Hunt Oil Company - Gunnar Opseth #1, Burke County, North Dakota.
Location: 660 feet from the north line and 1980 feet from the south line of
Section 28, T. 161N., R. 90W. Elevation: K.B. 2039; TD 7016; PB 6570.

The Hunt Oil Company - Gunnar Opseth #1 was spudded August 12, 1955 as
the Calvert Drilling Inc. - Gunnar Opseth #1, drilled to a total depth of 7016
and completed as a new oil discovery (Coteau field) September 22, 1955.

DRILL STEM TESTS:
DST #1: 8-28-55. Tested from 6360-6400', 4 hr. test. 30 min. shut in,
not max. Recovered 575' heavily gas and oil cut mud, very gassey. 90' heavily
mud cut oil. IFP 0, FFP 280, IHP 3450, FHP 3400, SIP 2070.

DST #2. 8-31-55. Tested from 6420-6440'. 2 hr. test, 30 min. shut in,
not max. Recovered 10' drilling mud, 90' slightly salt and sulphur water
cut mud. IFP 0, FFP 20, IHP 3525, FHP 3460, SIP 660. Weak blow for 15 min. and
stopped. Packer reset.

DST #3. 9-2-55. Tested from 6443-6484', 4 hr. test. 30 min. shut in.
Recovered 660' total fluid. 30' sulphur mud, 450', oil and gas cut sulphur
mud with 25% oil. 180' gas and mud cut oil 60 to 75% oil. IFP 0, FFP 290, IHP
3535, FHP 3500, SIP 2175. Had gas to surface in 1 hour.

DST #4. 9-3-55. Tested from 6530-6590', 4 hr. test. 45 min. shut in,
almost max. Recovered 30' drilling mud, 90' sulphur mud, 720' slightly gas
cut salty sulphur water with very slight show of oil. IFP 0, FFP 35, IHP 3575,
FHP 3535, SIP 2700.

DST #5. 9-5-55. Tested from 6689-6741', 4 hr test. 30 min. shut in,
almost max. Recovered 1095' black sulphur cut salt water. IFP 0, FFP 575,
IHP 3600, FHP 3490, SIP 2660.

LOGS RUN: Schlumberger Electric log, 9-9-55, Schlumberger Microlaterolog, 9-9-

CASING RECORD:
Size Put in Well Left in Well No. Sacks Cement
10-3/4 602 602 335
5-1/2 6598 6598 150

CORED INTERVALS: 6400-6425' and 6440-6470'.

COMPLETION TEST DATA: Test commenced 10-7-55; Test completed 10-8-55.
Length of test - 24 hours. Test taken on pump: length of stroke - 64 in.
No. strokes per min. - 14. Size working barrels 1 1/2 in. Size tubing - 2 in.
No. ft. run - 6556 ft.
RESULT OF TEST: 43 bbls net oil per 24 hours. Gas-oil ratio - 547 cu. ft. gas per bbl. oil. Percent water produced during test - 70%. Gravity of oil (corrected to 60° API) - 32.9.

Well shot Sept. 15, 1955. Perforated with 4 holes per foot. Acidized with 7000 gals. Treated from 6356 to 6387, 6438 to 6444 and 6452 to 6486. (Total of 71 feet).

TOP OF PAY: 6356’.

TRANSPORTER: International Refineries Inc.

Formation tops were picked from samples and electric logs, corrected to the electric logs. Not all formation tops are called in the following list. Colors are from the rock color chart.

FORMATION TOPS

Cretaceous System
  Pierre formation 1420
  Niobrara formation 3249
  Greenhorn formation 3600
  Dakota Group sands 4177
Jurassic System 4517?
  Piper Lime 5207
Triassic System
  Spearfish formation 5478
Mississippian System
  Kibbey Lime 5813
  Charles formation 5980
  Mission Canyon formation 6356?
Total Depth 7016

990-1020 Shale, medium light gray, lumpy, bentonitic.
1020-1200 Shale as above. Lignite.
1200-1320 Shale, medium light to medium gray, lumpy, bentonitic, little lignite. Little pyrite.
1320-1590 Shale, medium light to medium gray, lumpy, sandy and silty bentonitic. Little lignite.
1590-1700 Shale as above.
1700-1800 Shale, medium light gray to light olive gray, lumpy, little bentonitic silty. Little lignite.
1800-1890 Shale, medium light gray, foliated, light olive gray, lumpy, bentonitic. Lignite.
1890-2100 Shale, medium light to medium gray, lumpy, bentonitic.
2100-2130 Shale as above. Lignite.
2130-2160 Shale, medium light to medium gray, lumpy, slightly bentonitic.
2160-2190 Shale as above. Little shale, light olive gray with numerous glauconite pellets.
2190-2310 Shale, light olive gray to medium gray, lumpy.
2310-2420 Shale, light olive gray to medium gray, lumpy to fissile.
2420-2480 Shale, medium light gray, lumpy.
2480-2720 Shale, medium gray to light brownish gray, lumpy to fissile. Bentonite, white to very light gray.
2720-2990 Shale, medium light gray, foliated, micaceous.
2990-3010 Shale, medium, gray, lumpy, bentonitic.
3010-3100 Shale, medium light to medium gray, lumpy to foliated. Bentonite.
   Few Inoceramus prisms.
3100-3210 Shale, medium gray, lumpy, bentonitic.
3210-3240 Shale, medium light to medium gray, foliated. Bentonite.
3240-3270 Shale, medium to dark gray, foliated to fissile.
3270-3300 Shale, medium to medium dark gray, foliated, "white specks"
   calcareous.
3300-3360 Shale as above with “white specks”, shale, light olive gray,
   fissile, micaceous. Few Inoceramus prisms.
3360-3470 Shale, medium light gray, foliated to lumpy. Few calcite crystals.
   Few Inoceramus prisms.
3470-3590 Shale, medium to medium dark gray, foliated. Inoceramus prisms.
3590-3610 Shale, dark gray to black, foliated. Inoceramus prisms.
3610-3650 Shale, medium dark gray, foliated, with “white specks”,
   calcareous, Inoceramus prisms.
3650-3710 Shale, medium gray, foliated.
3710-3800 Shale, medium gray, lumpy to foliated.
3800-3860 Shale as above. Inoceramus prisms.
3860-3940 Shale, medium to dark gray, foliated. Inoceramus prisms.
3940-4010 Shale, medium light gray, lumpy, medium dark gray, foliated.
4010-4220 Shale, dark gray foliated, light olive gray to yellowish gray
   5Y8/1 micaceous, silty.
4220-4340 Shale, medium dark to dark gray, foliated. Sandstone, yellowish
   gray 5Y8/1, very fine grained, angular, friable to fine grained,
   subrounded, friable.
4340-4360 Shale and sandstone as above with some fine grained sandstone,
   slightly glauconitic.
4360-4390 Shale, medium dark to dark gray, foliated. Sandstone, very light
   gray, fine grained, angular, calcareous cement.
4390-4420 Shale as above. Limestone, very light gray, fragmental with much
   impurities.
4420-4470 Shale as above. Sandstone, white to light brown stained, fine
   grained, friable, some carbonaceous streaks but no cut.
4470-4530 Shale, medium dark to dark gray, foliated to fissile. Sand, medium
   grained, unconsolidated, subrounded quartz sand.
4530-4550 Shale, medium gray to grayish black, fissile. Little quartz sand
   as above.
4550-4600 Shale, medium to dark gray, foliated to fissile. Little shale,
   greenish gray 5GY6/1, waxy and foliated to fissile.
4600-4630 Missing.
4630-4660 Shale, medium to dark gray, foliated to fissile. Shale, greenish
   gray 5GY6/1, waxy and foliated to fissile.
4660-4700 Shale as above. Siltstone, very light gray, calcareous, little
   glauconitic.
4700-4790 Shale and siltstone as above. Little sandstone, white, fine
   grained, subrounded, calcareous cement, friable.
4790-4830 Shale, greenish gray, fissile, dark gray to grayish black,
   foliated. Little siltstone as above.
4830-4910 Shale as above. Siltstone, greenish gray 5GY6/1 to light gray,
   calcareous.
4910-4930 Shale as above with little siltstone as above.
4330-4950 Shale, greenish gray 5GY6/1, fissile, light olive gray 5Y6/1, fissile, medium dark gray, foliated to fissile.
4950-5020 Shale, medium dark to dark gray, foliated, medium light to medium gray, lumpy, greenish gray, fissile.
5020-5060 Shale, greenish gray fissile to greenish gray, massive, calcareous. Shale, grayish red 10R4/2, splintery, subwaxy, slightly calcareous. Shale, dark gray, foliated.
5060-5110 Shale as above. Little siltstone, greenish gray 5GY6/1, calcareous.
5110-5140 Shale, greenish gray, fissile, splintery, calcareous, shale grayish red, splintery, calcareous. Shale, medium to dark gray, foliated. Little siltstone, very pale orange, calcareous. Little limestone, pale yellowish brown, fragmental.
5140-5150 Shale and limestone as above.
5150-5200 Variegated shale, splintery to foliated to fissile, calcareous.
5200-5220 Variegated shale as above. Limestone, very pale orange, dense, microsucrosic.
5220-5260 Limestone, very pale orange, sublithographic. Shale as above. Little unconsolidated, subrounded quartz sand probably caving from Dakota.
5260-5300 Limestone, very pale orange, microcrystalline to fragmental. Shale as above. Argillaceous limestone, pale brown 5YR5/2, dense.
5300-5330 Limestone, pale yellowish brown, finely crystalline, dense. Shale, medium to medium dark gray, foliated, greenish gray 5GY6/1 and grayish red 10R4/2, subwaxy, calcareous.
5330-5380 Limestone, pale brown 5YR5/2, finely crystalline to slightly fragmental, dense. Shale as above.
5383-5440 Limestone, dark yellowish brown 10YR4/2, finely crystalline to fragmental, dense, anhydritic. Shale as above.
5440-5470 Limestone and shale as above with considerable anhydrite.
5470-5500 Sandy siltstone, moderate reddish orange 10R6/6, siltstone with fine rounded quartz sand, slightly calcareous. Shale, greenish gray and medium dark gray, foliated.
5500-5560 Siltstone, moderate reddish orange 10R6/6, slightly calcareous. Shale as above.
5560-5610 Siltstone, pale reddish brown 10R5/4, anhydrite, slightly calcareous, some small rounded sand inclusions.
5610-5660 Limestone, white, sublithographic.
5660-5710 Limestone, white to pale yellowish brown, finely crystalline.
5710-5760 Limestone, yellowish gray 5Y8/1 to pale red 5R6/2, medium grained, little silty.
5760-5800 Dolomite, pale red 5R6/2, sucrosic, silty.
5800-5860 Shale, greenish gray 5GY6/1, fissile.
5900-5950 Dolomitic shale to silty, argillaceous, dolomite, pale reddish brown 10R5/4. Shale as above.
5950-5980 Dolomitic shale and silty, argillaceous dolomite as above. Shale, medium to medium dark gray, foliated.
5980-6020 Shale and dolomite as above. Anhydrite, white.
6020-6040 Limestone, pale red 10R6/2, oolitic. Shale, medium gray to grayish green, foliated.
6040-6050 Dolomite, yellowish gray 5Y8/1, sucrosic. Anhydrite. Shale as above.
6050-6100 Limestone, very pale orange 10YR8/2, microsucrosic to fragmental, dense.
6100-6160  Anhydrite, white. Little limestone as above. Shale, dark greenish gray 5GY4/1, subwaxy. Shale, medium dark to dark gray.
6160-6180  Limestone, pale yellowish brown 10YR6/2, fragmental to microcrystalline, dense.
6180-6210  Limestone, very pale orange 10YR8/2, microsuarcosic. Little limestone as above.
6210-6220  Anhydrite, white to light gray. Limestone as above.
6220-6240  Limestone, pale yellowish brown, fragmental. Anhydrite as above.
6240-6270  Limestone and anhydrite as above. Shale, medium to dark gray, foliated.
6270-6300  Anhydrite, white to light gray. Limestone and shale as above.
6300-6318  Limestone, pale yellowish brown, fragmental. Little anhydrite.
6318-6320  TRIP SAMPLE. Predominantly shale caving, Anhydrite.
6320-6331  Missing.
6331  CIRCULATION 1/2 HOUR. Limestone, very pale orange to pale yellowish brown, fragmental to sublithographic.
6331  CIRCULATION 1 HOUR. Limestone as above.
6331  CIRCULATION 1 1/4 HOUR. Limestone as above.
6331  CIRCULATION 1 1/2 HOUR. Anhydrite. Little limestone as above.
6331-6340  Limestone and little anhydrite as above.
6340-6360  Anhydrite, medium light gray.
6360-6382  Anhydrite as above. Little limestone, yellowish gray 5Y7/2 microsuarcosic.
6382  CIRCULATION 1/4 HOUR. Limestone, pale yellowish brown to dark yellowish brown, microsuarcosic to fragmental.
6382  CIRCULATION 1/2 HOUR. Limestone as above.
6380-6400  Limestone as above, some oil cut.
6400  CIRCULATION 1/4 to 1 HOUR. Limestone, pale yellowish brown, fragmental, some oil cut.

Core Chips
6400-6402  Dolomite, yellowish gray 5Y7/2, microsuarcosic with interbedded anhydrite.
6402-6406  Anhydrite.
6406-6408  Dolomite, pale yellowish brown, microsuarcosic to finely granular, anhydrite.
6408-6410  Anhydrite.
6410-6412  Limestone, pale yellowish brown, fragmental, dense matrix with some vugs anhydrite, oil stain and slight cut.
6412-6414  Anhydrite.
6414-6416  Limestone, pale yellowish brown, finely crystalline, banded with carbonaceous residue, oil stain and good cut.
6416-6425  Anhydrite.
6425-6430  Anhydrite.
6430-6438  Missing.

SAMPLES
6438  CIRCULATION 1/2 to 1 1/4 HOUR. Anhydrite.
6438  CIRCULATION 1 1/2 to 1 3/4 HOUR. Anhydrite. Limestone, pale yellowish brown, sucrosic, dolomitic, oil stain and cut.
6438-6440  Missing.
6440  CIRCULATION 1 HOUR 55 MIN. Limestone, pale yellowish brown, finely crystalline, slight oil cut. Anhydrite.
Core chips

6440-6442 Limestone, pale yellowish brown, microcrystalline, dense, few included anhydrite crystals.
6442-6443 Limestone, pale yellowish brown, fragmental, dense, oil stain and poor cut.
6443-6445 Limestone, as above, stylolitic, good oil cut.
6445-6446 Limestone, medium gray, fragmental, dense, oil stain and fair cut.
6446-6447 Shale, black, carbonaceous, slightly calcareous, slight oil cut.
6447-6451 Limestone, brownish gray 5YR4/1, fragmental, anhydrite inclusions, slightly oolitic, good oil cut.
6451-6452 Limestone, light gray, argillaceous, light.
6452-6453 Limestone, pale yellowish brown, anhydrite filling, little pinpoint porosity, good oil cut.
6453-6454 Limestone, pale yellowish brown, dense cryptocrystalline matrix with oolites lithified within the matrix, oil stain but no cut.
6454-6455 Argillaceous limestone, dark greenish gray 5GY4/1, dense with few fractures filled with carbonaceous residue.
6455-6456 Limestone, olive gray 5Y4/1, dense cryptocrystalline, with little anhydrite filling, few stylolites.
6456-6459 Limestone, pale yellowish brown, fragmental, anhydrite filling vugs few oolites lithified within matrix, little pinpoint porosity, good oil cut.
6459-6460 Limestone, very light gray, chalky, argillaceous.
6460-6462 Limestone, pale yellowish brown, closely packed oolites with the interstitial porosity plugged with anhydrite, poor oil cut.
6462-6464 Limestone, dark yellowish brown 10R4/2, coarsely crystalline, vuggy with some anhydrite filling, good oil cut.
6464-6468 Limestone, dark yellowish brown, oolitic with interstices filled with finely crystalline limestone and anhydrite, some vugs usually lined with anhydrite, oil stain and cut.

Samples

6470-6480 Limestone as above.
6483 Circulation 1 1/2 hours. Limestone as above.
6483-6510 Limestone as above.
6510-6583 Limestone, pale yellowish brown, finely crystalline to fragmental, few scattered oolites, poor oil cut.
6583 Circulation 1/4 to 1 1/2 hours.
6583-6590 Missing.
6590 Circulation 1/2 to 1 1/2 hours. Limestone as above.
6590-6610 Limestone as above.
6610-6730 Limestone, pale yellowish brown, finely crystalline to fragmental few scattered oolites, no oil cut.
6730-6741 Missing.
6741 Circulation 2 2/3 to 2 1/8 hours. Limestone as above. Limestone, dark yellowish brown, microsucrosic, dolomitic, oil stain and cut.
6741-6760 Limestone as above.
6760-6773 Missing.
6773 Circulation 1/2 to 2 hours. Limestone, pale to dark yellowish brown, fragmental, oil stain and cut.
6773-6781 Missing.
6781 Circulation 1 1/2 to 2 1/2 hours. Limestone, pale yellowish brown, fragmental to microsucrosic, dolomitic, little anhydritic, oil stain and cut.
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<tr>
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<th>Description</th>
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<tbody>
<tr>
<td>6781-6870</td>
<td>Limestone as above.</td>
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<tr>
<td>6870-7016</td>
<td>Limestone, pale to dark yellowish brown, fragmental, oil stain and cut.</td>
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<tr>
<td>7016-TD</td>
<td>Circulation 2 1/3 hours. Limestone as above.</td>
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