

WELL HISTORY REPORT

for

SOCIETY MOBIL CERTAIN MINERALS

NORTH GATE NO. 1-62

Latitude N $66^{\circ} 11' 13.5''$

Longitude W $136^{\circ} 41' 53''$

Society Mobil Oil of Canada, Ltd.
Dawson Creek District

Atkinson

G. A. Atkinson
DISTRICT GEOLOGIST

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ATTACHMENTS

Schlumberger Logs (IES, PUCSOP-G, FL-G, CEM, GRS, DIL)

WELL HISTORY REPORT

SECTION I - Summary of Well Data

- (a) Well Name and Number: Socony Mobil Western Minerals
North Cosh W 1-62
- (b) Formation: Western Minerals Ltd.
- (c) Operator: Socony Mobil Oil of Canada, Ltd.
- (d) Location: Unit B Section 62
Grid N 65° 20', W 130° 30'
Latitude N 66° 11' 13.5"
Longitude W 130° 41' 53"
- (e) Permit: 3349
- (f) Drilling Contractor: Socony Mobil Ltd.
- (g) Drilling Authority: 155; April 7, 1965
- (h) Classification: New Field Wildcat
- (i) Elevation: Ground 1754.2 ft.
K.B. 1772 ft.
- (j) Spudded: April 16, 1965
- (k) Completed Drilling: June 28, 1965
- (l) Total Depth: 7016 ft.
Top of Fish at 6911

- (n) Well Status: Dry & Abandoned
- (o) Rig Released: July 8, 1965
- (p) Hole Size:
- 24 1/2" to 85 ft.
 - 17 1/8" to 806 ft.
 - 12 1/4" to 3220 ft.
 - 8 5/8" to 7016 ft.
- (q) Casing:
- 13 3/8" 54.5 to 605.19 K.B.
 - 9 5/8" 36 to 3220 K.B.

(r) NOTE:

Plate with 3" valve installed in casing flange. Mud displaced with diesel fuel above Plug #2. Well turned over to the Department of Mines & Technical Surveys, Seismology Division, which is responsible for the final abandonment of the well.

SECTION II - Geological Summary

(a) Formation Tops	E-log Tops	
	Depth	Elevation
Upper Devonian	Surface	+1755
Devonian Carbonates	2663	- 691
Ordovician Dolomite	6187	-4415

(b) Cored Intervals

Core Number	From	To	Thc.	Formation
1	1294	1303	9'	Upper Devonian
2	2050	2059	9'	Upper Devonian
3	2509	2518	9'	Upper Devonian
4	2560	2569	9'	Upper Devonian-Dev. Carbonates
5	3412	3452	40'	Devonian Carbonates
6	3814	3850	36'	Devonian Carbonates
7	4531	4540	9'	Devonian Carbonates
8	5219	5228	9'	Devonian Carbonates
9	5930	5936	3'	Devonian Carbonates
10	6032	6041	9'	Devonian Carbonates
11	6473	6482	2'	Ordovician Dolomite
12	6791	6800	5'	Ordovician Dolomite

(c) Core Description

Diamond Core #1 Mississippi - Upper Devonian

1294 - 1303' Recovered 9'

Coring times: 27, 32, 40, 39, 43, 43, 41, 39, 40 minutes per foot.

1294 - 1303'

9'

Shale, dark gray, in bands from 1/8" to 4" thick.

Carbonized plant remains scattered throughout (some plant fragments very large). Occasional slickensides with formation of graphite as at 1296, interbedded with shale, gray to brown, slightly siliceous and dolomitic, slightly silty in part, in bands from 1/16" to 1" thick, hard, dense.

Pyrite in lenses as at 1297' and bands as at 1299.5' and fine grains scattered throughout core. Mudstone, brown, slightly sandy, in a 2" band at 1295'. Dolomite, crystals formed in hairline fractures and along some bedding planes.

34, 25'

*Spathoceras sp. at 1294
annular or orthoform
(Noria) - suggest Corall
Noria or of Pa.*

Diamond Core #2 Upper Devonian

2050 - 2059' Recovered 9'

Coring times: 27, 15, 15, 29, 18, 17, 18, 22, 22 minutes per foot.

2050 - 2059'

9'

Sandstone and shale interbedded; sandstone contains angular fragments of shale as at 2052 and 2054.

Irregular pods and lenses of sandstone are included in the shale as at 2054.5° and 2055.5°. Microfaults are present at 2055.5° and truncated bedding present at 2059°. The core suggests a marine environment of deposition with moderate to turbulent currents. The sandstone comprises approximately 60% of core. Approximate dip 10°.

Sandstone, grey to brown, quartz - chert, very fine to coarse grained, angular to well rounded, poorly sorted, silty, dolomite infilled, chert "pebbles", grades to grey - brown siltstone. Contains finely disseminated pyrite, hard, dense and tight throughout.

Shale, grey, silty, dense, hard.

Diamond Core - 3

Upper Devonian

2509 - 2518° Recovered 9'

Coring times:

65, 22, 22, 26, 26, 24, 23, 23, 17 minutes per foot.

The core consists mainly of shale (98%) with dips between 0° and 10°.

2509 - 2510°

9'

Shale, dark grey, slightly silty, slightly dolomitic, hard, dense. Contains thin streaks and lenses of dolomite, white, subhedral crystalline, bitumen coated. Pyrite occurs in thin layers and as fine grains scattered throughout the core. Abundant large carbonized plant imprints along bedding planes. Occasional slickensides

*Abundant large
coal bits
plant frags.*

*mid Frasnian
Coal equivalent*

as at 2517'. 1" band of Gypsum?, light brown, granular to crystalline, soft, at 2513'.

Diamond Core #4

Middle Devonian Harperts formation.

2660 - 2669' Recovered 9'

Coring times:

60, 27, 33, 32, 24, 26, 33, 34, 42 minutes per foot.

2660 - 2669'

9'

Core composed of limestone (90%), light to dark brown, micro to coarsely crystalline, argillaceous, (slightly mottled appearance due to variation in concentrations argillaceous material), extensive recrystallization, with abundant fossils - crinoids, brachiopods, and colonial corals (colony noted at top of core at 2660'), tight, with shale, dark grey to black, greasy luster, bituminous appearance. Shale occurs as thin bands, pods and lenses scattered throughout core. Shale also forms a matrix with large blebs of limestone as at 2667'.

Fossils as

Stylolites with bitumen infill occur throughout core as at 2662' and 2663'.

Fractures with bituminous argillaceous infill as at 2665' and 2667'.

Core emits sulphurous odour when broken.

Calcite, white, crystalline in irregular blebs and veins throughout core.

Diamond Core #5

Devonian

3412 - 3452' Recovered 40'

Coring times:

9, 8, 8, 8, 8, 7, 9, 10, 10, 8, 10, 8, 13, 8, 8, 9, 10,
10, 9, 10, 9, 9, 10, 9, 13, 11, 14, 9, 13, 13, 10, 10,
11, 12, 13, 13, 12, 15, 16, 17, 16 minutes per foot.

Flame test not made, air coring.

3412 - 3416'

4'

Limestone, brownish grey, very argillaceous, microcrystalline, recrystallized (D9), common organic debris including crinoids (F?), common blobs or zones of very fine dolomite crystals, black granular material along fractures and porosity channels presumed to be a sulfide, logged as pyrite. Fractures transverse to long axis of core and calcite filled. Bedding attitudes not determinable. Strong odour of hydrogen sulfide noted on breaking open the core. Core tight and compact, porosity nil.

*ab. 2 top crin
(9. abundant crinoids?)
recrystallized dolomite
cross-section
near base
argillaceous*

3416 - 3420'

4'

Limestone, brownish grey, very argillaceous, in part dolomitized (D3), microcrystalline compact, tight. Hairline fractures approximately normal to core axis with fine discrete mesh of dolomite crystals on fracture surface, some fracture porosity indicated.

3420 - 3423'

6'

Limestone, brownish grey, as above, selectively colonized and in local zones approaches 50%. Partings with brown microcrystalline mass of calcite crystal aggregates with potroliferous odour, light green fluorocence with Trichloroethane. (Considered to be contamination). Good stylolitic structures in the interval. Porosity nil.

3423 - 3430'

6'

Limestone, brownish grey, as above, strong odour of hydrogen sulfide and black pyritic material is locally 1 - 3mm in thickness, appears to be replacement material. Porosity nil.

3430 - 3435'

6'

Limestone, medium dark grey, argillaceous microcrystalline, recrystallized (R4), abundant organic debris including crinoids (F-6). Fractures more or less normal to core axis are very tight and little or no fracture porosity is indicated.

3435 - 3440'

6'

Limestone, medium dark grey, slightly argillaceous but with local streaks of very argillaceous material, microcrystalline, and in part well calcitized (B5).

Calcite matrix is microcrystalline and recrystallized (Rk). Fractures transverse to core axis filled with crystalline calcite, hairline fractures more or less normal to the core. Interval very tight with little or no porosity from fractures.

3440 - 3444'

4'

Limestone, medium dark grey, very argillaceous, microcrystalline, tight and compact. Framework of coarse organic debris (F/F-8).

3444 - 3448'

4'

Limestone, medium dark grey, similar to above. Very argillaceous, microcrystalline, compact, tight. Framework (F/F-3) of crinoidal debris. Fractures more or less normal to core axis but partially healed; local zones of black pyritic material.

3448 - 3452'

4'

Limestone, greyish black, argillaceous, microcrystalline with crinoidal fragments. Local zones of black pyritic material.

Diamond Core #6

Devonian

3444 - 3450' Recovered 6'

Coring times:

7, 3, 0, 9, 7, 11 minutes per foot.

Flame test not made, air coring.

3044 - 3045°

1°

Limestone, greyish black, mottled brownish grey, argillaceous, microcrystalline, dense compact. (R-5) (F/F-4). Disseminated very fine to microcrystalline dolomite crystals in the limestone and as streaks. Zones of black, pyritic material.

3045 - 3046°

1°

Limestone, greyish black to medium dark grey microcrystalline to very finely crystalline, in part with relict organic texture (R-C) (F-F) some horizontal fractures more or less normal to core axis, porosity nil.

3046 - 3047°

1°

Limestone, greyish black, as above, but with slight fracture porosity as indicated by microcrystalline dolomite mesh along fracture planes. Microcrystalline dolomite disseminated in the limestone.

3047 - 3048°

1°

Limestone, greyish black, as above.

3048 - 3049°

1°

Limestone, greyish black, as above but with some and zones of black pyritic material, bioclastic debris largely recrystallized, crinoids noted but bioclastic framework is not visible (F/F 1-2)

*Common in Devonian
(in Orange)*

3849 - 3850'

Alveolites sp.

1'

Limestone, greyish black, as above, core badly broken.

Diamond Core #7

Devonian

4531 - 4540' Recovered 9'

Coring times:

15, 13, 27, 7, 6, 5, 5, 5, 5 minutes per foot.

Flame test not made, air coring.

4531 - 4532'

1'

Dolomite, brownish grey, with seams and fossil replacement of calcite, some calcite masses which may be altered crinoidal fragments, microcrystalline, appears to be thin bedded, has poorly defined platy fracture with fractures transverse to bedding planes are infilled with clear and white calcite, core badly broken. Porosity nil.

4532 - 4533'

1'

Dolomite, dark grey, interval is largely cryptocrystalline dense limestone which has been dolomitized. Very finely granular dolomite texture, seams of black pyrite?. Limestone contains fine calcite seams and calcite replaced fossils and blebs.

4533 - 4534'

1'

Dolomite, light grey, very finely crystalline to granular associated with limestone, dark grey, cryptocrystalline, hard and dense. Seams transverse to core axis are filled with calcite, irregular patches and seams of black pyritic? material.

4534 - 4535°

1°

Dolomite, medium dark gray, very finely crystalline, compact, tight, dense with calcite seams and erinoid fragments, fractures and seams as above.

4535 - 4536°

1°

Dolomite, similar to above, brachiopods, noted on broken surface.

4536 - 4537°

1°

Dolomite, medium dark gray and dark gray microcrystalline to very finely crystalline Dolomite, calcite in seams transverse to core long axis, some black patches and areas of black pyritic infill. Compact, dense and with fracture lines sub-parallel to bedding planes, possible slight fracture porosity.

4537 - 4538°

1°

Dolomite, dark gray and greyish black, very finely crystalline to granular, argillaceous with calcite in seams and as biogenic debris hard compact, fractures nearly normal to core axis with some (negligible) porosity. In part dark grey cryptocrystalline limestone with some partial dolomitization.

4533 - 4539'

1'

Limestone, dark grey, cryptocrystalline associated with brownish grey microcrystalline to very fine crystalline to granular dolomite, fractures sub-parallel to bedding and possibly slight porosity. Seams and spots (1-2mm) of black earthy pyritic material.

4539 - 4540'

1'

Dolomite, greyish black, very finely crystalline and associated with dark grey cryptocrystalline limestone. Core fractures and drilling behavior suggests fractured formation.

Diamond Core 3

Devonian

5219 - 5228' Recovered 9'

Coring times:

6, 8, 7, 6, 8, 6, 6, 6, 5 minutes per foot.

Flame test not made, air (mist) coring.

5219 - 5228'

9'

Dolomite, dark grey, microcrystalline to very finely crystalline, local irregular masses of algal (?) origin of cream coarsely crystalline dolomite comprise in places 60% of the core. Core is hard, compact, and without intercrystalline porosity.

Fractures more or less parallel to the core axis are infilled with calcite. Stylolitic seams contain black

pyritic (?) material, fractures subnormal to the core axis appear to be open, and on broken surface show a mesh of fine dolomite crystals.

Hydrogen sulfide odor was strong when the core was fractured.

Diamond Core (9)

Devonian

5540 - 5546' Core 6' Recovered 3' (50%) Core barrel

Coring times:

10, 7, 5, 0, 7, 12 minutes per foot.

5540 - 5541'

1'

Dolomite, brownish grey and subordinate greyish black, very finely crystalline to microcrystalline. Very coarse crystals line vugs and fractures. Most vugular openings are small, one however, is approximately one inch wide.

Core blotchy in appearance, owing probably to the argillaceous content of the rocks and the effect of the pyritization(?). Crinoidal and algal debris still retain their identity.

5541 - 5543'

2'

part 6.55'

siltstone, black, hard, compact, pyritic, with abundant fragments of organic (Crinoidal?) debris, sub-conchoidal fracture, very fine dolomite crystals disseminated locally, pyritization has taken place along minute fractures.

Dip in Core 7' (questionable).

Diamond Core #10

Devonian RR

6032 - 6041' Cut 9' Recovered 9' (100%)

Coring times:

3, 9, 7, 7, 7, 5, 5, 6, 6 minutes per foot.

Flame test not made, air (mist) coring.

6032 - 6033'

1'

Limestone, brownish black, massive and without apparent bedding. Framework of poorly sorted organic trash, in part recrystallized (FF? to F/FB) including conical debris. Matrix finely crystalline to micro-crystalline, very argillaceous, and in part dolomitized (D1-D5), and pyritic. Impressions of brachiopod and trilobite (?) fragments.

6033 - 6034'

1'

Limestone, as above, one 5mm band dips approximately 10 degrees with the core axis, streaks of black pyritized siltstone, but without definite bedding planes, local zones of dolomitization with very fine crystals. Fine disseminated crystals of pyrite.

6034 - 6035'

1'

Limestone, as above, containing silty layers with molds and casts of indeterminate fossils. Core dip of 17 degrees, one large *Amphipora* (?) structure. Framework of 3, in part recrystallized. Matrix very argillaceous, in part dolomitized (D5).

6035 - 6036'

1'

Limestone, brownish black and grayish black, finely crystalline to microcrystalline, organic structure, poorly sorted, in part recrystallized, hard, dense, slightly argillaceous, but with streaks of pyritic, earthy material with abundant indeterminate molds of small fossils.

6036 - 6039'

3'

Limestone brownish black, very argillaceous, local zones of dolomitization (D?), some non-dolomitized and are recrystallized limestone. Alveolite zones indicated by colour contrasts on outer surface of core, (Astromatopora(?), chiton fragments, and crinoidal debris.

6039 - 6041'

2'

*monocrystalline
(R.L.)*

Siltstone, black, silty, slightly calcareous, pyritic, well indurated, abundant (crinoidites). At base of interval, approximately 4 inches of very finely crystalline, black pyritic, argillaceous limestone.

Diamond Core #11

Ordovician

6473 - 6482' Out 9' Recovered 2'

Coring times:

10, 12, 23, 15, 22, 29, 24, 27, 13 minutes per foot.

6473.0 - 6473.2'

0.2'

Siltstone, greyish black, very hard, dense, slightly

dolomitic with microcrystalline dolomite crystals,
pyrite as seams and disseminated crystals.

6473.2 - 6475.0'

2.3'

Dolomite, light grey, microcrystalline, dense, hard,
in part with black, very finely crystalline pyritic(?)
and argillaceous infill. Veinlets transverse to core
axis filled with white crystalline dolomite, vein,
partly filled with medium crystals of white dolomite,
range from pin-point to 1/8" size. Larger openings
may have been present as indicated by dark broken
surfaces and crystal growths on core fragments. Drill-
ing operations indicate water entry between 6466 and
6473 feet.

Bright green fluorescence noted on cut surfaces of
the core, considered to be contamination.

Strong hydrogen sulfide odour from fractured core.

Core broken and jammed in barrel.

Diamond Core #12 Ordovician

6791 - 6800' Cut 9' Recovered 5'

Coring times: 9, 7, 7, 9, 14, 10, 20, 9 minutes per foot.

6791 - 6799'

1'

Dolomite, dark grey with patches of light grey, compact,
hard, medium crystalline with seams of black, pyritic(?)
infill. Core broken in barrel. Dolomitization complete.

6792 - 6793°

1°

Dolomite, medium grey, finely crystalline to very finely crystalline, compact, dense, hard. Common seams and vugular openings lined with very coarse crystals of dolomite. Open fractures and vugs.

6793 - 6794°

1°

Dolomite, medium grey and medium dark grey with common fine vugular openings, finely crystalline but with local zones of coarse dolomite crystals, fractures and seams with black pyritic(?) infill.

6794 - 6795°

2°

Dolomite, as above, but with fewer fractures and vugs.

(d) Sample Description

- 0 - 30' Shales, gravels and iron.
- 30 - 50' Shale, dark grey, micromicaceous.
- 50 - 225' Sandstone, light grey, quartz and chert grains, fine to coarse grained, subangular to rounded, poor sorting, kaolin infill, ironstain, and minor siderite nodules, pyritic in lower part, trace intergranular porosity.
- 225 - 420' Shale, dark grey, silty, micromicaceous in part, pyritic, occasional fossil imprints.
- 420 - 440' No sample.
- 440 - 500' Sandstone, grey, quartz and chert grains, very fine to coarse grained, medium to poorly sorted, kaolin infill, slightly calcareous, siderite nodules, trace intergranular porosity, minor siltstone, grey in basal 60'.
- 500 - 600' Shale, dark grey, slightly silty, micromicaceous in part, rare sandstone stringers, pyritic and slickensided.
- 600 - 910' Shale, dark grey, sandstone increasing.
- 910 - 1140' Shale, dark grey with minor sandstone.
- 1140 - 1303' Shales banded; dark grey and grey to brown, slightly siliceous, silty, pyritic, minor fossils.

1303 - 1540'	Shale, grey and shale brown.
1540 - 1800'	Shale, grey to brown, silty.
1800 - 2005'	Silty shale, grey to brown.
2005 - 2046'	Shale, silty, grey to brown.
2046 - 2110'	Sandstone, quartz and chert, silty, dolomitic infill, tight, with shale interbeds.
2110 - 2146'	Shale, dark grey, minor sandstone.
2146 - 2147'	Sandstone, as above.
2147 - 2185'	Sandstone and shale interbedded.
2185 - 2210'	Shale.
2210 - 2332'	Sandstone and shale interbedded.
2332 - 2372'	Shale.
2372 - 2400'	Shale with minor sandstone.
2400 - 2509'	Shale, grey, with minor brown siltstone.
2509 - 2510'	Shale, dark grey, slightly silty, bituminous, minor pyrite and plant fragments.
2510 - 2614'	Shale, dark grey, slightly silty.
2614 - 2646'	Shale, as above.

1
243

2660

Ogden

2548 - 2660'

Limestone, brown, argillaceous, tight, crinoids.
Interbedded grey shale.

2660 - 2669'

Limestone, brown, argillaceous, micro to crypto-
crystalline, crinoids, minor shale.

2669 - 2690'

Limestone, as above.

2690 - 2730'

Limestone, brown, micro to microcrystalline.

2730 - 2820'

Limestone, brown, micro to microcrystalline.

2820 - 2881'

Limestone, brown, micro to medium crystalline.

2881 - 2965'

Limestone, brown, micro to medium crystalline.

2965 - 3077'

Limestone, light to dark brown, micro to medium
crystalline, argillaceous, chalky in part, minor
dolomite streaks with trace bitumen, tight.

3077 - 3220'

Limestone, medium brown, microcrystalline.

3220 - 3370'

Limestone, compact, micro to microcrystalline.

3370 - 3412'

Limestone, as above, with streaks finely crystalline
dolomite.

3412 - 3492'

Limestone, dark grey to black, argillaceous, micro to
microcrystalline, partly recrystallized, in part
bioclastic, in part dolomitic, pyritic, fractures,
some open and some calcite infilled.

347 3450 - 3440'
Cassiope fm.

Limestone, dark grey, micro to cryptocrystalline, argillaceous, in part slightly dolomitic, very fine scattered crystals, trace bioclastic, medium grained bioclasts in argillaceous matrix, compact, tight.

3440 - 3350'

Limestone, black, grey to black, argillaceous, sylvitic, recrystallized, in part bioclastic, fragmental, erinoids, earthy matrix, micro to cryptocrystalline, dolomite infilled fractures 3346 - 3349 feet.

3350 - 4200'

Limestone, grey-black, brown-black, in part mottled, argillaceous, recrystallized, in part dolomitic.

4200 - 4531'

Dolomite, brown - grey, very finely crystalline, tight, interbedded with limestone, brown-grey, micro to cryptocrystalline, secondary calcite, fossiliferous, infilled fractures, sulphurous.

4531 - 4940'

Dolomite, brown-grey, very finely crystalline, very silty, argillaceous, tight.

4940 - 4910'

Dolomite, as above, less argillaceous.

4910 - 5119'

Dolomite, brown-grey, brown-black, light brown-grey, very finely crystalline, tight, sylvitic, with limestone, brown-grey, micro to cryptocrystalline, tight; 10% shale in interval 5020 - 5100'.

- 5219 - 5228' Dolomite, dark grey, microcrystalline to very finely crystalline, tight, pyritic, calcite blebs, infilled fractures.
- 5228 - 5490' Dolomite, brown-grey, dark grey, white, in part silty, in part argillaceous, generally tight, 10 - 20% of dolomite with poor pin point, vuggy porosity, maximum 5%, slightly salty sulphurous water recovery while mist drilling.
- 5490 - 5540' Shale, black, pyritic, with interbedded dolomite.
- 5540 - 5546' Dolomite, brown-grey, very finely crystalline, in part argillaceous, tight, some porous, with siltstone, black, dolomitic, tight, pyritic, crinoids.
- 5546 - 5742' Siltstone, black, tight, with dolomite, light brown-grey, finely crystalline, interbedded intercrystalline and vuggy porosity.
- 5742 - 6032' Siltstone, black, pyritic, in part fissile, in part interbedded with argillaceous limestone, chert.
- 6032 - 6039' Limestone, brown-black, fossiliferous, tight, pyritic, in part dolomitic.
- 6039 - 6220' Shale and limestone, argillaceous, graptolitic. }

Line
of C. h
6188

- 6220 - 6370' Dolomite, very finely crystalline to microcrystalline, argillaceous, tight.
- 6370 - 6430' Dolomite, grey, very fine to finely crystalline, tight.
- 6432 - 6791' Dolomite, medium crystalline, scattered porosity, under 300 lbs. water while drilling with aerated water.
- 6791 - 6792' Dolomite, dark grey, medium crystalline, dense, with small vugs and fractures.
- 6992 - 7016' Dolomite, dark grey, medium crystalline, tight.

SECTION III - Engineering Summary

(a) Report of Drill Stem Tests

None.

(b) Casing Record

Casing Size	Weight	Amount	Lot At	Comment
18"		85'	37'	102 / 3% CaCl ₂
13 5/8"	54.5	807.19'	806.19'	232 / 3% CaCl ₂ 166 sax added from top.
9 5/8"	36	102 gals.	3220	215 sax; Resemented xxx with 300 sax neat

BIT RECORD

Well CATH YTR-62 Date Spudded April 16, 1965
 Area _____ Date Completed _____

DATE	BIT No.	BIT SIZE	TYPE	SERIAL No.	JET SIZE	DEPTH		FOOT AGE	TIME HRS.	ACCUMULATED DRILLING TIME	ACCUMULATED REAMING TIME	CONDITION	REMARKS
						FROM	TO						
APRIL 16	1	8 5/8	WTR	44366	CON	0	70	70	5 3/4	5 3/4		221	
APRIL 17	2	8 5/8	WTR	36490		70	110	40	6 1/2	6 1/2		221	
17	3	8 5/8	WTR	45008		110	190	30	5 1/2	5 1/2		221	
17	4	8 5/8	YEG	RR1341		171	430	259	9 1/2	9 1/2		111	
18	5	12 1/4	REAMER	-		0	295	295	7 1/2	7 1/2	7 1/2		
19	6	17 1/4	REAMER	-		0	160	160	16 1/2	16 1/2	16 1/2		
19	7	24 1/2	REAMER	-		0	85	85	4		4		
21	8	8 5/8	OSC	42066		0	430		6	-	-		CLEAN OUT
22	9	8 5/8	OSC	42066		430	540	110	5 1/4	5 1/4		333	SAME BIT
22	10	8 5/8	YHWG	E74403		540	727	187	9 3/4	9 3/4		321	
22	11	8 5/8	YHWG	E04136		727	813	85	2 1/4	2 1/4			
23	12	12 1/4	REAMER	883R		353	425	72	7		7		
23	13	12 1/4	REAMER	880R		425	525	100	11 1/2	11 1/2	11 1/2		
23	14	12 1/4	REAMER	-		525	810	285	8 3/4		8 3/4		
24	15	17 1/4	REAMER	189		160	378	218	12		12		
24	16	17 1/4	REAMER	19030		378	544	166	7		10 3/4		
25	17	17 1/4	REAMER	-		544	648	104	8		8		
25	18	17 1/4	REAMER	-		648	806	158	14 1/4		14 1/4		
29	19	12 1/4	OWSV	122430		702	808	106	1 1/2				CLEAN OUT SPEC 565 DRILL OUT SPEC
29	20	8 5/8	YHWG	74407		803	911	108	1 1/2	1 1/2	1 1/2		
30	21	8 5/8	YHWG	E74408		911	1072	161	4 1/4	4 1/4	4 1/4	232	
30	22	8 5/8	YHWG	E34542		1072	1173	101	7 1/4	7 1/4		442	
30	23	8 5/8	WTR	70104		1173	1300	127	4 1/2	4 1/2			
MAY 1	1	6 1/2	DIAMOND			1294	1303	9	6	6			
MAY 1	6	8 5/8	WTR	3308		1294	1303	9	2		2		
	1	8 5/8	WTR	2308		1303	1386	83	6	6			

SOCONY MOBIL OIL OF CANADA, LTD.

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BIT RECORD

Well CATHYT B-62Date Spudded APRIL 16, 1965

Area _____

Date Completed _____

DATE	BIT No.	BIT SIZE	TYPE	SERIAL No.	JET SIZE	DEPTH		FOOT AGE	TIME HRS.	ACCUMULATED DRILLING TIME	ACCUMULATED REAMING TIME	CONDITION	REMARKS
						FROM	TO						
1	7	8 5/8	W7R2	57053		1386	1501	121	5 3/4	5 3/4		221	
2	8	8 5/8	YHW6	E84422		1507	1653	176	10	10		221	
2	9	8 5/8	YHW6	E5408		1653	1714	31	2	2		240	
2	10	8 5/8	YHW6	E1112		1714	1722	8	1 1/4	1 1/4			
3	11	8 5/8	R67XS	83456		1722	2050	328	40	40			
5	12	6 1/8	DIAMOND	EC3513		2050	2057	9	3	3			
5	13	8 5/8	R67XS	83456		2050	2057	9	3 3/4		3 3/4		
5	13	8 5/8	"	"		2059	2146	87	34 1/2	34 1/2		111	
7	14	8 5/8	W7	76309		2146	2177	31	9 3/4	9 3/4		221	
7	15	8 5/8	W7	67355		2177	2182	5	3 3/4	3 3/4			
9	16	8 5/8	R67XS	83456RA		2182	2378	196	68 1/2	68 1/2		111	
11	17	8 5/8	R67XS	57087RR		2378	2406	29	18 1/2	18 1/2			
12	18	8 5/8	W7	63920		2406	2509	103	19 1/4	19 1/4		211	
13	19	6 1/8	DIAMOND	EC3513		2509	2518	9	4 1/4	7 1/4			
13	20	8 5/8	W7	63916		2509	2518	9	2 1/2		2 1/2		
14	20	8 5/8	W7	63916		2518	2609	91	20 1/4	20 1/4		221	
15	21	8 5/8	OWL	55222		2609	2660	51	17 1/2	17 1/2			
16	22	6 1/8	DIAMOND	EC3513		2660	2669	9	5 1/4	12 1/2			
16	23	8 5/8	W7	44402		2660	2669	9	3		3		
16	23	8 5/8	W7	4402		2669	2715	46	9 3/4	9 3/4		221	
17	24	8 5/8	W7	63918		2715	2799	84	19	19		221	
18	25	8 5/8	W7	66601		2799	2881	82	24 1/2	24 1/2		211	
19	26	8 5/8	OWL	1109		2881	3008	127	24 3/4	24 3/4		221	
20	27	8 5/8	N4L	742766		3008	3141	133	26 1/4	26 1/4		221	
21	28	8 5/8	S6	79766		3141	3170 3170	79	16 1/2	16 1/2		221	
23	1	12 1/4	REAMER	229		3170	1333	57.7	12		12		
24	2	12 1/4	REAMER	239		1333	1440	107	5 3/4		5 3/4	330	

DISTRIBUTION: WHITE - TO CALGARY OFFICE; YELLOW - TO FIELD OFFICE; BLUE - FOR FILE

SOCONY MOBIL OIL OF CANADA, LTD.

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BIT RECORD

Well CATH PT B-12 Date Spudded APRIL 16, 1965

Area _____ Date Completed JULY 8, 1965

DATE	BIT No.	BIT SIZE	TYPE	SERIAL No.	JET SIZE	DEPTH		FOOT AGE	TIME HRS.	ACCUMLATED DRILLING TIME	ACCUMLATED REAMING TIME	CONDITION	REMARKS
						FROM	TO						
MAY 24	3	12 1/4	REAMER	239		1440	2175	50	2				REAM UNDER GAUGE HOLE
24	4	12 1/4	REAMER	239		1443	1504	94	5 3/4			232	
24	5	12 1/4	REAMER	239		1534	1606	72	4 1/2			232	
25	6	12 1/4	REAMER	-		1608	1731	123	5 1/2				
25	7	12 1/4	REAMER	25636		1731	1857	120	7 1/2			121	
26	8	12 1/4	W7	80688		1851	1910	59	5	5	5	131	
26	9	12 1/4	RR 2	25685		1910	2032	122	9 1/2		9 1/2	121	
27	10	12 1/4	RR 2	14736		2037	2146	109	11 3/4		11 3/4	121	
27	11	12 1/4	REAMER	881R		2146	2201	55	6 1/4		6 1/4	333	
28	12	12 1/4	REAMER	885R		2201	2267	66	6		6		
28	13	12 1/4	RR 2	27647		2267	2408	141	7 1/2		7 1/2		
28	14	12 1/4	RR 2	27351		2408	2495	87	9		9		
29	15	12 1/4	REAMER	384R		2495	2618	123	7 3/4		7 3/4		
30	16	12 1/4	W7	122536		2618	2738	100	7		7	111	
30	17	12 1/4	REAMER	887R		2718	2735	120	9 1/4		9 1/4	230	
31	18	12 1/4	REAMER	-		2735	2734	96	6 1/2		6 1/2	333	
31	19	12 1/4	REAMER	-		2734	3039	105	10		10	330	
31	20	12 1/4	REAMER	884R		3039	3147	108	9 1/4		9 1/4	322	
31	21	12 1/4	REAMER	-		3147	3220	73	6 1/4		6 1/4	330	
6	29	8 5/8	SEC	437575		3220	3235	15	13 1/4	13 1/4			
6	30	6 7/8	RG7X5	57090		3235	3413	178	10 3/4	10 3/4			
7	31	6 7/8	DIAMOND	FC3513		3413	3452	39	7 1/4	19 3/4	19 3/4		
8	32	6 7/8	RG7X5	RR 57090		3452	3844	392	32 1/4	32 1/4			
9	33	6 7/8	DIAMOND	FC3513		3844	3850	6	1 1/2	21 1/4	21 1/4		
9	34	6 7/8	RG7X5	RR 57090		3850	4531	1681	31	63 1/4			
11	35	6 7/8	DIAMOND	FC3513		4531	4540	9	1 1/2	22 1/4			

SOCONY MOBIL OIL OF CANADA, LTD.

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BIT RECORD

WELL: CATHYT 6-62 Date Spudded APRIL 16, 1965
 Area: _____ Date Completed JULY 8, 1965

DATE	BIT No.	BIT SIZE	TYPE	SERIAL No.	JET SIZE	DEPTH		FOOT AGE	TIME HRS.	ACCUMLATED DRILLING TIME	ACCUMLATED REAMING TIME	CONDITION	REMARKS
						FROM	TO						
11	36	8 1/2	R67XJ	83454		4537	4540	9	1/2		1/2		
11	36	9 1/2	R67XJ	83454		4540	5219	579	26	26		321	
12	37	1 1/2	DIAMOND	EC3513		5219	5228	9	1 1/4	24			
13	38	9 1/2	R67XJ	83418		5219	5228	9	3/4		3/4		
13	38	9 1/2	R67XJ	83418		5228	5540	312	14	14			
14	39	6 1/2	DIAMOND	EC3513		5540	5546	6	1	25			
14	40	8 3/4	R67XJ	83418RR		5540	5546	6	1 1/4				
14	40	8 3/4	R67XJ	83418RR		5546	6032	486	3 1/4		45 1/4		
16	41	6 1/2	DIAMOND	EC3513		6032	6041	9	1	26			
16	42	8 3/4	R67XJ	57095		6032	6041	9	1 1/4		1 1/4		
16	42	8 3/4	R67XJ	57095		6041	6473	432	2 3/4	2 3/4			
16	45	8 3/4	R67XJ	57095		6032	6041	9	1 1/4		1 1/4		
18	43	6 1/2	DIAMOND	EC3513		6473	6482	9	3	29			
18	44	8 3/4	R67XJ	57095		6473	6482	9	1 1/2		1 1/2		
18	44	8 3/4	R67XJ	57095		6482	6791	309	20	41 3/4		341	
19	45	6 1/2	DIAMOND	EC3513		6791	6800	9	1 1/4			Good	
19	46	8 3/4	R67XJ	57096		6791	6800	9	1 1/2		1 1/2		
19	46	8 3/4	R67XJ	57096		6800	6992	192	8	8			STUCK IN HOLE
19	47	8 3/4	R67XJ	4298		6992	7016	24	3 1/4	3 1/4			STUCK IN HOLE
						TOTAL DEPTH							

(d) Mid Record

Beatonite	2245 sk.	Boodust	531 sk.
Aquogel	234 sk.	Caltex	337 sk.
Bicare	29 sk.	Tanner	68 sk.
Baritec	1055 sk.	Tuff Plug Walnut (Medium)	27 sk.
Bareid	1977 sk.	Tuff Plug Walnut (Pine)	28 sk.
Caustic	172 sk.	Tuff Plug Walnut (Coarse)	359 sk.
Collophane Flake	520 sk.		
C.M.C.	103 sk.		
Carbonox	214 sk.		
Calcium Chloride	43 sk.		
Cement (Sacks)	1722 sk.		
Celler (Reg.)	66 sk.		
Celler (Hi-Visc.)	107 sk.		
Disacose	31 sk.		
Dextrin	30 sk.		
Fibertex	642 sk.		
Leather Floe	100 sk.		
Microcel "A"	25 sk.		
Poltex	210 sk.		
Plug Crit	153 sk.		
Q-Eroxin	26 sk.		
Salt-Cel	126 sk.		
Sylvasol	114 sk.		

(c) Deviation Record.

DEPTH	DEGREE	DEPTH	DEGREE	DEPTH	DEGREE
60'	1/4°	2145'	6°	2770'	6 1/8°
90'	0°	2170'	5 3/4°	2799'	6 1/4°
473'	1/8°	2180'	6°	2832'	6°
535'	0°	2190'	6°	2863'	5 3/4°
566'	0°	2260'	6 3/4°	2981'	5 3/4°
597'	1/8°	2300'	7°	2915'	5 1/2°
629'	1/8°	2326'	7°	2946'	5 1/4°
659'	1/16°	2350'	NR	2977'	5 1/4°
970'	3/4°	2370'	7 3/4°	3003'	5°
1090'	3/4°	2390'	8°	3059'	5 1/4°
1598'	1 3/4°	2406'	8°	3083'	5°
1374'	1 3/4°	2425'	7 3/4°	3101'	5 1/4°
1500'	2°	2453'	7 5/8°	3132'	5 1/4°
1683'	2 1/4°	2493'	7°	3163'	5 3/4°
1839'	3 3/4°	2509'	7 1/8°	3196'	5 3/4°
1933'	4°	2550'	6 3/4°	3220'	NR
1990'	5°	2581'	6 1/2°	3320'	5 1/4°
2026'	5°	2608'	7°	3474'	5 1/2°
2050'	5 3/4°	2644'	6 3/4°	3813'	6 1/4°
2058'	5 1/8°	2676'	6 3/4°	4030'	6°
2090'	5 3/4°	2706'	6 1/2°	4155'	6°
2109'	5 3/4°	2715'	6 3/4°	4312'	6°
2130'	6°	2735'	6 1/2°	4465'	6 1/4°

DEPTH	DISTANCE
4695°	6°
4843°	6 1/2°
4969°	6 3/4°
5180°	6 3/4°
5403°	7°
5575°	7°
6211°	7 3/4°
6496°	7 1/4°
6735°	7°

(f) Cementing Record

Plug #1 6909 - 6300 with 90 sacks, not felt

Plug #2 3300 - 3150 with 70 sacks, plus 2% CaCl₂ felt after 2 hours @ 3166'

(g) Lost Circulation Zones

Slight loss of circulation while drilling surface hole. Sawdust and fibrous materials were used for control.

(h) Report of Elements

None.

SECTION IV - 1929

Run No.	Type of Log	From	To
1	ISS	805	3220
1	RECOR-C	805	3220
1	ML-C	805	3220
1	GM	805	3219
1	SD	800	2660
1	BIL	3220	6303
2	RECOR-C	50	6309
2	ML-C	3220	6309
2	SD	2660	6300

SECTION V - Analysis

(a) Core Analysis

None.

(b) Water Analysis

None.

(c) Gas Analysis

None.

(d) Oil Analysis

None.

SECTION VI - Completion Summary

None.