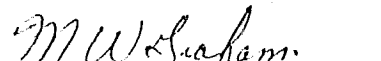



2695

WELL HISTORY REPORT
MOBIL GULF PEEL YT H-71
MOBIL OIL CANADA, LTD



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MOBIL GULF PEEL YT H-71

Mobil Gulf Peel YT H-71 was spudded 3:00 PM, Feb 3/77 by Adeco Drilling, Rig #5. 36" hole was drilled 14' and 30" conductor pipe was cemented. 24" hole was drilled to 103' and 20" 94# H-40 ST&C conductor casing was cemented to surface with 575 sacks "Arctic Set" cement.

17½" surface hole was drilled to 806' where, because hole angle increased rapidly to 3½°, the hole was plugged back to 596' and straightened with a dynamo drill. 8½" hole was drilled to 994' and opened to 12¼" and then 17½". 12¼" hole was drilled with a stabilized drill string to 1505' and opened to 17½" to a depth of 1500'. Conductor casing washed out twice during drilling of surface hole. The hole was logged by Schlumberger. 13 3/8" 54.5 & 61# K-55 BT & C casing was run to 1500; and cemented by the inner string method with 3115 sks "Arctic Set" cement. Surface cement returns were not obtained. The cellar was recemented with 300 sks Arctic Set cement. Spud to cementing surface casing took 35 days.

12¼" hole was drilled with a stabilized drill string to 6030' in 27 days. Hole deviation control continued to be a problem but maximum angle was limited to 4° at 5558'. Intermediate hole was logged by Schlumberger. 9 5/8" 43.5# MN-80 LT & C intermediate casing was run to 6023' and cemented to surface casing with 1560 ft³ Oilwell G + 12% gel and 475 ft³ Neat Oilwell G.

8½" hole was drilled without full stabilization to 6862' at which time a packed hole assembly was run in the hole. Hole deviation was 8.8° at this time. A gas kick while drilling at 6638' required a mud weight of 9.7 ppg to control. Further kicks while drilling at 6862' and while making a connection at 7162' required weighting the mud to 11.3 ppg. The mud weight was raised to 12.8 ppg at 7513' prior to tripping out of the hole to install a key-seat wiper. The weight was lowered to 10.3 ppg by 9000' and drilling continued to 9475' at which time DST #1 was run.

DST #1 was a bottom hole inflate packer test over the interval 9415-9475'. 3200' of water cushion was run to reduce the differential pressure across the packer. During the 2 hour flow and 4 hour shut-in there was no gas recovered. The test packer was unseated and pulled 9' off bottom. When the well started flowing, 500 psi was applied to the annulus. The tool became stuck and attempts to jar it free were unsuccessful. The fish was recovered ten days later by washing over and recovering one or two collars at a time until the test tool was jarred free. Fluid recovery was questionable and flow pressures were masked by the large water cushion.

With the recovery of the test tool, drilling continued to 10,455' at which time a bit cone was lost down the hole. The cone was recovered and the interval 10,455-86' was cored. Core recovery was 31' of a black dense dolomite. Drilling continued to 10,684' at which time the nose of a bit cone was lost down the hole. This iron was recovered and the hole drilled to 11,129' FTD.

The hole was logged by Schlumberger and the bottom interval was abandoned with two cement plugs. The interval 8940-9490' was tested with a conventional drill stem test tool off the top of the abandonment plug at 9490'. The test flowed GTS in 32 mins at a rate of approximately 65 mcfpd. Recovery was 360' water cushion, 3390' gassy mud and 2330' salt water. The well was abandoned with two more down-hole cement plugs. The casings were cut off and abandonment completed at 3:00 PM, June 12th, 1977.

The drilling of this well took 129 days from spud to abandonment. The drilling rig has been torn down and left on location for move-out in the winter of 1977-78. The drilling costs to rig tear-down have been approximately \$5,200,000; an increase of \$1,303,000 over the original AFE. Move-out costs in the winter could increase the final costs to \$6,200,000.

/lmw

CHRONOLOGICAL DRILLING SUMMARY

<u>Date</u> <u>(1977)</u>	<u>Depth</u> <u>(KB)</u>	<u>Status - as of 8:00 A.M.</u>
Feb 3	33'	Spudded with Adeco Rig #5 at 3:00 PM. Cemented 30" conductor pipe 14' below GL.
Feb 7	97'	Drilling 24" hole. Conductor pipe washed out. Repair cement on conductor pipe.
Feb 9	103'	Drilled 24" to 103'. Ran & cemented 20" 94# H-40 ST & C conductor pipe at 101' with 575 sks Arctic Set Cement
Feb 12	202'	Drilled out float equipment on 20" casing. Drilling 17½" hole with gel mud.
Feb 15	528'	Drilling 17½" hole. Base of permafrost at 305'. Conductor pipe washing out and bypassing mud to cellar.
Feb 17	806'	Drill 17½" hole to 768'. Deviation at 3½°. Drill 12¼" hole to 806'. Deviation at 3 5/8°. Change mud to KCl-bentonite-XC polymer due increasing Cl.
Feb 23	780'	Plug back 806-596'. Drill out plug to 637' with 17½" bit. Dynadrill 8½" hole 637-758'. Drilling 8½" hole.
Feb 25	994'	Drill 8½" hole to 994'. Run in with 12¼" hole opener and ream 637-994'.
Feb 27	990'	Ream 12¼" hole to 990' with 17½" hole opener.
Mar 2	1505'	Drill 12¼" hole to 1505'. Run in with 17½" hole opener.
Mar 7	1500'	Ream 12¼" hole to 17½". Run BH Geometry tool and DIL-BHC-Sonic G logs. Rig to run 13 3/8" surface casing.
Mar 15	1593'	Run 13 3/8" surface casing and cement with 3115 sks Arctic Set cement. Cement cellar and rig up BOP equipment. Pressure test BOP's and drill 12¼" hole.
Mar 23	2521'	Drill 12¼" hole to 1707' with "slick string". Drill from 1707' with stiff hook-up. Drilling break at 1802-68'. No flow. Lost 20 bbls mud. Opening winter road to Ft. MacPherson
Mar 30	3247'	Drill 12¼" hole. Penetration is slow because of deviation problems. Deviation 3½° at 3200'.
April 11	6030'	Drill 12¼" hole to 6030'. Rig to log.
April 13	6030'	Complete logging. Complete transfer of material from Inuvik. Rig to run intermediate casing.
April 14	6030'	Run 9 5/8" 43.5# MN-80 LT&C intermediate casing and cement to surface casing with 2000 ft ³ cement.
April 15	6030'	Install BOP's. Cement cellar & re-crib. Jack up mud tanks and precharge pumps.

Date (1977)	Depth (KB)	Status - as of 8:00 A.M.
April 17	6193'	Pressure test BOP's, manifold & casing. Drill out shoe and test formation to 12.7 ppg equivalent mud weight.
April 20	6852'	Well kicked while drilling at 6638'. Weighted mud from 9.2-9.6 ppg.
April 21	6944'	Well kicked while drilling at 6862'. Weighted up to 10.4 ppg. Tripped to set teledrift sub.
April 26	7525'	Reaming to bottom with keyseat wiper. Weighted up to 11.3 ppg at 7195' and to 12.8 ppg at 7525'. Took small kicks during connections.
May 1	8383'	Reducing mud wt from 12.8 ppg to 10.3 ppg. Drilling 8½" hole. No problems.
May 11	9475'	Drill 8½" hole to 9475'. Run inflate packer BH DST from 9415-75'. Release packer & POOH 9'. Well flowing. Pressure up annulus 500 psi. DST tool stuck. Work stuck pipe.
May 22	9620'	Wash-over fish and recover two collars at a time. Recovered fish May 21. Run in and drill 8½" hole.
May 29	10486'	Drilled 8½" hole to 10455'. Lost cone and recovered. Cored interval 10455-10486. Recovered 31' of dense black dolomite.
June 4	10750'	Drill 8½" hole to 10684'. Fish for part of cone. Recover cone and drill 8½" hole.
June 6	11129'	Drill 8½" hole to 11,129' FTD. Log with Schlumberger.
June 7	11129'	Complete Schlumberger logs. DIL-BHC-S-GR-CAL; CNL-FDC; Dipmeter & Velocity Survey
June 9	PBTD 9490'	Run plug #1 - 10,900-11,129' plug #2 - 9,490-9,900' Run DST #2 over interval 8940-9490'
June 10	PBTD 8700'	DST #2 - 8940-9490'. Lower Prongs Creek. VO-130 mins, FSI-60 mins, IF-1357 psi, FF-2901 psi, FSI-3336 psi, IHH-4734 psi & FHH-4705 psi. Recovered 360' water cushion, 3390' gassy mud & 2330' salt water. GTS in 32 mins. Estimated rate 65 mcfpd. Ran plug #3 - 8700-9100'.
June 11	PBTD 5780'	Felt plug #3 at 8650'. Ran plug #4 - 5800-6500'. Felt plug #4 at 5780'.
June 13	--	Cut off casing string and spotted 20 sks cement in top of 9 5/8" casing. Welded 3/4" plate inside 13 3/8" casing. Well abandoned 3:00 PM - June 12th, 1977.

WELL HISTORY REPORT

SECTION I - SUMMARY OF WELL DATA

a) WELL NAME: Mobil Gulf Peel YT H-71
b) PERMITTEE: Gulf Oil Canada Ltd. and Mobil Oil Canada, Ltd.
c) OPERATOR: Mobil Oil Canada, Ltd.
d) LOCATION: Unit H, Section 71, Grid 66°30'N; 134°30'W
Unique Well Identifier: 300H716630134300
Universal Well Location Reference: 66.34128° N
134.72628° W

e) CO-ORDINATES: Latitude N 66°20'28.6"
Longitude W 134°43'34.6"
Bottom Hole Co-ordinates: 531.0' South; 834.1' west

f) PERMIT: 5678
g) DRILLING CONTRACTOR: Adeco Drilling and Engineering
Rotary Rig No. 5
h) DRILLING AUTHORITY: No. 869, December 13, 1976
i) CLASSIFICATION: Exploratory New Field Wildcat
j) ELEVATION: Ground 1661.0 (unsurveyed)
K.B. 1683.0
k) SPURRED: 11:00 p.m., February 5, 1977
l) COMPLETED DRILLING: June 5, 1977
m) TOTAL DEPTH: 11,129 ft. (MD); 11,071' (TVD)
n) WELL STATUS: Plugged and Abandoned
o) RIG RELEASE DATE: 2:00 P.M., June 12, 1977
p) HOLE SIZE: 36" to 30' (augered)
24" to 103'
17 1/2" to 1505'
12 1/4" to 6033'
8 1/2" to 11,129'
q) CASING: 30" to 14' (Conductor Pipe)
20" to 101'
13 3/8" to 1496'
9 5/8" to 6023'

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SECTION II - GEOLOGICAL SUMMARY

a) FORMATION TOPS

SAMPLES	DRILL DEPTH	TVD	SUBSEA
Upper Devonian			
Imperial	3252	3247	-1564
Canol	5950	5931	-4248
Middle Devonian			
Hume	6187	6172	-4489
Upper Prongs Creek	6401	6385	-4702
Lower Devonian			
Lower Prongs Creek	8930	8888	-7205
Basal Prongs Creek	10,007	9958	-8275
Total Depth	11,129	11,071	

b) CORED INTERVALS: Core #1 10,455' - 10,486' Basal Prongs Creek
Cut 31', Recovered 31'

c) CORE DESCRIPTION:

10,455 - 10,476 Dolomite, alternating gray and black beds, microcrystalline, very fine crystalline in part. Irregular fractures, some 60° to 80° from horizontal. Fractures filled with sparry Calcite and minor white Dolomite. Trace of finely disseminated Pyrite, trace of small black Chert nodules and siliceous lenses. Minor incipient Stylolites and trace of Bitumen on Stylolite surface. Tight, inter-crystalline porosity infilled with Bitumen. The dark gray to black units acquire their color from the Bitumen, and have slightly smaller crystal size than the lighter gray beds. No fossils observed. Apparent bedding dips of approximate 20°.

10,476 - 10,486 Dolomite as above, mottled appearance without the rhythmic bedding exhibited in the overlying section. Tight.

CORING TIMES: 6, 12, 4, 8, 7, 7, 6, 4, 8, 6, 6, 7, 7, 8, 8, 10, 8, 12, 9, 8, 21, 20, 22, 19, 21, 25, 23, 21, 26, 29, 29 min/ft

d) SAMPLE DESCRIPTION:

0 - 103 Gravel, multicolored with Chert pebbles and fragments with Shale, light brown and black, fairly hard. Minor clear Quartz crystals. Trace of Pyrite.

103 - 190 Shale, light to medium gray, soft, interbedded with Sandstone, quartzose, clear to buff to light brown, medium grained, with black Chert pebbles and fragments. Trace of

Pyrite throughout.

- 190 - 310 Shale, medium to dark gray, medium soft, interbedded with Sandstone, clear to tan to light brown, very fine grained with Chert pebbles, black. Trace of Pyrite.
- BASE OF PERMA FROST 305' (+1378')
- 310 - 500 Shale, medium gray, soft, occasional stringers of black Chert fragments and pebbles with minor Sandstone, as above. Trace of Pyrite.
- 500 - 650 Shale, medium to dark gray, with interbeds of Sandstone, white, slightly argillaceous, very fine to fine grained, with minor Chert fragments and pebbles, black. Trace of Pyrite.
- 650 - 760 Shale, medium gray, soft, interbedded with up to 60% Sandstone, white clear, very fine to fine grained, slightly argillaceous, siliceous cement in part. Trace of Chert and Pyrite as above.
- 760 - 785 Conglomerate, varicolored Chert, ferruginous, medium grained to pebble size with interbedded Sandstone, Quartzose, light gray to gray, fine grained, siliceous, tight. Trace of Pyrite.
- 785 - 800 Conglomerate (40%) as above with Sandstone (50%) and Shale (10%) gray, silty.
- 800 - 960 Shale, gray to dark gray, blocky, silty, with minor Siltstone, brown to green.
- 960 - 990 Shale, dark gray to black, blocky, hard, with minor Siltstone, gray.
- 990 - 1150 Shale, gray to brown, silty in part with minor Siltstone, light gray.
- 1150 - 1220 Shale, gray to brown, silty, with minor Sandstone, quartzose, medium grained, siliceous, tight, grading to Siltstone. Dolomitic in part, Calcite veins. Trace of Pyrite.
- 1220 - 1260 Sandstone, medium gray, very fine to medium grained, very siliceous, minor gray Chert, pebbles, trace of intergranular porosity. Trace of dead oil staining. No fluorescence or cut. Interbeds of Shale, dark brown, blocky, pyritic.
- 1260 - 1410 Shale, medium to dark gray, very silty, slightly dolomitic with thin Sandstone beds, very fine grained, tight. Trace of Siltstone and Pyrite.

- 1410 - 1450 Shale, as above, interbedded with Sandstone, light gray, very fine grained, subangular to subrounded, well sorted, siliceous, tight.
- 1450 - 1470 Sandstone, as above, trace of porosity and Bitumen, no cut or fluorescence.
- 1470 - 1505 Shale, dark gray, silty, with minor Siltstone, greyish brown.
- 1505 - 1560 Shale, dark gray, silty, with scattered stringers of Sandstone, quartzose, light brown to gray, angular, medium sorting, cherty in part. Trace of Pyrite.
- 1560 - 1650 Shale, dark gray, silty, with minor Siltstone, gray to dark brown, slightly dolomitic interbedded with Sandstone, gray very fine to medium grained. Trace of black Chert.
- 1650 - 1800 Shale, dark gray to black, interbedded with Sandstone, light gray to gray, quartzose, fine to medium grained, angular to subangular, slightly dolomitic, trace of pinpoint porosity, no oil staining. Trace of black Chert, Pyrite and minor Siltstone.
- 1800 - 1870 Sandstone, white quartzose, medium to coarse grained, angular to subangular, well rounded, with fair to good inter-crystalline porosity, no oil staining. Trace of Siltstone and Chert.
- 1870 - 1920 Sandstone, white, fine to medium grained, quartzitic, rounded to subrounded, medium sorting, scattered pinpoint porosity. Minor Shale, dark gray to brown, and trace of Chert, light brown, Siltstone and Pyrite.
- 1920 - 1960 Sandstone, light gray, fine to coarse grained, rounded to subrounded, medium sorting, scattered poor pinpoint porosity, slightly dolomitic and sideritic. Minor siliceous cement. Trace of Pyrite.
- 1960 - 2130 Shale, black, bituminous in part, minor Coal, with Sandstone stringers, very fine grained, angular to subangular, well sorted, sideritic and siliceous cement, tight. Trace of Siltstone, Chert and Pyrite.
- 2130 - 2170 Sandstone, light gray, very fine grained, angular to subangular, medium sorted, sideritic and siliceous cement, tight, with minor black Shale. Trace of Siltstone and Pyrite.
- 2170 - 2220 Shale, dark gray to black, with minor Sandstone, silty, siliceous, and slightly sideritic, tight, increasing to 50% at base. Trace of Siltstone and Pyrite.

- 2220 - 2390 Shale, dark gray to black, bituminous in part, slightly carbonaceous with trace of Coal. Minor stringers of Sandstone, gray to brown, very fine to fine grained, rounded to subrounded, medium sorting, sideritic and siliceous, tight. Trace of Pyrite.
- 2390 - 2410 Shale, black, trace of Coal and Pyrite.
- 2410 - 2520 Shale, dark gray, with minor Sandstone, light gray-brown, very fine to fine grained, medium sorting, rounded to subrounded, very siliceous, slightly sideritic, tight. Trace of Siltstone and Pyrite.
- 2520 - 2540 Shale, dark gray, silty, with minor Sandstone, gray, very fine to fine grained, slightly siliceous, tight. Trace of Pyrite.
- 2540 - 2640 Shale, gray to dark gray, very silty, with trace of Sandstone, gray to brown, very fine to coarse grained, rounded to subrounded, medium sorting, siliceous, sideritic, tight. Slightly dolomitic in part, with traces of black Chert and Pyrite.
- 2640 - 2760 Shale, light to dark gray, silty in part, interbedded with minor Sandstone stringers, light gray to brown, very fine to fine grained with occasional medium grained, rounded to subrounded, medium sorting, siliceous, slightly calcareous, rare poor pinpoint porosity, no oil staining. Minor white Chert. Trace of Siltstone and Pyrite.
- 2760 - 2830 Shale, light to dark gray, silty, with trace of Sandstone, light gray to brown, very fine to fine grained, rounded to subrounded, medium sorting, siliceous, silty, lightly calcareous. Trace of Pyrite.
- 2830 - 2900 Shale, as above, interbedded with Sandstone (40% at top) light gray to white, fine to medium grained, rounded to subrounded, medium sorting, slightly calcareous, poor pinpoint porosity, no oil staining. Minor Siltstone and trace of Pyrite.
- 2900 - 3040 Shale, light gray to black, interbedded with Sandstone (up to 20%), dark gray, very fine to fine grained, sub-angular, medium sorting, siliceous, calcareous, silty, tight. Traces of Coal and Pyrite.
- 3040 - 3060 Sandstone, light gray to white, fine to medium grained, angular to subangular, medium sorting, calcareous, angular to subangular, medium sorting, calcareous, very silty, siliceous, trace of porosity, no oil staining. Trace of light gray Shale, as above.

- 3060 - 3110 Sandstone, light gray, salt & pepper, very fine to fine grained, angular to subangular, medium sorting, siliceous, calcareous, silty, tight. Trace of Chert, white to gray and Pyrite. Trace of Shale, light to dark gray, silty.
- 3110 - 3150 Shale, light to dark gray, slightly bituminous, with Sandstone (15%) as above. Traces of Chert and Pyrite.
- 3150 - 3240 Shale, light to dark gray, with minor Sandstone, increasing to 50% at base, light gray, salt & pepper, very fine to fine grained, angular to subangular, medium sorting, silty, calcareous, with some cherty cementation, siliceous. Trace of Siltstone, Chert and Pyrite.
- 3240 - 3250 Siltstone, gray, arenaceous, grading to minor Sandstone, very fine grained, subangular, medium to well sorted, siliceous, slightly calcareous, with Shale (30%), gray to dark gray, slightly calcareous.
- MIDDLE DEVONIAN - IMPERIAL 3252 (MD), 3247 (TVD) -1564
- 3250 - 3400 Shale (60%) gray, silty, calcareous, with Shale (30%) dark gray to black, blocky, calcareous. Siltstone (10%), as above. Trace of Pyrite.
- 3400 - 3580 Shale, light gray to gray, silty in part, calcareous, interbedded with Siltstone, light gray to grayish brown, calcareous. Minor Calcite veins. Trace of black, bituminous Shale. Fossiliferous in part. Trace of Pyrite.
- 3580 - 3950 Shale, light gray to gray, silty in part, calcareous, interbedded with Siltstone, gray, salt and pepper, calcareous, friable. Trace of Pyrite.
- 3950 - 4220 Shale, gray to dark gray, slightly calcareous, with occasional silty streaks, gray, salt & pepper, slightly calcareous, slightly glauconitic in lower part of section.
- 4220 - 4240 Siltstone, gray to dark gray, calcareous, arenaceous, with Shale, gray, slightly calcareous.
- 4240 - 4360 Sandstone (40%) gray to salt & pepper, medium grained, subrounded, fair sorting, siliceous in part, calcareous in part, silty, minor scattered very poor porosity, Bitumen infilling, no cut or fluorescence. Siltstone (30%) and Shale (30%) as above. Traces of Glauconite and Pyrite.
- 4360 - 4500 Siltstone (50%) as above, interbedded with Shale, (40%) dark gray to black, blocky, slightly calcareous, with Sandstone (10%) as above. Trace poor porosity with Bitumen infill. No cut or fluorescence. Trace of Pyrite.

- 4500 - 4520 Shale, dark gray to black, blocky, silty, pyritic, with Siltstone, light gray to gray to salt & pepper, slightly calcareous.
- 4520 - 4640 Shale (50%) as above with Sandstone (50%), light gray to salt & pepper, very fine grained, subangular, well sorting, silty, calcareous in part, tight. Interbedded with minor Siltstone, as above. Minor Calcite veining at base. Traces of Pyrite.
- 4640 - 4650 Siltstone, very light gray, siliceous, arenaceous, calcareous, grading in part to Sandstone, very light gray, very fine grained, subangular, well sorted, very silty, siliceous in part, calcareous, tight.
- 4650 - 4740 Sandstone (90%) light gray, salt & pepper, very fine grained, subrounded, well sorted, silty, siliceous, calcareous, slightly glauconitic, tight, with Shale (10%) dark gray to black, silty, calcareous, carbonaceous, slightly pyritic. Minor Calcite veins.
- 4740 - 4770 Siltstone (50%) light gray, salt & pepper, arenaceous, grading in part to Sandstone, as above, with Shale (50%) gray to dark gray, pyritic, silty and Calcareous.
- 4770 - 4810 Sandstone, light gray to gray, salt & pepper, very fine grained, subrounded, well sorted, very silty, calcareous and siliceous, occasional bituminous partings, slightly glauconitic, tight. Minor Shale, dark gray to black, silty, carbonaceous.
- 4810 - 4980 Siltstone (50%) light to medium to dark gray, salt & pepper, arenaceous, calcareous, siliceous. Shale (35%), medium to dark gray to black, silty, carbonaceous in part, pyritic. Sandstone (15%) tan to medium gray, salt & pepper, fine grained, subrounded well sorted, silty matrix, calcareous cement, siliceous in part. Trace Calcite veining.
- 4980 - 5120 Siltstone, Shale and Sandstone, as above with Calcite infilling fractures and minor Bitumin partings, no cut or fluorescence.
- 5120 - 5330 Siltstone (50%) light to medium gray to tan, arenaceous, micromicaceous, calcareous. Shale (40%) dark gray to black, micromicaceous, with occasional Calcite veining. Sandstone (10%), light gray, very fine grained, subrounded, well sorted, non-siliceous, with minute Bitumen partings scattered throughout the silts and sands and decreasing towards base. Trace of Pyrite.

- 5330 - 5500 Shale, medium to dark gray to black, pyritic, slightly calcareous, minor Calcite veining and Bitumen lined fractures, interbedded with minor Siltstone, medium to dark gray-brown, calcareous, arenaceous in part, very slightly bituminous.
- 5500 - 5600 Shale, medium gray, with bitumen lined fractures, pyritic, silty in part, interbedded with Siltstone, medium to dark gray-brown, arenaceous, calcareous, bituminous in part, and Sandstone, medium brown, very fine grained, salt & pepper, well sorted, very silty, calcareous, tight.
- 5600 - 5630 Shale (60%), gray to dark gray, pyritic in part, slightly calcareous, with Siltstone (40%), gray to dark gray to brown, arenaceous, calcareous.
- 5630 - 5680 Sandstone, brown to salt & pepper, very fine grained, subrounded, calcareous, silty, siliceous, very slightly glauconitic, tight. Interbedded with Shale and Siltstone as above.
- 5680 - 5780 Siltstone, medium brown, as above, interbedded with Shale, gray to grayish brown, slightly calcareous, silty in part.
- 5780 - 5990 Shale, dark gray to black, silty, calcareous in part, in part blocky, pyritic, with interbeds of Siltstone, brown to dark brown, and salt & pepper, calcareous, arenaceous, siliceous in part.

CANOL 5950 (MD) 5931 (TVD) -4248

- 5990 - 6030 Siltstone, light tan to tan, salt & pepper, calcareous, arenaceous, interbedded with Shale as above with fractures infilled with Bitumen.
- 6030 - 6100 Shale, dark gray to black, pyritic, bituminous and Calcite lined fractures interbedded with Siltstone, dark gray to brown, calcareous, and Sandstone, very fine grained, slightly argillaceous, tight. Trace of Mudstone. Trace of Limestone, gray-brown.
- 6100 - 6160 Shale, as above with minor Sandstone, salt & pepper very fine grained, slightly dolomitic, silty in part. Trace of Limestone, grayish brown, argillaceous, and white crystalline Calcite, fossiliferous in part.
- 6160 - 6200 Shale, black, silty, with stringers of Limestone, grayish brown, microcrystalline, silty, tight. Minor Crystalline Calcite and Pyrite. Trace of dark gray Chert.

MIDDLE DEVONIAN - HUME 6187 (MD) 6172 (TVD) -4489

- 6200 - 6240 Limestone, light gray to gray, microcrystalline, dense, argillaceous interbedded with Siltstone, dark gray, dolomitic, shaly, Shale as above and Mudstone, gray, soft, limy. Trace of Pyrite.
- 6240 - 6250 Siltstone (50%) dark gray, argillaceous, slightly dolomitic, with Limestone (40%) light gray to gray, marly, with some poor to fair intergranular and pinpoint porosity. No oil staining or cut. Limestone (10%) gray, dense, microcrystalline. Trace of Pyrite.
- 6250 - 6330 Limestone, as above, tight, interbedded with Mudstone, dark gray, calcareous, argillaceous. Trace of Calcite crystals and Pyrite.
- 6330 - 6580 Shale, gray, calcareous, with Mudstone, dark gray, calcareous, argillaceous, and marly Limestone, as above, minor Calcite veins and a trace of Pyrite.
- UPPER PRONGS CREEK 6401 (MD) 6385 (TVD) -4702
- 6580 - 6640 Shale, gray, calcareous in part, with minor black Shale, and Siltstone, argillaceous, poor to fair intercrystalline and pinpoint porosity, no oil staining. Trace of Calcite crystals.
- 6640 - 6850 Shale, gray with stringers of light gray and black Shale, calcareous, with Siltstone, argillaceous, shaly. Minor Limestone, brown, crystalline, mottled, tight, increasing to base. Slightly dolomitic and traces of Pyrite and veins of Calcite. Slightly fossiliferous.
- 6850 - 6930 Shale, gray, calcareous, dolomitic in part, with minor Shale, black, siliceous, hard, interbedded with Marlstone shaly, light gray, scattered earthy and pinpoint porosity, no oil staining. Trace of Limestone, grayish-brown crystalline, crinoidal in part, with traces of Sandstone, light gray, very fine grained, slightly dolomitic, tight. Trace of Calcite crystals and Pyrite.
- 6930 - 7150 Shale, gray, calcareous, interbedded with Mudstone, calcareous. Minor Shale, black, hard, with minor Marlstone, light gray, soft, earthy and pinpoint porosity, no oil staining or fluorescence. Scattered veins of Calcite and trace of Limestone, gray, crystalline.
- 7150 - 7300 Shale, gray, calcareous, with Mudstone, calcareous. Minor scattered Limestone, gray, microcrystalline, grading to Marlstone, light gray. Trace of crinoidal Limestone. Trace of fractures partially infilled with Calcite.
- 7300 - 7370 Shale, gray to dark gray, calcareous, with Sandstone, shaly. Interbedded with Marlstone soft, light gray, poor to fair earthy porosity, no oil staining or fluorescence. Trace of Limestone, argillaceous, mottled, fossiliferous in part.

- 7370 - 7440 Shale and Mudstone as above becoming darker gray and more calcareous towards base. Grading to Limestone, dark gray, argillaceous, containing crinoid and brachiopod fragments. Increasing Limestone towards base.
- 7440 - 7490 Shale and Mudstone as above with Limestone, dark gray, microcrystalline, pyritic in part, minor pinpoint porosity, and Marlstone, light gray to brown, abundant crinoids some being two hole crinoids. Trace of black bituminous Shale.
- 7490 - 7520 Limestone, dark gray, microcrystalline pyritic in part, minor pinpoint porosity, no oil staining, grading to Marlstone, light gray to light brown, crinoidal with Shale and Mudstone as above. Trace of black Shale. Graptolite and two hole crinoids.
- 7520 - 7620 Shale, gray, slightly calcareous, grading to Mudstone, gray, calcareous, with minor black Shale, slightly pyritic. Limestone, gray to dark brown, argillaceous, microcrystalline, fossiliferous in part, tight. Trace of Sandstone, very fine grained, Calcite crystals and gray to brown Chert.
- 7620 - 7730 Shale, gray, calcareous, with minor Limestone, gray to dark brown, microcrystalline, argillaceous. Traces of Siltstone and Sandstone, very fine grained.
- 7730 - 7850 Shale, dark gray, slightly calcareous, with occasional streaks of Limestone, gray to dark brown, argillaceous.
- 7850 - 7990 Shale, dark greenish gray, very slightly calcareous, with trace of fractures. Fossiliferous and occasional Calcite streaks.
- 7990 - 8210 Shale, dark gray, very slightly calcareous, with Calcite streaks. Crinoids and trace of fracturing. A thin Bentonite bed, pale gray, slightly calcareous.
- 8210 - 8460 Shale, dark gray, very slightly calcareous with trace of white Dolomite infilling fractures.
- 8460 - 8690 Shale, dark gray, very slightly calcareous, bituminous, with interbeds of Limestone, gray, microcrystalline, to very fine crystalline, shelly in part, tight.
- 8690 - 8850 Limestone, gray to dark gray, microcrystalline to very fine crystalline, argillaceous, shelly in part, slightly pelletoidal, tight, becoming dark gray, very argillaceous at base with traces of Pyrite.
- 8850 - 8980 Shale, greenish gray, dolomitic, interbedded with Limestone, greenish gray, dolomitic, tight and increasing towards base.

LOWER DEVONIAN 8930 (MD) 8888 (TVD) -7205

- 8980 - 9000 Dolomite, gray, microcrystalline, argillaceous, calcareous, becoming clean non-calcareous dolomite near base. Trace of intercrystalline porosity. Trace of gray Shale.
- 9000 - 9025 Shale, dark gray, dolomitic, interbedded and intergrading with dolomite, microcrystalline, pale to dark gray, argillaceous to very argillaceous, calcareous in part. Trace of Pyrite.
- 9025 - 9090 Dolomite, pale gray to gray, microcrystalline. slightly calcareous, some slightly argillaceous, occasional fine crystalline. Trace of vuggy and intercrystalline porosity no cut or fluorescence. Minor white secondary calcareous dolomite, trace of secondary quartz. Trace of Pyrite.
- 9090 - 9120 Dolomite, pale gray, microcrystalline, very slightly argillaceous, occasional fine crystalline. Streaks of very fine crystalline and vuggy porosity with pyrobitumen. Trace of white veined calcareous Dolomite.
- 9120 - 9140 Dolomite, pale gray, microcrystalline, slightly argillaceous, trace of intercrystalline and vuggy porosity.
- 9140 - 9180 Dolomite, as above, tight.
- 9180 - 9300 Dolomite, pale gray, microcrystalline to medium crystalline, very slightly argillaceous, very slightly calcareous, minor white calcareous Dolomite, trace of intercrystalline, and vuggy porosity. Trace of Pyrite.
- 9300 - 9350 Dolomite, light gray, microcrystalline, in part fine to medium crystalline, slightly argillaceous. Trace of white calcareous Dolomite. Trace of vuggy porosity with pyrobitumen. Rare crinoids.
- 9350 - 9365 Dolomite, light gray, microcrystalline to fine crystalline, trace vuggy porosity with pyrobitumen.
- 9365 - 9425 Dolomite, light gray, microcrystalline, minor fine to medium crystalline, lightly argillaceous, trace of vuggy and intercrystalline porosity associated with pyrobitumen and becoming tight near base. Traces of Dolomite, white, calcareous, infilling fractures. Slightly crinoidal.
- 9425 - 9475 Dolomite, light gray, microcrystalline to finely crystalline. Trace of poor, vuggy and intercrystalline porosity associated with pyrobitumen. Occasional euhedral quartz crystals presumably from vugs. Minor Dolomite, white, calcareous, infilling fractures.
- 9475 - 9560 Dolomite, buff to medium gray with minor black, micro to fine Crystalline, slightly argillaceous, trace to abundant pyrobitumen at base. Trace of vugs and quartz. Trace

of vugs and quartz. Trace of Dolomite rhombs and chalky Limestone.

- 9560 - 9720 Dolomite, buff, micro to fine crystalline, argillaceous, slightly calcareous, trace of poor intercrystalline porosity, interbedded with dolomite, black, silty, argillaceous, microcrystalline, pyritic, with trace of poor intercrystalline porosity. Trace of Quartz, white Calcite and gray-green Shale.
- 9720 - 9740 Dolomite, buff to light brown, microcrystalline, silty, with Dolomite, medium gray to black, argillaceous, trace Quartz, and white Dolomite veins.
- 9740 - 9790 Dolomite, buff, medium gray and light to medium brown microcrystalline, silty, argillaceous, with minor black Dolomite, argillaceous. Trace of Quartz, white dolomite veins white, chalky, Limestone, white Calcite and Pyrite.
- 9790 - 9840 Dolomite, buff to light brown, microcrystalline, slightly calcareous, with Dolomite, medium brown, micro to fine crystalline, tight. Minor Dolomite, black, argillaceous, intercrystalline porosity, plugged with pyrobitumen. Trace of Quartz crystals.
- 9840 - 9910 Dolomite, light to medium brown, microcrystalline, with minor Dolomite, buff to white, sacchroidal. Trace of vugs.
- 9910 - 9950 Dolomite, medium gray, microcrystalline, very slightly argillaceous. Trace of white Dolomite crystals, fine, black argillaceous partings.
- 9950 - 9960 Dolomite, medium gray to white, microcrystalline, with trace of white Dolomite crystals and Calcite crystals.
- 9960 - 10,080 Dolomite, medium brown, very fine to fine crystalline, white Dolomite rhombs slightly argillaceous, dense, with minor Dolomite, buff, sacchroidal, slightly calcareous, slightly fragmental, pyritic. Trace of pyrobitumen and Quartz crystals. Increasing Calcite and Dolomite crystals and black argillaceous partings at base.

BASAL PRONGS CREEK 10,007 (MD) 9958 (TVD) -8275

- 10,080 - 10,150 Dolomite, light gray to white, fine crystalline, with Dolomite, light gray, sacchroidal, trace of argillaceous partings, Pyrite and pyrobitumen.
- 10,150 - 10,170 Dolomite, buff to medium brown, micro to fine crystalline, slightly argillaceous, with minor white Dolomite rhombs. Trace of pyrobitumen and trace of intercrystalline and vuggy porosity with pyrobitumen.

- 10,170 - 10,220 Dolomite, gray to buff, very fine to fine crystalline, sucrosic, trace poor intercrystalline and pinpoint porosity with pyrobitumen infilling, slightly argillaceous in part, minor white, calcareous Dolomite. Dolomite and Quartz crystals. Trace of Pyrite.
- 10,220 - 10,390 Dolomite, gray to dark gray, very fine to fine crystalline, sucrosic, trace poor pinpoint porosity with pyrobitumen, no staining, trace Calcite veins. Minor Dolomite, gray to buff.
- 10,390 - 10,455 Dolomite, gray to dark gray, minor black, very fine to fine crystalline, minor medium crystalline, sucrosic some intercrystalline porosity filled with pyrobitumen.
- 10,455 - 10,486 See Core Description
- 10,486 - 10,510 Dolomite, gray to dark gray to black, microcrystalline, to very fine crystalline, white sparry Calcite leaking fractures, trace of siliceous lenses and black Chert nodules, stylolitic in part, trace of Bitumen, tight.
- 10,510 - 10,590 Dolomite, light gray to gray, minor black, micro to very fine crystalline. Minor white Calcite and Dolomite crystals, trace black and gray Chert, trace Bitumen and silica infilling intercrystalline porosity, tight
- 10,590 - 10,680 Dolomite, gray to dark gray, microcrystalline to very fine crystalline, minor white sparry Calcite crystals, and trace of white Dolomite crystals. Trace of dark gray Chert and silica. Trace of Pyrite and Bitumen. Tight.
- 10,680 - 10,795 Dolomite, gray to dark gray, microcrystalline, to very fine crystalline, slightly argillaceous. Minor white sparry Calcite and white Dolomite infilling fractures. Trace of Bitumen and Pyrite. Tight.
- 10,795 - 10,880 Dolomite, light gray to white, with minor dark gray, as above, microcrystalline to very fine crystalline, chalky in part, common white sparry calcite infilling fractures, trace of white Dolomite crystals. Scattered finely disseminated Pyrite, traces of Chert, and Pyrobitumen, tight. Increasing gray to dark gray Dolomite at base.
- 10,880 - 10,900 Dolomite, gray to dark gray interbedded with Dolomite, light gray, microcrystalline to very fine crystalline, slightly argillaceous. Minor Pyrite and pyrobitumen, tight.
- 10,900 - 10,970 Dolomite, gray, microcrystalline, minor very fine crystalline, slightly argillaceous, slightly siliceous, chalky in part. Trace of white Calcite and Dolomite crystals. Trace of Pyrite, brown Chert and pyrobitumen, tight.

- 10,970 - 11,030 Dolomite, light gray to white with increasing dark gray to base, microcrystalline, to very fine crystalline, trace clear Quartz crystals, chalky in part, slightly argillaceous, trace of intercrystalline porosity. Trace of Pyrite white crystalline dolomite and white Calcite crystals.
- 11,030 - 11,129 Dolomite, gray, grading to black, microcrystalline, (T.D.) siliceous in part, slightly argillaceous, slightly bituminous, trace of Quartz crystals and Pyrite, minor Calcite and white Dolomite infilling fractures, minor dark gray Chert increasing towards base, tight.

e) PALEONTOLOGICAL DETERMINATION:

None available at present.

SECTION III - ENGINEERING SUMMARY

a) REPORT OF DRILLSTEM TESTS

DST #1 - 9415 - 9475 (Lower Prongs Creek - Open Hole)

Used 4000' of water cushion
PF 10; ISI 60; VO 120; FSI 240
Weak air blow on preflow. Weak blow on valve open increasing
to fair after 75 min. No gas to surface. Deflated packers.
Pulled up 9 feet. Mud flowed from annulus at 1.5 to 3.0 bbls/ hr.
Filled pipe. Attempted to pull up. Test tool stuck in hole.
Circulated test recovery up annulus. Backed off, washed over and
fished. *Recovered test tool after 10 days. Calculations
from pressures indicate that about 100' of fluid was produced.

PPF 1561 IFP 1541 ISI 3670 IHH 5138
FFP 1580 FSI 3660 FHH 5138

BHT 206°F
(Outside recorder at 9425')

*Bottom hole sampler was found to be empty. Lab No. 7011-7387.

DST #2 - 8940 - 9490 (Lower Prongs Creek - Open Hole)

PF --; ISI --; VO 130; FSI 60
Ran 570' water cushion.
Good air blow. Gas to surface in 32 min. at maximum 65 Mcf/d.
Burnt with lazy 5' flare.
Recovered .360' water cushion
3390' gassified drilling mud
2230' gassified salt water (150,401 ppm NaCl)

IFP 1108 ISI -- IHH 4705
FFP 2904 FSI 3323 FHH 4705
BHT 232°F
(Outside recorder at 8954')

B. Casing Record

i) Conductor Pipe

30" conductor pipe was set at 14 ft. and cemented with 60 sacks "Arctic Set" cement.

ii) Conductor Casing

20" 94# H-40 ST & C conductor casing was landed at 101 ft and cemented to surface with 575 sacks "Arctic Set" cement by the inner string cementing method. A float shoe was run on bottom with centralizers on the first and third joints. Slurry density was 15.4-15.6 ppg.

iii) Surface Casing

13 3/8" 54.5# & 61# K-55 BT & C surface casing was landed at 1496' KB a WOTCO float shoe, float collar and turbolizers on joints 1, 3, 5, 7, 9, 12, 15, 17, 25 and 33. The casing was cemented by the inner string method with 3115 sacks "Arctic Set" cement. There were constant mud returns while cementing although surface cement returns were not obtained.

iv) Intermediate Casing

9 5/8" 43.5# MN-80 LT & C intermediate casing was landed at 6023 ft. with WOTCO float shoe and collar and turbolizers on joints 1-11, 41, 72, 109-118 and 153. The cement preflush consisted of 20 bbls water, 30 bbls diesel fuel and 20 bbls water. The casing was cemented in turbulent flow with 1560 ft³ Oilwell G + 12% gel + 0.75% CFR-2 followed by 475 ft³ Neat Oilwell G + 0.75% CFR-2 and 0.25% HR-4. The estimated cement top was 1000 feet KB.

C. Bit Record

See attached bit records.

This well was drilled with 15 bits on surface hole and 27 bits on intermediate and main hole. Total rotating time was 1480 hours.

D. Mud Report

Fresh water extended bentonite mud was used on surface hole to 768' until chloride content became too high for flocculating. At this depth the mud was changed to a KCl-bentonite-XC polymer system which was maintained to total depth.

A list of material used is attached.

E. Deviation Record

a) Surface Hole

17 1/2"

103' - 1/8°	8 1/2" - 638' - 1 1/4°	12 1/4" - 960' - 1/8°
209' - 1°	700' - 1.6°	1048' - 1/2°
300' - 1/2°	765' - 0.6°	1142' - 0.6°
505' - 1/4°	858' - 0.4°	1246' - 1/2°
648' - 1 1/4°	952' - 0.6°	1340' - 3/4°
768' - 3°		1433' - 1°
782' - 3 1/2°		1500' - 1°
806' - 3 5/8°		

b) 12¼" Intermediate Hole

1606' - 1.1 ⁰	3449' - 2.6 ⁰	4623' - 3 ⁰
1720' - 1 ⁰	3578' - 1.8 ⁰	4725' - 3¼ ⁰
1842' - 1.4 ⁰	3697' - 0.9 ⁰	4840' - 3 3/4 ⁰
2062' - 1.4 ⁰	3791' - 1.4 ⁰	5068' - 3¼ ⁰
2218' - 1.5 ⁰	3914' - 1.7 ⁰	5185' - 3.9 ⁰
2430' - 1.6 ⁰	4007' - 2.2 ⁰	5308' - 3.3 ⁰
2586' - 2.1 ⁰	4102' - 2.9 ⁰	5435' - 3.6 ⁰
2685' - 3 ⁰	4194' - 3 ⁰	5558' - 4 ⁰
2838' - 2.8 ⁰	4291' - 3 ⁰	5685' - 3 3/4 ⁰
3028' - 2.9 ⁰	4384' - 3 ⁰	5807' - 3.9 ⁰
3214' - 3.1 ⁰	4477' - 3.5 ⁰	5807' - 3.9 ⁰

c) 8½" Main Hole

6059' - 3.8 ⁰	7525' - 8 ⁰	8980' - 5½ ⁰
6125' - 3.4 ⁰	7609' - 7 ⁰	9050' - 5 ⁰
6189' - 3 ⁰	7676' - 7½ ⁰	9130' - 6 ⁰
6293' - 3 ⁰	7898' - 7 ⁰	9300' - 6½ ⁰
6463' - 4 ⁰	7890' - 6½ ⁰	9470' - 7 ⁰
6600' - 6.2 ⁰	8085' - 6½ ⁰	9590' - 6½ ⁰
6732' - 7½ ⁰	8185' - 6½ ⁰	9755' - 5½ ⁰
6825' - 8.8 ⁰	8265' - 6½ ⁰	9975' - 6 ⁰
6915' - 9½ ⁰	8366' - 6½ ⁰	10065' - 5 ⁰
7075' - 9½ ⁰	8459' - 5 ⁰	10346' - 4¼ ⁰
7202' - 8½ ⁰	8550' - 5 ⁰	10610' - 5½ ⁰
7295' - 7½ ⁰	8649' - 4½ ⁰	
7448' - 7 ⁰	8850' - 4½ ⁰	

F. Abandonment Plugs

The following abandonment plugs were run in accordance with DIAND requirements:

<u>Plug No.</u>	<u>Interval</u>	<u>Formation</u>	<u>Remarks</u>
1	11,129-10,900	Basal Prongs Creek Carbonate	100 sx Oilwell G - not felt
2	9,900-9,450	Lower Prongs Creek	175 sx Oilwell G - felt at 9490'
3	9,100-8,700	Lower Prongs Creek	200 sx Oilwell G - felt at 8650'
4	6,500-5,800	Intermediate Casing to Upper Prongs Creek	450 sx Oilwell G - felt at 5780'
5	Surface	Surface & Intermediate Casing	20 sx Oilwell G placed at top of 9 5/8" intermediate casing. 3/4" plate welded over 13 3/8" surface casing

G. Lost Circulation Zones

21 bbls mud was lost while drilling 1802-60' KB. No measures were taken and no other lost circulation zones were encountered.

The well kicked gas while drilling at 6638' with a mud weight of 9.3 ppg. Well was closed in and kick circulated to surface. Mud weight was raised to 9.7 ppg.

The well kicked while drilling at 6862' and after making a connection at 7195'. The mud weight was increased to 10.4 ppg and 11.3 ppg respectively. These kicks were circulated to surface without problems.

SECTION IV - LOGS

Run #1

Dual Induction - Laterolog	1498 - 102'	March 7, 1977
Borehole Compensated Sonic Log	1464 - 102'	March 7, 1977
4-Arm Caliper	1502 - 102'	March 7, 1977

Run #2

Dual Induction - Laterolog	6009 - 1494'	April 13, 1977
Borehole Compensated Sonic Log	6019 - 1494'	April 12, 1977
Compensated Neutron - Formation Density	6014 - 1494'	April 13, 1977
Continuous Dipmeter	6023 - 1494'	April 12, 1977

Run #3

Dual Induction - Laterolog	11,110 - 6005'	June 5, 1977
Borehole Compensated Sonic Log	11,078 - 6005'	June 5, 1977
Compensated Neutron - Formation Density	11,112 - 6005'	June 6, 1977

SECTION V - ANALYSIS

a) CORE ANALYSIS

Lab No. 7004 - 7337

b) WATER ANALYSIS

DST #1: C77-1672
DST #2: C77-1880
C77-1880-2

c) GAS ANALYSIS

DST #2: C77-1901

d) OIL ANALYSIS

Nil



DEPARTMENT OF INDIAN AFFAIRS AND NORTHERN DEVELOPMENT
OIL AND MINERAL DIVISION

Application for a Drilling Authority

This notice of intention to begin drilling operations, in triplicate, and where required a plan of survey approved by the Surveyor General showing the target area or the site of the well must be submitted and approved before commencing operations.

In compliance with the "Canada Oil and Gas Land Regulations", application is hereby made for approval to drill:-

Name and number of well ... Mobil, Gulf, Peel, XT, H-71

Location: Unit H Section 71 Grid 66°30' - 134°30'
 Latitude 66°20'28" - 6 Longitude 134°43'34" - 6
 Unique Well Identifier 300H716630134300
 Universal Well Location Reference 66, 34128°N - 134, 72628°W

Elevation: Ground .. 1660. est. K.B. 1680. est. feet above sea-level.
 Well is expected to produce from ... Gossage Reef formation at a depth
 of about 9,500. KB feet. Expected total final depth 11,500.
 Area assigned to well

(for District Conservation Engineer's use only)

Permit No. ... 5678 Lease No. Acreage
 Permittee, licensee, or lessee ... Gulf, Oil, Canada, Limited, & Mobil Oil, Canada, Ltd.
 Exploratory Licence No. ... 2461
 Surface owned by Crown or
 (if alienated submit name and address of owner and occupant.)

Petroleum and natural gas rights owned by Crown
 We propose to use the following strings of casing, either cementing or landing them as indicated below:-

Casing Size O.D. (Inches)	Weight (Lb./Ft.)	Grade	New or Used	Estimated Depth	Sacks of Cement
1. 2.0.	94.5.	H-40.	New.	170.	500.
2. 13. 3/8.	61.5 & 54.	K-55.	New.	1500.	2100.
3. 9. 5/8.	43.5.	MN-80.	New.	6000.	2400.
4. 7.	29. & 26.	N-80.	New.	11500.	1000.
5.

Expected water, gas, and oil horizons and type of control equipment
 Gas from top of Gossage at 9500 K.B. and water below
 3 single gate ram type preventers with 1 bag type Annuler preventer

Well will be drilled with Rotary Rig No. 5. by ... Adeco Drilling and Engineering
 (Drilling Contractor or company)

Responsible agent of applicant:- Contractor's Business Licence No. 1-1361
 At well ... J. E. Routledge At registered office
 Address c/o Mobil Oil, Canada Address 900-10050-112 Street, Edmonton, Alberta
 It is understood that if changes become necessary, notice of the change of plan will be submitted.
 Dated at ... Calgary, this ... 27th ... day of ... October ... 19 76
 Signed by ... Company ... Mobil Oil Canada, Ltd.
 Title ... Land Supervisor Operator's Licence No.

(For Oil and Mineral Division use only)

APPROVED

This application has been examined and approved subject to the following conditions:
 Conditions of approval are attached to and are made a part of
 Drilling Authority No. 869.

Dated 13 December 19 76. Regional District Conservation Engineer

Forms to be submitted to District Conservation Engineer,
 Department of Indian Affairs and Northern Development.

CONDITIONS OF APPROVAL TO BE ATTACHED TO AND MADE A PART OF DRILLING AUTHORITY.

NO 869 FOR Mobil Gulf Peel H-71 APPROVED 13-12-76

CONDITIONS OF APPROVAL:

1. Copies of this Drilling Authority and Amendments to a Drilling Authority shall be exhibited at the drilling rig in both the Dog-house and the Drilling Foreman's office between spud and rig release dates.
2. The Company shall submit to this office, on Monday of each week, the latest reports received on the progress of the well.
3. During well drilling and testing operations, every effort shall be made to ensure that drilling fluids, chemicals and wastes shall be disposed of or contained in a manner that will prevent contamination of adjacent areas, or sub-surface waters.
4. We draw your attention to Sections 95 and 96 of the Canada Oil and Gas Land Regulations.
5. Approval must be obtained from the Regional Oil and Gas Conservation Engineer to run any casing or liners not approved on the drilling authority.
6. All shows of oil and/or gas, and water flows, or any unusual events shall be reported to the Regional Oil and Gas Conservation Engineer immediately.
7. Should a fatal accident occur, the Regional Oil and Gas Conservation Engineer shall be notified immediately and the scene of the accident shall be left intact, unless the safety considerations dictate otherwise, pending investigation by official authorities.
If the requirement to leave the scene of the accident intact interferes, in the opinion of the Operator, with the safe and efficient operation of the drilling rig, drilling operations shall be suspended after ensuring the safety of the well in the suspended state and permission to resume drilling must be obtained from the Regional Oil and Gas Conservation Engineer.
8. One field print copy of all logs and fluid analyses must be forwarded to the Regional Oil and Gas Conservation Engineer and one copy to the following address:

Chief Petroleum Engineer
Oil & Gas Drilling & Conservation Section,
Oil and Mineral Division,
Department of Indian & Northern Affairs.
Room 555, Centennial Tower,
400 Laurier Avenue, West,
OTTAWA, Ontario,
K1A 0H4.
9. Formation tops (samples or logs) of the section penetrated each week are to be reported with the weekly drilling reports.
10. The Regional Oil and Gas Conservation Engineer must be notified at least 24 hours before spudding the well.
11. Permission to drill beyond the approved final total depth MUST be obtained from the Regional Oil and Gas Conservation Engineer.

A. F. Halcrow,
Regional Oil & Gas Conservation
Engineer,
200 Range Road,
Whitehorse, Y.T.



DEPARTMENT OF INDIAN AFFAIRS AND NORTHERN DEVELOPMENT
OIL AND MINERAL DIVISION

Application to Abandon a Well or Suspend Drilling

In compliance with the "Canada Oil and Gas Land Regulations", application is hereby made for approval to abandon, to suspend drilling

Name and number of well Mobil Gulf Peel YT H-71
Location: Unit H Section 71 Grid 66930' 1340 30'
Latitude 66° 20' 28.6" N Longitude 134° 43' 34.6" W
From Established Reference Marker
Universal Well Location Reference 300 H716630134300
Permit No. 5678 Lease No.

Mobil Oil Canada, Ltd.
(Permitter, Licensee, Lessee)

Date of commencement of proposed program June 8th, 1977

OIL, GAS, AND WATER ENCOUNTERED (Depths)

Oil at DST #2 over interval 8940-9490 recovered gassified salt water
Gas at plus gas to surface at rate too small to measure Gas recovery
Water at was of too small volume to be economic
Total Depth 11129' KB Date of last operations June 9th, 1977 - DST #2
Present condition of well
Newly drilled well

CASING RECORD

Casing Size O.D. Inches	Weight	Amount	Set At—	Sacks of Cement and Additives	Amount Pulled
1. 20	94#/ft	126'	101'	5755 x Arctic Set	
2. 13 3/8	54.5261#/ft	1498'	1496'	3115 sx Oilwell G +12% Gel	
3.				+ 475 sx Oilwell G + 0.75% CFR-2	
4.				+ 0.25% HR-4.	
5.					

PROPOSED ABANDONMENT PROGRAM

No.	Plug		Geological Formation	Number of Sacks of Cement	Remarks
	Position				
1.	10900-11129'		Basal Prongs Creek Carbonate	100	Not felt
2.	9450-9900'		Lower Prongs Creek	175	Felt at 9490'
3.	8700-9100'		Upper/Lower Prongs Creek	200	Felt at 8650'
4.	5800-6500'		Canol - Imperial	450	Felt at 5780'

The following logs have been run DIL; BHCS-CAL, CHL-FDC, DIPIETER, VELOCITY SURVEY
Other operations proposed

Operations to be carried out by Adeco Drilling Contractor Licence No. 1-1361
Address 505 - 2nd Street, Calgary, Alberta Address
Responsible Agent in field G.A. Berreth
Dated at Edmonton, Alberta this 15th Day of June 19 77
Signed by J.E. Reutledge Company Mobil Oil Canada, Ltd.
Title Drilling Superintendent Operator's Exploratory Licence No. 2461

Note:—The District Conservation Engineer's office must be notified before work is commenced.

(For OIL AND MINERAL DIVISION use only)

APPROVAL

This application has been examined and proposed programme approved, subject to the following conditions:

Dated 19 District Conservation Engineer

To be submitted in duplicate within thirty days after the completion, result, abandonment, resumption or suspension of every well.
 À présenter en double dans les trente jours suivant l'achèvement, le terminement, l'abandon et le réconditionnement de chaque puits, ou après suspension.

Well Name & No. - Nom et n° du puits Mobil Gulf Peel YT II-71		Permit No. - N° de permis 5678	Lease No. - N° de concession
Permittee, Licensee, Lessee - (Détenant de permis ou de licence, du concessionnaire) Mobil Oil Canada, Ltd.		Exploratory License No. - N° de licence de sondage 2461	
(Operator) - (Le-facteur) Mobil Oil Canada, Ltd.		Exploratory License No. - N° de licence de sondage 2461	
LOCATION - EMPLACEMENT			
Unit - Unité H	Section 71	Grid - Échelle quadrillée 66°30' - 134°30'	Latitude 66°29'28.6"N
Unique Well Identifier - Code d'ordinateur 300H716630134300		Longitude 134°43'34.6"W	
Universal Well Location Reference - Références universelles d'emplacement du puits 66.34128°N-134.72628°W			

Spudded Début des travaux	Date Feb. 5/77	Depth - Profondeur	Foot(s) Gisement(s)
Suspended Suspension des travaux			Interval(s) Open to Production Interval(s) de production NIL
Resumed Operations Reprise des travaux			
Finished Drilling Forage terminé	June 6/77	11,129'	
Deepened Approfondissement			
Complete (Gas/Oil) Achèvement (Gaz/Pétrole)			
Abandoned Abandon	June 12/77		Elevation: Gr. 1661 K.B. 1683 Altitude du sol du casé d'entraînement
Big Released Fin des travaux	June 12/77		Rig No. 5 Drilling Contractor Adeco Drilling & Engineering N° de la tour de forage Entrepreneur en forage
			Contractor's Business Licence No. 1-1361 N° du permis de l'entrepreneur

CASING RECORD - USAGE

Casing Size (Inches) Diamètre (en pouces)	Grade Qualité	Weight Poids	Amount Longeur	Set at - Fixation à	Sacks of Cement and Additives Sacs de ciment et d'additifs
1. 20	H-40	94	126'	101	575 Sx Arctic Set
2. 13 3/8	K-55	54.5&61	1498'	1496	3115 Sx Arctic Set
3. 9 5/8	M-80	43.5	6027'	6025	800 Sx Oilwell G + 12% Gel + 475 Sx Oilwell G + 0.75% CFR-2 + 0.25% HR-4
4.					
5.					
6.					

Geological Tons Sommet des formations	Elevation - Profondeur		Core Record - Carottes					
	Depth Sans le niveau du sol	Surface Sans le niveau du sol	From - de	To - à	Rec. Récep.	From - de	To - à	Rec. Récep.
Cretaceous	Surface	+1661	10,455	10,486	31			
Base of Permafrost	305							
Imperial	3252							
Hume River	6187							
Upper Prongs Creek	6401							
Lower Prongs Creek	8930							
Basal Prongs Creek								

Log Record - Diagrammes	Run Série	Type of Log Genre de diagramme	Log Record - Diagrammes	
			From - De	To - A
Total Depth	1	DIL-SP	1498	102
		BHC-S-GR	1464	102
		BGT-CAL	1502	102
	2	DIL-SP	6009	1494
		BHC-S-GR-CAL	6019	1494
		CIL-FDC	6014	1494
		Dipmeter	6023	1494
	3	DIL-SP	11110	6005
		BHC-S-GR-CAL	11078	6005
		CIL-FDC	11112	6005
		Dipmeter	11112	6005
		Velocity Survey	Surface	T.D.

RECORDING RECORD (Logging, etc.)
ENTRÉE EN REGISTRE (Logement, etc.)

Date	From - de	To - à	Remarks - Remarques	Date	From - de	To - à	Remarks - Remarques
June 8/77	11129	10900	100 Sx Oilwell G - not felt				
June 8/77	9900	9450	175 Sx Oilwell G - felt at 9490'				
June 10/77	9100	8700	200 Sx Oilwell G - felt at 8650'				
June 11/77	6500	5800	450 Sx Oilwell G - felt at 5780'				

DRILL STEM TESTS - ESSAIS AUX TIGES

No. - N°	Date	Formation	From - de	To - à	V.O. Mins. Vapeur (minutes)	U.S.I. Mins. Perforation (minutes)	U.S.I. Mins. Observation définitive (minutes)	U.S.I.B.M.P. Pression de fond à l'obstruction définitive	I.S.B.M.P. Pression de fond au réajustement	F.B.M.P. Pression de fond à l'enlèvement définitif	L.M.P. Pression hydrostatique de l'essai	F.M.H. Pression hydrostatique admissible	Remarks - Remarques
1	May 10	Lower Prongs Creek	9475	9415	120	60	240	3670	3660	1541	5138	5138	WAB on preflow, WAB increasing to GAB after V0 75 mins. Ran 6000 ft water cushion. Tool stuck for 10 days. No recovery.
2	June 9	Lower Prongs Creek	9490	8940	130	None	60	Not Recorded	3320	1082	4693	4693	Ran 360 ft water cushion. No preflow or ISI. GAM on V0 GTS in 32 mins., 5 ft lazy flare. Ran part of test as closed chamber test. Estimate rate at 260 mcfpd. Recovered 360' water cushion, 3390' gassy mud & 2230' salt water - 150,000 PPM.

ANALYSIS - ANALYSE

Lab. No. N° de laboratoire	Sample Description Description	From - de	To - à	Source	Remarks - Remarques	PRESENT STATUS OF WELL STAT ACTUEL DU PUITS
C77-1672	Water	9475	9415	Top of tool, DST #1	Yellow filtrate recovered from muddy water sample.	Oil Puits
C77-1901	Gas	9490	8940	Surface Manifold DST #2	Sample was contaminated with air.	Gas Puits
C77-1880	Salt Water	9490	8940	DST #2	Recovered 150,000 PPM Salt Water.	By Puits

Company Société Mobil Oil Canada, Ltd.
Signed by Signé par M.W. Graham
Title Titre Drilling Superintendent
Date July 11, 1977
Forms to be prepared in duplicate and forwarded to the District Conservation Engineer.
Préparer les formules remplies à l'ingénieur en conservation du district.

GAS BOTH
 QUAD. NO. PROVINCE Yukon Territory LEASE 66°30'N, 134°30'W
 CLASSIFICATION OR REMARKS
 New Field Wildecat - Mobil
 PERMIT EXPLORATION FIELD
 FROM 0' TO 11,129' Wildecat
 D & A
 PROPOSED SPUD DATE TIME SPUD TO COMPLETION 111 DAYS

CLASS		ORIGINAL ESTIMATE	SUPPLEMENT NO.	REVISED TOTAL		
01	DRILLING	Equipment Rig & Equip. Move	300,000	(300,000)	---	
		DAY WORK COST	600,000	290,000	890,000	
		OTHER DRILLING COST Rig & Equip. Standby	530,000	(434,900)	95,100	
		TOTAL DRILLING	1,430,000	(444,900)	985,100	
		OTHER	LOCATION AND ROADS	150,000	42,200	192,200
			MARINE PLATFORMS			
			CORING EQUIPMENT AND SERVICES Fishing & Tech. services	20,000	97,400	117,400
			LOGGING AND TESTING & CORING	150,000	(11,500)	136,500
			FUEL	205,000	13,700	218,700
			WATER	175,000	(154,900)	20,100
	MUD AND CHEMICALS		150,000	75,400	175,400	
	CEMENT AND CEMENTING SERVICES		70,000	50,300	120,300	
	TRUCKING AND WATER TRANSPORTATION & air support		700,000	178,300	878,300	
	PERFORATING, ACIDIZING AND FRAC.					
	CASING	BITS	75,000	45,400	120,400	
		EQUIPMENT RENTAL	180,000	218,700	398,700	
		MISCELLANEOUS	100,000	5,600	105,600	
		Camp	120,000	61,500	181,500	
		Insurance & mobilization	---	844,500	844,500	
		De-mobilization & MOVE OUT	---	700,000	700,000	
TOTAL OTHER		2,095,000	2,116,600	4,211,600		
TOTAL WELL COST - INTANGIBLE		3,525,000	1,671,700	5,196,700		
TUBING		ORIG.				
		SUPP.				
	of 20 "	5,000	(1,000)	4,000		
	of 13 3/8 "	50,000	(18,000)	32,000		
	of 9 5/8 "	162,000	(76,200)	85,800		
	of 7 "	132,000	(132,000)	---		
	of					
	of					
	CASING HEAD C.C.C.	8,000	11,400	19,400		
	CHRISTMAS TREE AND CONNECTIONS					
OTHER EQUIPMENT	15,000	(15,000)	---			
TOTAL WELL EQUIPMENT - TANGIBLE	372,000	(230,800)	141,200			
SUB-TOTAL WELL COST	3,897,000	1,440,900	5,337,900			
LESS CONTRIBUTIONS (CPI)						
OVERHEAD						
1. TOTAL WELL - GROSS	CAN. 3,897,000	1,440,900	5,337,900			
2. TOTAL WELL COST - MOBIL (APPROVAL COST)	CAN. 2,475,625	1,567,800	4,043,425			
	U.S. 2,505,284	1,491,762	3,997,046			
3. TOTAL BUDGET COST - MOBIL	U.S. 2,505,300	1,491,800	3,997,100			

BIT RECORD

WELL MOBILE GULF PEEL VT-H71 AREA YUKON TERRITORY CONTRACTOR A DECO DRILLING RIG NO. 5

DATE SPUNDED Feb 8 3/77 - 3: P.M. DATE COMPLETED _____ TOTAL NO. BITS _____ TOTAL ACCUM. HRS. ROTATING _____

DATE	NO.	SIZE	MAKE	TYPE	DEPTH OUT	FEET	HOURS	RPM	WT. 1000 LBS	DULL COND. (8 SYSTEM)			PENETRATION FT/HR	ACCUM HRS	WT. OF D.C. 1000#	LENGTH OF D.C.	VERT. DEV.	PUMP PRESS	NO. 1		NO. 2		M.U.D.			SOLID %	
										T	B	G							SPM	LIN	SPM	LIN	WT	VISC	pH		FL
Mar 15	1	12 1/4	HW	X 19	1544	39	6 1/2	90	9	6	2	I	3-14	6	6 1/2	75	581	1.1	1100	74	5 1/2	3 pumps	9.1	35	10.5	10	4
15	ZRR	12 1/4	HW	JZZ	1640	96	22	125	5	4	5	I	3-16	4.3	28 1/2	75	581	1.5	1500	70	5 1/2	✓	9.1	3.4	10.5	50	4
17	3	12 1/4	HW	XOV	1707	67	22	125	4	7	4	1/8	3-16	3	5 1/2	✓	✓	1.1	1250	65	5 1/2	✓	9.3	35	10.5	32	5
18	4	12 1/4	HW	JZZ	2521	814	102	65	30	7	5	3/4	3-14	8	152 1/2	85	650	1.9	800	74	5 1/2	✓	9.2	44	11.5	35	4 1/2
23	5	12 1/4	HW	JD7	2540	29	7 1/2	80	20	1	1	1/8	3-14	4	160	85	650	1.9	1550	70	5 1/2	✓	9.4	37	10.5	28	6
24	6	12 1/2	HW	XDY	2633	93	13 1/4	85	36	5	2	I	3-14	7	173 1/4	85	650	2 3/4	1700	68	5 1/2	✓	9.5	38	10.5	25	6 1/2
25	7	12 1/4	SEC		2660	27	2	55	55	1	1	I	3-13	13	175 1/4	85	650	3	1850	68	5 1/2	✓	9.4	38	10.5	25	6
25	8	12 1/4	SMITH	ZJS	3129	469	64	100	13	1	6	1/8	2-12 1/2	7.3	239 1/4	85	650	3	2000	65	5 1/2	✓	9.5	40	10.5	26	6 1/2
25	9	12 1/4	SMITH	ZJS	3247	118	19 1/4	100	13	-	-	-	3-12	6.1	258 1/2	85	650	3.5	1900	65	5 1/2	✓	9.5	38	10.5	26	6 1/2
30	10	12 1/4	SEC	DMM	3763	516	65	56	52	3	2	I	2-12 1/2	7.9	323 1/2	85	650	6.2	1900	66	5 1/2	✓	9.5	37	11	35	7
APR 2	11	12 1/4	SMITH	F-2	4623	860	63 3/4	80	48	1	3	I	2-12	13.5	387 1/4	85	650	3	1750	70	5 1/2	✓	9.5	37	11	40	7
6	ZRR	12 1/4	SEC	DMM	4737	114	14 1/2	70	55	2	2	I	3-14	7.8	400 3/4	85	650	3 1/4	1950	65	5 1/2	✓	9.5	37	11	42	7
6	12	12 1/4	SMITH	F-2	6080	1293	105 3/4	65	40	3	4	1/4	2-12	12.2	507 1/2	85	650	3.9	2000	65	5 1/2	✓	9.5	37	10.5	47	6 1/2
16	13	8 1/2	SEC	H44N	6189	159	19 1/2	65	20	7	4	I	3-12	8.2	527	40	459	3.4	1700	70	4 1/2	3 pumps	9.2	34	12	23	5
18	14	8 1/2	SMITH	F-2	6862	673	43 3/4	65	35	2	2	I	2-10	15A	570 3/4	55	642	9.5	1900	62	4 1/2	✓	10.4	41	11.5	16	11
20	15	8 1/2	SMITH	F-2	7525	663	68 1/4	60	45	2	2	I	3-10	9.7	639	55	642	8	2200	60	4 1/2	✓	12.8	48	11	10.4	24
25	16	8 1/2	SMITH	F-2	8383	858	124	65	48	1	2	I	3-10	6.9	763	55	642	6	1950	60	4 1/2	✓	10.6	46	10.5	12	13
May 1	17	8 1/2	SMITH	F-2	8998	615	59 1/2	60	42	-	-	-	3-10	10.3	822 1/2	55	642	5 1/2	1950	60	4 1/2	✓	10.3	44	10.5	9.5	13
6	18	8 1/2	HW	J-44	9365	367	42 1/4	57	40	8	7	1/4	2-10	8.6	864 3/4	55	642	6 1/2	1850	60	4 1/2	✓	10.3	44	11.5	9.3	12
8	19	8 1/2	HW	J-44	9475	110	9 3/4	55	48	8	1	I	2-10	11.3	874 1/2	55	642	7	1850	60	4 1/2	✓	10.3	43	11.5	8.5	12
21	20	8 1/2	HW	JD7	9718	243	29	65	45	7	2	I	3-10	8.4	903 1/2	55	645	6	1900	60	4 1/2	✓	10.3	47	11	6.4	12
23	21	8 1/2	HW	J-55	10455	737	83	60	43	8	8	1/2	3-10	8.9	986 1/2	55	645	4 1/2	1900	60	4 1/2	✓	10.4	46	11.5	6.2	14
28	22	8 1/2	HW	JD7	MILL ON	180N	4								990 1/2												
29	23	6 7/8	CHRIS	◇	10486	31	6 3/4	75	15	-	-	-	-	4.5	997 1/4	55	645	4 1/2	1000	58	4 1/2	✓	10.3	45	11.0	6.3	12

BIT RECORD

WELL MOBIL GULF PEEL YT H-71 AREA YUKON TERRITORY CONTRACTOR ADECO DRILLING RIG NO. 5
 DATE SPUDDED FEB 3/77 @ 3:00 PM DATE COMPLETED JUNE 12/77 @ 3:00 PM TOTAL NO. BITS 42 TOTAL ACCUM. HRS. ROTATING 480

DATE	NO.	SIZE	MAKE	TYPE	DEPTH OUT	FEET	HOURS	RPM	WT. 1000 LBS	DULL COND. (8 SYSTEM)			JET SIZE	PENET- RATION FT/HR	ACCUM HRS	WT. OF D.C. 1000#	LENGTH OF D.C.	VERT. DEV.	PUMP PRESS	NO. 1		NO. 2		MUD			SOLID %
										T	B	G								SPM	LIN	SPM	LIN	WT	VISC	PH	
May 29	22RR	8 1/2	HW	JD7	10516	30	5 3/4	58	43	8	3	3	3-10	5.2	1003	55	645	4 1/2	1950	60	4 1/2	3 pumps	10.3	44	10.5	6.3	12.5
30	24	8 1/2	SEC	H88F	10684	168	20 1/4	52	42	8	3	2-12	8.3	1023 1/4	55	645	4 1/2	1800	56	4 1/2	✓	10.3	44	11.0	6.5	12.5	
June 1	25	8 1/2	HW	JD7	MILLON IRON		5 1/4			5	3	3-10		1028 1/2													
2	26	8 1/2	SEC	H88F	10896	212	22 1/2	60	46	7	5	1-12 2-9	9.5	1051	55	645	5 1/2	1900	58	4 1/2	✓	10.3	43	10.5	7.2	12	
4	27	8 1/2	HW	J-55	11129	233	27 1/2	60	47	5	5	3-10	8.5	1078 1/2	55	645	5 1/2	1900	60	4 1/2	✓	10.2	45	10.5	7.6	12	

MOBIL GULF PEEL YT H-71

Mud Materials Usage

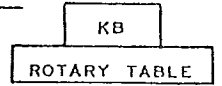
Bentonite	120,000#
Barite	390,000#
Potassium Chloride	130,000#
Caustic Soda	12,000#
XC Polymer	9,000#
Soda Ash	5,400#
Bicarbonite of Soda	2,500#
Sodium Sulfite	6,000#
Fluid Loss Additive (FLR-100 & Drispac)	8,300#
Peltex	4,500#
Paraformaldehyde	1,600#
CMC	600#
Walnut Shells	1,500#
Aluminum Stearate	600#
VC-10 (lignosulfonate)	1,300#
Surflo (defoamer)	45 gals
Skot-Free (surfactant)	75 gals
Wil-do (torque reducer)	180 gals

WELL NAME Mobil GULF PEEL H-71 DATE Feb 8 1977
 LOCATION LS ---, SEC ---, TWP ---, RGE ---, W M 66° 20' 28.6" N 134° 43' 34.6" W

CASING (LIST IN ORDER RUN)

SIZE	WT	GRADE	THREADS		NEW OR USED	NO. JOINTS	LENGTH TOTAL
			NO.	TYPE			
1 20	94	H-40	Buttress	STIC	New	4	167.84
2							
3							
4							
5							
6							
7							

KB ELEVATION 1683

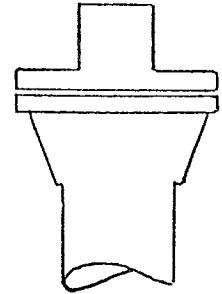


KB TO FLANGE 18 FT

CASING FLANGE TYPE Weld on

MFGR MCLEOD

SIZES 20" x 2000 psi
WP 2000



TOTAL CASING ON THE LEASE BEFORE STARTING	4	167.84
CASING REMAINING ON THE LEASE AFTER RUNNING	1	41.44
TOTAL CASING RUN	3	126.40
LENGTH UP FROM KB ON LANDING JOINT		25.40

CASING LANDED AT 101 KB
 TAGGED BOTTOM AT 101 KB PIPE LANDED 2 FEET OFF BOTTOM

SCRATCHERS TYPE - Nil - MFGR --- INTERVAL ---
 CENTRALIZERS TYPE Stop Lock MFGR WATCO INTERVAL 35' & 85' KB
 FLOAT COLLAR AT - Nil - LENGTH --- MFGR --- TYPE --- WELDED LOCKED
 FLOAT SHOE AT 101 KB LENGTH 2.51 MFGR Halliburton TYPE Duplex Pist WELDED LOCKED
 STAGE COLLAR AT - Nil - LENGTH --- MFGR --- TYPE --- WELDED LOCKED

CEMENT SERVICE COMPANY HALLIBURTON TRUCK MODEL SKID HT-400 HHP ---

TYPE	ADDITIVES	CU FT	SACKS	SLURRY WT	MUD	HOLE
					WT	SIZES
1 Arctic SET	- Nil -		575	14.5	8.9	24
2					90	TD DRILLER 103
3					---	TD LOG ---
4					8.5	TD CASING 101

WATER TESTED YES NO HOW --- TEMP. 38° F GEL --- TYPE - NATIVE -

TIMES
 FINISH CIRCULATING 11:30 AM PM START CASING 2:00 AM PM CASING IN 6:30 AM PM CIRCULATE CASING 9:25 AM PM
 RIG TO CEMENT 9:30 AM PM START MIXING 11:00 AM PM FINISH MIXING 12:00 AM PM START DISPLACING 12:00 PM PM PLUG DOWN 12:02 AM PM
 PUMPING TIME 60 MIN CASING VOLUME 1.5 BBLs AVERAGE PUMPING RATE 9 BBL/MIN CASING LANDED 6:30 AM
 HOW ---

PRESSURES
 BREAK CIRCULATION 150 PSI CIRCULATING 150 PSI FINAL PUMPING 200 PSI BUMPED PLUG Nil PSI FLOAT HELD YES NO

REMARKS (DESCRIBE HOW PIPE WAS WORKED AND ANY PROBLEMS DURING JOB) STATE DISPOSITION OF DRY CEMENT, WATER AND SLURRY SAMPLES
hole Depth 103' Landed Csg @ 101' 2' FILL
STABED IN STINGER Circ Hole CLEAN PROCEEDED CEMENT w/ 10 BBLs
FRESH water wash. Cemented FULL Length w/ Arctic Cement
1' d constant Returns while Cementing. Ran 575 sks
BEFORE Cement Returns Reached Surface. Displaced w/ 1.5 BBLs
Water Bleed of Float Held O.K. Cement Stayed up After
Displacing.

SIGNATURE Pete Parnochian

MOBIL GULF PEE1 YT H.71

WELL NAME GRID 66° 30' N - 134° 30' W DATE MARCH 9, 1977

LOCATION LS , SEC , TWP , RGE , W

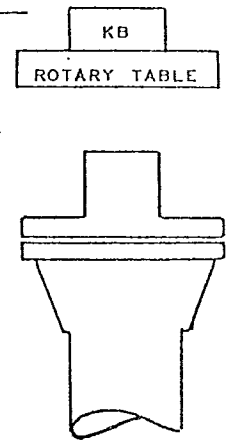
CASING (LIST IN ORDER RUN)

SIZE	WT	GRADE	THREADS		NEW OR USED	NO. JOINTS	LENGTH TOTAL
			NO.	TYPE			
1 1 3/8	54.5	K-55	BUTT	T&C	New	26	890.90
2 1 3/8	61	K-55	BUTT	T&C	New	19	607.21
3 1 3/8	48	K-55	BUTT	T&C	"	3	88.50
4							
5							
6							
7							
TOTAL CASING ON THE LEASE BEFORE STARTING						48	1586.61
CASING REMAINING ON THE LEASE AFTER RUNNING						3	88.50
TOTAL CASING RUN						45	1498.11
LENGTH UP FROM KB ON LANDING JOINT							3.11

KB ELEVATION 1683

KB TO FLANGE 25.25 FT

CASING FLANGE TYPE WELD ON
MFRG McEvoy
SIZES 12" Type S
WP 5000



CASING LANDED AT 1496 KB
TAGGED BOTTOM AT KB PIPE LANDED 4 FEET OFF BOTTOM

SCRATCHERS TYPE - Nil - MFRG INTERVAL
CENTRALIZERS TYPE Turbolizers MFRG WATCO INTERVAL JTS 1, 3, 5, 7, 9, 12, 15, 17, 20, 33
FLOAT COLLAR AT 1463 LENGTH 1.59 MFRG WATCO TYPE BUTRESS WELDED LOCKED
FLOAT SHOE AT 1496 LENGTH 1.93 MFRG WATCO TYPE BUTRESS WELDED LOCKED
STAGE COLLAR AT LENGTH MFRG TYPE WELDED LOCKED

CEMENT SERVICE COMPANY HALLIBURTON TRUCK MODEL HT-400 HHP

TYPE	ADDITIVES	CU FT	SACKS	SLURRY WT	MUD WT	HOLE SIZES
1 ARCTIC SET	- Nil -		3115	14.7	9.0	17 1/2"
2					8.5	TD DRILLER 1500
3					16	TD LOG 1502
4					9.5	TD CASING 1495

WATER TESTED YES NO HOW TEMP. 48° F TYPE

TIMES
FINISH CIRCULATING 11:15 PM START CASING 12:00 AM CASING IN CIRCULATE CASING 6:00 AM
RIG TO CEMENT 8:00 AM START MIXING 8:25 AM FINISH MIXING 11:05 AM START DISPLACING 11:05 AM PLUG DOWN 11:15 AM
PUMPING TIME 160 MIN CASING VOLUME 18.8 BBLs AVERAGE PUMPING RATE 4 BBL/MIN CASING LANDED AM
HOW PM

PRESSURES
BREAK CIRCULATION 180 PSI CIRCULATING 150 PSI FINAL PUMPING 150 PSI BUMPED PLUG Nil PSI FLOAT HELD NO

REMARKS (DESCRIBE HOW PIPE WAS WORKED AND ANY PROBLEMS DURING JOB) STATE DISPOSITION OF DRY CEMENT, WATER AND SLURRY SAMPLES
Hole condition Good No Sloughing or packing off
No DRAG Worked Csg Approx 30' while cementing For
The First 2000 sks. Cemented w/ 3115 sks Arctic set
Cement Had constant Returns while circulating
Cementing. Had No Cement Returns To Surface
Cemented From Surface Via 2" pipe Approx 40' GL
w/ 335 sks Oilwell G CEMENT

SIGNATURE Pete Panchini

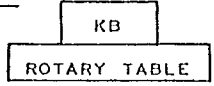
WELL NAME MOBIL GULF PEEL YT H-71 DATE 14 April 77

SECTION LS, SEC —, TWP —, RGE —, W —

CASING (LIST IN ORDER RUN)

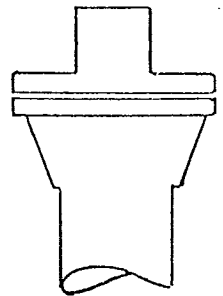
SIZE	WT	GRADE	THREADS		NEW OR USED	NO. JOINTS	LENGTH TOTAL
			NO.	TYPE			
1 1 3/8	13.5	MN-80	End	LT/C	NEW	157	6133.09
2							
3							
4							
5							
6							
7							
TOTAL CASING ON THE LEASE BEFORE STARTING						157	6133.09
CASING REMAINING ON THE LEASE AFTER RUNNING						3	107.97
TOTAL CASING RUN							6025.12
LENGTH UP FROM KB ON LANDING JOINT							2.00

KB ELEVATION 1683



KB TO FLANGE 23 FT

CASING FLANGE TYPE S
MFRG McEvoy
SIZES 1 3/8"
VP 5000



CASING LANDED AT 6023
TAGGED BOTTOM AT — KB PIPE LANDED 107 FEET OFF BOTTOM
SCRATCHERS TYPE Nil MFRG — INTERVAL —
CENTRALIZERS TYPE Turbelizer MFRG WOTCO INTERVAL Jts 1-11, 41, 72, 109-118, 153
FLOAT COLLAR AT 5982 LENGTH 1.6 MFRG WOTCO TYPE — WELDED LOCKED
FLOAT SHOE AT 6022 LENGTH 1.0 MFRG WOTCO TYPE — WELDED LOCKED
STAGE COLLAR AT — LENGTH — MFRG — TYPE — WELDED LOCKED

CEMENT SERVICE COMPANY Halliburton TRUCK MODEL HT-400 HHP 400

TYPE	ADDITIVES	CU FT	SACKS	SLURRY WT
1 Oilwell G	12% Gel + 0.75% CER-2	1560	800	12.2
2				
3 Oilwell G	Neat + 0.75% CER-2 + 0.25% HR-4	475	475	15.8
4				

MUD WT 9.5 HOLE SIZES 12 1/4"
VISC 36 TD DRILLER 6030
W/L NIC TD LOG 6029
PH 4.0 TD CASING 11 1/2"
FC — CALIPER USED (YES) NO
GEL 1113 TYPE fresh

WATER TESTED (YES) NO HOW Laboratory TEMP. 70°F

TIMES
FINISH CIRCULATING 4:00 PM 13 April START CASING 11:00 AM 14 April CASING IN 4:00 PM CIRCULATE CASING 6:00 PM
RIG TO CEMENT 7:18 AM Pre-flush START MIXING 7:18 AM FINISH MIXING 9:15 AM START DISPLACING 9:30 AM PLUG DOWN 11:00 AM
PUMPING TIME 100 MIN CASING VOLUME 445 BBLS AVERAGE PUMPING RATE 4.5 BBL/MIN CASING LANDED — AM
HOW —

PRESSURES
BREAK CIRCULATION — PSI CIRCULATING — PSI FINAL PUMPING 1600 PSI BUMPED PLUG N/A PSI FLOAT HELD (YES) NO

REMARKS (DESCRIBE HOW PIPE WAS WORKED AND ANY PROBLEMS DURING JOB) STATE DISPOSITION OF DRY CEMENT, WATER AND SLURRY SAMPLES
Recirculated pipe 30' during circulation & displacement. Preflush with 20 bbls water followed by 30 bbls diesel & 20 bbls water. Mixed & pumped 1560 ft³ till & 475 ft³ neat cement. Displaced with mud with full returns. Traces of diesel fuel at end of displacement. Didn't bump plug after 449 bbls displacement as diesel fuel was in annulus. Cement volumes based on 4 arm caliper + 20%. Est Cement Top 1000'

SIGNATURE AP Baldwin

CORE ANALYSIS REPORT

FOR

MOBIL OIL CANADA, LTD.

MOBIL GULF PEEL YT H-71

PEEL

NORTHWEST TERRITORIES

CORE LABORATORIES-CANADA LTD.

CODE KEY - MOBIL OIL CANADA, LTD.

(69) PHYSICAL DESCRIPTION

- 1 - Unconsolidated
- 2 - Rubble
- 3 - No Stain
- 4 - Fractured
- 5 - Missing

(71) QUALIFYING LITHOLOGY

- 1 - Limy
- 2 - Dolomitic
- 3 - Evaporitic
- 4 - Sandy
- 5 - Shaly

(73) POROSITY TYPE

- 1 - Intergranular
- 2 - Intergran/vugs
- 3 - Small vugs
- 4 - Large vugs
- 5 - Reefoid

(70) BASIC LITHOLOGY

- 1 - Limestone
- 2 - Dolomite
- 3 - Evaporite
- 4 - Sand
- 5 - Shale

(72) TEXTURE

- 1 - Silty
- 2 - Fine
- 3 - Medium
- 4 - Coarse
- 5 - Conglomeratic

NOTE:

The designation -1.0 in data columns indicates not analyzed for reasons other than dense, i.e. lost core, rubble, removed by client, no analysis by request, etc.

The designation -0.1 indicates a minimum value either measured or assumed due to core appearing dense.

CORE LABORATORIES - CANADA, LTD. (19)

1 / 2 / 3 / 4 / 5 / 6 / 7 / 8 / 9 / 10 / 11 / 12 / 13 / 14 / 15 / 16 / 17 / 18 / 19 / 20 / 21 / 22 / 23 / 24 / 25

Company MOBIL OIL CANADA, LTD. (17-18) Formation (22-25) Page 1 of 1

Well MOBIL GULF PEEL YT H-71 Date Report JUNE 27, 1977 File 7004-7337

Field, Province PEEL, NORTHWEST TERRITORIES D. Fluid WATER BASE MUD (21) Analysts BK SC JH SD

Location 66° 20' 28.6" N (1-16) Analysis FULL DIAMETER (20) Remarks

CORE ANALYSIS RESULTS

Sample Number	Depth Feet	Ft Rcp	Permeability to Air, Millidarcys			Permeability Feet	Porosity, Per Cent	Porosity Feet	Density, gm./cc		Residual Saturations		Viscous Estimation					
			K _{Mar}	K _{90°}	KV				Bulk	Grain	Oil	Water	(68)	(69)	(70)	(71)	(72)	(73)
	(25-31)	(32-34)	(35-41)	(42-48)	(49-55)		(56-58)		(59-61)	(62-64)	(65-67)		(68)	(69)	(70)	(71)	(72)	(73)

CORE NO. 1 10455.0' - 10486.0' (REC. 32') (7 BOXES)

1	10455.0-57.8	2.8	-1.0	-1.0	-1.0	-	-1.0	-	-1.0	-1.0	-	-	3	2	1	-	-	-
2	10457.8-58.8	1.0	8.47	2.78	1.77	8.47	0.2	0.20	2.81	2.82	-	-	4	2	1	-	-	1
3	10458.8-63.6	4.8	-1.0	-1.0	-1.0	-	-1.0	-	-1.0	-1.0	-	-	3	2	1	-	-	-
4	10463.6-64.6	1.0	2.57	2.10	0.08	2.57	0.7	0.70	2.81	2.83	-	-	4	2	1	-	-	1
5	10464.6-67.5	2.9	-1.0	-1.0	-1.0	-	-1.0	-	-1.0	-1.0	-	-	3	2	1	-	-	-
6	10467.5-68.5	1.0	0.55	0.17	-0.1	0.55	0.2	0.20	2.83	2.84	-	-	4	2	1	-	-	1
7	10468.5-71.5	3.0	-1.0	-1.0	-1.0	-	-1.0	-	-1.0	-1.0	-	-	3	2	1	-	-	-
8	10471.5-72.5	1.0	0.29	0.23	-0.1	0.29	0.4	0.40	2.83	2.84	-	-	4	2	1	-	-	1
9	10472.5-77.3	4.8	-1.0	-1.0	-1.0	-	-1.0	-	-1.0	-1.0	-	-	3	2	1	-	-	-
10	10477.3-78.3	1.0	1.41	1.17	-0.1	1.41	0.3	0.30	2.79	2.80	-	-	4	2	1	-	-	1
11	10478.3-80.8	2.5	-1.0	-1.0	-1.0	-	-1.0	-	-1.0	-1.0	-	-	3	2	1	-	-	-
12	10480.8-81.8	1.0	2.49	1.61	-0.1	2.49	0.3	0.30	2.81	2.82	-	-	4	2	1	-	-	1
13	10481.8-85.2	3.4	-1.0	-1.0	-1.0	-	-1.0	-	-1.0	-1.0	-	-	3	2	1	-	-	-
14	10485.2-86.1	0.9	1.60	0.90	-0.1	1.44	0.2	0.18	2.78	2.79	-	-	4	2	1	-	-	1
15	10486.1-87.0	0.9	-1.0	-1.0	-1.0	-	-1.0	-	-1.0	-1.0	-	-	3	2	1	-	-	-



CHEMICAL & GEOLOGICAL LABORATORIES LTD.

EDMONTON — FORT ST. JOHN — CALGARY



CONTAINER IDENTITY

— WATER ANALYSIS —

LABORATORY NUMBER
C77-1672

OPERATOR NAME AND ADDRESS

MOBIL OIL CANADA LTD. Box 800 Mobil Tower 9th Floor, 330-5th Avenue S.W. CALGARY T2P 0L4

SAMPLE LOCATION

WELL OR SAMPLE LOCATION NAME

ELEVATIONS

66 20' 28.6, 134 43' 34.6

Mobil Gulf Peel YT H-71

1683 1661

FIELD OR AREA

POOL OR ZONE

NAME OF SAMPLER

COMPANY

Peel

Lower Prongs Creek

Mobil Oil Canada Ltd.

TEST TYPE & NO.

TEST RECOVERY

DST 1

NIL

TEST INTERVAL OR PERFS

POINT OF SAMPLE

AMT & TYPE OF CUSHION

MUD RESISTIVITY

Top of Tool

TYPE OF PRODUCTION

9415' - 9465'

PUMPING

FLOWING

GAS LIFT

SWAB

PRODUCTION RATES

WATER

BBL/D OIL

BBL/D GAS

MCF/D

PRESSURES - PSIG

TEMPERATURES (°F)

CONTAINER

CONTAINER

SEPARATOR TREATER

RESERVOIR

WHEN SAMPLED

WHEN RECEIVED

SEPARATOR

TREATER

WHEN SAMPLED

WHEN RECEIVED

DATE SAMPLED (D/M/Y) DATE RECEIVED (D/M/Y) DATE ANALYZED (D/M/Y)

ANALYST

REMARKS

31/5/77

10/6/77

D. Barber

ION	MG/L	MG %	MEQ/L	ION	MG/L	MG %	MEQ/L
Na	21,030	23.71	914.82	Cl	46,750	52.70	1,318.35
K	15,313	17.26	391.54	Br			
Ca	1,592	1.79	79.42	I			
Mg	128	0.14	10.49	HCO ₃	732	0.83	12.01
Ba				SO ₄	3,169	3.57	65.91
Sr				CO ₃	NIL		
Fe	TRACE			OH	NIL		
				H ₂ S	NIL		

TOTAL SOLIDS Mg/L

BY EVAPORATION

BY EVAPORATION

89,290 @ 100°C

@ 100°C

AT IGNITION

CALCULATED

85,740

88,714

ORGANIC MATTER: MUCH

SPECIFIC GRAVITY

REFRACTIVE INDEX

1.064 @ 50°F

1.3464 @ 25°C

OBSERVED PH

RESISTIVITY (Ohm/meters)

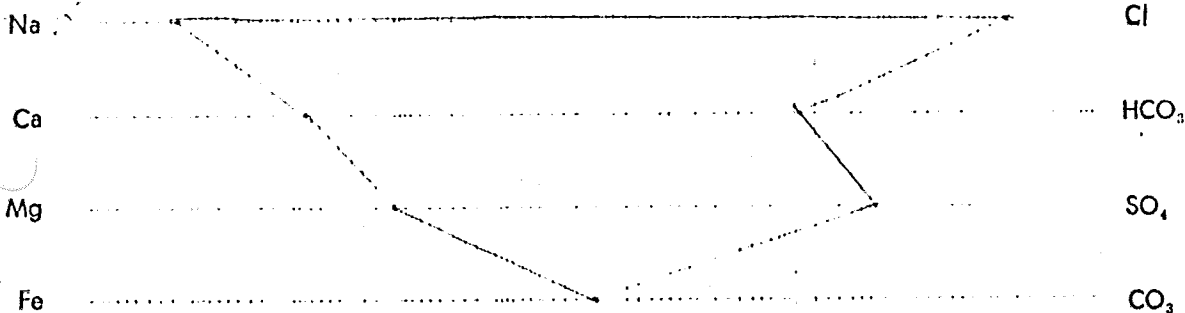
8.1 @ 75°F

0.086 @ 25°C

LOGARITHMIC PATTERN MEQ PER LITER

Remarks and Conclusions

Yellow filtrate recovered from a muddy water sample.





Stainless Steel
CONTAINER IDENTITY

7011-7387
LABORATORY NUMBER

Mobil Oil Canada, Ltd.
OPERATOR

1 of 1
PAGE

Mobil Gulf Peel YT H-71
WELL OR SAMPLE LOCATION NAME

1600'
KB ELEV. CHD. L.EV.

Yukon Territories
FIELD OR AREA

Lynes United Services
SAMPLER

DST #1
TEST TYPE & NO.

TEST RECOVERY

(Tool)

POINT OF SAMPLE

ART. & TYPE CUSHION

@ OF
MUD RESISTIVITY

PUMPING

FLOWING

GAS LIFT

SWAB

WATER

BBLS/D.

OIL

BBLS/D.

GAS

MFC/D.

TEST INTERVALS OR PERIODS.

SEPARATOR RESERVOIR

@ OF
CONTAINER WHEN SAMPLED

@ OF
CONTAINER WHEN RECEIVED

SEPARATOR

PRESSURES, PSIG

TEMPERATURES, °F

May 21/77

May 25/77

May 30/77

KE

DATE SAMPLED (D/M/Y)

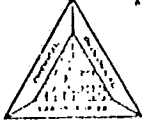
DATE RECEIVED (D/M/Y)

DATE ANALYSED (D/M/Y)

ANALYST

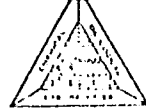
REMARKS

The tool was opened at 0 psig.
The recovery was nil.



CHEMICAL & GEOLOGICAL LABORATORIES LTD.

EDMONTON — FORT ST. JOHN — CALGARY



CONTAINER IDENTITY

— WATER ANALYSIS —

LABORATORY NUMBER

C77-1880-2

OPERATOR NAME AND ADDRESS

MOBIL OIL CANADA LTD. Box 800, Mobil Tower 9th Floor, 330-5th Avenue S.W. CALGARY T2P 0L4

SAMPLE LOCATION

WELL OR SAMPLE LOCATION NAME

ELEVATIONS KB GRD

66 20' 28.6/134 43' 34.6

Mobil Gulf Peel YT-H-21

1683 1661

FIELD OR AREA

POOL OR /ONE

NAME OF SAMPLER

COMPANY

Peel

Lower Prong Creek

TEST TYPE & NO

TEST RECOVERY

DST 2

5980' 360' Water Cushion, 3390' Gassified Mud, 2230' Salt Water

TEST INTERVAL OR PERFS

POINT OF SAMPLE

AMT & TYPE OF CUSHION

MUD RESISTIVITY

Salt Water

TYPE OF PRODUCTION

8940' - 9490'

PUMPING

FLOWING

GAS LIFT

SWAB

PRODUCTION RATES

WATER

RBLS/D

OIL

BBLS/D

GAS

MCF/D

PRESSURES - PSIG

TEMPERATURES (°F)

SEPARATOR TREATER

RESERVOIR

CONTAINER

WHEN SAMPLED

WHEN RECEIVED

SEPARATOR TREATER

CONTAINER

WHEN SAMPLED

WHEN RECEIVED

DATE SAMPLED (D/M/Y)

DATE RECEIVED (D/M/Y)

DATE ANALYZED (D/M/Y)

ANALYST

REMARKS

9/6/77

13/6/77

20/6/77

D. Barber

ION

MG/L

MG%

MEQ/L

ION

MG/L

MG%

MEQ/L

TOTAL SOLIDS Mg/L

BY EVAPORATION

BY EVAPORATION

Na

50,374

33.49

2,191.29

Cl

91,500

60.84

2,580.30

150,130

AT IGNITION

CALCULATED

K

Br

134,900

150,401

Ca

6,667

4.43

332.67

I

Mg

899

0.60

73.91

HCO₃

549

0.37

9.01

ORGANIC MATTER: PRESENT
SPECIFIC GRAVITY REFRACTIVE INDEX

1.099

1.3561

Ba

SO₄

412

0.27

8.56

OBSERVED PH

RESISTIVITY (ohm/meters)

Sr

CO₃

NIL

6.9 @ 79 °C

0.062

Fe

PRESENT

OH

NIL

H₂S

NIL

Remarks and Conclusions

Yellow filtrate recovered from a sample containing a trace sediment.

LOGARITHMIC PATTERN MEQ PER LITER

Na

Ca

Mg

Fe

Cl

HCO₃

SO₄

CO₃

CHEMICAL & GEOLOGICAL LABORATORIES LTD.

INCORPORATED IN CANADA
SINCE 1928

4605, 12 STREET N E CALGARY ALBERTA T2E 4R3



TELEPHONE

403-277-0725

MOBIL OIL CANADA LTD.

LAB REPORT NO: C77-1880

C77-1880-1 DRILLING MUD

Resistivity: 0.117 ohm/meters at 25° C.

Yellow filtrate recovered from a mud sample.

CONTAINER NUMBER
6527,6160

GAS ANALYSIS

LABORATORY NUMBER
C77-1901

OPERATOR NAME AND ADDRESS

MOBIL OIL CANADA LTD. Box 800, Mobil Tower 9th Floor, 330-5th Avenue S.W. CALGARY T2P 0L

WELL OR SAMPLE LOCATION NAME: Mobil Gulf Peel YT-H-71
 FIELD OR AREA: Peel
 POOL OR ZONE: Lower Prongs Creek
 NAME OF SAMPLER: Al Buhn
 COMPANY: 1683 1661

TEST TYPE & NO.: DST 2
 TEST RECOVERY: 5980'; 360' Water Cushion, 3390' Gassified Mud, 2230' Salt Water

TEST INTERVAL OR PERFS: 3940' - 9490'
 POINT OF SAMPLE: Surface Manifold
 AMT & TYPE OF CUSHION: 3
 W.C. RESISTIVITY: 3

TYPE OF PRODUCTION: PUMPING FLOWING GAS LIFT SWAB

PRODUCTION RATES: WATER BBLSD OIL BBLSD GAS MCFD

PRESSURES - PSIG TEMPERATURES (F)

CONTAINER WHEN SAMPLED: 4
 CONTAINER WHEN RECEIVED: 4
 SEPARATOR WHEN SAMPLED: 78
 TREATER WHEN RECEIVED: 78

DATE SAMPLED: 9/6/77
 DATE RECEIVED: 13/6/77
 DATE ANALYZED: 17/6/77
 ANALYST: B. Anderson

COMP	MOL % AIR FREE AS RECD	MOL % AIR FREE ACC. GAS FREE	CON. GPAL @ 60 F & 14.65 PSIA AIR FREE AS RECD
H ₂	0.15	0.15	
H ₂	0.15	0.15	
N ₂	2.71	2.71	
CO ₂	0.07	0.	
H ₂ S	0.	0.	
C ₁	96.01	96.03	
C ₂	0.85	0.85	
C ₃	0.06	0.06	0.014
IC ₄	TRCE	TRCE	0.
NC ₄	TRCE	TRCE	0.
IC ₅	0.	0.	0.
NC ₅	0.	0.	0.
C ₆	0.	0.	0.
C ₇	0.	0.	0.
C ₈	0.	0.	0.
C ₉	0.	0.	0.
C ₁₀	0.	0.	0.
TOTAL	100.00	100.00	0.014

GROSS HEATING VALUE BTU/FT³ @ 60 F AND 14.65 PSIA

MOISTURE AND ACID GAS FREE
 MEASURED: [] CALCULATED: 994. DETERMINED DEW POINT: [] VAPOUR PRESS. PENTANES PLUS: 0.

SPECIFIC GRAVITY
 MOISTURE FREE AS SAMPLED: MEASURED 0.564 CALCULATED 0.569
 MOISTURE AND ACID GAS FREE: MEASURED [] CALCULATED 0.568

PSEUDO CRITICAL PROPERTIES (CALCULATED)
 AS SAMPLED: pPc 667.1 PSIA
 ACID GAS FREE: pTc 341.9 R, pPc 666.8 PSIA, pTc 341.3

H₂S Grains per 100 cu. ft. @ 60 F. & 14.65 p.s.i.a. [0.]

MOL. WT. Total Gas [16.48] C₇+ [0.]

Sample corrected for 1.55% air contamination.

LYNES UNITED SERVICE REPORT 8 - 657

WELL NAME - MOBIL GULF PEEL

WELL LOCATION - YT H-71

DST NUMBER - 1

INTERVAL TESTED - 9415 TO 9475

RECORDER NUMBER - 5118

DEPTH - 9425

FIRST SHUT IN PRESSURE

TIME(MIN) PHI	(T+PHI) /PHI	PSIG
-----	-----	-----
0.0	0.0000	1546
5.0	3.0000	2585
10.0	2.0000	3127
15.0	1.6667	3413
20.0	1.5000	3548
25.0	1.4000	3604
30.0	1.3333	3631
35.0	1.2857	3648
40.0	1.2500	3655
45.0	1.2222	3660
50.0	1.2000	3665
55.0	1.1818	3668
60.0	1.1667	3670

EXTRAPLN OF FIRST SHUT IN = 3696.3

LYNES UNITED SERVICE REPORT 8 - 657

WELL NAME - MOBIL GULF PEEL

WELL LOCATION - YT H-71

DST NUMBER - 1

INTERVAL TESTED - 9415 TO 9475

RECORDER NUMBER - 5118

DEPTH - 9425

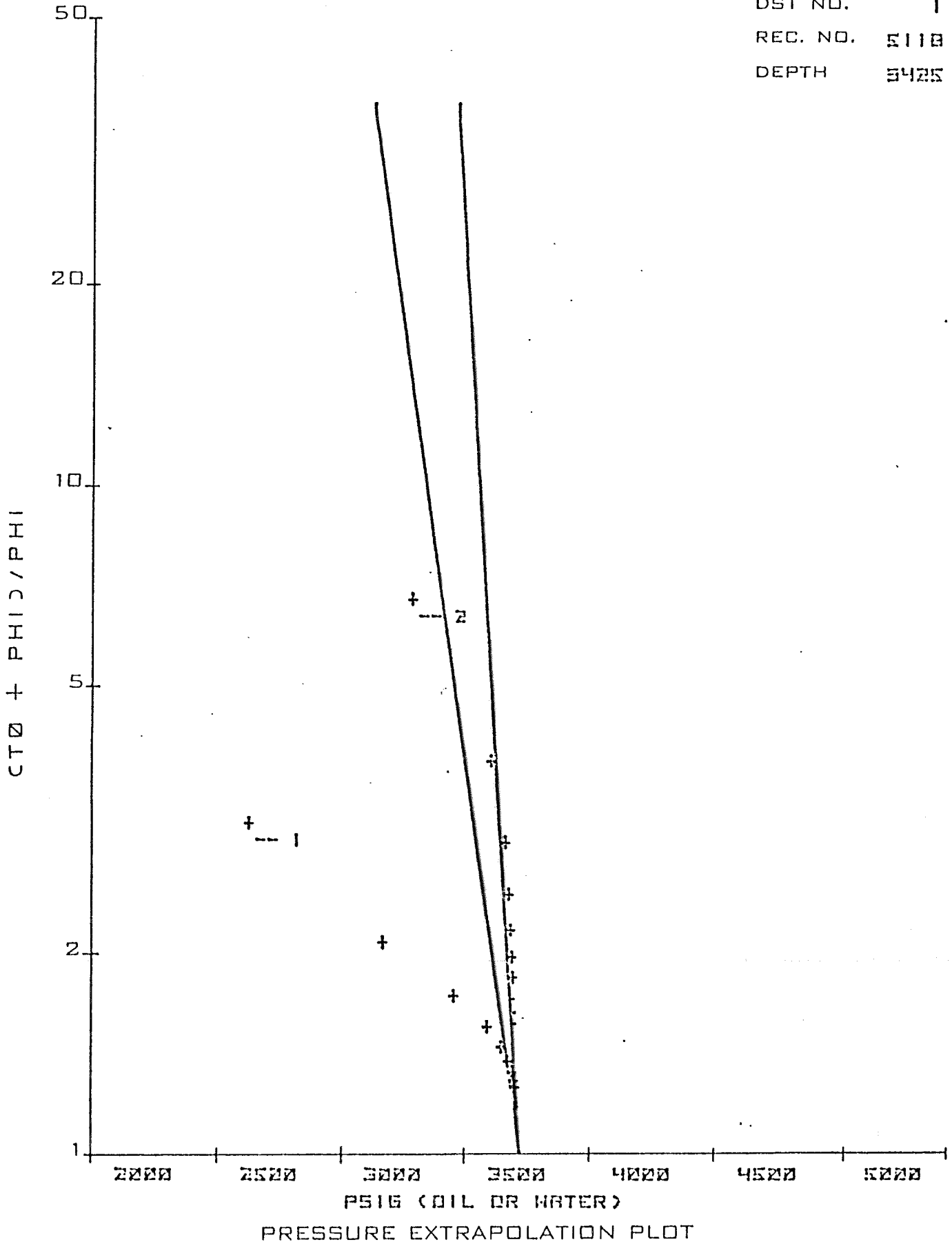
SECOND SHUT IN PRESSURE

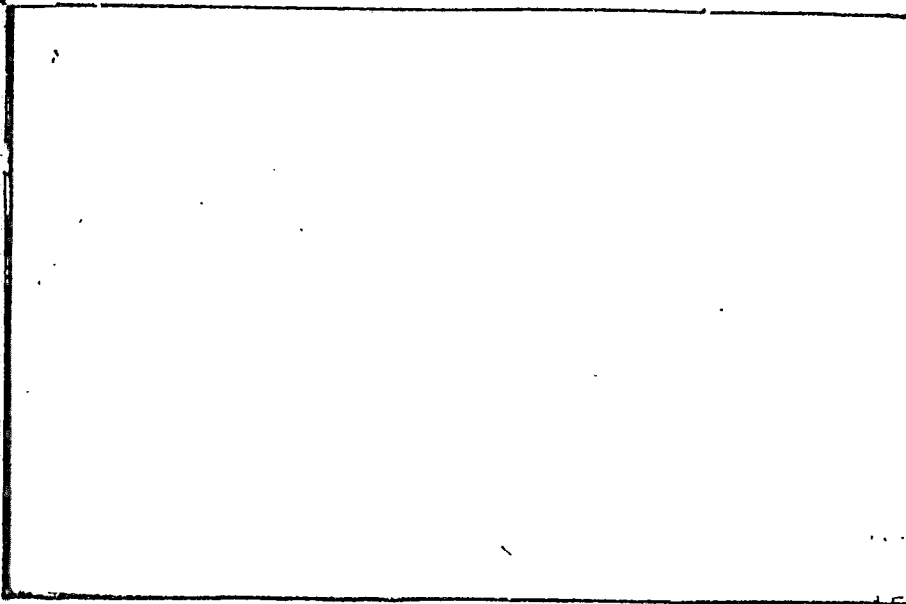
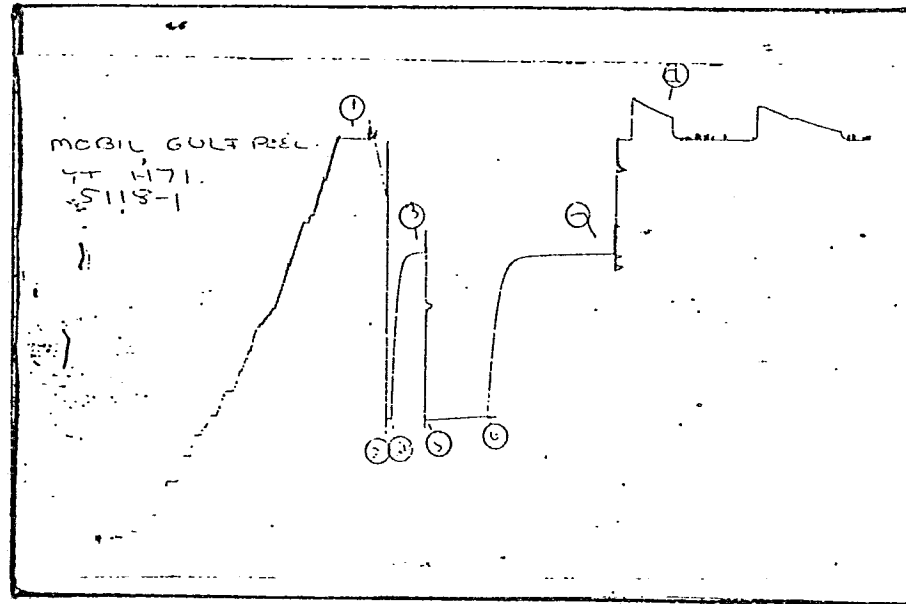
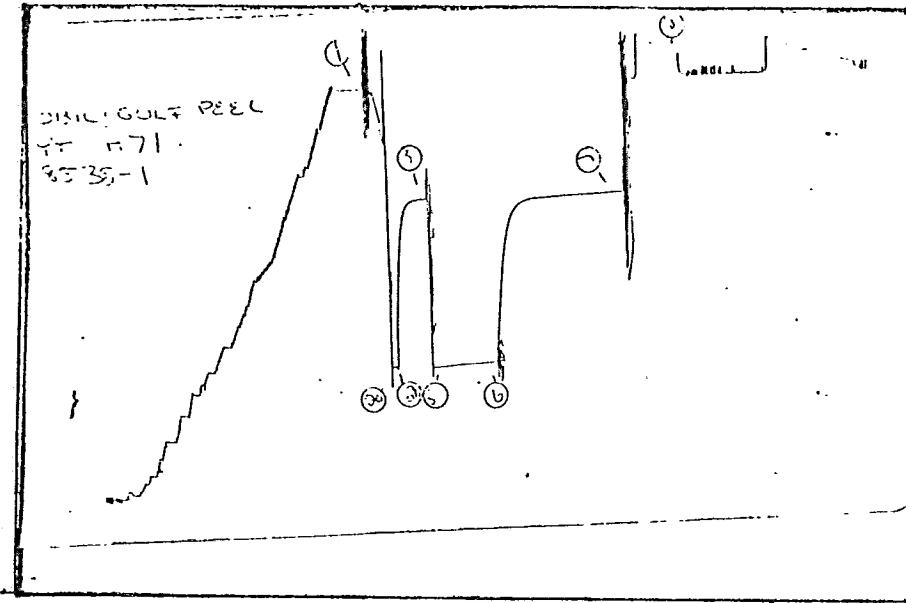
TIME(MIN) PHI	(T+PHI) /PHI	PSIG
-----	-----	----
0.0	0.0000	1580
24.0	6.4167	3242
48.0	3.7083	3562
72.0	2.8056	3619
96.0	2.3542	3633
120.0	2.0833	3641
144.0	1.9028	3646
168.0	1.7738	3650
192.0	1.6771	3653
216.0	1.6019	3658
240.0	1.5417	3660

FITTED LINE: $\text{LOG}((T+PHI)/PHI) = -0.00591 \text{ PSIG} + 21.82104$

EXTRAPLN OF SECOND SHUT IN = 3691.8 M = 169.2

DST NO. 1
REC. NO. 5118
DEPTH 3425





Location YT H71
DST # 1
Inside Outside _____
Recorder No. 8538
Capacity 5950
Depth 9395

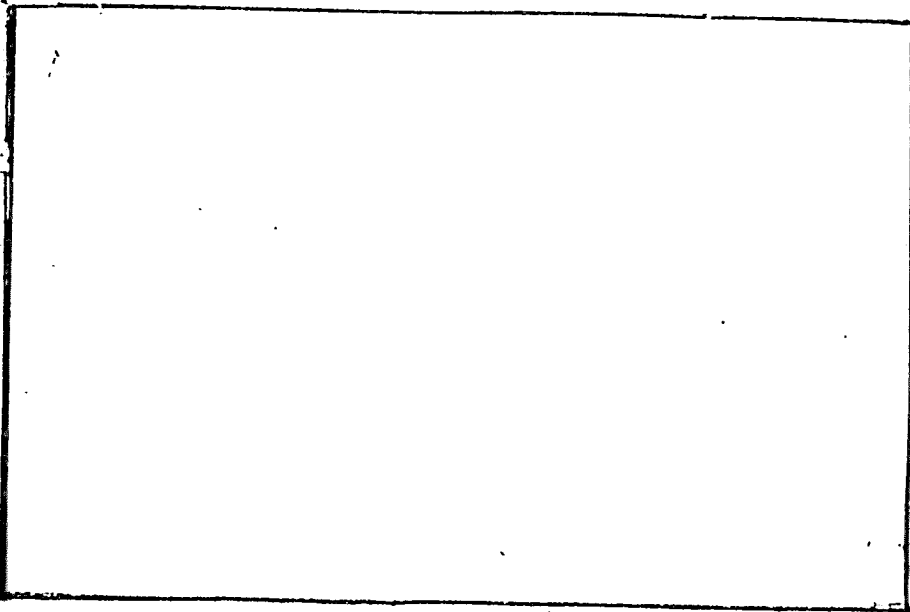
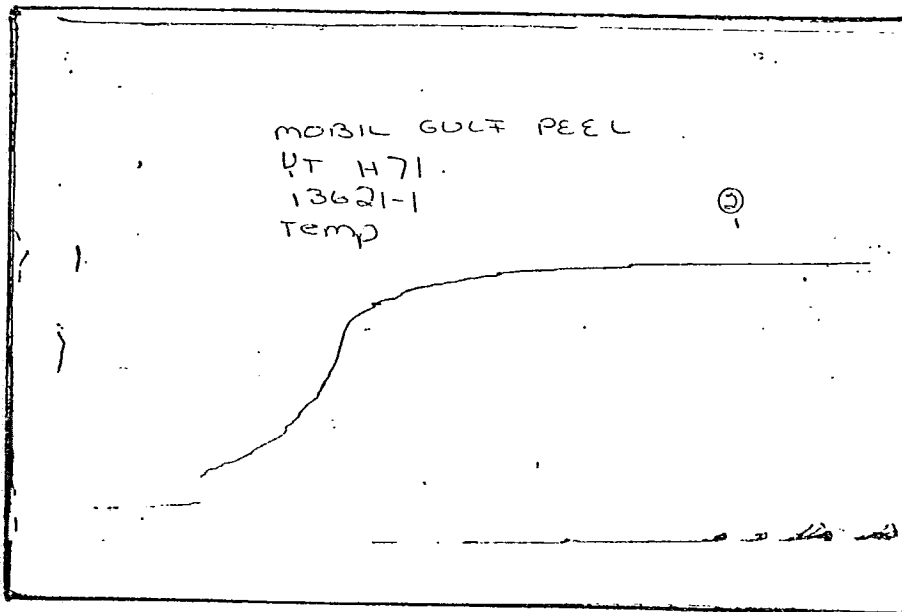
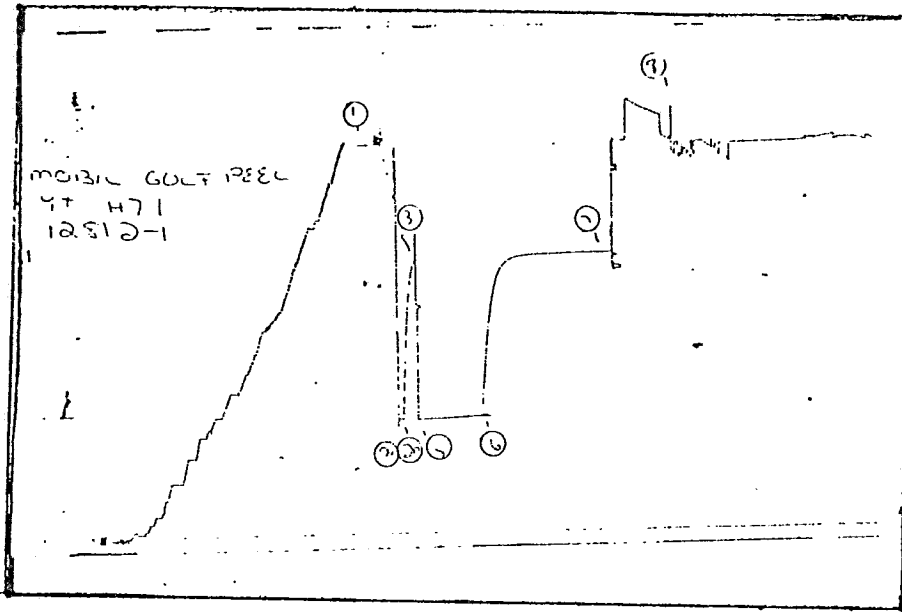
- 1 5108
- 2a 1556
- 2b 1534
- 3 3666
- 4a _____
- 4b _____
- 4c _____
- 5 1534
- 6 1571
- 7 3670
- 8 5108

Inside _____ Outside
Recorder No. 5118
Capacity 6000
Depth 9425

- 1 5138
- 2a 1561
- 2b 1546
- 3 3670
- 4a _____
- 4b _____
- 4c _____
- 5 1541
- 6 1580
- 7 3660
- 8 5138

Inside _____ Outside _____
Recorder No. _____
Capacity _____
Depth _____

- 1 _____
- 2a _____
- 2b _____
- 3 _____
- 4a _____
- 4b _____
- 4c _____
- 5 _____
- 6 _____
- 7 _____
- 8 _____



Location YT H71
DST # 1

Inside _____ Outside X
Recorder No. 12812
Capacity 6100
Depth 9425

- 1 5134
- 2a 1551
- 2b 1536
- 3 3598
- 4a _____
- 4b _____
- 4c _____
- 5 1538
- 6 1564
- 7 3672
- 8 5134

Inside _____ Outside X
Recorder No. 13621
Capacity 50°-265°
Depth 9425

- 1 _____
- 2a _____
- 2b 207°
- 3 _____
- 4a _____
- 4b Clock ran out.
- 4c _____
- 5 _____
- 6 _____
- 7 _____
- 8 _____

Inside _____ Outside _____
Recorder No. _____
Capacity _____
Depth _____

- 1 _____
- 2a _____
- 2b _____
- 3 _____
- 4a _____
- 4b _____
- 4c _____
- 5 _____
- 6 _____
- 7 _____
- 8 _____

PETCO SERVICES (1973) LTD.



WELL DATA

Well Name	MOBIL GULF PEEL YT H-71	Date	MAY 10, 1977
Well Location	H-71	Test No.	ONE
Customer	MOBIL OIL CANADA LTD.	Formation	RONNING
Customer Rep	MR. DENNIS MOORE	Interval	9415-9475
Testing Company	LYNES UNITED LTD.	Total Depth	9475
Test Type	INFLATE BOTTOM HOLE	KB Elev	1680 (EST.)

Well Name

MOBIL GULF PEEL YT H-71

TIME PRESSURE DATA

	Preflow	13	mins.	ISI	60	mins.	Flow	120	mins.	FSI	240	mins.
	In	X	Out	In	Out	X	In	Out	In	Out	In	Out
	Rec. No.		8538	Rec. No.		5118	Rec. No.					
	Range		0-5950	Range		0-6000	Range					
	Depth		9395	Depth		9425	Depth					
Initial Hydrostatic Pressure			5123			5133						
Initial Shut-In Pressure			3683			3665						
Initial Flow Pressure			1432			1427						
Final Flow Pressure			1591			1575						
Final Shut-In Pressure			3691			3655						
Final Hydrostatic Pressure			5131			5130						

FLUID RECOVERY

Total Recovery	1200	Feet	
Recovered		Feet of	
Recovered	1200	Feet of	WATER
Recovered		Feet of	
Recovered		Feet of	

GAS RECOVERY

Measured with				
Flow Time	Reading	Temperature	Orifice Size	Flow Rate
Minutes	PSI	°F	Inches	MCFD

TEST DATA

Feet of Net Pay	25	Percentage Porosity	3
Drill Pipe Size	4.5 XH	Drill Pipe Weight	
Drill Collar ID		Feet of Collars Above Tool	213.08
Main Hole Size	8.5	Packer Size	7.875
Rathole Size		Rathole Length	
Cushion Amount	4,000	Cushion Type	WATER
Weight to Set Packer		Weight to Pull Loose	
Bottom Hole Temperature	206	Bottom Choke Size	1
Mud Type	KCL	Vis	42
		F/C	2/32
		W.L.	
		Wt.	

REMARKS

AFTER DEFLATING PACKER WE LET TOOLS SIT AT THE ENGINEERS REQUEST TO SEE IF ANY GAS WOULD WORK TO SURFACE. AFTER 2 HOURS WE WERE STUCK IN THE HOLE. FILLED PIPE FULL OF MUD ON TOP OF THE WATER CUSHION.

MR. DENNIS MOORE

RALPH SAND

Customer Representative

Tester

TOOL DATA

P.O. Sub	
D.P. Sub	
Shut-In	
Hydraulic	
Sampler	
Sampler	
Jars	
Recorder	
Recorder	
Safety Jt.	
By-Pass	
Packer	
Packer	
Perfs.	
X Over	
DP or DC	
X Over	
Perfs.	
By-Pass	
Blank	
Recorder	
Packer	
10.3. er	
Perfs.	
Recorder	
X Over	
DP or DC	
X Over	
Perfs.	
Bullnose	

Well Location

H-71

Test No.

ONE

Date

MAY 10, 1977

WELL NAME: MOBIL GULF PEEL YT H71
 WELL LOCATION: H71
 FORMATION: RONNING

REC NO. 8538
 DST NO. 1
 DEPTH 9395

TIME - PRESSURE INCREMENTS

REMARKS	TIME MIN.	PRESSURE PSIG	T+DELTA(T)/ DELTA(T)
RUNNING IN HOLE	0.	0.	
	444.0	5123.4	
INITIAL HYDROSTATIC PRESSURE	542.0	5123.4	
FIRST FLOW PERIOD	0.	1317.6	
	1.0	1573.2	
	6.0	1568.2	
	11.0	1555.8	
FINAL FLOWING PRESSURE	13.0	1545.9	
BUILD-UP AFTER FIRST FLOW	0.	1545.9	
	5.0	2734.0	3.60
	10.0	3221.9	2.30
	15.0	3468.8	1.87
	20.0	3576.1	1.65
	25.0	3625.9	1.52
	30.0	3650.9	1.43
	35.0	3665.8	1.37
	40.0	3670.8	1.33
	45.0	3675.8	1.29
	50.0	3679.6	1.26
	55.0	3680.8	1.24
INITIAL SHUT-IN PRESSURE	60.0	3683.3	1.22
SECOND FLOW PERIOD	0.	3683.3	
INITIAL FLOWING PRESSURE	1.0	1431.8	
	1.0	1550.9	
	5.0	1545.9	
	10.0	1545.9	
	15.0	1550.9	
	20.0	1552.1	

WELL NAME: MOBIL GULF PEEL YT H71
 WELL LOCATION: H71
 FORMATION: RONNING

REC NO. 8538
 DST NO. 1
 DEPTH 9395

TIME - PRESSURE INCREMENTS

REMARKS	TIME MIN.	PRESSURE PSIG	T+DELTA(T)/ DELTA(T)
	25.0	1554.6	
	30.0	1557.1	
	35.0	1560.8	
	40.0	1563.3	
	45.0	1565.8	
	50.0	1568.2	
	55.0	1569.5	
	60.0	1570.7	
	65.0	1573.2	
	70.0	1574.4	
	75.0	1575.7	
	80.0	1575.7	
	85.0	1576.9	
	90.0	1578.2	
	95.0	1579.4	
	100.0	1583.1	
	105.0	1583.1	
	110.0	1585.6	
	115.0	1585.6	
FINAL FLOWING PRESSURE	120.0	1590.6	
BUILD-UP AFTER SECOND FLOW	0.	1590.6	
	5.0	2234.0	27.60
	10.0	2613.3	14.30
	15.0	2918.7	9.87
	20.0	3143.4	7.65
	25.0	3299.3	6.32
	30.0	3411.5	5.43
	35.0	3483.8	4.80
	40.0	3534.9	4.32
	45.0	3569.8	3.96
	50.0	3593.5	3.66
	55.0	3611.0	3.42
	60.0	3623.4	3.22
	65.0	3633.4	3.05
	70.0	3640.9	2.90
	75.0	3643.4	2.77
	80.0	3645.9	2.66
	85.0	3648.4	2.56
	90.0	3650.9	2.48
	100.0	3655.9	2.33

WELL NAME: MOBIL GULF PEEL YT H71
 WELL LOCATION: H71
 FORMATION: RONNING

REC NO. 8538
 DST NO. 1
 DEPTH 9395

TIME - PRESSURE INCREMENTS

<u>REMARKS</u>	<u>TIME MIN.</u>	<u>PRESSURE PSIG</u>	<u>T+DELTA(T)/ DELTA(T)</u>
	110.0	3658.4	2.21
	120.0	3662.1	2.11
	130.0	3668.3	2.02
	140.0	3673.3	1.95
	150.0	3675.8	1.89
	160.0	3675.8	1.83
	170.0	3678.3	1.78
	180.0	3680.8	1.74
	190.0	3682.0	1.70
	200.0	3684.5	1.67
	210.0	3685.8	1.63
	220.0	3688.3	1.60
	230.0	3689.5	1.58
SECOND SHUT-IN PRESSURE	240.0	3690.8	1.55
PULLING OUT OF HOLE	0.	3690.8	
FINAL HYDROSTATIC PRESSURE	1.0	5131.0	
	69.0	5131.0	
CHART ENDS	498.0	0.	

WELL NAME: MOBIL GULF PEEL YT H71
WELL LOCATION: H71
FORMATION: RONNING
RECOVERY TYPE USED IN CALCULATIONS: WATER

REC NO. 8538
DST NO. 1
DEPTH 9395
INTERVAL 9415-9475

SUMMARY OF CALCULATIONS

1 FIRST SHUT-IN

EXTRAPOLATED FORMATION PRESSURE -----	3707.5 PSIG
SLOPE OF EXTRAPOLATED LINE -----	285.29 PSI/CYCLE
ROOT MEAN SQUARE DEVIATION OF FITTED LINE -----	0.42 PSI
NUMBER OF POINTS IN SHUT-IN -----	13
NUMBER OF POINTS USED FOR EXTRAPOLATION -----	4

2 SECOND SHUT-IN

EXTRAPOLATED FORMATION PRESSURE -----	3732.5 PSIG
SLOPE OF EXTRAPOLATED LINE -----	217.08 PSI/CYCLE
ROOT MEAN SQUARE DEVIATION OF FITTED LINE -----	0.27 PSI
NUMBER OF POINTS IN SHUT-IN -----	34
NUMBER OF POINTS USED FOR EXTRAPOLATION -----	5

DIFFERENCE (2ND-1ST EXTRAPOLATION) ----- 24.9 PSI

RESERVOIR AND FLUID PROPERTIES

NET PAY -----	25.00 FT
RESERVOIR POROSITY -----	3.00 PERCENT
PRODUCTION RATE -----	170.5 BPD
FORMATION VOLUME FACTOR -----	1.000 RB/STB
FLUID VISCOSITY -----	0.250 C.P.
TOTAL COMPRESSIBILITY X 10 ⁻⁶ -----	11.500 /PSI
RESERVOIR TEMPERATURE -----	206.0 F
FINAL FLOWING PRESSURE -----	1590.6 PSIG
TOTAL FLOW TIME -----	133.0 MIN

4 CALCULATION RESULTS

ESTIMATED DAMAGE RATIO -----	1.90
PERMEABILITY THICKNESS -----	31.9 MD FT
PERMEABILITY -----	1.28 MD
SKIN FACTOR -----	5.38
APPROXIMATE DRAINAGE RADIUS -----	185.4 FT
PRODUCTIVITY INDEX -----	0.080 BPD/PSI
PRODUCTION WITH DAMAGE REMOVED -----	324.3 BPD

WELL NAME: MOBIL GULF PEEL YT H71
 WELL LOCATION: H71
 FORMATION: ROHNING
 RECOVERY TYPE USED IN CALCULATIONS: WATER

REC NO. 8538
 DST NO. 1
 DEPTH 9395
 INTERVAL 9415-9475

SUMMARY OF CALCULATIONS

1 FIRST SHUT-IN

EXTRAPOLATED FORMATION PRESSURE -----	3707.5 PSIG
SLOPE OF EXTRAPOLATED LINE -----	285.29 PSI/CYCLE
ROOT MEAN SQUARE DEVIATION OF FITTED LINE -----	0.42 PSI
NUMBER OF POINTS IN SHUT-IN -----	13
NUMBER OF POINTS USED FOR EXTRAPOLATION -----	4

2 SECOND SHUT-IN

EXTRAPOLATED FORMATION PRESSURE -----	3732.5 PSIG
SLOPE OF EXTRAPOLATED LINE -----	217.08 PSI/CYCLE
ROOT MEAN SQUARE DEVIATION OF FITTED LINE -----	0.27 PSI
NUMBER OF POINTS IN SHUT-IN -----	34
NUMBER OF POINTS USED FOR EXTRAPOLATION -----	5

DIFFERENCE (2ND-1ST EXTRAPOLATION) -----	24.9 PSI
--	----------

3 RESERVOIR AND FLUID PROPERTIES

NET PAY -----	25.00 FT
RESERVOIR POROSITY -----	3.00 PERCENT
PRODUCTION RATE -----	42.2 BPD
FORMATION VOLUME FACTOR -----	1.000 RB/STB
FLUID VISCOSITY -----	0.250 C.P.
TOTAL COMPRESSIBILITY X 10-6 -----	11.500 /PSI
RESERVOIR TEMPERATURE -----	206.0 F
FINAL FLOWING PRESSURE -----	1590.6 PSIG
TOTAL FLOW TIME -----	133.0 MIN

4 CALCULATION RESULTS

ESTIMATED DAMAGE RATIO -----	2.15
PERMEABILITY THICKNESS -----	7.9 MD FT
PERMEABILITY -----	0.32 MD
SKIN FACTOR -----	6.08
APPROXIMATE DRAINAGE RADIUS -----	92.2 FT
PRODUCTIVITY INDEX -----	0.020 BPD/PSI
PRODUCTION WITH DAMAGE REMOVED -----	90.9 BPD

WELL NAME: MOBIL GULF PEEL YT H71
 WELL LOCATION: H71
 FORMATION: RONNING
 RECOVERY TYPE USED IN CALCULATIONS: GAS

REC NO. 8533
 DST NO. 1
 DEPTH 9395
 INTERVAL 9415-9475

SUMMARY OF CALCULATIONS

1 FIRST SHUT-IN

EXTRAPOLATED FORMATION PRESSURE -----	3707.5 PSIG
SLOPE OF EXTRAPOLATED LINE -----	285.29 PSI/CYCLE
ROOT MEAN SQUARE DEVIATION OF FITTED LINE -----	0.42 PSI
NUMBER OF POINTS IN SHUT-IN -----	13
NUMBER OF POINTS USED FOR EXTRAPOLATION -----	4

2 SECOND SHUT-IN

EXTRAPOLATED FORMATION PRESSURE -----	3732.5 PSIG
SLOPE OF EXTRAPOLATED LINE -----	217.08 PSI/CYCLE
ROOT MEAN SQUARE DEVIATION OF FITTED LINE -----	0.27 PSI
NUMBER OF POINTS IN SHUT-IN -----	34
NUMBER OF POINTS USED FOR EXTRAPOLATION -----	5

DIFFERENCE (2ND-1ST EXTRAPOLATION) -----	24.9 PSI
--	----------

3 RESERVOIR AND FLUID PROPERTIES

NET PAY -----	25.00 FT
RESERVOIR POROSITY -----	3.00 PERCENT
PRODUCTION RATE -----	285.0 MCFD
FORMATION VOLUME FACTOR -----	1.105 RB/MCF
SUPERCOMPRESSIBILITY FACTOR -----	0.900
GAS SPECIFIC GRAVITY -----	0.600
FLUID VISCOSITY -----	0.015 C.P.~
TOTAL COMPRESSIBILITY X 10 ⁻⁶ -----	308.062 /PSI
RESERVOIR TEMPERATURE -----	206.0 F
FINAL FLOWING PRESSURE -----	1590.6 PSIG
TOTAL FLOW TIME -----	133.0 MIN

4 CALCULATION RESULTS

ESTIMATED DAMAGE RATIO -----	2.37
PERMEABILITY THICKNESS -----	3.5 MD FT
PERMEABILITY -----	0.14 MD
SKIN FACTOR -----	6.35
APPROXIMATE DRAINAGE RADIUS -----	48.7 FT
PRODUCTIVITY INDEX -----	0.133 MCFD/PSI
FLOWING PRESSURE CORRECTED FOR TURBULENCE -----	1660.5 PSI



PRESSURE - PSIG

(T + Delta t) / Delta t

WELL NAME: MOBIL GULF PEEL YT H-71
 WELL LOCATION: H-71
 FORMATION: RONNING

REC NO. 5118
 DST NO. 1
 DEPTH 9425

TIME - PRESSURE INCREMENTS

REMARKS	TIME MIN.	PRESSURE PSIG	T+DELTA(T)/ DELTA(T)
RUNNING IN HOLE	0.	0.	
	439.0	5132.5	
INITIAL HYDROSTATIC PRESSURE	531.0	5132.5	
FIRST FLOW PERIOD	0.	1348.1	
	1.0	1555.6	
	6.0	1550.6	
FINAL FLOWING PRESSURE	13.0	1540.7	
BUILD-UP AFTER FIRST FLOW	0.	1540.7	
	1.0	1869.1	14.00
	2.0	2073.4	7.50
	3.0	2246.3	5.33
	4.0	2393.0	4.25
	5.0	2557.2	3.60
	10.0	3116.1	2.30
	15.0	3401.0	1.87
	20.0	3542.8	1.65
	25.0	3605.1	1.52
	30.0	3629.6	1.43
	35.0	3644.3	1.37
	40.0	3651.6	1.33
	45.0	3657.7	1.29
	50.0	3661.4	1.26
	55.0	3663.8	1.24
INITIAL SHUT-IN PRESSURE	60.0	3665.0	1.22
SECOND FLOW PERIOD	0.	3665.0	
INITIAL FLOWING PRESSURE	1.0	1427.2	
	1.0	1538.3	
	5.0	1530.9	

WELL NAME: MOBIL GULF PEEL YT H-71
 WELL LOCATION: H-71
 FORMATION: RONNING

REC NO. 5113
 DST NO. 1
 DEPTH 9425

TIME - PRESSURE INCREMENTS

REMARKS	TIME MIN.	PRESSURE PSIG	T+DELTA(T)/ DELTA(T)
	10.0	1533.3	
	15.0	1535.8	
	20.0	1538.3	
	25.0	1540.7	
	30.0	1543.2	
	35.0	1545.7	
	40.0	1548.1	
	45.0	1551.9	
	50.0	1553.1	
	55.0	1555.6	
	60.0	1555.6	
	65.0	1558.0	
	70.0	1559.3	
	75.0	1561.7	
	80.0	1564.2	
	85.0	1566.7	
	90.0	1569.1	
	95.0	1570.4	
	100.0	1572.8	
	105.0	1572.8	
	110.0	1574.1	
	115.0	1575.3	
FINAL FLOWING PRESSURE	120.0	1575.3	
BUILD-UP AFTER SECOND FLOW	0.	1575.3	
	1.0	1733.3	134.00
	2.0	1834.6	67.50
	3.0	1940.7	45.33
	4.0	2026.1	34.25
	5.0	2111.9	27.60
	10.0	2542.3	14.30
	15.0	2873.1	9.87
	20.0	3107.6	7.65
	25.0	3275.1	6.32
	30.0	3336.3	5.43
	35.0	3462.1	4.80
	40.0	3513.4	4.32
	45.0	3548.9	3.96
	50.0	3574.6	3.66
	55.0	3590.5	3.42
	60.0	3602.7	3.22

WELL NAME: MOBIL GULF PEEL YT H-71
 WELL LOCATION: H-71
 FORMATION: RONNING

REC NO. 5118
 DST NO. 1
 DEPTH 9425

TIME - PRESSURE INCREMENTS

<u>REMARKS</u>	<u>TIME MIN.</u>	<u>PRESSURE PSIG</u>	<u>T+DELTA(T)/ DELTA(T)</u>
	65.0	3611.2	3.05
	70.0	3616.1	2.90
	75.0	3621.0	2.77
	80.0	3624.7	2.66
	90.0	3630.8	2.48
	100.0	3634.5	2.33
	110.0	3636.9	2.21
	120.0	3640.6	2.11
	130.0	3643.0	2.02
	140.0	3643.0	1.95
	150.0	3644.3	1.89
	160.0	3646.7	1.83
	170.0	3647.9	1.78
	180.0	3649.1	1.74
	190.0	3650.4	1.70
	200.0	3652.8	1.67
	210.0	3654.0	1.63
	220.0	3655.3	1.60
	230.0	3655.3	
SECOND SHUT-IN PRESSURE	240.0	3655.3	
PULLING OUT OF HOLE	0.	3655.3	
FINAL HYDROSTATIC PRESSURE	1.0	5130.0	
	67.0	5130.0	
CHART ENDS	477.0	0.	

WELL NAME: MOBIL GULF PEEL YT H-71
 WELL LOCATION: H-71
 FORMATION: RONNING
 RECOVERY TYPE USED IN CALCULATIONS: WATER

REC NO. 5118
 DST NO. 1
 DEPTH 9425
 INTERVAL 9415-9475

SUMMARY OF CALCULATIONS

1 FIRST SHUT-IN

EXTRAPOLATED FORMATION PRESSURE -----	3690.7 PSIG
SLOPE OF EXTRAPOLATED LINE -----	296.61 PSI/CYCLE
ROOT MEAN SQUARE DEVIATION OF FITTED LINE -----	0.40 PSI
NUMBER OF POINTS IN SHUT-IN -----	17
NUMBER OF POINTS USED FOR EXTRAPOLATION -----	4

2 SECOND SHUT-IN

EXTRAPOLATED FORMATION PRESSURE -----	3692.8 PSIG
SLOPE OF EXTRAPOLATED LINE -----	182.35 PSI/CYCLE
ROOT MEAN SQUARE DEVIATION OF FITTED LINE -----	0.27 PSI
NUMBER OF POINTS IN SHUT-IN -----	35
NUMBER OF POINTS USED FOR EXTRAPOLATION -----	5
DIFFERENCE (2ND-1ST EXTRAPOLATION) -----	2.1 PSI

REC. NO. 5-18

P* = 3692.8 PSIG

DST. NO. 1

H-71

17-H 1A PEET YH

4400

4200

4000

008C

009C

007C

002C

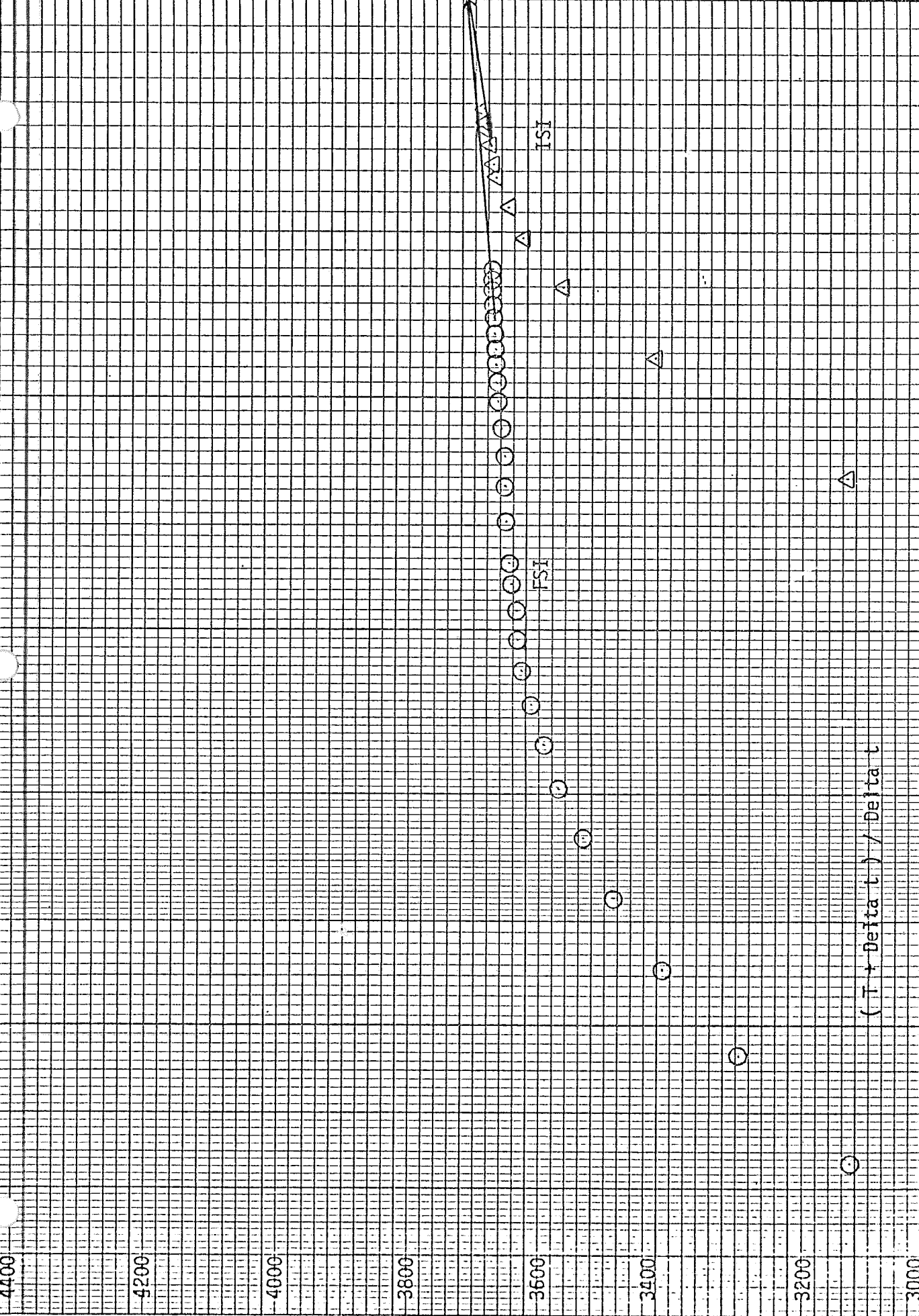
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PRESSURE - PSIG

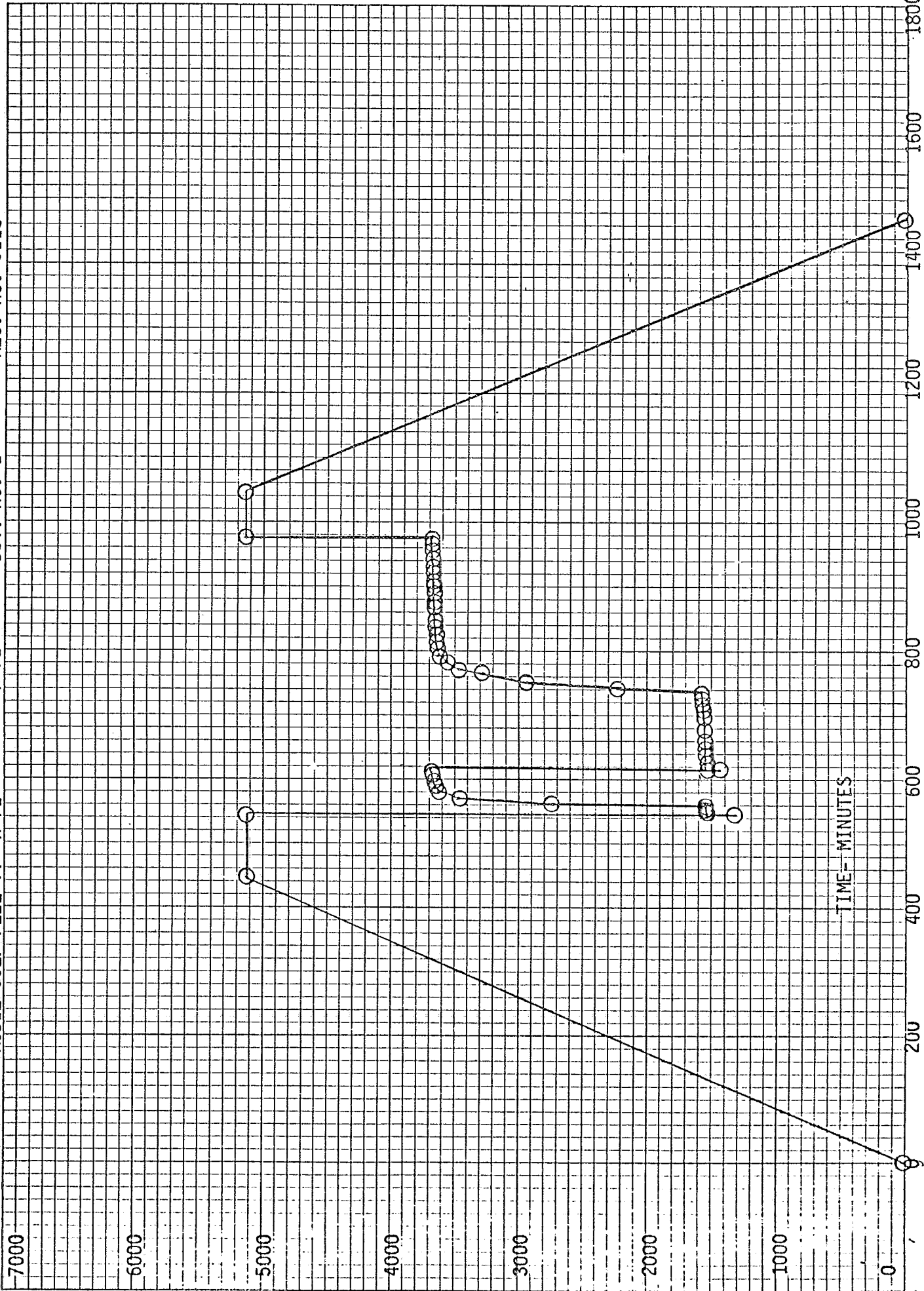
(T + Delta t / Delta t)

ISI

ISI

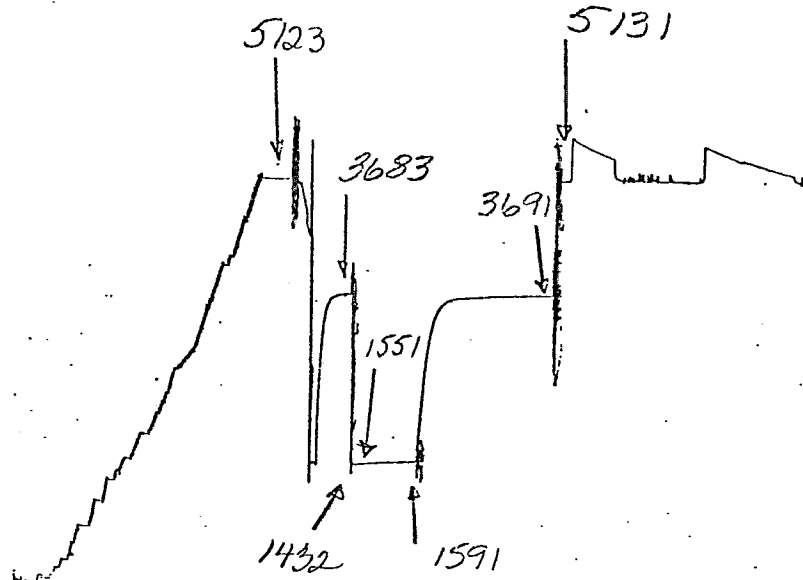


MOBIL GULF PEEL YT H-71 H-71 DST. NO. 1 REC. NO. 5118

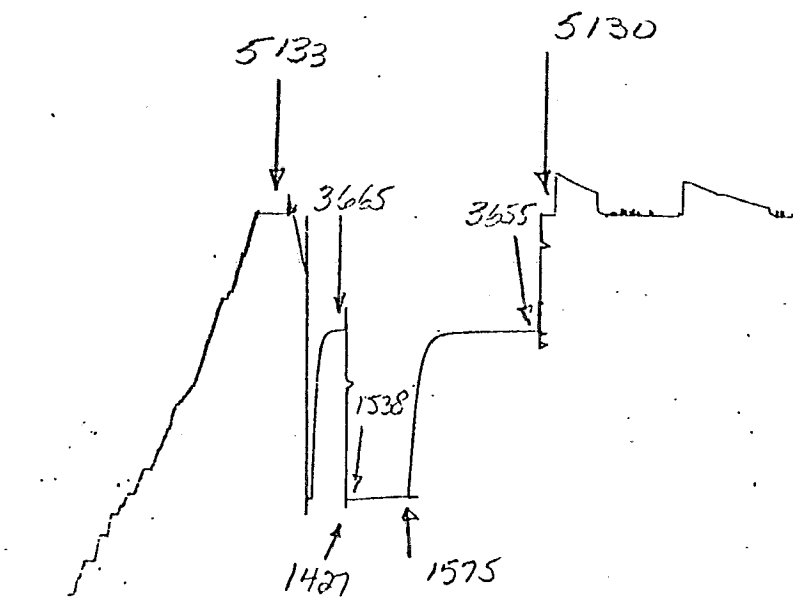


TIME - MINUTES

MOBIL GULF PEET YT H-71
DST. NO. 1
INSIDE REC. NO. 8538
DEPTH 9395



MOBIL GULF PEET YT H-71
DST. NO. 1
OUTSIDE REC. NO. 5118
DEPTH 9425



LYNES UNITED SERVICE REPORT 9 - 76

WELL NAME - MOBIL GULF PEEL

WELL LOCATION - YTH71

DST NUMBER - 2

INTERVAL TESTED - 8940 TO 9490

RECORDER NUMBER - 8952

DEPTH - 8954

Final SHUT IN PRESSURE

TIME(MIN) PHI	(T+PHI) /PHI	PSIG
-----	-----	----
0.0	0.0000	2904
5.0	27.0000	3226
10.0	14.0000	3249
15.0	9.6667	3264
20.0	7.5000	3276
25.0	6.2000	3285
30.0	5.3333	3293
35.0	4.7143	3299
40.0	4.2500	3305
45.0	3.8889	3311
50.0	3.6000	3317
55.0	3.3636	3320
60.0	3.1667	3323

FITTED LINE: $\text{LOG}((T+PHI)/PHI) = -0.00910 \text{ PSIG} + 30.74243$

EXTRAPLN OF FINAL SHUT IN = 3378.0 M = 109.9

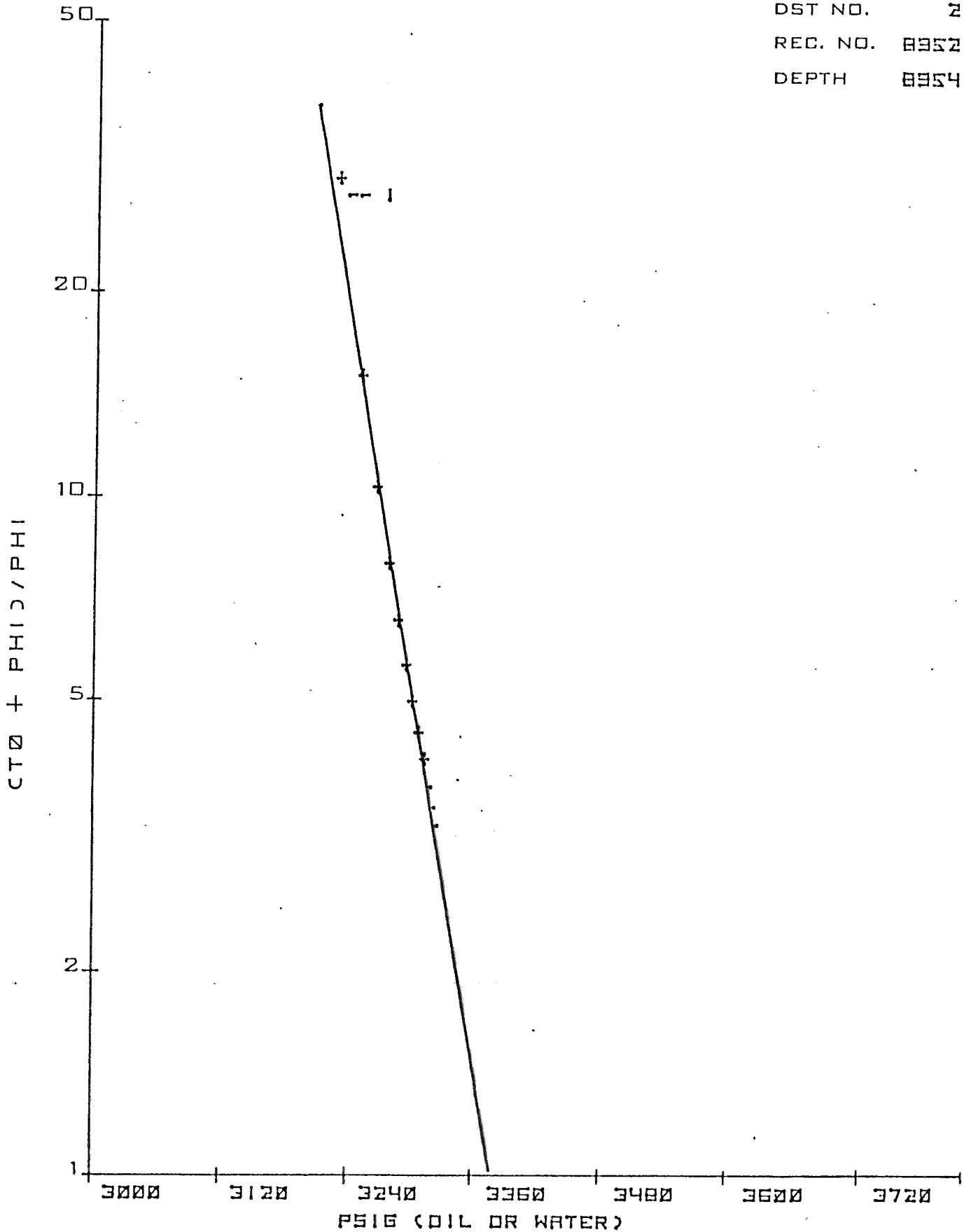
LYNES UNITED SERVICES LTD.

WELL: MOBIL GULF PEEL

LOCN:YTH71

DATE: 06-06-77

DST NO. 2
 REC. NO. 8952
 DEPTH 8954



PRESSURE EXTRAPOLATION PLOT

MOBIL OIL CANADA LTD.

WELL NAME - MOBIL GULF PEEL

LOCATION - YT H71

DST - 2

INTERVAL - 8940 - 9490

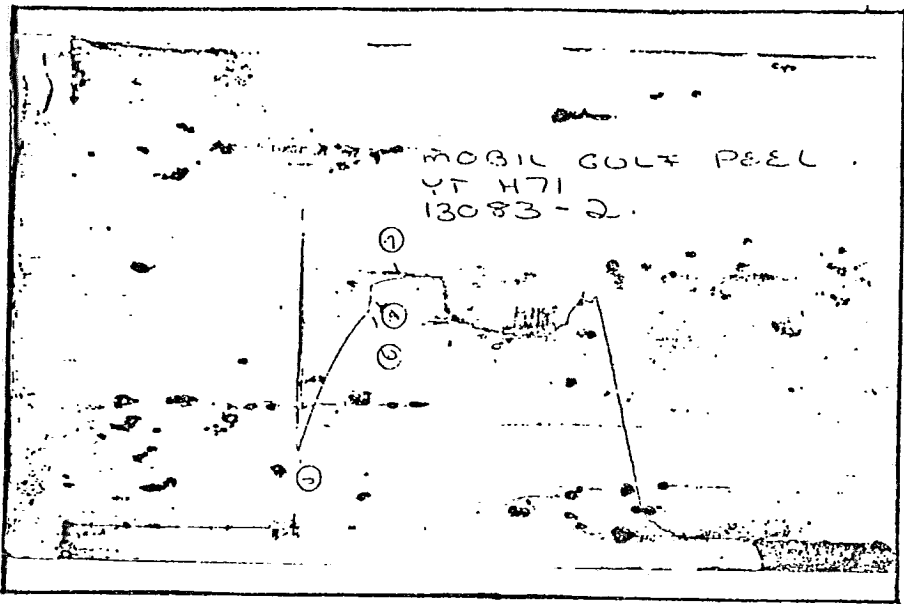
RECORDER - 13083

CAPACITY - 6150

DEPTH - 8920

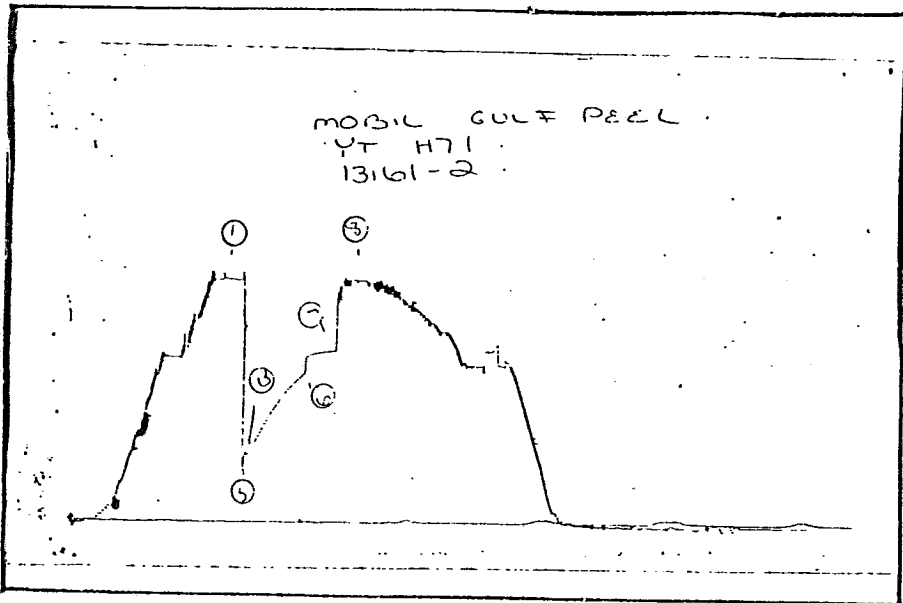
FINAL FLOW

<u>TIME</u>	<u>PRESSURE</u>	<u>TIME</u>	<u>PRESSURE</u>
0	1010	70	2240
5	1054	75	2306
10	1156	80	2367
15	1255	85	2431
20	1370	90	2495
25	1477	95	2551
30	1577	100	2599
35	1666	105	2651
40	1753	110	2699
45	1839	115	2742
50	1923	120	2786
55	2010	125	2832
60	2094	130	2870
65	2168		



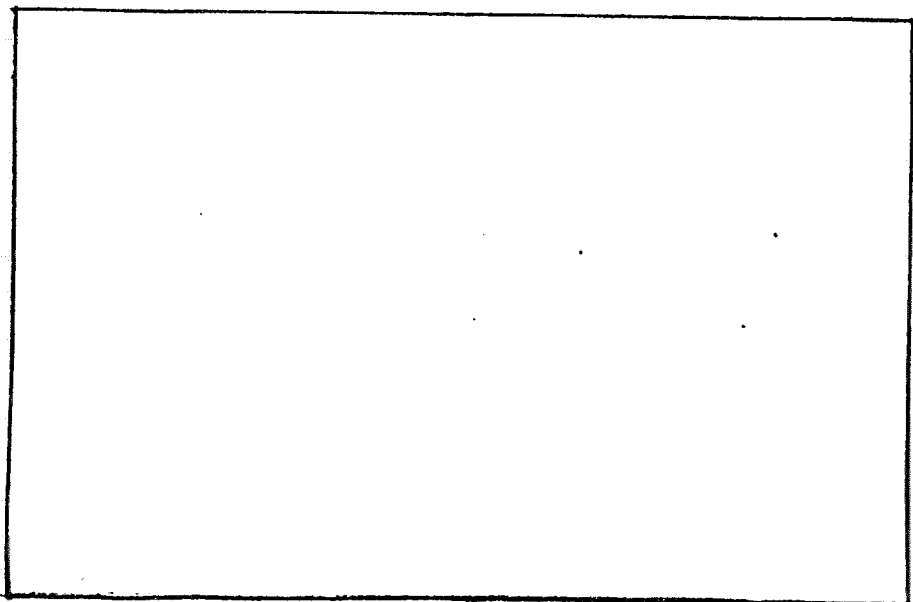
Location YT H71
DST # 2
Inside Outside _____
Recorder No. 13083
Capacity 6150
Depth 8928

1 _____
2a _____
2b _____
3 Above
4a Hydraulic
4b Tool
5 1010
6 2870
A 3005
7 3312
8 _____



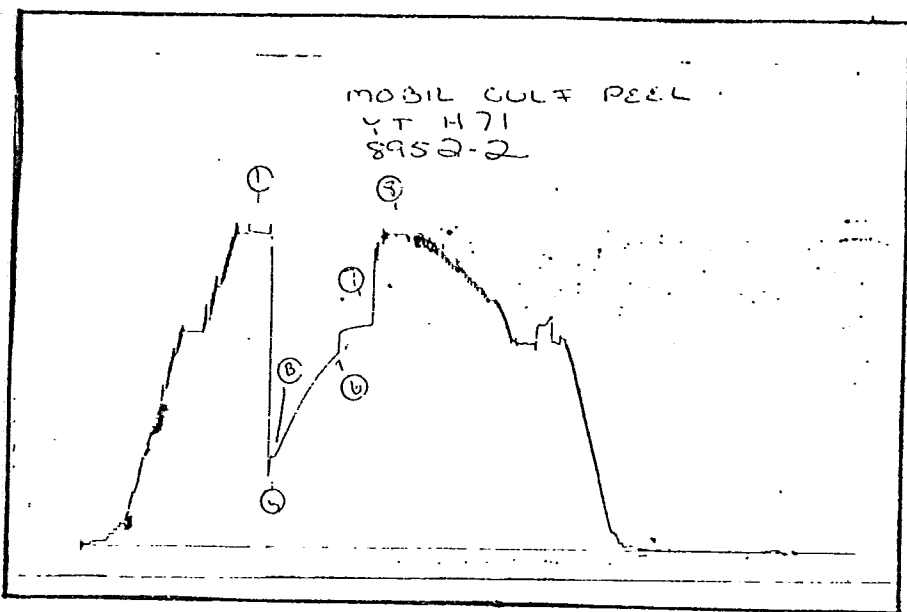
Inside _____ Outside
Recorder No. 13161
Capacity 9000
Depth 8954

1 4693
2a _____
2b _____
3 _____
4a _____
4b _____
5 1082
B 1295
6 2884
7 3320
8 4693



Inside _____ Outside _____
Recorder No. _____
Capacity _____
Depth _____

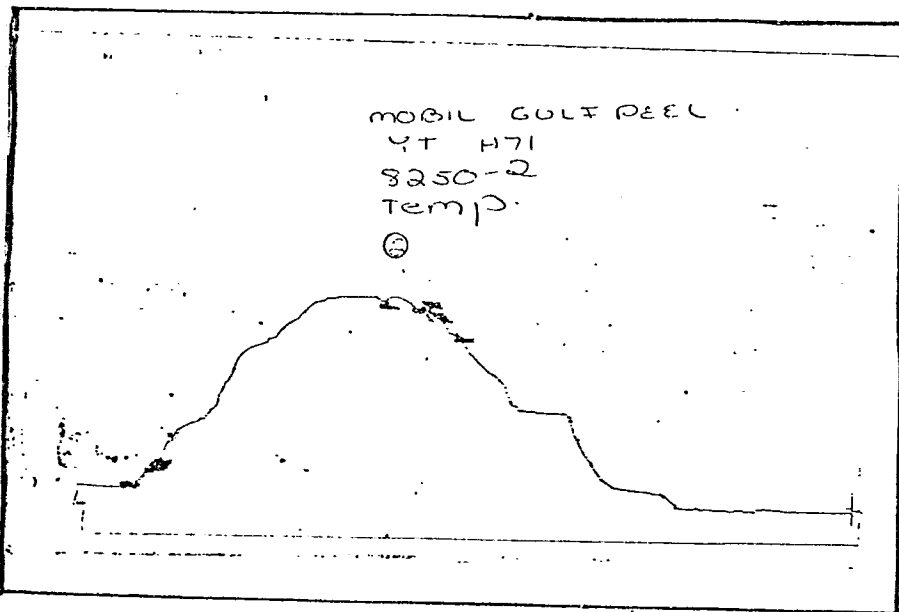
1 _____
2a _____
2b _____
3 _____
4a _____
4b _____
4c _____
5 _____
6 _____
7 _____
8 _____



Location YT H71
DST # 2

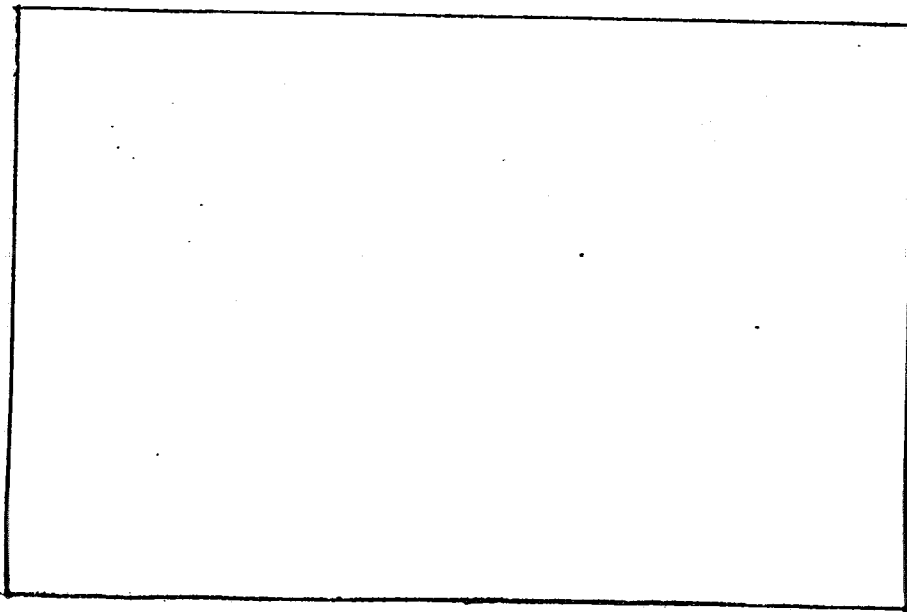
Inside _____ Outside X
Recorder No. 8952
Capacity 7000
Depth 8954

- 1 4705 FH
- 2a _____
- 2b _____
- 3 _____
- 4a _____
- 4b _____
- 5 1108 IF
- B 1334
- 6 2904 EF
- 7 3323 FS/P
- 8 4705 FH



Inside _____ Outside X
Recorder No. 8250
Capacity 40-2470
Depth 8954

- 1 _____
- 2a 232°
- 2b _____
- 3 _____
- 4a _____
- 4b _____
- 4c _____
- 5 _____
- 6 _____
- 7 _____
- 8 _____



Inside _____ Outside _____
Recorder No. _____
Capacity _____
Depth _____

- 1 _____
- 2a _____
- 2b _____
- 3 _____
- 4a _____
- 4b _____
- 4c _____
- 5 _____
- 6 _____
- 7 _____
- 8 _____