free to contact me.

Sincerely,

Todd L. Holweger
Mineral Resources Permit Manager

cc: Tax Commissioner
Field Inspector



Oil and Gas Division

Lynn D. Helms - Director

Bruce E. Hicks - Assistant Director

Department of Mineral Resources

Lynn D. Helms - Director

North Dakota Industrial Commission

www.oilgas.nd.gov

June 3, 2014

Barbara Griswold
Regulatory Specialist
EOG RESOURCES, INC.
600 17th Street, Suite 1000N
Denver, CO 80202

**RE: HORIZONTAL WELL
PARSHALL 58-1608H
SESW Section 16-152N-90W
Mountrail County
Well File # 28525**

Dear Barbara:

Pursuant to Commission Order No. 23511, approval to drill the above captioned well is hereby given. The approval is granted on the condition that all portions of the well bore not isolated by cement, be no closer than 500 feet to the boundary of the spacing unit the lateral is most nearly parallel to and 200 feet to the boundary of the spacing unit the lateral is most nearly perpendicular to within the 1920 acre spacing unit consisting of Sections 8, 16 & 17 T152N R90W. Based on the proposed directional plan the setbacks are: 200' from the north and east, and 500' from the south and west boundary. **Tool error is not required pursuant to order.**

PERMIT STIPULATIONS: Effective June 1, 2014, a covered leak-proof container (with placard) for filter sock disposal must be maintained on the well site beginning when the well is spud, and must remain on-site during clean-out, completion, and flow-back whenever filtration operations are conducted. Due to drainage adjacent to the well site, a dike is required surrounding the entire location. All distances on the Production Layout Plat must comply with NDAC 43-02-03-28 (SAFETY REGULATION). EOG RESOURCES, INC. must take into consideration NDAC 43-02-03-28 (Safety Regulation) when contemplating simultaneous operations on the above captioned location. Pursuant to NDAC 43-02-03-28 (Safety Regulation) "No boiler, portable electric lighting generator, or treater shall be placed nearer than 150 feet to any producing well or oil tank." EOG RESOURCES INC must contact NDIC Field Inspector Robert Garbe at 701-720-3262 prior to location construction.

Drilling pit

NDAC 43-02-03-19.4 states that "a pit may be utilized to bury drill cuttings and solids generated during well drilling and completion operations, providing the pit can be constructed, used and reclaimed in a manner that will prevent pollution of the land surface and freshwaters. Reserve and circulation of mud system through earthen pits are prohibited. All pits shall be inspected by an authorized representative of the director prior to lining and use. Drill cuttings and solids must be stabilized in a manner approved by the director prior to placement in a cuttings pit."

Form 1 Changes & Hard Lines

Any changes, shortening of casing point or lengthening at Total Depth must have prior approval by the NDIC. The proposed directional plan is at a legal location. The minimum legal coordinate from the well head at casing point is: 80°N. Also, based on the azimuth of the proposed lateral the maximum legal coordinate from the well head is: 6382°W.

Location Construction Commencement (Three Day Waiting Period)

Operators shall not commence operations on a drill site until the 3rd business day following publication of the approved drilling permit on the NDIC - OGD Daily Activity Report. If circumstances require operations to commence before the 3rd business day following publication on the Daily Activity Report, the waiting period may be waived by the Director. Application for a waiver must be by sworn affidavit providing the information necessary to evaluate the extenuating circumstances, the factors of NDAC 43-02-03-16.2 (1), (a)-(f), and any other information that would allow the Director to conclude that in the event another owner seeks revocation of the drilling permit, the applicant should retain the permit.

Permit Fee & Notification

Payment was received in the amount of \$100 via credit card. The permit fee has been received. It is requested that notification be given immediately upon the spudding of the well. This information should be relayed to the Oil & Gas Division, Bismarck, via telephone. The following information must be included: Well name, legal location, permit number, drilling contractor, company representative, date and time of spudding. Office hours are 8:00 a.m. to 12:00 p.m. and 1:00 p.m. to 5:00 p.m. Central Time. Our telephone number is (701) 328-8020, leave a message if after hours or on the weekend.

Survey Requirements for Horizontal, Horizontal Re-entry, and Directional Wells

NDAC Section 43-02-03-25 (Deviation Tests and Directional Surveys) states in part (that) the survey contractor shall file a certified copy of all surveys with the director free of charge within thirty days of completion. Surveys must be submitted as one electronic copy, or in a form approved by the director. However, the director may require the directional survey to be filed immediately after completion if the survey is needed to conduct the operation of the director's office in a timely manner. Certified surveys must be submitted via email in one adobe document, with a certification cover page to certsurvey@nd.gov.

Survey points shall be of such frequency to accurately determine the entire location of the well bore.

Specifically, the Horizontal and Directional well survey frequency is 100 feet in the vertical, 30 feet in the curve (or when sliding) and 90 feet in the lateral.

Surface casing cement

Tail cement utilized on surface casing must have a minimum compressive strength of 500 psi within 12 hours, and tail cement utilized on production casing must have a minimum compressive strength of 500 psi before drilling the plug or initiating tests.

Logs

NDAC Section 43-02-03-31 requires the running of (1) a suite of open hole logs from which formation tops and porosity zones can be determined, (2) a Gamma Ray Log run from total depth to ground level elevation of the well bore, and (3) a log from which the presence and quality of cement can be determined (Standard CBL or Ultrasonic cement evaluation log) in every well in which production or intermediate casing has been set, this log must be run prior to completing the well. All logs run must be submitted free of charge, as one digital TIFF (tagged image file format) copy and one digital LAS (log ASCII) formatted copy. Digital logs may be submitted on a standard CD, DVD, or attached to an email sent to digitallogs@nd.gov

Thank you for your cooperation.

Sincerely,

Alice Webber
Engineering Tech



APPLICATION FOR PERMIT TO DRILL HORIZONTAL WELL - FORM 1H

INDUSTRIAL COMMISSION OF NORTH DAKOTA
OIL AND GAS DIVISION
600 EAST BOULEVARD DEPT 405
BISMARCK, ND 58505-0840
SFN 54269 (08-2005)

PLEASE READ INSTRUCTIONS BEFORE FILLING OUT FORM.
PLEASE SUBMIT THE ORIGINAL AND ONE COPY.

Type of Work New Location	Type of Well Oil & Gas	Approximate Date Work Will Start 6 / 1 / 2014	Confidential Status No
Operator EOG RESOURCES, INC.			Telephone Number 303-262-9894
Address 600 17th Street, Suite 1000N		City Denver	State CO Zip Code 80202

☒ Notice has been provided to the owner of any permanently occupied dwelling within 1,320 feet.

☒ This well is not located within five hundred feet of an occupied dwelling.

WELL INFORMATION (If more than one lateral proposed, enter data for additional laterals on page 2)

Well Name PARSHALL				Well Number 58-1608H			
Surface Footages 420 F S L 1600 F W L		Qtr-Qtr SESW	Section 16	Township 152 N	Range 90 W	County Mountrail	
Longstring Casing Point Footages 500 F S L 1155 F W L		Qtr-Qtr SWSW	Section 16	Township 152 N	Range 90 W	County Mountrail	
Longstring Casing Point Coordinates From Well Head 80 N From WH 445 W From WH		Azimuth 280.2 °	Longstring Total Depth 9552 Feet MD 9304 Feet TVD				
Bottom Hole Footages From Nearest Section Line 1193 F S L 554 F W L		Qtr-Qtr SWSW	Section 8	Township 152 N	Range 90 W	County Mountrail	
Bottom Hole Coordinates From Well Head 6077 N From WH 6329 W From WH		KOP Lateral 1 8827 Feet MD	Azimuth Lateral 1 324.7 °		Estimated Total Depth Lateral 1 18313 Feet MD 9316 Feet TVD		
Latitude of Well Head 47 ° 58 ' 44.40 "		Longitude of Well Head -102 ° 12 ' 30.31 "		NAD Reference NAD83	Description of (Subject to NDIC Approval) Spacing Unit: Sections 8, 16 & 17 T152N R90W		
Ground Elevation 1957 Feet Above S.L.	Acres in Spacing/Drilling Unit 1920	Spacing/Drilling Unit Setback Requirement 500 Feet N/S 200 Feet E/W			Industrial Commission Order 23511		
North Line of Spacing/Drilling Unit 10561 Feet		South Line of Spacing/Drilling Unit 10560 Feet		East Line of Spacing/Drilling Unit 10717 Feet		West Line of Spacing/Drilling Unit 10724 Feet	
Objective Horizons Bakken						Pierre Shale Top 1682	
Proposed Surface Casing	Size 9 - 5/8 "	Weight 36 Lb./Ft.	Depth 1850 Feet	Cement Volume 643 Sacks	NOTE: Surface hole must be drilled with fresh water and surface casing must be cemented back to surface.		
Proposed Longstring Casing	Size 7 - 0 "	Weight(s) 26, 32 Lb./Ft.	Longstring Total Depth 9552 Feet MD 9304 Feet TVD		Cement Volume 662 Sacks	Cement Top 4200 Feet	Top Dakota Sand 4694 Feet
Base Last Charles Salt (If Applicable) 7743 Feet		NOTE: Intermediate or longstring casing string must be cemented above the top Dakota Group Sand.					
Proposed Logs CBL/GR in 7" casing: MWD/GR from KOP to TD							
Drilling Mud Type (Vertical Hole - Below Surface Casing) Invert				Drilling Mud Type (Lateral) Other - See Comments			
Survey Type in Vertical Portion of Well MWD Every 100 Feet		Survey Frequency: Build Section 30 Feet		Survey Frequency: Lateral 90 Feet		Survey Contractor Scientific Drilling	

NOTE: A Gamma Ray log must be run to ground surface and a CBL must be run on intermediate or longstring casing string if set.

Surveys are required at least every 30 feet in the build section and every 90 feet in the lateral section of a horizontal well. Measurement inaccuracies are not considered when determining compliance with the spacing/drilling unit boundary setback requirement except in the following scenarios: 1) When the angle between the well bore and the respective boundary is 10 degrees or less; or 2) If Industry standard methods and equipment are not utilized. Consult the applicable field order for exceptions.

If measurement inaccuracies are required to be considered, a 2° MWD measurement inaccuracy will be applied to the horizontal portion of the well bore. This measurement inaccuracy is applied to the well bore from KOP to TD.

REQUIRED ATTACHMENTS: Certified surveyor's plat, horizontal section plat, estimated geological tops, proposed mud/cementing plan, directional plot/plan, \$100 fee.
See Page 2 for Comments section and signature block.

COMMENTS, ADDITIONAL INFORMATION, AND/OR LIST OF ATTACHMENTS

Drilling Mud Type (Lateral): Brine. Longstring casing is a mixed string of 7" 26 lb/ft HCP-110 from LTC from surface to 200' above Dunham Salt and then 7" 32 lb/ft HCP-110 LTC from there to TD. This well will have a frac string. No pits will be used. Waste will be hauled to an approved disposal facility. Attachments emailed.

Lateral 2

KOP Lateral 2 Feet MD	Azimuth Lateral 2 °	Estimated Total Depth Lateral 2 Feet MD Feet TVD		KOP Coordinates From Well Head From WH From WH	
Formation Entry Point Coordinates From Well Head From WH From WH		Bottom Hole Coordinates From Well Head From WH From WH			
KOP Footages From Nearest Section Line F L F L		Qtr-Qtr	Section	Township N	Range W County
Bottom Hole Footages From Nearest Section Line F L F L		Qtr-Qtr	Section	Township N	Range W County

Lateral 3

KOP Lateral 3 Feet MD	Azimuth Lateral 3 °	Estimated Total Depth Lateral 3 Feet MD Feet TVD		KOP Coordinates From Well Head From WH From WH	
Formation Entry Point Coordinates From Well Head From WH From WH		Bottom Hole Coordinates From Well Head From WH From WH			
KOP Footages From Nearest Section Line F L F L		Qtr-Qtr	Section	Township N	Range W County
Bottom Hole Footages From Nearest Section Line F L F L		Qtr-Qtr	Section	Township N	Range W County

Lateral 4

KOP Lateral 4 Feet MD	Azimuth Lateral 4 °	Estimated Total Depth Lateral 4 Feet MD Feet TVD		KOP Coordinates From Well Head From WH From WH	
Formation Entry Point Coordinates From Well Head From WH From WH		Bottom Hole Coordinates From Well Head From WH From WH			
KOP Footages From Nearest Section Line F L F L		Qtr-Qtr	Section	Township N	Range W County
Bottom Hole Footages From Nearest Section Line F L F L		Qtr-Qtr	Section	Township N	Range W County

Lateral 5

KOP Lateral 5 Feet MD	Azimuth Lateral 5 °	Estimated Total Depth Lateral 5 Feet MD Feet TVD		KOP Coordinates From Well Head From WH From WH	
Formation Entry Point Coordinates From Well Head From WH From WH		Bottom Hole Coordinates From Well Head From WH From WH			
KOP Footages From Nearest Section Line F L F L		Qtr-Qtr	Section	Township N	Range W County
Bottom Hole Footages From Nearest Section Line F L F L		Qtr-Qtr	Section	Township N	Range W County

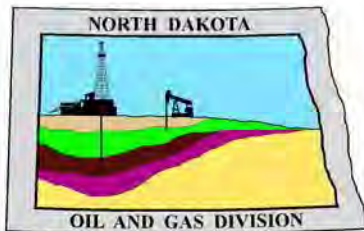
I hereby swear or affirm the information provided is true, complete and correct as determined from all available records.		Date 2 / 25 / 2014
ePermit	Printed Name Barbara Griswold	Title Regulatory Specialist

FOR STATE USE ONLY

Permit and File Number 28525	API Number 33 - 061 - 03135
Field PARSHALL	
Pool BAKKEN	Permit Type DEVELOPMENT

FOR STATE USE ONLY

Date Approved 6 / 3 / 2014
By Alice Webber
Title Engineering Tech



Oil and Gas Division

Lynn D. Helms - Director Bruce E. Hicks - Assistant Director

Department of Mineral Resources

Lynn D. Helms - Director

North Dakota Industrial Commission

www.oilgas.nd.gov

April 9, 2014

**RE: Filter Socks and Other Filter Media
Leakproof Container Required
Oil and Gas Wells**

Dear Operator,

North Dakota Administrative Code Section 43-02-03-19.2 states in part that all waste material associated with exploration or production of oil and gas must be properly disposed of in an authorized facility in accord with all applicable local, state, and federal laws and regulations.

Filtration systems are commonly used during oil and gas operations in North Dakota. The Commission is very concerned about the proper disposal of used filters (including filter socks) used by the oil and gas industry.

Effective June 1, 2014, a container must be maintained on each well drilled in North Dakota beginning when the well is spud and must remain on-site during clean-out, completion, and flow-back whenever filtration operations are conducted. The on-site container must be used to store filters until they can be properly disposed of in an authorized facility. Such containers must be:

- leakproof to prevent any fluids from escaping the container
- covered to prevent precipitation from entering the container
- placard to indicate only filters are to be placed in the container

If the operator will not utilize a filtration system, a waiver to the container requirement will be considered, but only upon the operator submitting a Sundry Notice (Form 4) justifying their request.

As previously stated in our March 13, 2014 letter, North Dakota Administrative Code Section 33-20-02.1-01 states in part that every person who transports solid waste (which includes oil and gas exploration and production wastes) is required to have a valid permit issued by the North Dakota Department of Health, Division of Waste Management. Please contact the Division of Waste Management at (701) 328-5166 with any questions on the solid waste program. Note oil and gas exploration and production wastes include produced water, drilling mud, invert mud, tank bottom sediment, pipe scale, filters, and fly ash.

Thank you for your cooperation.

Sincerely,

Bruce E. Hicks

Assistant Director

WELL LOCATION PLAT

EOG Resources, Inc.
600 Seventeenth Street, Suite 1100 N Denver, Colorado 80202-1100
Parshall 58-1608H

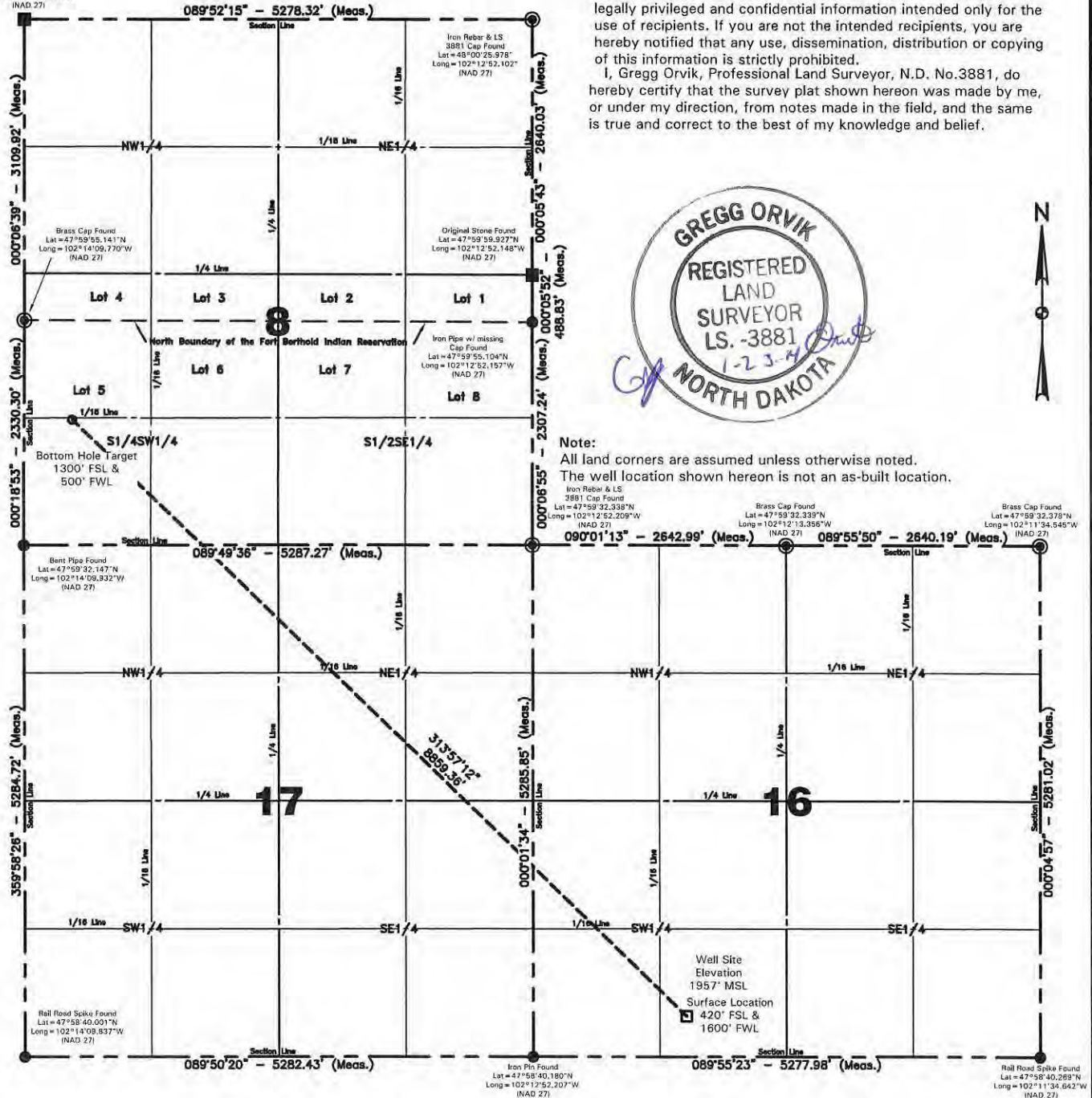
420 feet from the south line and 1600 feet from the west line (surface location)
Section 16, T. 152 N., R. 90 W., 5th P.M.
1300 feet from the south line and 500 feet from the west line (bottom hole location)
Section 8, T. 152 N., R. 90 W., 5th P.M.
Mountrail County, North Dakota

Surface owner @ well site - James & Cora Klesalek
Latitude 47°58'44.353" North; Longitude 102°12'28.692" West (NAD 27 surface location)
Latitude 47°58'44.353" North; Longitude 102°12'28.692" West (NAD 27 surface location)
Latitude 47°59'44.992" North; Longitude 102°14'02.490" West (NAD 27 bottom location)
Latitude 47°59'44.992" North; Longitude 102°14'02.490" West (NAD 27 bottom location)
Latitude 47°58'44.402" North; Longitude 102°12'30.306" West (NAD 83 surface location)
Latitude 47°58'44.402" North; Longitude 102°12'30.306" West (NAD 83 surface location)
Latitude 47°59'45.043" North; Longitude 102°14'04.105" West (NAD 83 bottom location)
Latitude 47°59'45.043" North; Longitude 102°14'04.105" West (NAD 83 bottom location)
Latitude 47°59'45.043" North; Longitude 102°14'04.105" West (NAD 83 bottom location)
Latitude 47°59'45.043" North; Longitude 102°14'04.105" West (NAD 83 bottom location)
[Derived from OPUS Solution NAD-83(CORS96) Converted to NAD-27]

Original Stone & Rebar
w/ 3881 Cap Found
Lat = 47°59'55.141"N
Long = 102°14'09.770"W
(NAD 27)


Confidentiality Notice: The information contained on this plat is legally privileged and confidential information intended only for the use of recipients. If you are not the intended recipients, you are hereby notified that any use, dissemination, distribution or copying of this information is strictly prohibited.

I, Gregg Orvik, Professional Land Surveyor, N.D. No.3881, do hereby certify that the survey plat shown hereon was made by me, or under my direction, from notes made in the field, and the same is true and correct to the best of my knowledge and belief.



Computed & Drawn By J.B./C.W./A.R.	Surveyed By B. Sherlock	Approved By G. Orvik	Scale 1"=1600'	Date 11/12/2013
Field Book Minot OW#43/45	Material Well Location	Revised 01/13/2014	Project No. 7713187	Drawing No. —



Well Name:	Parshall 58-1608H	11/26/2013
		

Ground Elevation	1957
KB Stoneham 17	26.0
RKB Elevation	1983

Prognosis Formation Tops		
Name	Vertical Subsea	TVD-RKB
Pierre Shale	301	1682
Greenhorn	-1963	3946
Dakota Sand	-2711	4694
Base Dakota	-3035	5018
Piper Lime	-3731	5714
Dunham Salt	-3856	5839
Spearfish	-4020	6003
Minnelusa	-4525	6508
Kibbey Lime	-5161	7144
Charles	-5395	7378
Base Last Salt	-5760	7743
Mission Canyon	-5943	7926
Lodgepole	-6540	8523
3rd Shale Marker	-7262	9245
False Bakken	-7282	9265
Scallion	-7288	9271
Upper Bakken Shale	-7300	9283
Middle Bakken Target	-7318	9301
Lower Bakken Shale (estimated)	-7354	9337
Three Forks (estimated)	-7385	9368

ATTACHMENT "A"

COMMENTS, ADDITIONAL INFORMATION, AND/OR LIST OF ATTACHMENTS

Parshall 58-1608H

Surface casing cement:

Lead - 373 sx; 11.80 ppg; 2.66 cf/sx
Tail - 270 sx; 14.80 ppg; 1.34 cf/sx

Long string cement:

Lead - 110 sx; 11.80 ppg; 2.56 cf/sx
Tail - 552 sx; 14.00 ppg; 1.40 cf/sx

Production liner cement:

Tail - 527 sx; 13.50 ppg; 1.77 cf/sx

Surface hole mud:

8.5 - 9.2 ppg freshwater-based mud

Intermediate hole mud:

9.4 - 10.7 ppg invert oil-based mud

Production hole mud:

8.3 - 10.0 ppg brine

** Plan to switch to OBM with weight over 10.0 ppg in the event
higher than expected pressures are encountered

Production Liner:

The 4-1/2" production liner is 11.6 lb/ft, Grade HCP-110 with LT&C connections. The liner is run to within 10' of total depth of the lateral and the liner hanger is set at the Kick Off Point of the lateral. The liner will be cemented from TD to the liner hanger and completed using plug & perf techniques with intervals of approximately 200' - 250'.

Per Fish & Wildlife:

The proposed Parshall 58-1608H is not located within a Fish & Wildlife easement.

Pursuant to revised rule 43-02-03-16 an address was requested and designated for the subject well: 7651 39th Street NW, Parshall, ND 58770

STATE OF Colorado)
) §
COUNTY OF Denver)

WHEREAS, EOG has applied to the NDIC for permits to drill the Parshall 38-1608H, Parshall 39-1608H, Parshall 147-1608H, Parshall 58-1608H, Parshall 59-1608H and Parshall 151-1608H wells (subject wells).

WHEREAS, EOG utilizes hydraulic fracturing techniques to complete drilled oil and gas wells.

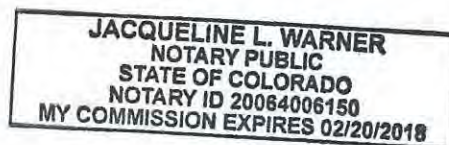
NOW THEREFORE, I hereby affirm that EOG does not utilize diesel fuel, as defined, in fluids used for underground hydraulic fracturing; no diesel fuel will be used in hydraulic fracturing of the subject wells.

By: 
David Campbell, Division Completions Manager

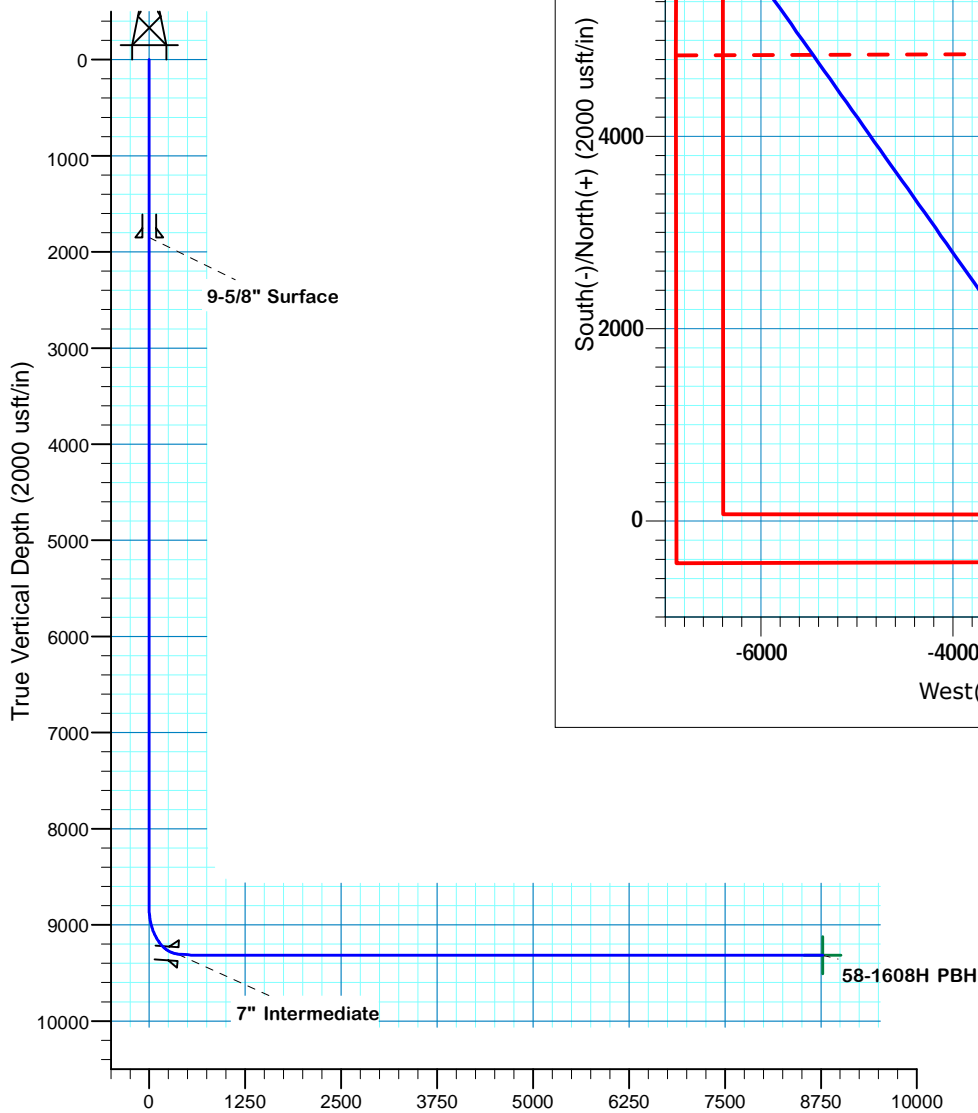
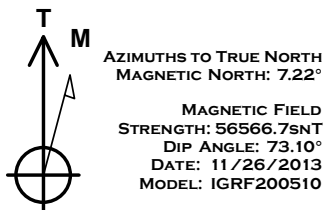
The foregoing instrument was acknowledged before me this 7th day of March, 2014 by David Campbell, as Division Completions Manager on behalf of EOG Resources, Inc.

Jacqueline L. Warner
Notary Public

My Commission Expires: 2/20/18

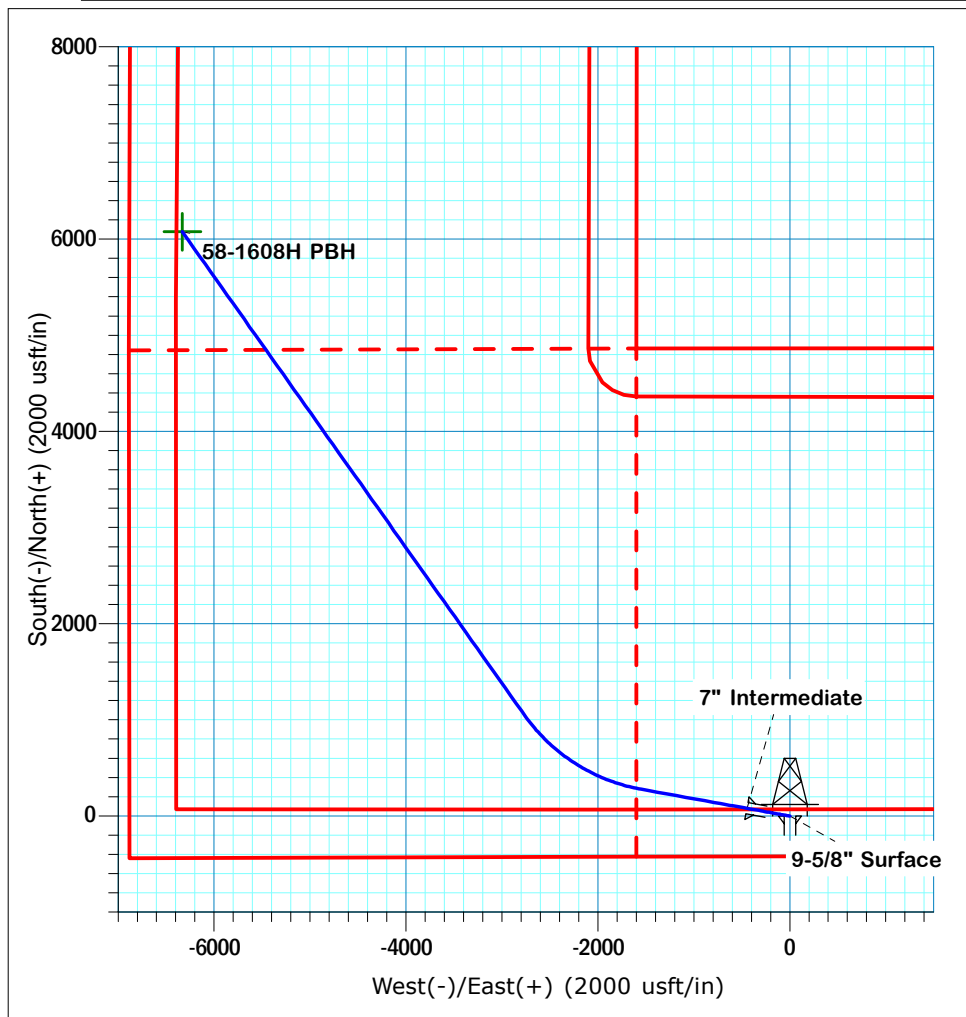


58-1608H (New SHL) Section 16 T152N R90W Mountrail County, ND



Vertical Section at 313.83° (2500 usft/in)

Surface Location			
NAD 1927 (NADCON CONUS)		North Dakota North 3301	
Ground Elevation: 1957.0 WELL @ 1983.0usft (Original Well Elev)			
Northing	Easting	Latitude	Longitude
361738.42	1581709.48	47° 58' 44.353 N	102° 12' 28.692 W



Project: Williston Basin - Parshall Field
Site: Parshall
Well: 58-1608H (New SHL)
Plan: APD Directional Plan
Planner: M.Thompson

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Annotation
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	8827.2	0.00	0.00	8827.2	0.0	0.0	0.00	0.00	0.0	
3	9552.2	87.00	280.20	9304.0	80.1	-445.3	12.00	280.20	376.7	7" Csg Pt. - 9552' MD/ 9304' TVD - 87 deg inc
4	9732.2	87.00	280.20	9313.4	112.0	-622.2	0.00	0.00	526.4	
5	9832.2	90.00	280.20	9316.0	129.7	-720.6	3.00	0.00	609.6	
6	10672.2	90.00	280.20	9316.0	278.4	-1547.3	0.00	0.00	1309.0	
7	12154.1	90.00	324.66	9316.0	1053.3	-2767.0	3.00	90.00	2725.5	
8	18312.6	90.00	324.66	9316.0	6076.8	-6329.4	0.00	0.00	8774.4	TD at 18313' MD/ 9316' TVD

TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
58-1608H PBH	9316.0	6076.8	-6329.4	367954.14	1575516.38	47° 59' 44.316 N	102° 14' 1.754 W	Point

Denver Division- North Dakota

Williston Basin - Parshall Field

Parshall

58-1608H (New SHL)

Wellbore #1

Plan: APD Directional Plan

Standard Planning Report

07 February, 2014

EOG Resources, Inc.

Planning Report

Database:	edm	Local Co-ordinate Reference:	Well 58-1608H (New SHL)
Company:	Denver Division- North Dakota	TVD Reference:	WELL @ 1983.0usft (Original Well Elev)
Project:	Williston Basin - Parshall Field	MD Reference:	WELL @ 1983.0usft (Original Well Elev)
Site:	Parshall	North Reference:	True
Well:	58-1608H (New SHL)	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	APD Directional Plan		

Project	Williston Basin - Parshall Field, Mountrail County		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	North Dakota North 3301		

Site		Parshall			
Site Position:		Northing:	378,031.81 usft	Latitude:	48° 1' 26.570 N
From:	Lat/Long	Easting:	1,588,402.53 usft	Longitude:	102° 10' 55.570 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16"	Grid Convergence:	-1.25 °

Well	58-1608H (New SHL)					
Well Position	+N/-S	-16,435.7 usft	Northing:	361,738.42 usft	Latitude:	47° 58' 44.353 N
	+E/-W	-6,335.5 usft	Easting:	1,581,709.48 usft	Longitude:	102° 12' 28.692 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	usft	Ground Level:	1,957.0 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	11/26/2013	7.22	73.10	56,567

Design	APD Directional Plan			
Audit Notes:				
Version:	Phase:	PROTOTYPE	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	313.83

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
8,827.2	0.00	0.00	8,827.2	0.0	0.0	0.00	0.00	0.00	0.00	
9,552.2	87.00	280.20	9,304.0	80.1	-445.3	12.00	12.00	0.00	280.20	
9,732.2	87.00	280.20	9,313.4	112.0	-622.2	0.00	0.00	0.00	0.00	
9,832.2	90.00	280.20	9,316.0	129.7	-720.6	3.00	3.00	0.00	0.00	
10,672.2	90.00	280.20	9,316.0	278.4	-1,547.3	0.00	0.00	0.00	0.00	
12,154.1	90.00	324.66	9,316.0	1,053.3	-2,767.0	3.00	0.00	3.00	90.00	58-1608H PBH
18,312.6	90.00	324.66	9,316.0	6,076.8	-6,329.4	0.00	0.00	0.00	0.00	58-1608H PBH

EOG Resources, Inc.

Planning Report

Database:	edm	Local Co-ordinate Reference:	Well 58-1608H (New SHL)
Company:	Denver Division- North Dakota	TVD Reference:	WELL @ 1983.0usft (Original Well Elev)
Project:	Williston Basin - Parshall Field	MD Reference:	WELL @ 1983.0usft (Original Well Elev)
Site:	Parshall	North Reference:	True
Well:	58-1608H (New SHL)	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	APD Directional Plan		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	0.00
1,682.0	0.00	0.00	1,682.0	0.0	0.0	0.0	0.00	0.00	0.00
Pierre Shale									
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	0.00
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	0.00
1,850.0	0.00	0.00	1,850.0	0.0	0.0	0.0	0.00	0.00	0.00
9-5/8" Surface									
1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	0.00	0.00
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.0	0.00	0.00	0.00
2,100.0	0.00	0.00	2,100.0	0.0	0.0	0.0	0.00	0.00	0.00
2,200.0	0.00	0.00	2,200.0	0.0	0.0	0.0	0.00	0.00	0.00
2,300.0	0.00	0.00	2,300.0	0.0	0.0	0.0	0.00	0.00	0.00
2,400.0	0.00	0.00	2,400.0	0.0	0.0	0.0	0.00	0.00	0.00
2,500.0	0.00	0.00	2,500.0	0.0	0.0	0.0	0.00	0.00	0.00
2,600.0	0.00	0.00	2,600.0	0.0	0.0	0.0	0.00	0.00	0.00
2,700.0	0.00	0.00	2,700.0	0.0	0.0	0.0	0.00	0.00	0.00
2,800.0	0.00	0.00	2,800.0	0.0	0.0	0.0	0.00	0.00	0.00
2,900.0	0.00	0.00	2,900.0	0.0	0.0	0.0	0.00	0.00	0.00
3,000.0	0.00	0.00	3,000.0	0.0	0.0	0.0	0.00	0.00	0.00
3,100.0	0.00	0.00	3,100.0	0.0	0.0	0.0	0.00	0.00	0.00
3,200.0	0.00	0.00	3,200.0	0.0	0.0	0.0	0.00	0.00	0.00
3,300.0	0.00	0.00	3,300.0	0.0	0.0	0.0	0.00	0.00	0.00
3,400.0	0.00	0.00	3,400.0	0.0	0.0	0.0	0.00	0.00	0.00
3,500.0	0.00	0.00	3,500.0	0.0	0.0	0.0	0.00	0.00	0.00
3,600.0	0.00	0.00	3,600.0	0.0	0.0	0.0	0.00	0.00	0.00
3,700.0	0.00	0.00	3,700.0	0.0	0.0	0.0	0.00	0.00	0.00
3,800.0	0.00	0.00	3,800.0	0.0	0.0	0.0	0.00	0.00	0.00
3,900.0	0.00	0.00	3,900.0	0.0	0.0	0.0	0.00	0.00	0.00
3,946.0	0.00	0.00	3,946.0	0.0	0.0	0.0	0.00	0.00	0.00
Greenhorn									
4,000.0	0.00	0.00	4,000.0	0.0	0.0	0.0	0.00	0.00	0.00
4,100.0	0.00	0.00	4,100.0	0.0	0.0	0.0	0.00	0.00	0.00
4,200.0	0.00	0.00	4,200.0	0.0	0.0	0.0	0.00	0.00	0.00
4,300.0	0.00	0.00	4,300.0	0.0	0.0	0.0	0.00	0.00	0.00
4,400.0	0.00	0.00	4,400.0	0.0	0.0	0.0	0.00	0.00	0.00
4,500.0	0.00	0.00	4,500.0	0.0	0.0	0.0	0.00	0.00	0.00
4,600.0	0.00	0.00	4,600.0	0.0	0.0	0.0	0.00	0.00	0.00

EOG Resources, Inc.

Planning Report

Database:	edm	Local Co-ordinate Reference:	Well 58-1608H (New SHL)
Company:	Denver Division- North Dakota	TVD Reference:	WELL @ 1983.0usft (Original Well Elev)
Project:	Williston Basin - Parshall Field	MD Reference:	WELL @ 1983.0usft (Original Well Elev)
Site:	Parshall	North Reference:	True
Well:	58-1608H (New SHL)	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	APD Directional Plan		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
4,694.0	0.00	0.00	4,694.0	0.0	0.0	0.0	0.00	0.00	0.00	
Dakota Sand										
4,700.0	0.00	0.00	4,700.0	0.0	0.0	0.0	0.00	0.00	0.00	
4,800.0	0.00	0.00	4,800.0	0.0	0.0	0.0	0.00	0.00	0.00	
4,900.0	0.00	0.00	4,900.0	0.0	0.0	0.0	0.00	0.00	0.00	
5,000.0	0.00	0.00	5,000.0	0.0	0.0	0.0	0.00	0.00	0.00	
5,018.0	0.00	0.00	5,018.0	0.0	0.0	0.0	0.00	0.00	0.00	
Base Dakota										
5,100.0	0.00	0.00	5,100.0	0.0	0.0	0.0	0.00	0.00	0.00	
5,200.0	0.00	0.00	5,200.0	0.0	0.0	0.0	0.00	0.00	0.00	
5,300.0	0.00	0.00	5,300.0	0.0	0.0	0.0	0.00	0.00	0.00	
5,400.0	0.00	0.00	5,400.0	0.0	0.0	0.0	0.00	0.00	0.00	
5,500.0	0.00	0.00	5,500.0	0.0	0.0	0.0	0.00	0.00	0.00	
5,600.0	0.00	0.00	5,600.0	0.0	0.0	0.0	0.00	0.00	0.00	
5,700.0	0.00	0.00	5,700.0	0.0	0.0	0.0	0.00	0.00	0.00	
5,714.0	0.00	0.00	5,714.0	0.0	0.0	0.0	0.00	0.00	0.00	
Piper Lime										
5,800.0	0.00	0.00	5,800.0	0.0	0.0	0.0	0.00	0.00	0.00	
5,839.0	0.00	0.00	5,839.0	0.0	0.0	0.0	0.00	0.00	0.00	
Dunham Salt										
5,900.0	0.00	0.00	5,900.0	0.0	0.0	0.0	0.00	0.00	0.00	
6,000.0	0.00	0.00	6,000.0	0.0	0.0	0.0	0.00	0.00	0.00	
6,003.0	0.00	0.00	6,003.0	0.0	0.0	0.0	0.00	0.00	0.00	
Spearfish										
6,100.0	0.00	0.00	6,100.0	0.0	0.0	0.0	0.00	0.00	0.00	
6,200.0	0.00	0.00	6,200.0	0.0	0.0	0.0	0.00	0.00	0.00	
6,300.0	0.00	0.00	6,300.0	0.0	0.0	0.0	0.00	0.00	0.00	
6,400.0	0.00	0.00	6,400.0	0.0	0.0	0.0	0.00	0.00	0.00	
6,500.0	0.00	0.00	6,500.0	0.0	0.0	0.0	0.00	0.00	0.00	
6,508.0	0.00	0.00	6,508.0	0.0	0.0	0.0	0.00	0.00	0.00	
Minnelusa										
6,600.0	0.00	0.00	6,600.0	0.0	0.0	0.0	0.00	0.00	0.00	
6,700.0	0.00	0.00	6,700.0	0.0	0.0	0.0	0.00	0.00	0.00	
6,800.0	0.00	0.00	6,800.0	0.0	0.0	0.0	0.00	0.00	0.00	
6,900.0	0.00	0.00	6,900.0	0.0	0.0	0.0	0.00	0.00	0.00	
7,000.0	0.00	0.00	7,000.0	0.0	0.0	0.0	0.00	0.00	0.00	
7,100.0	0.00	0.00	7,100.0	0.0	0.0	0.0	0.00	0.00	0.00	
7,144.0	0.00	0.00	7,144.0	0.0	0.0	0.0	0.00	0.00	0.00	
Kibbey Lime										
7,200.0	0.00	0.00	7,200.0	0.0	0.0	0.0	0.00	0.00	0.00	
7,300.0	0.00	0.00	7,300.0	0.0	0.0	0.0	0.00	0.00	0.00	
7,378.0	0.00	0.00	7,378.0	0.0	0.0	0.0	0.00	0.00	0.00	
Charles										
7,400.0	0.00	0.00	7,400.0	0.0	0.0	0.0	0.00	0.00	0.00	
7,500.0	0.00	0.00	7,500.0	0.0	0.0	0.0	0.00	0.00	0.00	
7,600.0	0.00	0.00	7,600.0	0.0	0.0	0.0	0.00	0.00	0.00	
7,700.0	0.00	0.00	7,700.0	0.0	0.0	0.0	0.00	0.00	0.00	
7,743.0	0.00	0.00	7,743.0	0.0	0.0	0.0	0.00	0.00	0.00	
Base Last Salt										
7,800.0	0.00	0.00	7,800.0	0.0	0.0	0.0	0.00	0.00	0.00	
7,900.0	0.00	0.00	7,900.0	0.0	0.0	0.0	0.00	0.00	0.00	
7,926.0	0.00	0.00	7,926.0	0.0	0.0	0.0	0.00	0.00	0.00	
Mission Canyon										

EOG Resources, Inc.

Planning Report

Database:	edm	Local Co-ordinate Reference:	Well 58-1608H (New SHL)
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Project:	Williston Basin - Parshall Field	MD Reference:	WELL @ 1983.0usft (Original Well Elev)
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Wellbore:	Wellbore #1		
Design:	APD Directional Plan		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
8,000.0	0.00	0.00	8,000.0	0.0	0.0	0.0	0.00	0.00	0.00
8,100.0	0.00	0.00	8,100.0	0.0	0.0	0.0	0.00	0.00	0.00
8,200.0	0.00	0.00	8,200.0	0.0	0.0	0.0	0.00	0.00	0.00
8,300.0	0.00	0.00	8,300.0	0.0	0.0	0.0	0.00	0.00	0.00
8,400.0	0.00	0.00	8,400.0	0.0	0.0	0.0	0.00	0.00	0.00
8,500.0	0.00	0.00	8,500.0	0.0	0.0	0.0	0.00	0.00	0.00
8,523.0	0.00	0.00	8,523.0	0.0	0.0	0.0	0.00	0.00	0.00
Lodgepole									
8,600.0	0.00	0.00	8,600.0	0.0	0.0	0.0	0.00	0.00	0.00
8,700.0	0.00	0.00	8,700.0	0.0	0.0	0.0	0.00	0.00	0.00
8,800.0	0.00	0.00	8,800.0	0.0	0.0	0.0	0.00	0.00	0.00
8,827.2	0.00	0.00	8,827.2	0.0	0.0	0.0	0.00	0.00	0.00
8,900.0	8.74	280.20	8,899.7	1.0	-5.5	4.6	12.00	12.00	0.00
9,000.0	20.74	280.20	8,996.3	5.5	-30.4	25.8	12.00	12.00	0.00
9,100.0	32.74	280.20	9,085.4	13.4	-74.6	63.1	12.00	12.00	0.00
9,200.0	44.74	280.20	9,163.3	24.5	-136.1	115.1	12.00	12.00	0.00
9,300.0	56.74	280.20	9,226.4	38.2	-212.2	179.5	12.00	12.00	0.00
9,335.9	61.05	280.20	9,245.0	43.6	-242.5	205.1	12.00	12.00	0.00
3rd Shale Marker									
9,381.2	66.48	280.20	9,265.0	50.8	-282.4	238.9	12.00	12.00	0.00
False Bakken									
9,396.8	68.36	280.20	9,271.0	53.4	-296.6	250.9	12.00	12.00	0.00
Scallion									
9,400.0	68.74	280.20	9,272.2	53.9	-299.5	253.4	12.00	12.00	0.00
9,432.8	72.67	280.20	9,283.0	59.4	-330.0	279.1	12.00	12.00	0.00
Upper Bakken Shale									
9,500.0	80.74	280.20	9,298.4	70.9	-394.3	333.5	12.00	12.00	0.00
9,518.0	82.90	280.20	9,301.0	74.1	-411.8	348.4	12.00	12.00	0.00
Middle Bakken									
9,552.2	87.00	280.20	9,304.0	80.1	-445.3	376.7	12.00	12.00	0.00
7" Csg Pt. - 9552' MD/ 9304' TVD - 87 deg inc - 7" Intermediate									
9,600.0	87.00	280.20	9,306.5	88.6	-492.3	416.5	0.00	0.00	0.00
9,685.8	87.00	280.20	9,311.0	103.7	-576.6	487.8	0.00	0.00	0.00
Gamma Ray Marker									
9,700.0	87.00	280.20	9,311.7	106.3	-590.6	499.6	0.00	0.00	0.00
9,732.2	87.00	280.20	9,313.4	112.0	-622.2	526.4	0.00	0.00	0.00
9,800.0	89.03	280.20	9,315.8	124.0	-688.9	582.8	3.00	3.00	0.00
9,832.2	90.00	280.20	9,316.0	129.7	-720.6	609.6	3.00	3.00	0.00
9,900.0	90.00	280.20	9,316.0	141.7	-787.3	666.1	0.00	0.00	0.00
10,000.0	90.00	280.20	9,316.0	159.4	-885.8	749.3	0.00	0.00	0.00
10,100.0	90.00	280.20	9,316.0	177.1	-984.2	832.6	0.00	0.00	0.00
10,200.0	90.00	280.20	9,316.0	194.8	-1,082.6	915.8	0.00	0.00	0.00
10,300.0	90.00	280.20	9,316.0	212.5	-1,181.0	999.1	0.00	0.00	0.00
10,400.0	90.00	280.20	9,316.0	230.2	-1,279.4	1,082.4	0.00	0.00	0.00
10,500.0	90.00	280.20	9,316.0	247.9	-1,377.9	1,165.6	0.00	0.00	0.00
10,600.0	90.00	280.20	9,316.0	265.6	-1,476.3	1,248.9	0.00	0.00	0.00
10,672.2	90.00	280.20	9,316.0	278.4	-1,547.3	1,309.0	0.00	0.00	0.00
10,700.0	90.00	281.03	9,316.0	283.5	-1,574.7	1,332.3	3.00	0.00	3.00
10,800.0	90.00	284.03	9,316.0	305.2	-1,672.3	1,417.7	3.00	0.00	3.00
10,900.0	90.00	287.03	9,316.0	332.0	-1,768.6	1,505.7	3.00	0.00	3.00
11,000.0	90.00	290.03	9,316.0	363.8	-1,863.4	1,596.1	3.00	0.00	3.00
11,100.0	90.00	293.03	9,316.0	400.5	-1,956.4	1,688.6	3.00	0.00	3.00
11,200.0	90.00	296.03	9,316.0	442.0	-2,047.4	1,783.0	3.00	0.00	3.00

EOG Resources, Inc.

Planning Report

Database:	edm	Local Co-ordinate Reference:	Well 58-1608H (New SHL)
Company:	Denver Division- North Dakota	TVD Reference:	WELL @ 1983.0usft (Original Well Elev)
Project:	Williston Basin - Parshall Field	MD Reference:	WELL @ 1983.0usft (Original Well Elev)
Site:	Parshall	North Reference:	True
Well:	58-1608H (New SHL)	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	APD Directional Plan		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
11,300.0	90.00	299.03	9,316.0	488.2	-2,136.0	1,879.0	3.00	0.00	3.00
11,400.0	90.00	302.03	9,316.0	539.0	-2,222.2	1,976.3	3.00	0.00	3.00
11,500.0	90.00	305.03	9,316.0	594.3	-2,305.5	2,074.7	3.00	0.00	3.00
11,600.0	90.00	308.03	9,316.0	653.8	-2,385.8	2,173.8	3.00	0.00	3.00
11,700.0	90.00	311.03	9,316.0	717.4	-2,463.0	2,273.5	3.00	0.00	3.00
11,800.0	90.00	314.03	9,316.0	785.0	-2,536.6	2,373.5	3.00	0.00	3.00
11,900.0	90.00	317.03	9,316.0	856.4	-2,606.7	2,473.5	3.00	0.00	3.00
12,000.0	90.00	320.03	9,316.0	931.3	-2,672.9	2,573.1	3.00	0.00	3.00
12,100.0	90.00	323.03	9,316.0	1,009.6	-2,735.1	2,672.2	3.00	0.00	3.00
12,154.1	90.00	324.66	9,316.0	1,053.3	-2,767.0	2,725.5	3.00	0.00	3.00
12,200.0	90.00	324.66	9,316.0	1,090.7	-2,793.6	2,770.6	0.00	0.00	0.00
12,300.0	90.00	324.66	9,316.0	1,172.3	-2,851.4	2,868.8	0.00	0.00	0.00
12,400.0	90.00	324.66	9,316.0	1,253.9	-2,909.3	2,967.0	0.00	0.00	0.00
12,500.0	90.00	324.66	9,316.0	1,335.4	-2,967.1	3,065.2	0.00	0.00	0.00
12,600.0	90.00	324.66	9,316.0	1,417.0	-3,024.9	3,163.4	0.00	0.00	0.00
12,700.0	90.00	324.66	9,316.0	1,498.6	-3,082.8	3,261.7	0.00	0.00	0.00
12,800.0	90.00	324.66	9,316.0	1,580.2	-3,140.6	3,359.9	0.00	0.00	0.00
12,900.0	90.00	324.66	9,316.0	1,661.7	-3,198.5	3,458.1	0.00	0.00	0.00
13,000.0	90.00	324.66	9,316.0	1,743.3	-3,256.3	3,556.3	0.00	0.00	0.00
13,100.0	90.00	324.66	9,316.0	1,824.9	-3,314.2	3,654.5	0.00	0.00	0.00
13,200.0	90.00	324.66	9,316.0	1,906.4	-3,372.0	3,752.8	0.00	0.00	0.00
13,300.0	90.00	324.66	9,316.0	1,988.0	-3,429.9	3,851.0	0.00	0.00	0.00
13,400.0	90.00	324.66	9,316.0	2,069.6	-3,487.7	3,949.2	0.00	0.00	0.00
13,500.0	90.00	324.66	9,316.0	2,151.2	-3,545.6	4,047.4	0.00	0.00	0.00
13,600.0	90.00	324.66	9,316.0	2,232.7	-3,603.4	4,145.6	0.00	0.00	0.00
13,700.0	90.00	324.66	9,316.0	2,314.3	-3,661.3	4,243.9	0.00	0.00	0.00
13,800.0	90.00	324.66	9,316.0	2,395.9	-3,719.1	4,342.1	0.00	0.00	0.00
13,900.0	90.00	324.66	9,316.0	2,477.4	-3,776.9	4,440.3	0.00	0.00	0.00
14,000.0	90.00	324.66	9,316.0	2,559.0	-3,834.8	4,538.5	0.00	0.00	0.00
14,100.0	90.00	324.66	9,316.0	2,640.6	-3,892.6	4,636.7	0.00	0.00	0.00
14,200.0	90.00	324.66	9,316.0	2,722.2	-3,950.5	4,735.0	0.00	0.00	0.00
14,300.0	90.00	324.66	9,316.0	2,803.7	-4,008.3	4,833.2	0.00	0.00	0.00
14,400.0	90.00	324.66	9,316.0	2,885.3	-4,066.2	4,931.4	0.00	0.00	0.00
14,500.0	90.00	324.66	9,316.0	2,966.9	-4,124.0	5,029.6	0.00	0.00	0.00
14,600.0	90.00	324.66	9,316.0	3,048.4	-4,181.9	5,127.9	0.00	0.00	0.00
14,700.0	90.00	324.66	9,316.0	3,130.0	-4,239.7	5,226.1	0.00	0.00	0.00
14,800.0	90.00	324.66	9,316.0	3,211.6	-4,297.6	5,324.3	0.00	0.00	0.00
14,900.0	90.00	324.66	9,316.0	3,293.1	-4,355.4	5,422.5	0.00	0.00	0.00
15,000.0	90.00	324.66	9,316.0	3,374.7	-4,413.2	5,520.7	0.00	0.00	0.00
15,100.0	90.00	324.66	9,316.0	3,456.3	-4,471.1	5,619.0	0.00	0.00	0.00
15,200.0	90.00	324.66	9,316.0	3,537.9	-4,528.9	5,717.2	0.00	0.00	0.00
15,300.0	90.00	324.66	9,316.0	3,619.4	-4,586.8	5,815.4	0.00	0.00	0.00
15,400.0	90.00	324.66	9,316.0	3,701.0	-4,644.6	5,913.6	0.00	0.00	0.00
15,500.0	90.00	324.66	9,316.0	3,782.6	-4,702.5	6,011.8	0.00	0.00	0.00
15,600.0	90.00	324.66	9,316.0	3,864.1	-4,760.3	6,110.1	0.00	0.00	0.00
15,700.0	90.00	324.66	9,316.0	3,945.7	-4,818.2	6,208.3	0.00	0.00	0.00
15,800.0	90.00	324.66	9,316.0	4,027.3	-4,876.0	6,306.5	0.00	0.00	0.00
15,900.0	90.00	324.66	9,316.0	4,108.9	-4,933.9	6,404.7	0.00	0.00	0.00
16,000.0	90.00	324.66	9,316.0	4,190.4	-4,991.7	6,502.9	0.00	0.00	0.00
16,100.0	90.00	324.66	9,316.0	4,272.0	-5,049.6	6,601.2	0.00	0.00	0.00
16,200.0	90.00	324.66	9,316.0	4,353.6	-5,107.4	6,699.4	0.00	0.00	0.00
16,300.0	90.00	324.66	9,316.0	4,435.1	-5,165.2	6,797.6	0.00	0.00	0.00
16,400.0	90.00	324.66	9,316.0	4,516.7	-5,223.1	6,895.8	0.00	0.00	0.00
16,500.0	90.00	324.66	9,316.0	4,598.3	-5,280.9	6,994.0	0.00	0.00	0.00

EOG Resources, Inc.

Planning Report

Database:	edm	Local Co-ordinate Reference:	Well 58-1608H (New SHL)
Company:	Denver Division- North Dakota	TVD Reference:	WELL @ 1983.0usft (Original Well Elev)
Project:	Williston Basin - Parshall Field	MD Reference:	WELL @ 1983.0usft (Original Well Elev)
Site:	Parshall	North Reference:	True
Well:	58-1608H (New SHL)	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	APD Directional Plan		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
16,600.0	90.00	324.66	9,316.0	4,679.9	-5,338.8	7,092.3	0.00	0.00	0.00	
16,700.0	90.00	324.66	9,316.0	4,761.4	-5,396.6	7,190.5	0.00	0.00	0.00	
16,800.0	90.00	324.66	9,316.0	4,843.0	-5,454.5	7,288.7	0.00	0.00	0.00	
16,900.0	90.00	324.66	9,316.0	4,924.6	-5,512.3	7,386.9	0.00	0.00	0.00	
17,000.0	90.00	324.66	9,316.0	5,006.1	-5,570.2	7,485.2	0.00	0.00	0.00	
17,100.0	90.00	324.66	9,316.0	5,087.7	-5,628.0	7,583.4	0.00	0.00	0.00	
17,200.0	90.00	324.66	9,316.0	5,169.3	-5,685.9	7,681.6	0.00	0.00	0.00	
17,300.0	90.00	324.66	9,316.0	5,250.9	-5,743.7	7,779.8	0.00	0.00	0.00	
17,400.0	90.00	324.66	9,316.0	5,332.4	-5,801.6	7,878.0	0.00	0.00	0.00	
17,500.0	90.00	324.66	9,316.0	5,414.0	-5,859.4	7,976.3	0.00	0.00	0.00	
17,600.0	90.00	324.66	9,316.0	5,495.6	-5,917.2	8,074.5	0.00	0.00	0.00	
17,700.0	90.00	324.66	9,316.0	5,577.1	-5,975.1	8,172.7	0.00	0.00	0.00	
17,800.0	90.00	324.66	9,316.0	5,658.7	-6,032.9	8,270.9	0.00	0.00	0.00	
17,900.0	90.00	324.66	9,316.0	5,740.3	-6,090.8	8,369.1	0.00	0.00	0.00	
18,000.0	90.00	324.66	9,316.0	5,821.8	-6,148.6	8,467.4	0.00	0.00	0.00	
18,100.0	90.00	324.66	9,316.0	5,903.4	-6,206.5	8,565.6	0.00	0.00	0.00	
18,200.0	90.00	324.66	9,316.0	5,985.0	-6,264.3	8,663.8	0.00	0.00	0.00	
18,300.0	90.00	324.66	9,316.0	6,066.6	-6,322.2	8,762.0	0.00	0.00	0.00	
18,312.6	90.00	324.66	9,316.0	6,076.8	-6,329.4	8,774.4	0.00	0.00	0.00	
TD at 18313' MD/ 9316' TVD - 58-1608H PBH										

Design Targets										
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude	
58-1608H PBH	0.00	0.00	9,316.0	6,076.8	-6,329.4	367,954.14	1,575,516.38	47° 59' 44.316 N	102° 14' 1.754 W	
- hit/miss target										
- Shape										
- plan hits target center										
- Point										

Casing Points					
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")	
9,552.2	9,304.0	7" Intermediate	7	8-3/4	
1,850.0	1,850.0	9-5/8" Surface	9-5/8	13-1/2	

EOG Resources, Inc.

Planning Report

Database:	edm	Local Co-ordinate Reference:	Well 58-1608H (New SHL)
Company:	Denver Division- North Dakota	TVD Reference:	WELL @ 1983.0usft (Original Well Elev)
Project:	Williston Basin - Parshall Field	MD Reference:	WELL @ 1983.0usft (Original Well Elev)
Site:	Parshall	North Reference:	True
Well:	58-1608H (New SHL)	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	APD Directional Plan		

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
1,682.0	1,682.0	Pierre Shale				
3,946.0	3,946.0	Greenhorn				
4,694.0	4,694.0	Dakota Sand				
5,018.0	5,018.0	Base Dakota				
5,714.0	5,714.0	Piper Lime				
5,839.0	5,839.0	Dunham Salt				
6,003.0	6,003.0	Spearfish				
6,508.0	6,508.0	Minnelusa				
7,144.0	7,144.0	Kibbey Lime				
7,378.0	7,378.0	Charles				
7,743.0	7,743.0	Base Last Salt				
7,926.0	7,926.0	Mission Canyon		0.00		
8,523.0	8,523.0	Lodgepole				
9,335.9	9,245.0	3rd Shale Marker				
9,381.2	9,265.0	False Bakken				
9,396.8	9,271.0	Scallion				
9,432.8	9,283.0	Upper Bakken Shale				
9,518.0	9,301.0	Middle Bakken				
9,685.8	9,311.0	Gamma Ray Marker				

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
9,552.2	9,304.0	80.1	-445.3	7" Csg Pt. - 9552' MD/ 9304' TVD - 87 deg inc	
18,312.6	9,316.0	6,076.8	-6,329.4	TD at 18313' MD/ 9316' TVD	

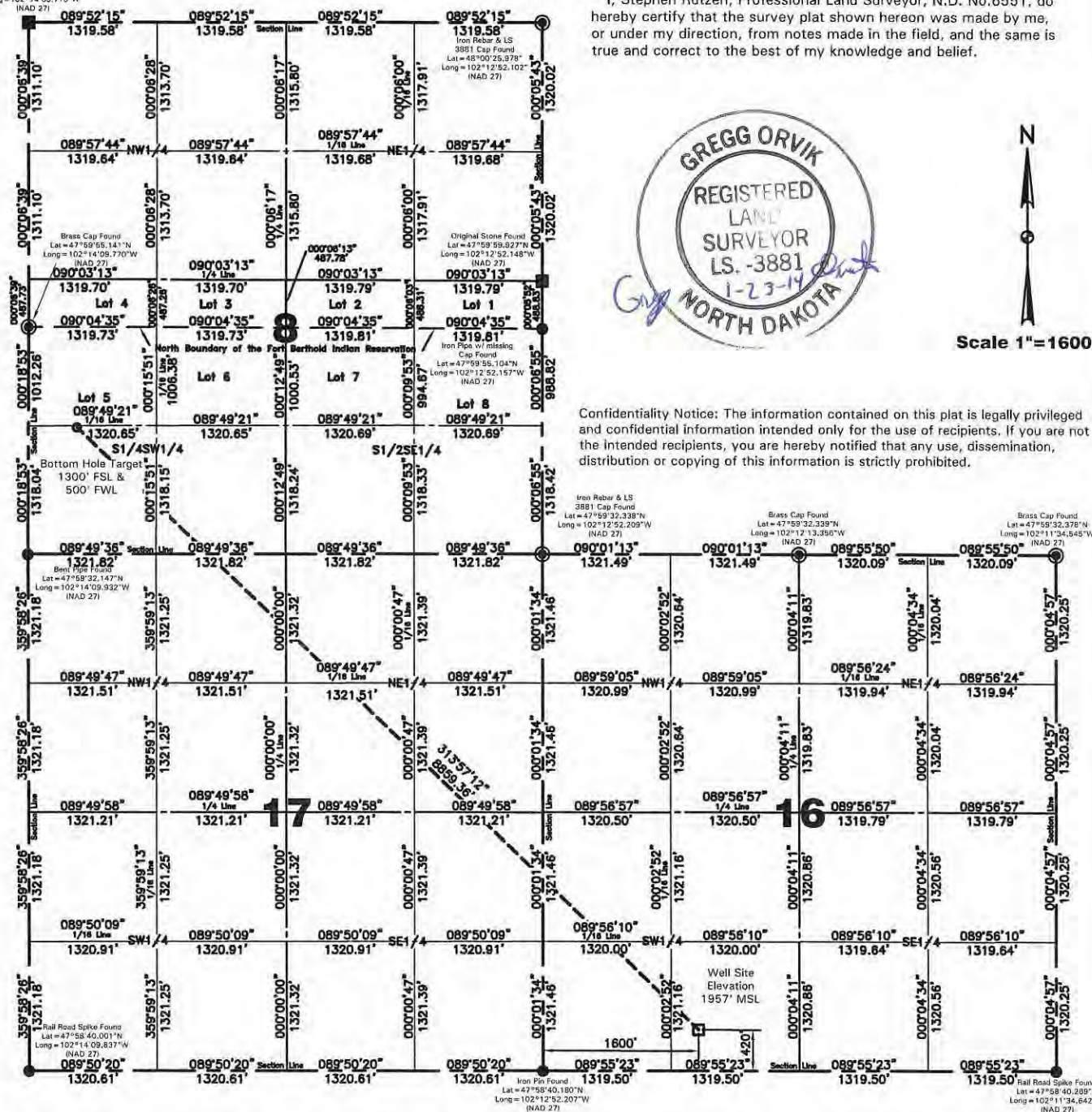
SECTION BREAKDOWN

EOG Resources, Inc.
600 Seventeenth Street, Suite 1100 N Denver, Colorado 80202-1100
Parshall 58-1608H

420 feet from the south line and 1600 feet from the west line (surface location)
Section 16, T. 152 N., R. 90 W., 5th P.M.
1300 feet from the south line and 500 feet from the west line (bottom hole location)
Section 8, T. 152 N., R. 90 W., 5th P.M.
Mountrail County, North Dakota

Original Stone & Rebar
w/ 3881 Cap Found
Lat = 48°00'25.828"N
Long = 102°14'09.716"W
(NAD 27)

I, Stephen Rutzen, Professional Land Surveyor, N.D. No.6551, do hereby certify that the survey plat shown hereon was made by me, or under my direction, from notes made in the field, and the same is true and correct to the best of my knowledge and belief.



Confidentiality Notice: The information contained on this plat is legally privileged and confidential information intended only for the use of recipients. If you are not the intended recipients, you are hereby notified that any use, dissemination, distribution or copying of this information is strictly prohibited.

Brass Cap Found
Lat = 47°59'32.339"N
Long = 102°12'52.148"W
(NAD 27)

Iron Rebar & LS
3881 Cap Found
Lat = 47°59'32.339"N
Long = 102°12'52.209"W
(NAD 27)

Brass Cap Found
Lat = 47°59'32.339"N
Long = 102°12'52.209"W
(NAD 27)

Brass Cap Found
Lat = 47°59'32.339"N
Long = 102°12'52.209"W
(NAD 27)

Brass Cap Found
Lat = 47°59'32.147"N
Long = 102°14'09.932"W
(NAD 27)

Rail Road Spike Found
Lat = 47°58'40.289"N
Long = 102°14'09.837"W
(NAD 27)

Iron Pin Found
Lat = 47°58'40.180"N
Long = 102°12'52.207"W
(NAD 27)

Rail Road Spike Found
Lat = 47°58'40.289"N
Long = 102°14'09.837"W
(NAD 27)

Becky Sherlock
Surveyed By

01/08/2014
Date

Vertical Control Datum Used
North American Vertical Datum 1988 (NAVD 88)

Based on elevation derived from OPUS Solution on GPS*CP
KLJ 1 (iron rebar) Located a distance of 10,666.74' on an
azimuth of 057°06'58" from the northeast corner of Section
8, T. 152N., R. 90W., 5th P.M. being at 1957.97' Elevation
MSL.

Project No. 7713187

Book Minot OW#43/45 Pg. 15-18/22-25 Staking

Professional Consulting Engineers
and Surveyors
Registered in
North Dakota, South Dakota
Montana, Wyoming & Minnesota
Tele-Fax No. 701-838-3578
Bus. Phone No. 701-839-3383
P.O. Box 250
2900 10th Street SW, Suite A
Minot, North Dakota 58702-0250
Certificate of Authorization #C-061

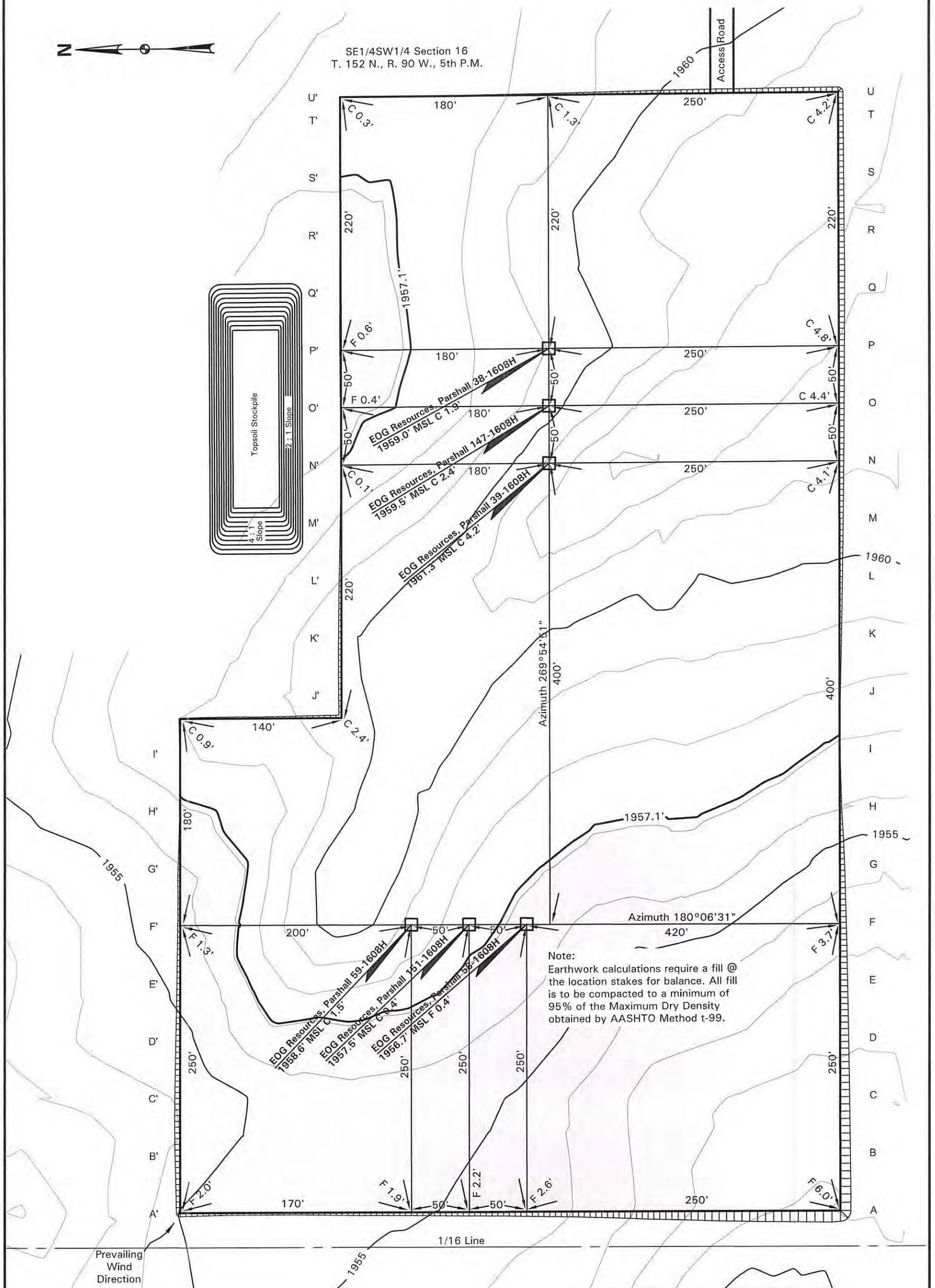
Note:

All corners shown on this plat were found in the field during EOG
Resources, Inc., Parshall 58-1608H oil well survey on January 8, 2014.
Distances to all others are calculated. All azimuths are based on
the south line of Section 16, being on an azimuth of 089°55'23".



Revised: 01/13/2014

Parshall 59-1608H, Parshall 151-1608H, Parshall 58-1608H
Parshall 39-1608H, Parshall 147-1608H & Parshall 38-1608H
Pad Layout

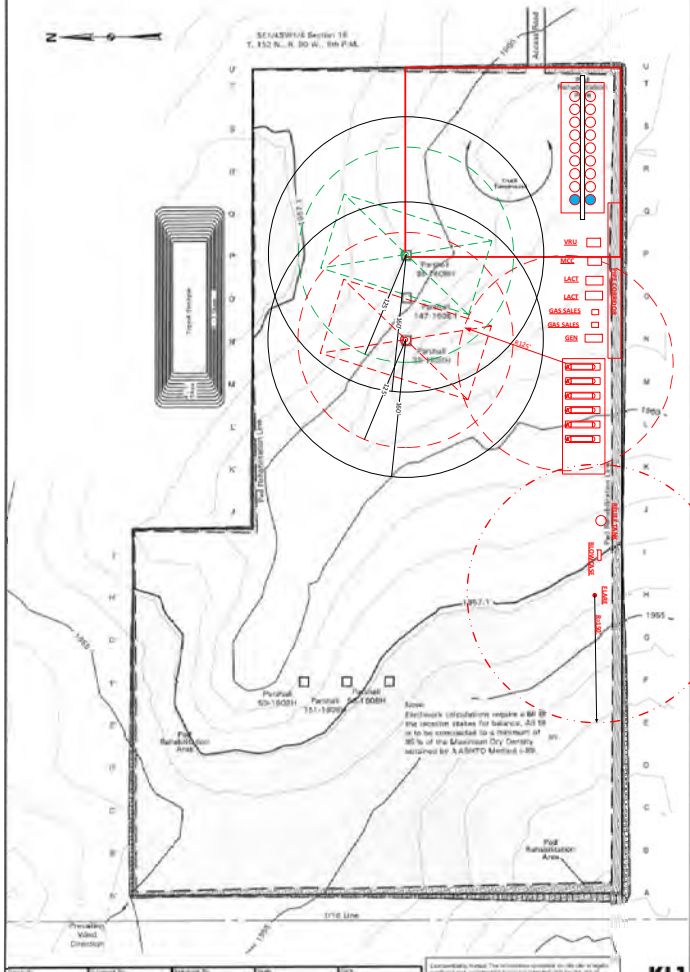


Drawn By J.B./C.W./A.R.	Surveyed By B. Sherlock	Approved By G. Orvik	Scale 1" = 80'	Date 11/12/2013
Field Book Minot OW#43/45	Material Pad Layout	Revised 01/13/2014	Project No. 7713152 - 154 7713187 - 189	Drawing No. -

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Parshall 59-1608H, Parshall 151-1608H, Parshall 58-1608H
Parshall 39-1608H, Parshall 147-1608H & Parshall 38-1608H
Production Layout



EOG Resources, Inc.

Parshall 59-1608H, Parshall 151-1608H, Parshall 58-1608H
Parshall 39-1608H, Parshall 147-1608H & Parshall 38-1608H
Section 16, T. 152 N., R. 90 W., 5th P.M.
Mountrail County, North Dakota

Parshall 59-1608H Well Site Elevation	1958.6' MSL
Parshall 151-1608H Well Site Elevation	1957.5' MSL
Parshall 58-1608H Well Site Elevation	1956.7' MSL
Parshall 39-1608H Well Site Elevation	1961.3' MSL
Parshall 147-1608H Well Site Elevation	1959.5' MSL
Parshall 38-1608H Well Site Elevation	1959.0' MSL
Well Pad Elevation	1957.1' MSL

Excavation 28,960 C.Y.

Embankment 14,415 C.Y.
Plus Shrinkage (+ 30%) 4,325 C.Y.
18,740 C.Y.

Stockpile Top Soil (6") 9,030 C.Y.

Road Embankment & Stockpile from Pad 1,190 C.Y.

Disturbed Area From Pad 11.19 Acres
Disturbed Area From Stockpiles 0.64 Acres
Disturbed Area From Road 0.76 Acres
Total Disturbed Area 12.59 Acres

NOTE:

All cut end slopes are designed at 1:1 slopes &
All fill end slopes are designed at 1 1/2:1 slopes

<u>Parshall 58-1608H Well Site Location</u>	<u>Parshall 151-1608H Well Site Location</u>	<u>Parshall 59-1608H Well Site Location</u>
420' FSL	470' FSL	520' FSL
1600' FWL	1600' FWL	1600' FWL
<u>Parshall 39-1608H Well Site Location</u>	<u>Parshall 147-1608H Well Site Location</u>	<u>Parshall 38-1608H Well Site Location</u>
400' FSL	400' FSL	400' FSL
2000' FWL	2050' FWL	2100' FWL

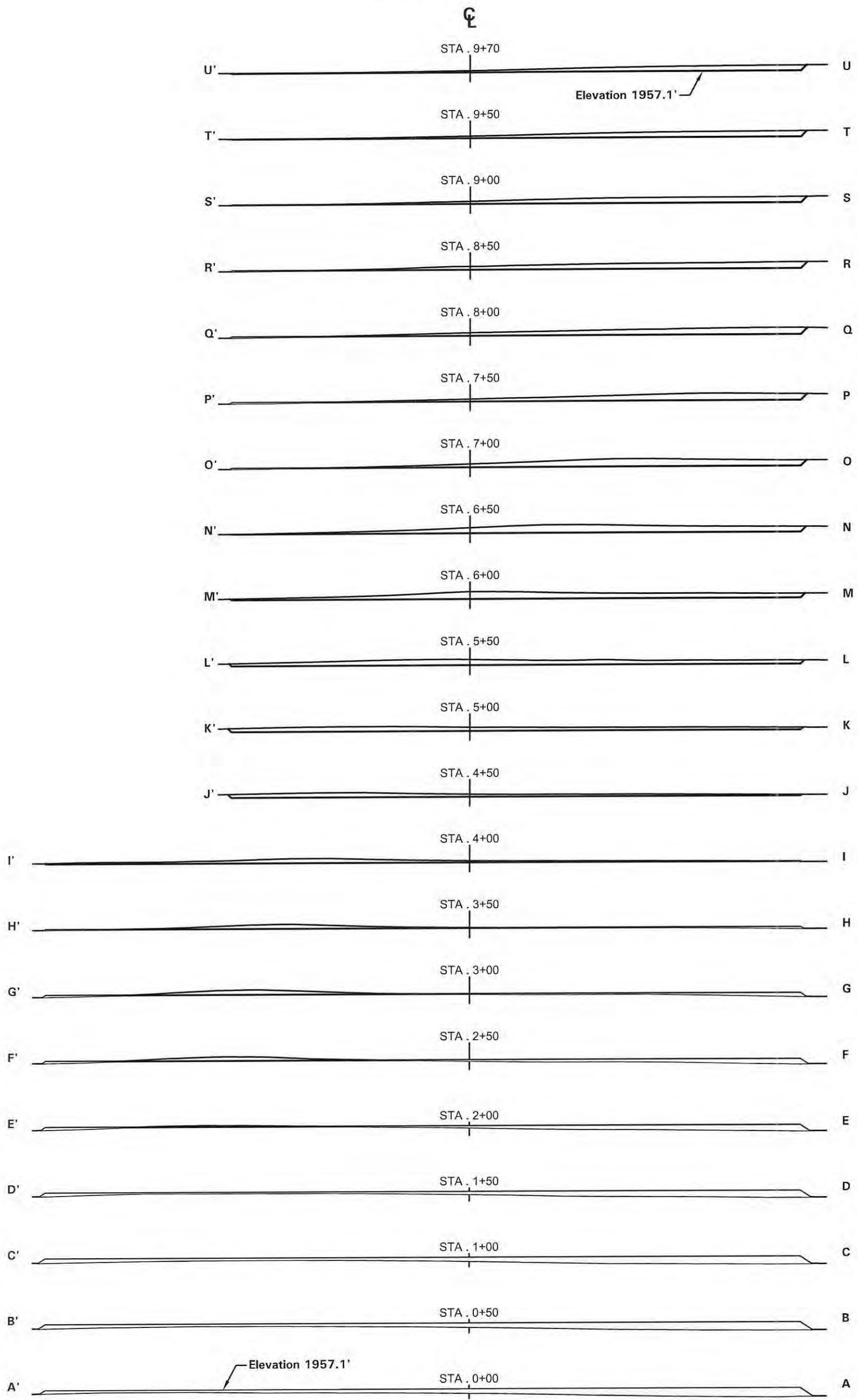
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Drawn By J.B./C.W./A.R.	Surveyed By B. Sherlock	Approved By G. Orvik	Scale None	Date 11/12/2013
Field Book Minot OW#43/45	Material Quantities	Revised 01/13/2014	Project No. 7713152 - 154 7713187 - 189	Drawing No. -



Parshall 59-1608H, Parshall 151-1608H, Parshall 58-1608H
Parshall 39-1608H, Parshall 147-1608H & Parshall 38-1608H
Cross Sections



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Drawn By J.B./C.W./A.R.	Surveyed By B. Sherlock	Approved By G. Orvik	Scale 1" = 80'	Date 11/12/2013
Field Book Minot OW#43/45	Material Cross Sections	Revised 01/13/2014	Project No. 7713152 - 154 7713187 - 189	Drawing No. -



EOG Resources, Inc.

Parshall 59-1608H 520' FSL & 1600' FWL

Parshall 151-1608H 470' FSL & 1600' FWL

Parshall 58-1608H 420' FSL & 1600' FWL

Parshall 39-1608H 400' FSL & 2000' FWL

Parshall 147-1608H 400' FSL & 2050' FWL

Parshall 38-1608H 400' FSL & 2100' FWL

SE1/4SW1/4, Section 16

T.152N., R.90W., 5th P.M.

Mountrail County, North Dakota

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EOG Resources, Inc.

Parshall 59-1608H

Parshall 151-1608H

Parshall 58-1608H

Parshall 39-1608H

Parshall 147-1608H

Parshall 38-1608H

Proposed Route
± 500 feet

± 3.5 Miles to
Highway 37

Highway 23

± 1.8 Miles to
Parshall, ND

Parshall, ND

PARSHALL
POP. 1059
EAST

72nd Ave NW

39th St NW

40th St NW

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EOG Resources, Inc.

Parshall 59-1608H 520' FSL & 1600' FWL

Parshall 151-1608H 470' FSL & 1600' FWL

Parshall 58-1608H 420' FSL & 1600' FWL

Parshall 39-1608H 400' FSL & 2000' FWL

Parshall 147-1608H 400' FSL & 2050' FWL

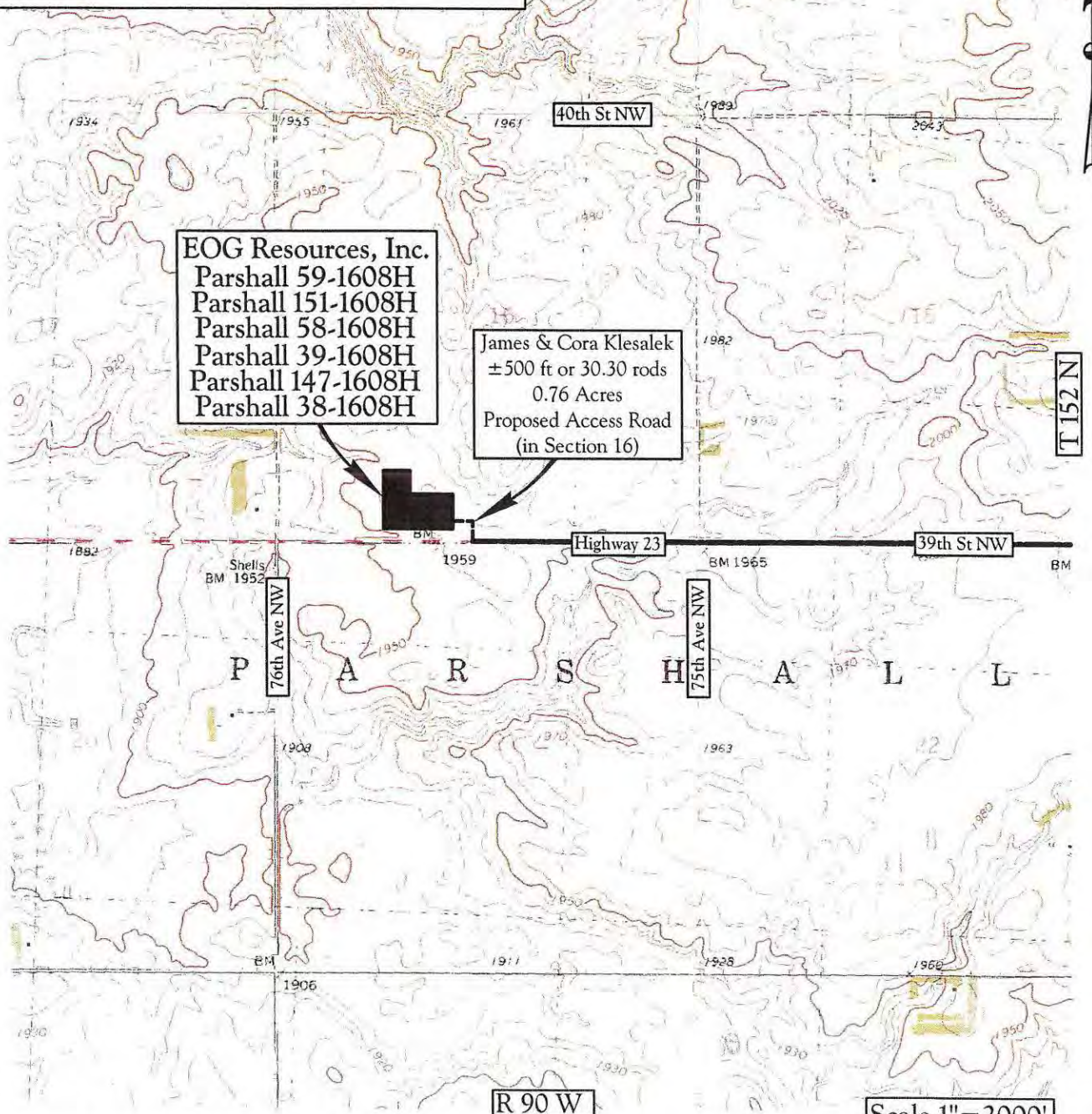
Parshall 38-1608H 400' FSL & 2100' FWL

SE1/4SW1/4, Section 16

T.152N., R.90W., 5th P.M.

Mountrail County, North Dakota

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EOG Resources, Inc.
Parshall 59-1608H
Parshall 151-1608H
Parshall 58-1608H
Parshall 39-1608H
Parshall 147-1608H
Parshall 38-1608H

James & Cora Klesalek
± 500 ft or 30.30 rods
0.76 Acres
Proposed Access Road
(in Section 16)

Map "B"
Quad Access Route

Legend
Existing Roads ———
Proposed Roads - - - - -

Revised
01/13/2014



EOG Resources, Inc.

Parshall 59-1608H 520' FSL & 1600' FWL

Parshall 151-1608H 470' FSL & 1600' FWL

Parshall 58-1608H 420' FSL & 1600' FWL

Parshall 39-1608H 400' FSL & 2000' FWL

Parshall 147-1608H 400' FSL & 2050' FWL

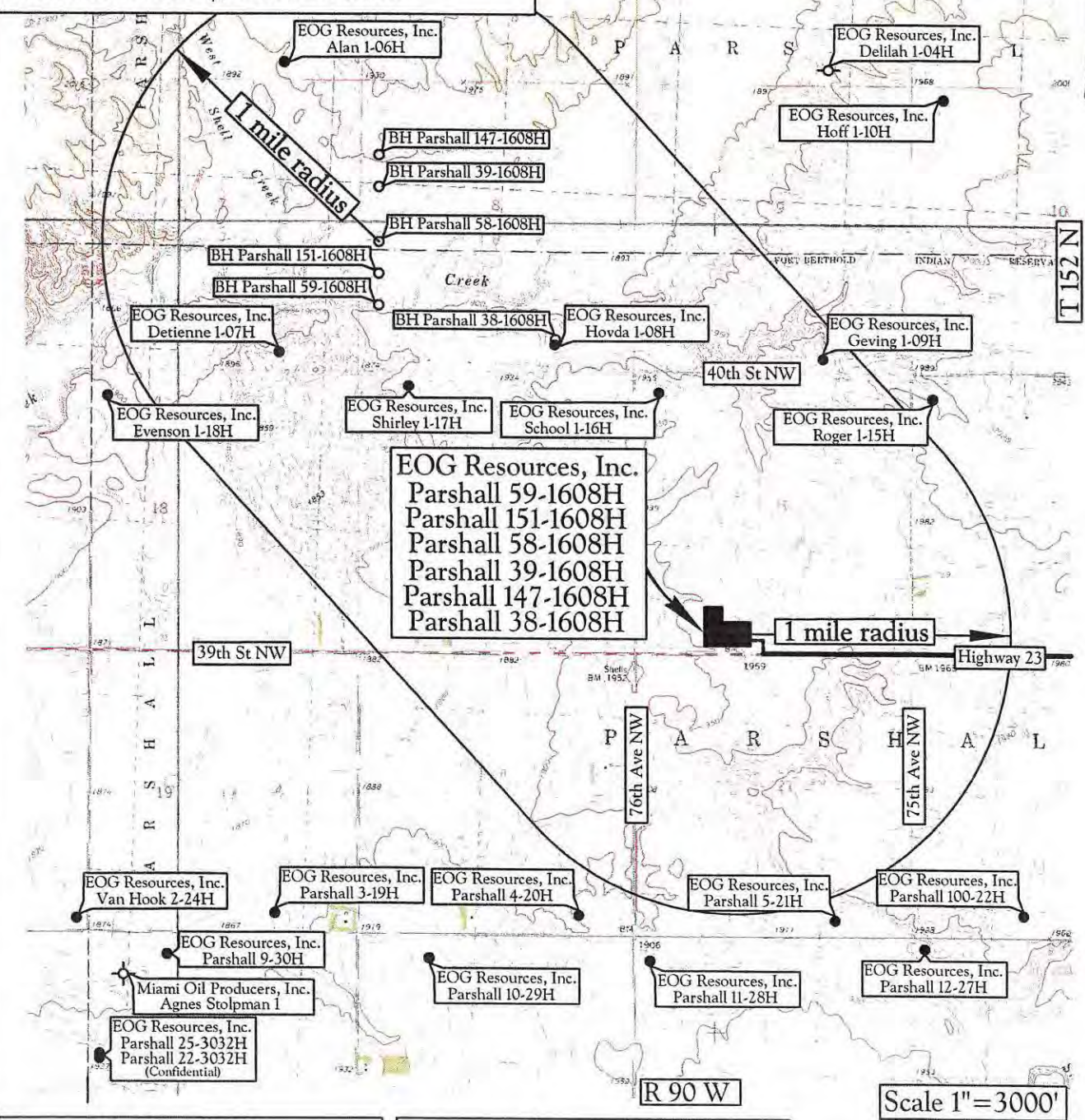
Parshall 38-1608H 400' FSL & 2100' FWL

SE1/4SW1/4, Section 16

T.152N., R.90W., 5th P.M.

Mountrail County, North Dakota

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Legend

wells

STATUS, WELL_TYPE

* A, AGD	○ DRL, AI	○ LOC, GASD
 A, AI	○ DRL, GASC	○ LOC, OG
 A, CBM	○ DRL, GASD	○ LOC, SWD
 A, DF	○ DRL, OG	○ LOC, WI
 A, DFP	○ DRL, SWD	◆ PA, DF
 A, GASC	○ DRL, WI	◆ PA, GASC
 A, GASD	⊕ DRY, GASC	◆ PA, GASD
 A, GASN	⊕ DRY, GASD	◆ PA, GS
● A, OG	⊕ DRY, OG	◆ PA, OG
△ A, SWD	⊕ DRY, ST	◆ PA, SWD
 A, WI	⊕ EXP, GASD	◆ PA, WI
 A, WS	● EXP, OG	◆ PA, WS
 A, AI	⚠ EXP, SWD	○ PNC, GASD
 AB, AI	 EXP, WS	○ PNC, OG
 AB, DF	 IA, AI	○ PNC, SWD
 AB, DFP	 IA, CBM	⊗ TA, AI
 AB, GASC	 IA, DF	⊗ TA, GASC
 AB, GASD	 IA, DFP	⊗ TA, GASD
 AB, GI	 IA, GASC	⊗ TA, OG
● AB, OG	 IA, GASD	⊗ TA, SWD
△ AB, SWD	● IA, OG	⊗ TA, WI
 AB, WI	△ IA, SWD	⊗ TA, WS
 AB, WS	 IA, WI	⊗ TAO, GI
■ Confidential, Confidential	 IA, WS	⊗ TAO, OG
	 IA, AI	⊗ TAO, WI
	○ LOC, GASC	

A = Active, AB = Abandoned, DRL = Drilling, Dry = Dry, EXP = Expired, IA = Inactive, LOC = Location, PA = Producer Abandoned, PNC = Permit Now Cancelled
TA = Temporarily Abandoned, TAO = Temporarily Abandoned Observation

AGD = Acid Gas Disposal, AI = Air Injection, DF = Dump Flood, DFP = Dump Flood Producing, GASN = Nitrogen Gas Well, GASC = Gas Condensate, GASD = Gas Dry,
GI = Gas Injection, GS = Gas Storage, OG = Oil or Gas Well, SWD = Salt Water Disposal, WI = Water Injection, WS = Water Supply, ST = Strat Test

Exhibit "D"
GIS Well Symbols



Prepared by N.D.E.C. Oil and Gas Division

EOG Resources, Inc.

Parshall 59-1608H 520' FSL & 1600' FWL

Parshall 151-1608H 470' FSL & 1600' FWL

Parshall 58-1608H 420' FSL & 1600' FWL

Parshall 39-1608H 400' FSL & 2000' FWL

Parshall 147-1608H 400' FSL & 2050' FWL

Parshall 38-1608H 400' FSL & 2100' FWL

SE1/4SW1/4, Section 16

T.152N., R.90W., 5th P.M.

Mountrail County, North Dakota



PHOTO: VIEW AT NORTHWEST CORNER
CAMERA ANGLE: TO CENTER



PHOTO: VIEW AT NORTHEAST CORNER
CAMERA ANGLE: TO CENTER



PHOTO: VIEW AT SOUTHWEST CORNER
CAMERA ANGLE: TO CENTER



PHOTO: VIEW AT SOUTHEAST CORNER
CAMERA ANGLE: TO CENTER

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Location Photos
Exhibit A

Date: 09/16/2013
Taken By: B. Sherlock
Drawn By: J.B./C.W./A.R.

Revised
01/13/2014



Parshall 59-1608H, Parshall 151-1608H, Parshall 58-1608H
Parshall 39-1608H, Parshall 147-1608H & Parshall 38-1608H

Road Layout

76th Ave NW

1/4 Line

1/4 Line

Section Line

1/16 Line

520' FSL & 1600' FWL
470' FSL & 1600' FWL
420' FSL & 1600' FWL
400' FSL & 2000' FWL
400' FSL & 2050' FWL
400' FSL & 2100' FWL
SE1/4SW1/4 Section 16
T. 152 N., R. 90 W., 5th P.M.

1/16 Line

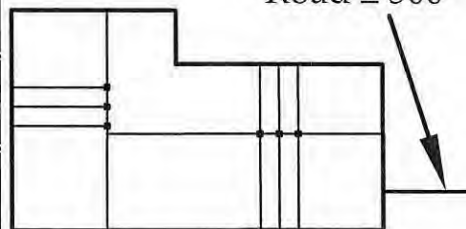
EOG Resources, Inc.
Parshall 59-1608H
Parshall 151-1608H
Parshall 58-1608H
Parshall 39-1608H,
Parshall 147-1608H &
Parshall 38-1608H



James & Cora Klesalek
±500 ft or 30.30 rods
0.76 Acres
Proposed Access Road
(in Section 16)

Proposed Access
Road ± 500'

Grain Bin



17 16
20 21

Section Line

39th St NW
Highway 23

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Drawn By J.B./C.W./A.R.	Surveyed By B. Sherlock	Approved By G. Orvik	Scale 1" = 500'	Date 11/12/2013
Field Book Minot OW#43/45	Material Road Layout	Revised 01/13/2014	Project No. 7713152 - 154 7713187 - 189	Drawing No. -



Thanks Taylor,
Yes, I've submitted APDs to the BLM for all three wells.

Barbara Griswold
Regulatory Specialist
EOG Resources, Inc.
303-262-9894 (office)
720-934-1587 (mobile)
barbara_griswold@eogresources.com

From: "Roth, Taylor J." <tjroth@nd.gov>
To: "Barbara_Griswold@eogresources.com" <Barbara_Griswold@eogresources.com>,
Date: 06/02/2014 12:54 PM
Subject: RE: Parshall 151-1608H, 58-1608H, 59-1608H

Hey Barb,

Per our phone conversation I am double checking to make sure that EOG is aware that this pad contains wells in which some of the laterals penetrate federal minerals. Is EOG in the process of obtaining the appropriate federal permits?

Thank you very much,

Taylor J. Roth
Survey & Permitting Technician
NDIC, Dept. Mineral Resources
Oil and Gas Division
701-328-1720 (direct)
tjroth@nd.gov



From: Barbara_Griswold@eogresources.com
To: [Webber, Alice D.](#)
Subject: Re: Parshall 58-1608H, 59-1608H & 151-1608H
Date: Tuesday, June 03, 2014 11:01:22 AM

Hi Alice,

We will use one or both of these facilities.

Sawyer Disposal Services LLC 12400 247th Ave SE
Sawyer ND 58781 (Sawyer County)
701.624.5622

Prairie Disposal LLC 102-C10 52nd St NW 800.490.2106
Tioga ND 58852 (Williams County)
701.664.3383

Thanks

Barbara Griswold
Regulatory Specialist
EOG Resources, Inc.
303-262-9894 (office)
720-934-1587 (mobile)
barbara_griswold@eogresources.com

From: "Webber, Alice D." <adwebber@nd.gov>
To: "barbara_griswold@eogresources.com" <barbara_griswold@eogresources.com>,
Date: 06/03/2014 08:52 AM
Subject: Parshall 58-1608H, 59-1608H & 151-1608H

Good morning Barbara,

What facility are the cuttings being hauled to from these 3 wells.

Thanks,
Alice

Alice D. Webber
Engineering Technician IV
North Dakota Industrial Commission
Department of Mineral Resources
Oil and Gas Division
600 E. Boulevard Avenue Dept 405
Bismarck, ND 58501