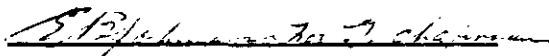


BP ET AL GREY GOOSE N-70

WELL HISTORY REPORT



G. F. Chapman  
Drilling Superintendent



A. F. Burchnell  
Manager, Exploitation and Joint  
Operations Branch

CP/AFB/bac

April 23, 1975

BP ET AL GREY GOOSE N-70

WELL HISTORY REPORT

I. SUMMARY OF WELL DATA

II. GEOLOGICAL SUMMARY

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V. ANALYSES

- (a) Core Analysis
- (b) Water Analysis
- (c) Gas Analysis
- (d) Oil Analysis

VI. COMPLETION SUMMARY

- (a) Tubing Record
- (b) Perforation Record
- (c) Cementation Record
- (d) Acidization Record
- (e) Back Pressure and Production Tests



1. SUMMARY OF WELL DATA

- (a) Name: BP ET AL GREY GOOSE N-70
- (b) Permittee: Atlantic Richfield Canada Ltd.
- (c) Operator: BP Exploration Canada Limited
- (d) Location:
  - Unit 7 Section 70
  - Grid System 65-20-123-30
  - Universal Well Loc. Ref. Lat. 65.33278°N, Long 123.74317°W
  - Unique Well Identifier 300N706520123300
- (e) Co-ordinates: Latitude 65°19' 58" N; Longitude 123° 42' 15" W
- (f) Permit: 5001
- (g) Drilling Contractor: Regent Drilling Ltd. Rig #11
- (h) Drilling Authority: #782  
Issued November 13th, 1974
- (i) Classification: Exploratory Well
- (j) Elevations: Ground 703'  
K.B. 715'
- (k) Date Spudded: December 27th, 1974
- (l) Date Finished Drilling: January 2nd, 1975
- (m) Total Depth: 2250' (Driller) 2245' (Logger)
- (n) Well Status: Dry and abandoned
- (o) Date Rig Released: January 8th, 1975
- (p) Hole Sizes:
  - 17-1/2" to 45' K.B., 12-1/4" to 343' K.B.,
  - 7-7/8" to 2250' K.B.
- (q) Casing:
  - 14" conductor set at 45' K.B.
  - 8-5/8" surface casing set at 332' K.B.



## II. GEOLOGICAL SUMMARY

### (a) Formation Tops

<u>Formation</u>	<u>Log Depth</u>	<u>Sample Depth</u>
Cretaceous		
Lower Cretaceous Deltaic Sequence	1823 (-1108)	1820
Basal Cretaceous Sand	2110 (-1395)	2100
Devonian		
Bear Rock	2148 (-1433)	1250
Total Depth		2250

### (b) Cored Intervals

Sidewall cores taken on Logging Run #1.

### (c) Core Descriptions

Sidewall core description included with this report.

### (d) Sample Descriptions

Included with this report.

### (e) Paleontological Determinations

Results not yet received.

## SIDEWALL CORE DESCRIPTIONS

for B.P. et al Grey Goose N-70

- 2142 Sandstone; light grey to clear quartz sand, slightly consolidated, silty, sub angular, medium to poorly sorted, fine to medium grained, 15 - 20% porosity.
- 2140 Sandstone; conglomerate in part, silty, poorly sorted, sub angular to angular, some clay matrix, medium grained, mainly unconsolidated 20 - 25% porosity, kaolanitic.
- 2135 Sandstone; clear quartz to light grey, fine grained, medium sorted, sub angular, mainly unconsolidated, some clay, 10-14% porosity.
- 2130 Sandstone; light grey, clay partings, kaolenitic in part, sub angular, medium sorted, some coarse grains, 10% porosity.
- 2126 Sandstone; clear quartz, fine grained, sub angular, silty, some clayey partings, 10% porosity.
- 2122 Sandstone; clear quartz, medium to coarse grained, granules, sub angular to sub rounded, poorly sorted, 20% porosity.
- 2100 - No recovery.
- above 2100 - (sample not marked) Siltstone; dense, some very fine grained sandstone.  
Note - deltaic sandstone sequence.

B P EXPLORATION CANADA LTD.

Sample Description

B P et al GREY GOOSE N-70  
February, 1975

Logged by: C. Pederson

Intervals

Description

Note: Samples 0' - 1200' poor, 1200' - 2250' T.D. fair-good

0 - 230	Gravel, some loose scattered sands.
230 - 360	Sands, interbedded grey Shale, some Gravel.
360 - 370	As above, some finegrained, argillaceous and silty Sandstone, interbeds of silty, sandy Shale.
370 - 390	Gravel, trace of Sandstone, glauconitic in part, trace of pyrite, feldspar, occasional dolomite and limestone fragments.
390 - 400	Sandstone, grey, fine grained, loose quartz grains, some scattered porosity, interbedded Siltstone and Shale, pyritic.
400 - 410	Shale, medium grey, soft, partly sandy and silty. Sandstone, grey, argillaceous, slightly dolomitic.
410 - 430	Sandstone, grey, argillaceous, partly glauconitic, slightly silty and dolomitic, loose sand grains.
430 - 440	Sandstone, clear to light grey, very fine to medium grained, slightly argillaceous, dolomitic, calcite, some yellow staining, traces of cherty material.
440 - 450	As immediately above, traces of pyrite.
450 - 460	Sandstone, grey, silty and dolomitic, thin Shale partings.
460 - 470	Siltstone, silty and argillaceous, some very fine-grained Sandstone, interbedded silty, micaceous Shale.
470 - 480	Siltstone, very hard, siliceous and dolomitic.



<u>Intervals</u>	<u>Description</u>
480 - 510	Shale, grey, soft, silty and sandy, glauconitic, abundant loose round quartz grains.
510 - 560	As above, siltstone content increasing, very argillaceous.
560 - 570	Sandstone, very fine to fine grained, some Siltstone and Shale, partly siliceous.
570 - 580	Sandstone, grey, very fine grained, calcitic, silty and argillaceous in part.
580 - 590	Shale, grey, very soft glauconite, some silts and sands.
590 - 620	As above, with thin beds of siliceous Sandstone, pyrite, dolomitic.
620 - 630	Sandstone, light grey, silty, medium sorted, interbedded silty Shale with traces of pyrite and siliceous sandstone.
630 - 640	Siltstone, light to medium grey, argillaceous, partly calcitic, traces of Shale and Sandstone.
640 - 650	Shale, soft and sandy, high content of loose, non-representative sand grains.
650 - 680	Shale, increase of very fine grained silty and argillaceous Sandstone, traces of pyrite and calcite, siliceous Siltstone streaks.
680 - 690	As above, increase of very hard, siliceous, dolomitic Siltstone.
690 - 720	Sandstone, medium grey, soft, becoming silty and shaly in part, traces of pyrite and calcite.
720 - 770	As immediately above.
770 - 810	Siltstone, argillaceous, finely laminated. Shale and very slightly dolomitic, very fine grained Sandstone.

<u>Intervals</u>	<u>Description</u>
810 - 860	As above, Sandstone content increasing. Scattered Limestone with trace of Crinoid fragments.
860 - 880	Siltstone, sandy and dolomitic. Some pyrite and Inoceramus fossil remains ( ? )
880 - 890	Sandstone, grey, very fine to fine grained, silty and partly argillaceous.
890 - 910	Shale, grey, silty and sandy, soft, glauconitic. Fossil remains ( ? ) Inoceramus.
910 - 930	Sandstone, grey, silty and argillaceous.
930 - 990	Non-representative sample. Mainly siltstone, argillaceous to shaly, trace of ironstone, trace of very fine grained, argill., silty, Sandstone.
990 - 1000	As above.
1000 - 1010	Siltstone, siliceous, dolomitic, trace of glauconite, some pyrite and silty Shale.
1010 - 1030	Shale, medium grey, Siltstone in part. Pyritic crinoid stems, ironstone nodules.
1030 - 1040	As immediately above, becoming more sandy.
1040 - 1080	Shale, partly silty, pyrite and worm tubes.
1080 - 1090	Siltstone with interbedded Shale grading to very fine-grained, silty, grey Sandstone.
1090 - 1120	Sandstone, light grey, slightly dolomitic, Silt and Shale interbeds.
1120 - 1160	Siltstone, light grey, sandy and argillaceous, slightly dolomitic, interbeds and laminae of Sandstone and Shale, scattered fish remains.

<u>Intervals</u>	<u>Description</u>
1160 - 1260	Shale, grey, micromicaceous, trace of interbedded Siltstone, scattered ironstone nodules.
1260 - 1400	Shale, med. grey, fairly clean, silty in part, very slightly dolomitic, ironstone nodules, traces of Inocer. (?)
1400 - 1550	As above, increasing pyrite, ironstone and silt content.
1550 - 1580	Shale, med. grey, fissile.
1580 - 1640	As above, traces of plant remains and ironstone nodules.
1640 - 1670	Shale, as above, traces of very finegrained Sandstone.
1670 - 1680	Shale, med. grey, fissile, trace of ironstone.
1680 - 1700	Shale, grey, trace of glauconite, grey sandstone stringer, well sorted grains, trace pyrite, argillaceous.
1700 - 1740	As above.
1740 - 1750	Shale with pyrite and ironstone.
1750 - 1800	Shale, med. grey, fissile, increasing pyrite and ironstone.
1800 - 1810	Shale, as above, trace of glauconite, abundant calcite.
1810 - 1820	Shale, grading to very fine to finegrained, grey, slightly dolomitic Sandstone, salt and peper in part, traces of glauconite, traces of siliceous and dolomitic cement.
<u>Lower Cretaceous Deltaic Sequence 1823'</u>	
1820 - 1840	Sandstone, light to medium grey, very fine to fine grained, silty, argillaceous, dolomitic cement, trace of pyrite, interbedded and laminated silty Shale and Siltstone.

<u>Intervals</u>	<u>Description</u>
1840 - 1850	Siltstone, grey, argillaceous, trace of sandstone and ironstone, pyrite, micaceous, trace of calcitic Sandstone.
1850 - 1870	Siltstone, argillaceous and slightly sandy. Silty micaceous shale interbeds, slightly dolomitic. Thin beds of med. to dk. grey dolomitic Shale.
1870 - 1880	Shale, medium grey, silty in part.
1880 - 1890	Shale, grading to argillaceous siltstone and very fine-grained Sandstone, micaceous, dolomitic, pyrite and ironstone nodules.
1890 - 1900	As immediately above with increasing Sandstone.
1900 - 1920	Shales and Siltstones, grey, micaceous, traces of very fine grained siliceous Sandstone in part.
1920 - 1940	Sandstone, grey, very finegrained, salt and pepper, slightly dolomitic, carbonate material and argillite, silty. Interbedded grey Shale.
1940 - 1950	Sandstone, as above, increasing silt content. Shale, silty with abundant pyritic worm tubes.
1950 - 1960	Sandstone, light grey, very fine to finegrained, salt and pepper, trace of porosity.
1960 - 1970	Sandstone, as above, grading to grey, argillaceous Siltstone with Shale partings and calcite growths.
1970 - 1980	Sandstone, as above, trace of glauconite and carbonate material, shale partings.
1980 - 1990	Sandstone, as above, grading to Siltstone and Shale.
1990 - 2000	Sandstone, grey, glauconitic in part. Sandstone, light grey, fine to medium grained in part, trace of porosity.

<u>Intervals</u>	<u>Description</u>
2000 - 2010	Sandstone, as above, increasing amount of glauconite, Sandstone, medium grained, siliceous, cherty. Shale streaks.
2010 - 2020	Sandstone, grey, finegrained, salt and pepper, sub-angular, medium grained free quartz crystals, framework 9, 6-8% porosity.
2020 - 2030	Sandstone, grey, very finegrained, silty and argillaceous, trace of glauconite and pyrite, slightly dolomitic.
2030 - 2040	Sandstone, very fine to finegrained, trace of glauconite, calcitic and dolomitic in part, thin porous streaks.
2040 - 2080	Sandstone, as above, chert, siliceous, porous streaks.
2080 - 2100	Sandstone, clear quartz crystals, trace chert, scattered porosity.
<u>Basal Cretaceous Sand 2110'</u>	
2110 - 2140	Sandstone, subangular to subrounded, clear unconsolidated quartz crystals, trace of silica cement.
<u>Bear Rock (Devonian) 2148'</u>	
2140 - 2250	Limestone, brown, cryptocrystalline to microcrystalline, argillaceous, becoming clear, slightly dolomitic, trace of pellets ( ? )
<u>TOTAL DEPTH 2250'</u>	



### III. ENGINEERING SUMMARY

#### (a) Report of Drill Stem Tests

DST #1 2045' - 2250' Lower Cretaceous Sand

PF 5, ISI 30, VO 60, FSI 60

Very weak puff on preflow died instantly. No air blow on flow period. Misrun - tool plugged.

Recovered 30' mud.

IHP 1051 ISIP - IFP - FFP - FSIP -  
FHP 1048 Temp. 60°F

Copies of drillstem test chart submitted previously.

DST #2 2098' - 2250' Lower Cretaceous Sand

PF 5, ISI 60, VO 60, FSI 120

Strong air blow on pre-flow, good air blow on valve open, decreasing to dead in 45 minutes. No gas to surface.

Recovered 700' salt water cut mud, 1368' salt water.

IHP 1048 ISIP 863 IFP - FFP 863 FSIP 863 FHP 1056  
Temperature not taken.

Copies of drillstem test chart submitted previously.

#### (b) Casing Record

Conductor 14" conductor set 45' K.B. Cemented with 117 sacks cold set cement.

Surface 8-5/8" O.D. 24 lb. J55 set at 332' K.B. Cemented with 240 sacks cold set cement. Plug down 5:00 P.M. December 28, 1974. Had 8 bbl returns.

(c) Bit Record

<u>Bit No.</u>	<u>Size</u>	<u>Type</u>	<u>Depth Out</u>	<u>Feet</u>	<u>Hours</u>	<u>Wt.</u>	<u>RPM</u>
-	17-1/2	-	45	45	-	-	-
1A	12-1/4	DGHJ	292	247	16-2/4	20	130
2A	12-1/4	OSC3J	343	51	1-1/2	20	130
1	7-7/8	X3A	1470	1127	30-3/4	20	100
2	7-7/8	X1G	2158	688	24-3/4	20	70
3	7-7/8	X1G	2250	92	11-1/2	30	50

(d) Mud Report

Gel - water system.

Quantities of mud used are as follows:

<u>Chemical</u>	<u>Quantity</u>
Gel	7200 lb.
Bicarb	200
CMC	200

(e) Deviation Record

76'	1°	590	1/2°
100	7/8°	1190	1°
190	1/2°	1700	1-5/8°
280	2°	2250	4-1/4°

(f) Abandonment Plugs

Plug No. 1    2250' - 2040'    79 sacks construction cement.  
Plug down 1:15 P.M., January 6th, 1975  
Felt at 2025' at 9:15 P.M.

Plug No. 2    382' - 282'    38 sacks construction cement.  
Plug down 10:45 P.M., January 6th, 1975  
Felt at 270' at 6:45 A.M., January 7, 1975

Casing cut off 3' below ground level. Used 5 sacks cement in top of casing and welded on plate.

(g) Lost Circulation Zones

None encountered.



(h) Report of Blowouts

None encountered.

(i) Fishing Operations

None to report.



IV. LOGS

<u>Date</u>	<u>Log</u>	<u>Interval</u>	<u>Run No.</u>
January 4, 1975	Dual Induction Laterolog	2238' - 339'	1
January 4, 1975	Borehole Compensated Sonic-Gamma-Caliper	2242' - 339'	1
January 4, 1975	Formation Density Compensated-Gamma-Caliper	2244' - 339'	1



V. ANALYSES

(a) Core Analysis

None to report.

(b) Water Analysis

Reports previously submitted. LAB No. E75-5526

(c) Gas Analysis

None to report.

(d) Oil Analysis

None to report.



VI. COMPLETION SUMMARY

(a) Tubing Record

None

(b) Perforating Record

None

(c) Cementation Record

<u>Date</u>	<u>Abandonment Plug No.</u>	<u>Position Ft. K.B.</u>	<u>Geological Formation</u>	<u>Sacks Cement</u>	<u>Depth Felt Ft. K.B.</u>
Jan. 6/75	1	2250' - 2040'	Lwr. Cretaceous & Bear Rock	79	2025'
Jan. 6/75	2	382' - 282'	Btm. of sur- face casing	38	270'

Used 5 sacks of cement in casing top and welded steel plate on same.

(d) Acidization and Fracturing Record

None

(e) Back Pressure and Production Tests

None







BP EXPLORATION CANADA LIMITED

LABORATORY REPORT NUMBER: E75-5526

E75-5526-1 SAMPLED FROM TOP:

RESISTIVITY: 0.352 OHM/meters @ 25°C

Muddy water.

E75-5526-2 SAMPLED FROM MIDDLE:

RESISTIVITY: 0.275 OHM/meters @ 25°C

Muddy water

E75-5526-4 SAMPLED FROM DOWNHOLE SAMPLER:

RESISTIVITY: 0.297 OHM/meters @ 25°C

The sample was received in a B.J. Services downhole sampler. Contained in the chamber was 1500 mls of water. No recoverable gas was present.





## DRILLSTEM TEST DATA

TICKET NO. T-2812  
DATE JAN. 3/75WELL NAME BP ET AL GREY GOOSE  
WELL NUMBER N-70  
COMPANY BP EXPLORATION CANADA LIMITED  
COMPANY REP. HERB GLENN  
TESTER BUDVARSONTest No. 1 Type CONVENTIONAL BTM HOLE  
Interval 2045 To 2250 TD 2250  
Formation Tested BASAL SAND Net Pay 60 Temp OF 60  
Prelow 5 Min. ISL 30 Min. Flow 60 Min. FSI 60 Min.

Recorder Number	2016	6889	3851	
Ins. or outs.	INS	OUTS	OUTS	
Rec. Range (PSI)	5450	3100	5700	
Clock Range (hrs)	12	12	24	
Recorder Depth	2034	2053	2058	
Initial Hydro. Press.	1029	1051	1046	
Initial Shut-in Press.				
Initial Flow Press.				
Final Flow Press.				
Final Shut-in Press.				
Final Hydro. Press.	1023	1048	1043	

Fluid Recovery Total Feet 30 FEET DRILLING MUDFt. of             
Ft. of             
Ft. of             
Ft. of             
Ft. of           

## Gas Recovery

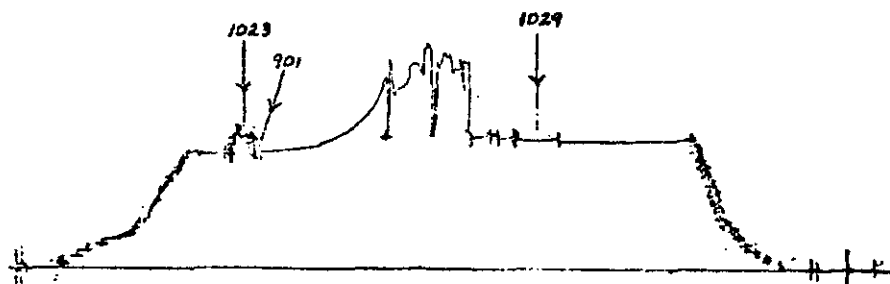
Mins	Temp OF	Press (PSI)	Orifice Size	MCF Day

Orifice Wall Tester ☐ Pitot tube ☐  
Critical Flow Prover ☐ Side Static ☐ Riser Size             
Gas Cont. No.            Chem & Geo Lab ☐ Core Lab ☐Main Hole Size 7.875 Packer Size 6.625 (1)  
Rat hole Size            Ft. of Rat Hole             
Dr. Pipe Size 4.5 FH Wt. 16.60  
Dr. Collar I.D. 2.875 Ft. Run above tool 44.7  
Surface Choke Size CLOSED Bottom Choke Size 5  
Cushion Amount            Type             
Mud Drop NIL Fluid Loss 10 Viscosity 53 Mud Wt. 9.2Remarks: VERY WEAK AIR PUFF ON PREFLOW, DEAD INSTANTLY. NO AIR BLOW ON FLOW PERIOD. MISRUN - PLUGGED TOOL WITH LOOSE SAND WHILE SKIDDING TO BOTTOM.

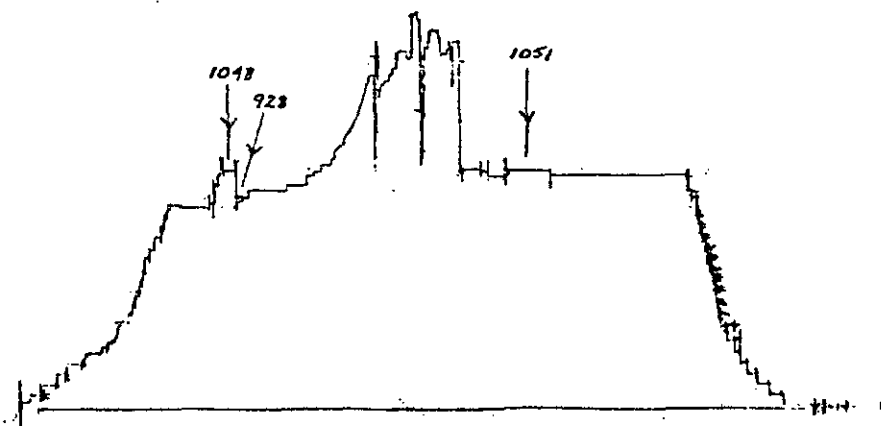
P.O. Sub 1.00-FOUR FEET  
Co Sub 1.00 ABOVE TOOL  
Shut-In Tool 5.20  
RFS No. 54 3.35  
(DRAINED)  
RFS No.             
HMV 7.15  
Jars             
Rec. No. 2016 5.00 Depth 2034  
Rec. No.            Depth             
Temp Recorder             
Safety Joint 1.75  
By-Pass Sub             
Packer             
Packer 5.00 Depth 2045  
1.00  
Anchor 6.00  
By-Pass Sub             
Rec. No. 6889 5.00 Depth 2053  
Rec. No. 3851 5.00 Depth 2058  
Blank off Sub             
Co Sub             
Dr. Collars             
Co Sub             
Packer            Depth             
Packer             
Anchor             
Rec. No.            Depth             
Anchor             
Co Sub             
Dr. Pipe or 184.00  
Dr. Collars             
Co Sub 1.00  
Anchor             
Bullnose 3.00 T.D. 2250  
Total Test Tool 50.00  
Total Interval 205.00  
Total Tailpipe 184.00  
Weight of Tool 2.300  
Wt. Indicator Reading  
Prior to setting Packers 44.000



BP ET AL GREY GOOSE N-70  
DST NO. 1  
INSIDE REC. NO. 2016  
DEPTH 2034

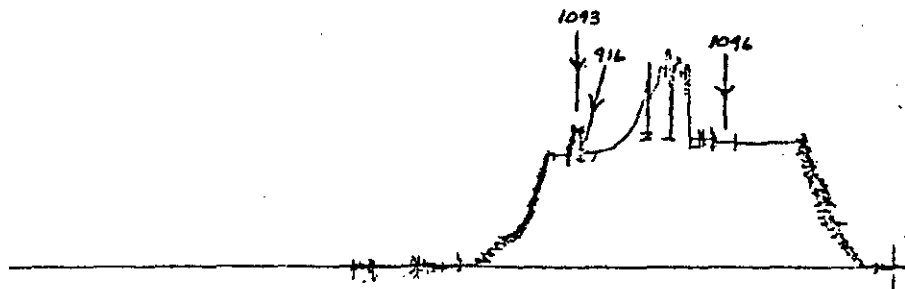


BP ET AL GREY GOOSE N-70  
DST NO. 1  
OUTSIDE REC. NO. 6889  
DEPTH 2053





SP ET AL GREY GOOSE N-70  
DST NO. 1  
OUTSIDE REC. NO. 3851  
DEPTH 2058





## DRILL STEM TEST DATA

TICKET NO. T-2813  
DATE JAN. 5/75WELL NAME BP ET AL GREY GOOSE  
WELL NUMBER N-70  
COMPANY BP EXPLORATION CANADA LIMITED  
COMPANY REP. HERB GLENN  
TESTER BUDVARSONTest No. 2 Type CONVENTIONAL SINGLE BTM  
Interval 2098 To 2250 TD 2250  
Formation Tested BASAL SAND Net Pay Temp OF  
Preflow 5 Min. ISL 60 Min. Flow 60 Min. FSI 120 Min.

Recorder Number	2016	6889	3851	
Ins. or outs.	INS	OUTS	OUTS	
Rec. Range (PSI)	5450	3100	5700	
Clock Range (hrs)	12	12	24	
Recorder Depth	2087	2113	2118	
Initial Hydro. Press.	1028	1048	1046	
Initial Shut-in Press.				
Initial Flow Press.				
Final Flow Press.				
Final Shut-in Press.				
Final Hydro. Press.	1037	1056	1059	

Fluid Recovery Total Feet 2068  
700 Ft. of SALT WATER CUT DRILLING MUD  
1368 Ft. of SALT WATER (7700 PPM)  
Ft. of  
Ft. of  
Ft. of

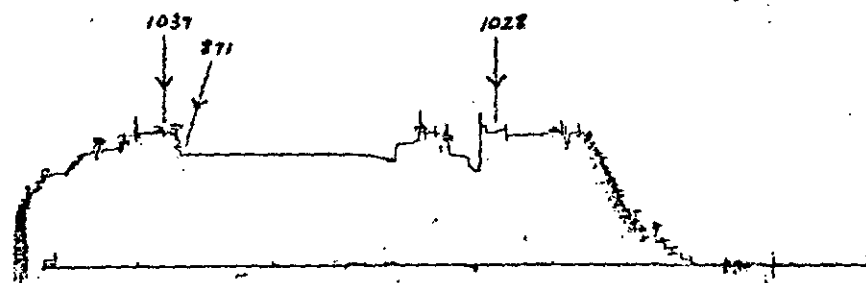
## Gas Recovery

Mins	Temp OF	Press (PSI)	Orifice Size	MCF Day

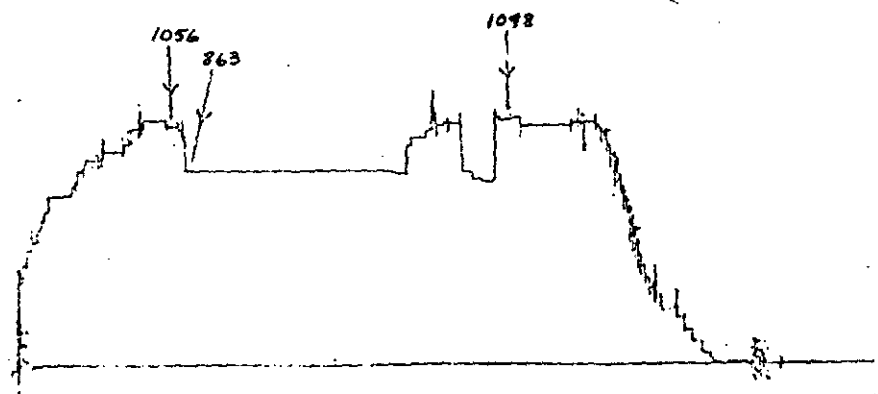
Orifice Well Tester ☐ Pitot tube ☐  
Critical Flow Prover ☐ Side Static ☐ Riser Size  
Gas Cont. No. Chem & Geo Lab ☐ Core Lab ☐Main Hole Size 7.875 Packer Size 6.625  
Rat hole Size  
Dr. Pipe Size 4.5 FH Wt. 16.60  
Dr. Collar I.D. 2.875 Ft. Run above tool 44.7  
Surface Choke Size CLOSED Bottom Choke Size 5  
Cushion Amount Type  
Mud Drop NIL Fluid Loss Viscosity Mud Wt.Remarks: STRONG AIR BLOW ON PREFLOW. GOOD  
AIR BLOW ON INITIAL FLOW, SLOWLY DECREASING  
UNTIL DEAD IN FORTY-FIVE MINUTES.

P.O. Sub 1.00  
Co Sub 1.00  
Shut-in Tool 5.20  
RFS No. 54 3.35  
RFS No.  
HNV 7.15  
Jars  
Rec. No. 2016 5.00 Depth 2087  
Rec. No. Depth  
Temp Recorder  
Safety Joint 1.75  
By-Pass Sub  
Packer  
Packer 5.00 Depth 2098  
1.00  
Anchor 13.00  
By-Pass Sub  
Rec. No. 6889 5.00 Depth 2113  
Rec. No. 3851 5.00 Depth 2118  
Blank off Sub  
Co Sub  
Dr. Collars  
Co Sub  
Packer Depth  
Packer  
Anchor  
Rec. No. Depth  
Anchor  
Co Sub  
Dr. Pipe or 124.00  
Dr. Collars  
Co Sub 1.00  
Anchor  
Bullnose 3.00 T.D.  
Total Test Tool 57.00  
Total Interval 152.00  
Total Tailpipe 124.00  
Weight of Tool 230.0  
Wt. Indicator Reading  
Prior to setting Packers 44.000

BP ET AL GREY GOOSE N-70  
DST NO. 2  
INSIDE REC. NO. 2016  
DEPTH 2087



BP ET AL GREY GOOSE N-70  
DST NO. 2  
OUTSIDE REC. NO. 6889  
DEPTH 2113





BP ET AL GREY GOOSE N-70  
DST NO. 2  
OUTSIDE REC. NO. 3851  
DEPTH 2118

