

	**N/A	* *													
PROCEDURE FO	R PLUGGIN	IG FLOWIN	IG HOLES	:							_				
	**NONE	**													
3. P .#'s	d Page														
LOWING HOLE	<u> </u>														
SECTION 3						,			1	1					
					D	epth									
					Charge	STZE						+			
		В	ad Caps		al.										
REASONS HOLES						S.P.#									
DEPTH:	60'	100'	80'												
HARGE SIZE::	10#	10#	10#												
.P. #'s:	515188	572139	580135												
LOADED HOLES	UNDETONA	TED SHOT	POINTS)								_				
IRST S.P. #: 5	00-101					LAST S.P. #: 580-166									
SECTION 2															
DATE COMMENC		3-98				DATE COMPLETED: 10-8-98									
PERMITTED BY:		Oil Com	pany	P.O. I	3ox 1835				802						
rownship(s):		146-14	7 North			RANGE(S): 95 West									
PROJECT NAME AND NUMBER: Chimney Butte 3-D							COUNTY(S): Dunn								
GEOPHYSICAL CO		Quantu	m Geoph	ysical		Houston	, Tex	ipe Sta 15 <u>770</u>							
SECTION 1							n 1		550						
		Shot Ho	le												
97 SHOT HOLE OPER	-0041					*NON-EX	PLOSIVE	OPERATIO	NS:						
ERMIT NO.:															

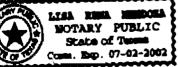
Include a 7.5 minute USGS topographic quadrangle map or a computer generated post-plot facsimile of the approximate scale displaying each individual

shot hole, SP #, line #, and legal location.

^{*}Non-Explosive Operations - Complete Section 1 and Affidavit.

AFFIDAVIT OF COMPLETION (GEOPHYSICAL CONTRACTOR) TEXAS COUNTY OF HARRTS) Before me, Lisa Rena Mendoza ______, a Notary Public in and for the said County and State, this day personally appeared Bruce Fulker who being first duly sworn, deposes and says that (s)he is employed by _ Quantum Geophysical, Inc. , that (s)he has read North Dakota Century Code Section 38-08.1, that the foregoing seismic project has been completed in accordance with North Dakota Administrative Code Rule 43-02-12 and that the statements on the reverse side of this document are true. Geophysical Contractor Representative Subscribed in my presence and sworn before me this _____day of ____ 1998

My Commission Expires 07-02-1002



AFFIDAVIT OF PLUGGING (HOLE PLUGGER)

STATE OF NORTH DAKOTA	OCT 1998 RECEIVED RECEIVED ROUL & GAS DIVISION
Before me, Kathryn E. Allers County and State, this day personally appeared who being first duly sworn, deposes at Dave Boke Orilling & Hole Plugging _ Century Code Section 38-08.1 and that the for accordance with North Dakota Administrative Cod the attached documents are true.	Sharilyn Bohc nd says that (s)he is employed by , that (s)he has read North Dakota egoing seismic project has been plugged in
Subscribed in my presence and sworn before me th	Sharily Boho Hole Plugger Representative his Juday of <u>(rtober</u> , 1998.
Notary Public My Commission Expires My Commission Expires My Commission Expires May 19,	k <u>ota</u>

PERMIT NUMBER:

AFFIDAVIT OF PLUGGING (HOLE PLUGGER) STATE OF NORTH DAKOTA , a Notary Public in and for the said County and State, this day personally appeared who being first duly sworn, deposes and says that (s)he is employed , that (s)he has read North Dakota Century Code Section 38-08.1 and that the foregoing seismic project has been plugged in accordance with North Dakota Administrative Code Rule 43-02-12 and that the statements on the attached documents are true. Hole Plugger Representative Subscribed in my presence and sworn before me this 29 day of Notary Public florthery purmic for the state of Monteus San Branches Au Condidation Explica April 19, 1997



Title:



12000

– Project Na				- · · · · · · · · · · · · · · · · · · ·						
	CHIMNEY BUTTE ANS	SHUTZ								
County	DUNN CO ND									
Suppleme	DUNN CO., ND			· · · · · · · · · · · · · · · · · · ·						
	BUCKSKIN STARTED PLUG	GENG ON	FHE CHIMNEY	BUTTE PROSPECT ON						
	SEPT 20, 1998 AND FINISHE	ED PLUGGI	NG ON SEPT. 2	e6, 1998. BUCKSKIN						
	PLUGGED 797 HOLES AND USED 2610 BAGS OF BENTONITE. THERE WERE									
	NO BLOWOUTS AND SHOT	TPOINT NU	MBERS WITH H	BAD CAPS WERE 515188,						
	572139, & 580135.									
				, -						
Compar	ny:									
Address				FOR OFFICE USE ONLY						
City:	7	State	Zip Code:	Date Received						
By:		- Date	<u>-</u>	By						

Lelephone Number:

Little



GEOPHYSICAL EXPLORATION PERMIT INDUSTRIAL COMMISSION OF NORTH DAKOTA OIL AND GAS DIVISION SFN 51459 (11-97)



600 E BOULEVARD AVE BISMARCK, ND 58505

				1				- X-3-27-5, 90%	267 _			
1) a. Company: Quantum	Geophysical	Inc.		Add	ress: 5555	San Felipe	e Si	te 550 Hous	;con, 1	rx 7	7056	
Contact: B:	ruce Fulker	Telephone: (713) 850-9799					Fax: (713) 850~7783					
Surety Company	<u> </u>		Bon	d Amount:		_		Bond Number:				
1	of North Dal	tota		5011		0,000.00			GE0300			
2) a. Subcontra	ctor(s):			Add	ress:				Telepho	Telephone:		
TCS Dri	lling			Во	x 574 S	idney, MT.	59	270	406-482-7769			
b. Subcontac				Add	ress:				Telepho	Telephone:		
ļ	Drilling									32-127	70	
c. Subcontra				_	ress:				Telepho	ne:		
				71							205	
3) Party Manage				_	ress:	DL 11100		30,01		Telephone:		
Billy F				1		lan Belfie	eld,	, ND		701-575-4785		
4) Project Name or Line Numbers: Chimney Butte 3-D												
				_								
5) Exploration N	lethod (Shot Hole		(plosive, hot H o]					•				
8) Approximate	Drilling Start Date	: :				Approximate	Can	npietion Date:				
	B) Approximate Drilling Start Date: 9–15–98 Approximate Completion Date: 9–30–98											
THE COMMIS	SSION MUST BE I	VOTIFIE	D AT LEA	AST 2	4 HOURS	ADVANCE O	F C	OMMENCEMENT	OF DRI	LL/PLU	G OPERATIONS	
7) Location of P	roposed Project -	County	Dut	n C	ounty No:	rth Dakota						
Saction(s) To	ownship(s) & Rang			Sec	32,33,	34	Т	147 N		R	95 W	
Section(3), 10	Attistipis & Non	J C(3)							0 05 11			
				Sec. 3.4.5.8.9.10.15 T 146 N					R 95 W			
				Sec. 16,17,20,21,22,						R		
				Sec. 23,26,27,28,29,32 _T 33						R		
8) Size of Hole	Amt. of Charge	Denth	Shots p		No. of Mi.		<u>. </u>	ifying Marks Use	ed on No	·	ic Plug	
Of Gize of Floris	TAME OF GHAIGE	Осран	Mi.(sq.		(sq. mi.)	Geophysical		a. Plugger ID		gger I		
2.25"	15#	60¹	78.	4	16.6	*		**	¥		X	
9) Anticipated s	pecial drilling and	plugging	a procedi	ues?	-			<u>-</u>				
	poordi eriimig erio		, p		N/A							
10) Enclose a pr	e-plot map with p	roposed	location	of se	ismic progra	am lines and p	owd	er mag.				
Signed:	- 1			Title						Date:		
j (f)	H		Permit Agent					9-8-98				
	(This spac	e for St	ate office	use!			*	+ J Condition	ons of Ap	proval if	any: +	
Permit No.: 97-004/ Approval Date: 9/9/98 Approval Date: 9/9/98 Title: Leophyrial Regulation Augurian County Approval Bent: Durin Conditions of Approval if any: Cond									country pur			
Approved By: (acid t - Andry)									perigree perigr			
Title: Man &	weigh Read	O.T.	_1	44.			Hus	The identif	w w/	pernu	[#4] w.l."	
County Approval	Sent:		- /Nu	Just	name		plu	1921 ID ,1	West 9/4/	,		
	Dun			•6	In annual and		ر مدنه		1/9/	48		



North Dakota Industrial Commission Chimney Butte 3-D

Additional Sub-contractors: Buckskin Services

919 12th St SW Sidney, MT 59270

(406) 482-4092

NORTH DAKOTA INDUSTRIAL COMMISSION

OIL AND GAS DIVISION

Lynn D. Heims DIRECTOR F.E. Wilborn
ASSISTANT DIRECTOR

September 9,1998

Bruce Fulker Quantum Geophysical 5555 San Felipe, Ste. 550 Houston, TX 77478

RE: GEOPHYSICAL EXPLORATION PERMIT NO. 97-0041 Chimney Butte 3-D

Dunn County

Dear Mr. Fulker:

This letter will verify the approval of the above-captioned Geophysical Permit effective September 9, 1998.

Please feel free to contact Mr. David Hvinden, Geophysical Regulation Supervisor if you should have any questions.

Sincerely,

Marge Rixen

Legal Assistant

/mr

NORTH DAKOTA INDUSTRIAL COMMISSION

OIL AND GAS DIVISION

Lynn D. Helms DIRECTOR F.E. Wilborn
ASSISTANT DIRECTOR

September 9, 1998

The Honorable Reinhard Hauck Dunn County Auditor P.O. Box 105 Manning, ND 58642

> RE: Geophysical Exploration Permit #97-0041

Dear Mr. Hauck:

Pursuant to Section 38-08.1-04.2 of the North Dakota Century Code, please be advised that Quantum Geophysical, Inc. was issued the above captioned permit on September 9, 1998 and will remain in effect for a period of one year.

Should you have any question, please contact our office.

Sinderely,

David C. Hvinden

Geophysical Regulation Supervisor

DCH/dh