

17-34N-5E
Belknap Twp. (Presque Isle Co.)

Exploratory (01)
Oil Well
TD 3387 in Niagaran (46)

Michigan Oil Co. - Northern Mich. Exploration Co.

Permit No. 33255

Tosch-Molson #1-17

Location: NE 1/4 SW 1/4 SW 1/4 Section 17, T. 34N, R. 5E
891 feet from South and 1274 feet from West line of quarter section.

This well record assembly is a compilation of well data filed by or on behalf of the operator, as required by Act 61, P.A. 1939, as amended; formation tops and stratigraphic intervals determined or confirmed where possible by Geological Survey Division personnel from mechanical logs and preliminary information collected while drilling was in progress. Records compiled by R. C. Elowski, Geologist.

Elevations: 867 Kelly Bushing (use for datum), 850.4 Ground

Formation tops and stratigraphic intervals determined or confirmed by Geological Survey Division personnel from Schlumberger Compensated Neutron-Formation Density, Gamma Ray logs and records filed by operator.

PLEISTOCENE-DEVONIAN:		Salina G Unit	1587
Drift -		F Evaporites	1626
Traverse Formation to	300	E Unit	2310
DEVONIAN:		D Evaporites	2441
Bell Shale	300	C Unit	2493
Dundee	361	B Unit	2575
Detroit River	588 ?	B Evaporite	2588
Amherstburg	895	A2 Carbonate	2835
Bois Blanc	1006	A2 Evaporite	2930
SILURIAN:		A1 Carbonate	2964
Bass Islands	1313	Niagaran	3006

Preliminary or pre-reported formation tops and other well information obtained from Geological Survey Division field reports compiled while drilling was in progress.

Traverse Limestone	190 Sa.	D Evaporite	2441 Sj.
Bell	300 Sj.	C Unit	2494 Sj.
Dundee	361 Sj.	B Evaporite	2588 Sj.
Detroit River Anhydrite	673 Sj.	A2 Carbonate	2835 Sj.
Bois Blanc	1062 Sj.	A2 Evaporite	2930 Sj.
Bass Islands	1389 Sj.	A1 Carbonate	2964 Sj.
Salina G Unit	1587 Sj.	Brown Niagaran	2998 Sj.
E Unit	2310 Sj.	Gray Niagaran	3324 Sj.

The following documents are reproductions of official records submitted by: Charles C. Stewart, Geologist, on behalf of Michigan Oil Co.-Northern Mich. Exploration Co.

blf
4-9-81

STATE OF MICHIGAN
DEPARTMENT OF NATURAL RESOURCES

LOG OF OIL, GAS, DISPOSAL OR STORAGE WELL (ACT 61)

Submit in DUPLICATE Within 30 Days after Well Completion

PERMIT NUMBER

21-141-33255

DEEPENING PERMIT NUMBER

Page 2 - 17

NAME(S) & ADDRESS OF OWNER(S) SHOWN ON PERMIT MICHIGAN OIL COMPANY P.O. Box 147, Jackson, MI 49204 NORTHERN MICHIGAN EXPLORATION CO. P.O. Box 1150, Jackson, MI 49204				NAME & ADDRESS OF DRILLING CONTRACTOR(S) CEDCO DRILLING COMPANY P.O. Box 36 Gaylord, MI			
LEASE NAME(S) & WELL NUMBER SHOWN ON PERMIT TOSCH-MOLSON #1-17						DIRECTIONALLY DRILLED YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>	
SURFACE LOCATION NE SW SW		SECTION 17	TOWNSHIP 34N	RANGE 5E	TOWNSHIP NAME Belknap		
FOOTAGES (North/South) 891 Ft. from S		Line and 1274		(East/West) W		COUNTY NAME Presque Isle	
SUBSURFACE LOCATION		SECTION	TOWNSHIP	RANGE	TOWNSHIP NAME		
FOOTAGES (North/South)		Line and		(East/West)		COUNTY NAME	
Ft. from		Ft. from		Line of quarter section			
DATE	DRILLING BEGUN 10-4-79		TOTAL DEPTH OF WELL Driller 3387 Log 3382		TYPE WELL Oil		ELEVATIONS
	DRILLING COMPLETED 10-13-79		FORMATION AT T.D. Grey Niagaran		FT. DRLD. - ROTARY TOOLS From 0 To 3382		
	WELL COMPLETED 2-11-80		PRODUCING FORMATION(S) Brown Niagaran		FT. DRLD. - CABLE TOOLS From To		
				K.B. 867		R.F.	
				R.T.		Grd. 850.4	

CASING, CASING LINERS AND CEMENTING

PERFORATIONS

SIZE	WHERE SET	CEMENT	Ft. Pulled	DATE	NUMBER HOLES	INTERVAL PERFORATED	OPEN	
16"	0-64	75 SXS					YES	NO
11 3/4	0-250	225 SXS		12-26-79	14	3156-3166		X
8 5/8	0-1662	275 SXS		1-8-80	40	3070-3111		X
5 1/2	0-3209	200 SXS		1-23-80	18	3003-3032	X	
				2-6-80	27	3003-3088	X	

GROSS PAY INTERVALS

ALL OTHER OIL AND GAS SHOWS OBSERVED OR LOGGED

FORMATION	OIL OR GAS	FROM	TO	FORMATION	OIL OR GAS	DEPTH	WHERE OBSERVED (X)					
Brown	oil	3003	3063				Sam- ples	Odor	Pres	Mud Line	Gas Log.	Fill Up

STIMULATION BY ACID OR FRACTURING

WATER FILL UP (F.U.) OR LOST CIRCULATION (L.C.) (X)

DATE	Interval Treated	Materials and amount used	FORMATION	F.U.	L.C.	DEPTH	AMOUNT
12-26-79	3156-3166	2000 gals, 28% HCL					
1-8-80	3070-3111	2000 gals, 28% HCL					
2-6-80	3003-3088	7000 gals, 28% HCL					

MECHANICAL LOGS, LIST EACH TYPE RUN

DEPTH CORRECTION DEVIATION SURVEY PLUGGED BACK

Brand	(X)	LOG TYPES	LOGGED INTERVALS	DEPTH	CORRECT'N	RUN AT	DEGREES	YES	NO	DEPTH
Schlumberger	X	CNL-FDC	0- 3381							
Birdwell		DLI-MLL								
		CBL	1662-3382							
		CPR	1662-3382							

PRODUCTION TEST DATA

OIL - Bbls/day	GRAVITY °API	COND. Bbls/day	GAS - MCF/day	WATER - Bbls/day	H ₂ S - Grains/100 cu. ft.	B.H.P. AND DEPTH
500	41.9	-0-	- - -	2.5	0.5	---

I AM RESPONSIBLE FOR THIS REPORT. THE INFORMATION IS COMPLETE AND CORRECT.

DATE	NAME AND TITLE (PRINT)	SIGNATURE
3-13-80	Charles C. Stewart - Geologist	

FORMATION RECORD

(ATTACH ADDITIONAL SHEETS IF NECESSARY)

Permit No. 33255

ELEVATION USED: 867' KB	GEOLOGIST NAME: Charles C. Stewart III	TOPS TAKEN FROM: <input type="checkbox"/> DRILLERS LOG <input type="checkbox"/> SAMPLE LOG <input checked="" type="checkbox"/> ELECTRIC LOG
----------------------------	---	--

FROM	TO	FORMATION (TYPE, COLOR, HARDNESS)	FROM	TO	FORMATION (TYPE, COLOR, HARDNESS)
NOTE: IF WELL DIRECTIONALLY DRILLED, ADD TRUE VERTICAL DEPTH FORMATION TOPS WHERE APPROPRIATE.					
300	-361	BELL SHALE 300 Sch. Shale light grey, soft trace of pyrite.			
361	-420	DUNDEE 361 Sch. Limestone light brown finely crystalline, dense.			
420	-1062	Limestone brown to dark brown finely crystalline, sucrosic, styolitic.			
1062	-1490	BOIS BLANC 1062 Sch. Dolomite, grey brown-grey, very finely crystalline, very dense. Trace of Chert, white to light grey.			
1490	-1587	Dolomite, light brown-brown, very finely crystalline, trace of grey shale.			
1587	-1636	SALINA G 1587 Sch. Shale grey, greyish red. Dolomite grey to dark grey, finely crystalline, dense.			
1636	-1662	F UNIT 1636 Sch. Dolomite light brown to dark brown, very finely crystalline, dense, shale grey.			
1662		F SALT 1662 Sch.			
See Attached Sample log.			IF WELL WAS CORED, ATTACH CORE DESCRIPTION		
FORMATION TOPS			DRILL STEM TEST DATA		
E Zone 2311' (-1444)					
D Salt 2441' (-1574)					
C Shale 2497' (-1630)					
B Salt 2588' (-1721)					
A ₂ Carb 2838' (-1971)					
A ₂ Salt 2930' (-2063)					
A ₂ Anhyd 2945' (-2078)					
A ₁ Carb 2965' (-2098)					
Brown 2986' (-2119)					
Grey 3326' (-2459)					

MICHIGAN OIL COMPANY

PRODUCERS OF OIL AND GAS

SUBSIDIARY OF SPARTON CORPORATION

TELEPHONE 517 788-9770

P. O. BOX 1328

JACKSON, MICHIGAN 49204

PROGRESS REPORT

TOSCH-MOLSON #1-17

February 11, 1980

SITP 1160#.

Flowed a Ttotal of 153 BBLS
in 5½ hrs. (Well

Shut in.

Total fluid back 631 BBLS

FTP 340#, 25/64 choke making
38 BBLS.

February 12, 1980

SITP 1020#.

Hooking paraffin first two hours,
made 45 BBLS, Flowed 64 BBLS

in two hours. FIP 660#,

25.64 choke, 32 BBLS per hr.

Flow line partley plugged off,
holding 170# back PSI.

Shut down and turn rig loose.

Total fluid flowed back 740 BBLS.

MICHIGAN OIL COMPANY

PRODUCERS OF OIL AND GAS

SUBSIDIARY OF SPARTON CORPORATION

TELEPHONE 517 788-9770

P. O. BOX 1328

JACKSON, MICHIGAN 49204

PROGRESS REPORT

TOSCH-MOLSON #1-17

February 7, 1980

Squeezed 5 BBL of perforating acid. Max. pressure was 1550#. 1 hour and 35 mins. to bleed away, 15 mins. after the job pressure it was 900#. Total fluid of acid water and fluid water equaled 26 BBLS of Total Fluid. The first two hours they got 25 BBLS back, the 3rd hour they got 6 BBLS back, A total of 31 BBLS and 40% oil.

SITP 100#.

Swabbed 2 hrs., made 11 BBLS of fluid, 7 BBLS of it was oil.

Haliburton pulled on location, acidized-7,000 gals, 28% acid.

Max. Pressure 1400#

Avg. Pressure 1300#

Max. Injection pressure

1.25 BBLS, Averaging 1 BB/min.

SI Pressure @ 1400# in 45 mins.

it was 660#. 1st hour 26/64"

choke, flowed 72 BBLS of fluid, running 50% oil, flowing tubing pressure was 720#.

5:00 p.m.

26/64" choke, made 59½ BBLS, 80% oil, flowing tubing pressure was 680.

6:00 p.m.

26/64" choke, made 64 BBLS, 90% oil, flowing tubing pressure was 630.

SI for night.

February 8, 1980

SITP was 820#.

1st hour 26/64" choke, made 47 BBLS, 90% oil, flowing tubing pressure was 602. Total 242 BBLS. Had 188 BBLS of Acid water and load water to get back.

MICHIGAN OIL COMPANY

PRODUCERS OF OIL AND GAS

SUBSIDIARY OF SPARTON CORPORATION

TELEPHONE 517 788-9770

P. O. BOX 1328

JACKSON, MICHIGAN 49204

PROGRESS REPORT

TOSCH-MOLSON #1-17

February 4, 1980

Running tubing back in
with packer.
WO orders
Running 2 7/8" tubing
back in the hole with
the Baker Packer @ 3088'.
Buttoned up well head.

February 5, 1980

Dowell hooking up with
clean salt water, spotted
250 gals of perforated acid
and well button up well head
and perforate.
SJ on location; truck broke
down; called for another truck;
truck arrived at 4:00 p.m.
rigged up; perforated with first
gun at 3088', 3085', and 3082';
3065', 3067' and 3069'; 3047',
50', 53', 56', 59'; 3003' and .04'.
Came out of hole and rigged
up with second gun; perforated
3073', 76' 79' switch broke, came
back out of hole; tried to
repair gun. (this happened
3 different times)
S.D. 10:30 p.m. SJ retruned
to Mt. Pleasant and picked up
more guns and returned to location.

February 6, 1980

Rigged up; perforated 3026', 29'
32', 34', 38', and 40'. Came out
of the hole and rigged up
another gun; perforated 3017'
19', and 21'; perforated 3009'.
Total of 27 holes. This
morning SITP was 0, after perfrating,
little vaccum. Squeezed away
perforating acid; pressured up to
1200# and shut down. Pressure
dropped back to 600# in 2 or 3 mins.
Pumping back up-3/4 BBL. to be
pumped back in and have 3 to 4 BBLs
to go. Will flow or swab back.
Acidize tommorrow morning with
7000 gals.

MICHIGAN OIL COMPANY

PRODUCERS OF OIL AND GAS

SUBSIDIARY OF SPARTON CORPORATION

TELEPHONE 517 788-9770

P. O. BOX 1328

JACKSON, MICHIGAN 49204

PROGRESS REPORT.

TOSCH-MOLSON #1-17

January 28, 1980

SITP 570#, flowed and swabbed 100 BBLS of oil, 8% water. Last 4 hrs. swabbed 7 BBLS per hour.

January 29, 1980

SITP 300#. open well and flowing. Killing well, put on BOPS and coming out of hole with tubing. Put EZSV Squeeze tool on and run back in hole.

January 30, 1980

Round trip tubing. Ran ESEZ squeeze tool back in the hole and set @ 2917½'. Shut down Squeeze w/200 sxs w/common cement by Haliburton.

January 31, 1980

Squeeze with 200 sxs, 3% calcium chloride. Injection rate before the squeeze was 600 BBLS/min. @ 600#. Squeezed away 185 sxs in the formation. Squeezed 2500#. Reversed out, came out of the hole w/tubing & ran it back in. Shut down for night.

THIS MORNING

Rigged up Power Swivel to drill out cement.

February 1, 1980

Drilled out Squeeze tool @ 3951'. Drilled to 3059', had good cement all the way.

THIS MORNING

Drilled @ 3065', on top of the Bridge plug.

Took bridge plug out @ 3112' good cement all the way.

Pulling tubing bit. SI.

Shut down for the weekend.

MICHIGAN OIL COMPANY

PRODUCERS OF OIL AND GAS

SUBSIDIARY OF SPARTON CORPORATION

TELEPHONE 517 788-9770

P. O. BOX 1328

JACKSON, MICHIGAN 49204

PROGRESS REPORT

TOSCH-MOLSON #1-17

January 21, 1980

SITP was 380#. (SI for 6 days)
Opened well on 40/64" choke.
1st. Hr. flowed 34 BBL,
with 30% water.
2nd Hr. flowed 44 BBL,
with 30% water.
3rd Hr. flowed 28 BBL,
with 30% water.
Preparing to set bridge
plug and perforate upper
section.

January 22, 1980

Bridge plug set @ 3065'.
Spotted 250 gals of 28% perf.
acid. Started in tubing
with perf. gun could not
get below 1700' due to
parafin in tubing. Prep.
to come out of hole & steam
tubing.

January 24, 1980

SITP 100#. Blew down
immediately. Started
swabbing. 1st hr. swabbed
27 BBL, 75% muddy salt water.
2nd hr. swabbed 23 BBL, 50%
water. Well kicked off.
Flowing in open choke. 3rd hr.
flowed 30 BBL, 50% water, FTP
was 50# to 120#. 5th hr. flowed
22 BBL, 40% water, FTP was 50#
120#. 6th hr. flowed 21 BBL,
was 25% less muddy salty water.
Originally had 22 3/4 BBL of
perf. and & load water to recover
after 6th hr. had recovered 75
BBL water. Wt. was 10.7#.

MICHIGAN OIL COMPANY

PRODUCERS OF OIL AND GAS

SUBSIDIARY OF SPARTON CORPORATION

TELEPHONE 517 788-9770

P. O. BOX 1328

JACKSON, MICHIGAN 49204

PROGRESS REPORT

TOSCH-MOLSON #1-17

January 11, 1980

Total fluid back 116 BBLs.,
to recover 188 BBLs original.

January 12, 1980

SITP 660#

1st Hour

320# FTP, 80% oil, 20% water,
42 BBLs, 30/64" choke.

2nd Hour

380# FTP, 20% water, 35 BBLs,
30/64" choke.

3rd Hour

320# FTP, 28 BBLs.

4th Hour

300# FTP, 20% water, 21 BBLs,
30/64" choke

5th Hour

220# FTP, 80% oil, 17 BBLs,
30/64" choke,

6th Hour

200# FTP, 13 BBLs.

7th Hour

160# FTP, 8 BBLs.

8th Hour

120# FTP, 7 BBLs.

9th Hour

100# FTP, 6 BBLs.

January 15, 1980

SITP 290#

Swabbed and flowed 112 BBL

Oil, 1-2% water. Have recovered
total of 103 BBL acid & load
water; 85 BBL to recover. Ran
Schlumberger radioactive Tracer
Survey. Determined that all
treatment acid went into
formation between 3070 and 3080.
Prep. to set BP and perforate upper
section. Well will be shut in until
Monday, January 21.

MICHIGAN OIL COMPANY

PRODUCERS OF OIL AND GAS

SUBSIDIARY OF SPARTON CORPORATION

TELEPHONE 517 788-9770

P. O. BOX 1328

JACKSON, MICHIGAN 49204

PROGRESS REPORT

Tosch-Molson #1-17

January 9, 1980

SITP 900

1st. Hr.

Flowed 30-1/3 BBLS. and died.

2nd Hr.

Pulled swab 3 times and rec.

1-1/2 BBLS. Hole dry. Acidized by
Dowell with 2,000 gals.
28%.

Max. Press. 2000

Max. Inj. Rate 1 BPM

Avg. Inj. Rate 1/8th BPM

Avg. Press. 1800

ISIP 1500, 30 mins. later

1400, Total flush and
acid to get back 67 BBLS.1st Hr.

Rec. 45-1/2 BBLS. fluid

FTP 600; 24/64ths choke

2nd Hr.

Rec. 44-1/2 BBLS. fluid

FTP 510' 24/64ths choke

will flow 1 more hour today
and shut in overnight;
flow test tomorrow.

January 11, 1980

SITP 310# this a.m.

9:00 - 10:00 1st. Hour

Open choke, 28 B.O., FTP 120#

10:00 - 11:00 2nd Hour

16 B.O., FTP 60#,

Well almost went dead. Dowell
arrived at 11:30 a.m.

SI, Acid w/7500 gals. @ 28%.

Max. Pressure 400

Max. Inj. Rate 3 BPM

Avg. Inj. Rate 3 BPM

50 perf. balls (17 hit)

Getting ready to swab back

Pulled swab 5 times, swabbed

16 BBLS & kicked off. Flowed

& made 56 BBLS, 350# FTP 1st Hr..

2nd HourFlowed 44 BBLS @ 350# TP, 60% oil,
36/64" Choke

MICHIGAN OIL COMPANY

PRODUCERS OF OIL AND GAS

SUBSIDIARY OF SPARTON CORPORATION

TELEPHONE 517 788-9770

P. O. BOX 1328

JACKSON, MICHIGAN 49204

PROGRESS REPORT.

Tosch-Molson #1-17

December 29, 1980

1000# on tubing. Flowed BBL water and died, no shows. Swabbed 71 BBL total by 10:00 a.m. and started to show oil & blow of gas & dirty water on swab. Swabbed 5 more, has average 1 BBL/hr. & little blow of gas. 25% dirty acid water. 75% oil.

January 4, 1980

Ran 8 5/8" casing to 1424' to 1498'. Cemented 200 sxs of Common 3% Chloride, 250 sxs of Hyco, 3% Chloride, circulated 13 sxs. Plug down 7:35. F-Salt 1472'.

January 7, 1980

Ran tubing to 3122'; filled hole with carban water; spotted 250 gals. 28% perf. acid; pulled tubing back up to 2970; packer set at 2790'; set packer put on wellhead and S.D.

January 8, 1980

Tubing set @ 2958. Packer set @ 2780'. Pressured up 500# on packer. Perforated 3070-3111' w/ISPF. Squeezed away 3 BBLs of 28% HCL perf. acid. Max squeeze pressure 1900#. Pump up to 1900# pressure would bleed off to 1500# in 3 to 4 mins. to squeeze away 3 BBL acid. Opened up well and well flowed small volume of fluid for 1 hour. Went in 300' and pulled swab one time and well began flowing. Total fluid recovered during first 1 hr. 30 mins. was 28 BBL. At 4 p.m. well was flowing oil on 20/64# ck. tubing pressure 220#.

MICHIGAN OIL COMPANY

PRODUCERS OF OIL AND GAS

SUBSIDIARY OF SPARTON CORPORATION

TELEPHONE 517 788-9770

P. O. BOX 1328

JACKSON, MICHIGAN 49204

PROGRESS REPORT

TOSCH-MOLSON #1-17

December 26, 1979

Ran Baker Packer on tubing w/200' tailpipe below packer. Tubing @ 3163'. Circulated holw w/Corban water. Spotted 250 gals 28% HCL. Pulled 7 jts. of tubing puttting bottom of tubing @ 3958'. Set packer & buttoned up well head. Went in w/Schlumberger & perforated from 3156' to 3163' w/2 SPF. Rigged down Schlumberger & hooked up Dowell to squeeze acid away. Pressured up gradually to 2100# over 3 hrs. Pressure would drop appoz. 200# over 20 mins., increase pressure to 2300#. Pressure broke back to 2000# and formation took acid. Pressure down to 1500# & remained. SI over night.

December 27, 1979

SI Pressure 1300#. Opened well & pressure, blew down to zero. Recovered 4 BBL load & acid water. Swabed 17 BBL of load & acid water with small amount of gas, no oil. 3 BBL to recover, Swabed dry.

December 28, 1979

SI tubing pressure @ 150#, opened well pressure, blew down immediately. Pulled swab, recovered 4 BBL of oil. Prepared to acidize w/2000 gals., 28% HCL.

MICHIGAN OIL COMPANY

PRODUCERS OF OIL AND GAS

TELEPHONE 517 463-1144

BOX 147

1080 BRIDGE STREET

ALMA, MICHIGAN 48801

PROGRESS REPORT

TOSCH-MOLSON # 1-17

October 12, 1979

Present Depth: 3387'
 Circ. & conditioning mud
 & prep. to run logs
 mud: wt. 17.1
 VISC 74
 W.L. 10

October 15, 1979

10-13-79 Logging
~~10-14-79~~ Ran 102 jts.
 (3213') 5½" at 3209' w/
 200 sxs. 18% slt. & 1%
 CFR-2. P.D. at 1:15 p.m.
 10-14-79, total depth 3387'

October 16, 1979

Total Depth 3387',
 waiting on cement to run
 bond log

October 23, 1979

LOG TOPS

Bell Shale	300
Dundee	361
DRA	673
1st Salt	
Bois Blanc	1062
Bass Is	
Salina G	1587
F. Unit	1626
F. Salt	1662
E. Unit	2310
D. Unit	2441
C Shale	2494
B. Unit	2538
B. Salt	2587
A-2 Carb	2835
A-2 Salt	2930
A-1 C	2964
A-1 E	
Niagara	2998
Grey	3324
TD	3382

WOCU

December 26, 1979

WICR

PRODUCERS OF OIL AND GAS

ALMA, MICHIGAN 48801

TOSCH-MOLSON #1-17, Michigan Oil
Co. & Northern Michigan Exploration
Company
NE SW SW, Section 17, T34N, R5E
Belknap Township, Presque Isle County
Michigan

October 3, 1979	Rigging up, should spud tomorrow
October 4, 1979	Spud at 2:30 p.m., set 16" at 64' cemented with 75 sxs. Class + 3% CaCl., circ. 10 bbls., P.D. at 7:00 a.m.
October 5, 1979	Set 11-3/4" at 250' w/225 sxs. + 3% CaCl., circ. to surface, P.D. at 7:00 p.m., dev. 1/2 deg. at 100' & 3/4 deg. at 250', nipping up & drlg. plug
October 8, 1979	Drilling at 1669', dev. at 1669' 3/4 deg., set 53 jts. 8-5/8" (32# K-55) at 1669' cemented w/275 sxs. Halco Lite + 3% CaCl. & 200 sxs. Class A., circ. 30 bbls., P.D. at 5:30 p.m. 10-7-79, Bass Islands 1385' Salina 1569' F Unit 1635' F Salt 1665'
October 9, 1979	Tripping for double check at 2707', B Salt 2590' (-1723), dev. at 2200' 1/2 deg.
October 10, 1979	Drilling at 3050', B Salt 2594' (-1727) A-2 Carb. 2841' (-1974), A-2 Salt 2935' (-2068), Anhy. 2946' (-2079), A-1 Carb. 2971' (-2104), 360 units gas at 2926' (70% methane, 25% ethane, trace propane), dolomitic limestone, sucrosic, partly salt plugged
October 11, 1979	Present depth: 3310' Mud: weight 13.3 VISC 44 W.L. 10 Limestone dolomitic, 200 units on mud logs

MAR 20 1980

Permit No. 33255





