


WELL HISTORY REPORT

CHEVRON SOBC WM N. PARKIN YT D-61

JUNE 1, 1972

  
R. C. RICHARDSON, P. ENG.  
PROJECT MANAGER

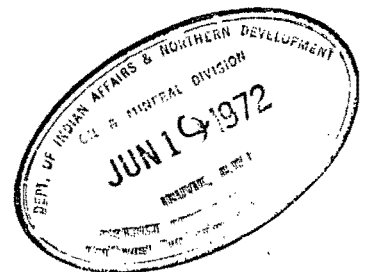


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SECTION I - SUMMARY OF WELL DATA

a) Well Name and Number

Chevron SOBC WM N. Parkin YT D-61.

b) Permittee, Licencee or Lessee

Western Minerals Limited

c) Name of Operator

Chevron Standard Limited  
400 Fifth Avenue S.W.  
Calgary, Alberta  
T2P 0L7

d) Location

Unit D, Section 61, Grid 66-30-137-00.

e) Coordinates

Latitude: 66°20'12" N; Longitude: 137°13'01" W

f) Permit or Lease Number

Permit No. 3345.

g) Drilling Contractor

Nabors Drilling Ltd., Rotary Rig #1.

h) Drilling Authority

No. 565 issued December 9, 1971.

i) Classification

Wildcat.

j) Elevations

Ground elevation - 1,585'; K.B. elevation - 1,605'.

k) Spudded

22:15 hours, January 4, 1972.

l) Completed Drilling

06:30 hours, April 17, 1972.

m) T.D. and P.B.T.D.

T.D. - 11,000'; P.B.T.D. - Surface

n) Well Status

Dry and permanently abandoned.

o) Rig Release Date

12:00 hours, May 6, 1972.

p) Hole Sizes to Total Depth

30" Hole from surface to 87' K.B.

17-1/2" Hole from 92' to 1,208' K.B.

8-3/4" Hole from 1,208' to 11,000' K.B.

q) Casing

19" O.D. conductor pipe set at 87' K.B.

13-3/8" K-55, 54.5# casing set at 1,204' K.B.

r) Engineers

H. J. Bakker

L. F. Grumbly

R. K. Cannon

N. W. Bentsen

M. Rajicic

Geologist

D. Clark

SECTION II - GEOLOGICAL SUMMARY

a) Formation Tops

<u>Formation</u>	<u>Depth</u> <u>Samples</u>	<u>Logs</u>	<u>Elevation</u> <u>K.B. 1605'</u>
Blackie	-	440'	1165'
L. Cretaceous Shale	-	732'	873'
Orange Marker	-	1066'	539'
U. Mississippian	-	1225'	380'
Tuttle	4220'	4254'	-2649'
Imperial	5070'	5264'	-3659'
Mid. Devonian Reef	7563'	7476'	-5871'
Crinoidal Platform	-	9808'	-8203'

*Paul Collins*

Total Depth 11,000'

b) Cored Intervals

<u>Core No.</u>	<u>Interval</u>	<u>Formation</u>	<u>Recovery</u>
1	995-1023'	L. Cretaceous	28'
2	1024'-1075'	L. Cretaceous	51'
3	1076'-1101'	L. Cretaceous	25'
4	7560'-7620'	Devonian	60'
5	7620'-7680'	Devonian	60'
6	7681'-7721'	Devonian	40'
7	7870'-7930'	Devonian	60'
8	8002'-8062'	Devonian	60'

c) Core Description

Core #1 995'-1023' Cut 28' Recovered 28'

Coring Times

995'	15	16	16	13	14	22	15	20	35	30
	30	40	32	50	73	14	16	17	13	19
	24	28	22	19	27	11	22	13	-	1023'

Core Description

995 -1023' Shale, dark grey, micromicaceous, with a trace of plant  
28' fragments. Bedding is flat.

Core #2 1024'-1075' Cut 51' Recovered 51'

Coring Times

1024'	42	15	11	14	10	14	18	14	11	11
	15	12	11	14	11	11	11	9	9	9
	11	8	10	9	9	9	9	9	9	32
	20	37	37	23	25	10	9	10	8	14
	15	28	13	22	17	15	19	12	30	17
	30	-								1075'

Core Description

- 1024.0-1065.5 Shale, dark grey, mic-mica, fissile  
41.5'
- 1065.5-1065.7 Conglomerate, one-inch chert pebbles in sandy dark-grey  
0.2' shale matrix. Tight.
- 1065.7-1075.0 Sandstone, quartzose, mottled grey-brown yellow, fine  
9.3' grained patchy good porosity and permeability. No hydro-  
carbon show. Layers and lenses (1") of pyrite. Glauconite  
common.

Core #3 1076'-1101' Cut 25' Recovered 25'

Coring Times

1076'	7	7	10	10	11	9	8	10	11	9
	9	15	8	11	13	13	14	17	10	15
	19	25	16	37	-					1101'

Core Description

- 1076.0-1101.0 Sandstone, fine grained quartzose, mottled grey-brown-  
25' yellow, silty argillaceous. In part fair porosity and  
permeability. Glauconite common.

Core #4 7560'-7620' Cut 60' Recovered 60'

Coring Times

7560'	9	15	14	14	10	8	11	9	12	9
	12	6	8	8	9	12	11	8	10	11
	8	9	10	9	8	10	9	11	9	8
	8	10	8	10	8	8	9	10	8	11
	10	8	11	10	10	8	12	11	11	11
	9	9	11	8	8	8	8	8	8	8 - 7620'

Core Description

- 7560.0-7560.1 Limestone, dark brown, micro-crystalline, argillaceous  
0.1'
- 7560.1-7561.0 Limestone, light colored amphipora in dark brown micro-  
0.9' crystalline matrix. Amphipora are white crystalline  
calcite. Tight.
- 7561.0-7563.4 Limestone, dark brown micro-crystalline. Algal?  
2.4'
- 7563.4-7572.5 Limestone, medium and dark brown, fine crystalline.  
9.1' Fossiliferous. Thick and thin-walled brachiopod common.
- 7572.5-7574.3 Limestone, dark-brown. Amphipora limestone as above.  
1.8'
- 7574.3-7576.9 Limestone, dark-brown, micro-crystalline.  
2.6'
- 7576.9-7578.8 Limestone, light-brown. Amphipora limestone as above.  
1.9'
- 7578.8-7580.6 Limestone, dark-brown micro-crystalline. Black shale  
1.8' partings.
- 7580.6-7596.0 Limestone, dark-brown, micro-crystalline matrix with  
15.4' light colored amphipora of crystalline calcite, with  
occasional interbeds lacking amphipora. Occasional  
stylolite partings.
- 7596.0-7601.2 Limestone, soft-rock breccia with penecontemporaneous  
5.2' fracturing. Brachiopod, thick-wall.
- 7601.2-7602.2 Limestone, dark-brown amphipora limestone as above.  
1.0'
- 7602.2-7607.8 Limestone, dark-brown micro-crystalline, with a 0.5'  
5.6' zone of thick-wall brachiopod.
- 7607.8-7620.0 Limestone, light-brown, micro-crystalline, with scattered  
12.2' thick-wall brachiopod and occasional amphipora and  
solitary coral, and unidentified fragments.

Note: No porosity, oil stain, nor fluorescence in entire core.

Core #5 7620'-7680' Cut 60' Recovered 60'

Coring Times

7620'	15	16	16	14	12	13	12	11	12	12		
	12	12	13	9	12	12	12	14	11	11		
	11	12	13	16	8	9	10	9	10	10		
	8	9	7	9	8	8	10	9	8	8		
	8	8	8	8	9	10	8	10	8	8		
	9	8	7	9	9	8	10	11	10	12	-	7680'

Core Description

- 7620.0-7632.7 Limestone, light brown, micro-crystalline, with beds  
12.7' variously containing scattered brachiopod and coral,  
abundant amphipora, and possible algal mats.
- 7632.7-7634.1 Shale, black, sandy.  
1.4'
- 7634.1-7643.7 Limestone, light brown and dark brown micro-crystalline,  
9.6' with beds variously containing abundant amphipora, or  
scattered coral and brachiopod.
- 7643.7-7662.7 Limestone, light brown, micro-crystalline, with amphipora  
19.0' beds and brachiopod, coral, and stromatopora bearing beds.
- 7662.7-7670.4 Limestone, very light brown, micro-crystalline, with  
7.7' abundant large (up to 1 foot) stromatopora.
- 7670.4-7680.0 Limestone, light brown, micro-crystalline, with amphipora,  
9.6' corals, and thick-wall brachiopod.

Entire core tight; no oil stain; no fluorescence.

Core #6 7681'-7721' Cut 40' Recovered 40'

Coring Times

7681'	15	15	15	11	18	11	14	14	13	12		
	11	12	11	10	10	9	8	7	7	10		
	9	9	8	7	6	7	9	9	7	8		
	8	8	7	7	10	8	8	10	9	40	-	7721'

Core Description

- 7681.0-7690.6 Limestone, dark brown, micro-crystalline. Algal? and  
9.6' amphipora.
- 7690.6-7696.9 Limestone, dark brown micro-crystalline. Large thick-  
6.3' wall brachiopod, small stromatopora; gastropod.
- 7696.9-7698.2 Limestone, light brown, micro-crystalline. Amphipora 80%.  
1.3'
- 7698.2-7704.0 Limestone, dark brown, micro-crystalline. Brachiopod.  
5.8'
- 7704.0-7706.6 Limestone, light brown, micro-crystalline. Amphipora.  
2.6'

- 7706.6-7709.8 Limestone, dark brown micro-crystalline. Brachiopod.  
2.2'
- 7709.8-7712.0 Limestone, light brown micro-crystalline. Amphipora and  
2.2' brachiopod.
- 7712.0-7718.0 Limestone, light brown, micro-crystalline. Very heavy  
6.0' brachiopod and amphipora.
- 7718.0-7720.2 Limestone, light brown micro-crystalline. Amphipora  
2.2' and stromatopora and brachiopoda.

Entire core tight; no oil stain; no fluorescence.

Core #7 7870'-7930' Cut 60' Recovered 60'

Coring Times

7870'	12	13	12	12	13	12	13	12	12	10		
	12	11	12	11	11	12	11	12	11	11		
	11	14	12	11	11	11	11	11	11	12		
	11	11	10	12	12	10	10	12	11	11		
	11	11	11	10	12	10	12	11	11	10		
	12	11	9	10	9	8	9	9	8	13	-	7930'

Core Description

7870-7930 Limestone, light brown-grey and dark brown-grey,  
60' micro-crystalline. Abundant stromatopora and numerous solitary corals.

Entire core dense and tight. No oil stain, no porosity, no fluorescence.

Core #8 8002'-8062' Cut 60' Recovered 60'

Coring Times

8002'	21	16	19	18	15	14	16	15	14	14		
	12	13	13	14	12	16	15	16	14	12		
	13	11	15	15	11	14	15	13	15	17		
	17	18	16	17	16	15	18	16	18	15		
	15	16	14	15	13	12	13	15	16	21		
	19	17	16	13	14	12	13	13	14	13	-	8062'

Core Description

Entire core is dark grey micro-crystalline limestone, dense and tight with abundant white fossils. Reef. No shows. Fossil zonation is shown below.

8002.0-8005.0 barren  
3.0'

8005.0-8008.0 Stromatopora, corals and brachiopod  
3.0'

- 8008.0-8008.5 Colonial coral  
0.5'
- 8008.5-8013.2 Amphipora  
4.7'
- 8013.2-8014.5 Brachiopod  
1.3'
- 8014.5-8019.1 Brachiopod, thick-wall  
4.6'
- 8019.1-8019.5 Amphipora  
0.4'
- 8019.5-8023.5 Brachiopod  
4.0'
- 8023.5-8028.2 Amphipora  
4.7'
- 8028.2-8048.1 Corals  
19.9'
- 8048.1-8051.8 Amphipora, possible tabular stromatopora  
3.7'
- 8051.8-8053.8 Amphipora  
2.0'
- 8053.8-8055.0 Stromatopora and corals  
1.2'
- 8055.0-8057.4 Amphipora  
2.4'
- 8057.4-8062.0 Stromatopora and corals with overgrowing stromatopora  
4.6'
- 8048.1-8051.8 Limestone, as above, with amphipora and possible  
3.7' tabular stromatopora.
- 8051.8-8053.8 Limestone, dark grey micro-crystalline with abundant  
2.0' light grey amphipora.
- 8053.8-8055.0 Limestone as above with stromatopora and corals.  
1.2'
- 8055.0-8057.4 Limestone as above with amphipora  
2.4'
- 8057.4-8062.0 Limestone, as above with stromatopora, and corals with  
4.6' overgrowing stromatopora.

Entire core is dense, tight. No shows.

d) Sample Description

0-100	No sample. This part of hole dug by rathole rig previously.
100-120	Shale, medium grey, micromicaceous, with trace of carbonaceous partings.
120-140	No sample.
140-170	Shale, as above. In part firm; in part weathered and soft.
170-190	Sandstone, very fine grained, poorly sorted, silty, brown tight. Slightly glauconitic.
190-200	Sandstone, as above, with clay balls.
200-210	Siltstone, argillaceous, brown. Trace of ironstone.
210-250	Siltstone and shale, as above, interbedded. Trace of sandstone, fine grained, 50% dark minerals.
250-330	Shale, dark grey, micromicaceous, with minor siltstone and very fine grained sandstone stringers.
330-370	Siltstone, salt-and-pepper, argillaceous, with dark grey shale interbeds.
370-430	Shale, dark grey, micromicaceous, with coal partings and trace of ironstone.
430-440	Sandstone, medium grained, salt-and-pepper, good porosity and permeability. Quartz grains show considerable recrystallization. No oil stain.
440-470	Sandstone, as above, fine grained, silty, fair porosity, fair permeability.
470-480	Sandstone, as above, tight.
480-490	Siltstone, clean, grey-brown, in part sandstone, salt-and-pepper.
490-520	Siltstone, grey-brown, argillaceous.
520-530	Shale, dark grey, micromicaceous.
530-540	No sample.
540-550	Shale, as above.

550-560	No sample.
560-570	Siltstone, clean quartz with tripolitic chert and trace of glauconite. Fair porosity, trace of permeability.
570-590	Shale, dark grey, micromicaceous.
590-650	Shale, as above, with siltstone interbeds.
650-690	Shale, as above.
690-720	Siltstone, brown, argillaceous, tight, micromicaceous. Visible laminar bedding.
720-800	Shale, dark grey, micromicaceous, with siltstone interbeds.
800-940	Shale, dark grey, micromicaceous, very uniform.
940-995	Shale, as above, but silty.
995-1023	Core #1 - shale, dark grey, micromicaceous.
1023-1075	Core #2 - shale, sandstone.
1076-1101	Core #3 - sandstone.
1101-1140	Sandstone, fine grained, poorly sorted, argillaceous, glauconitic. Scattered fair porosity. Some quartz recrystallization.
1140-1200	Conglomerate, chert pebbles, clear to black, in matrix of poorly sorted glauconitic sandstone. Scattered fair porosity. Trace pyrobitumen.
1200-1210	Sandstone, fine grained, well sorted, with scattered floating chert pebbles.  End of surface hole.
1210-1230	Sandstone as above.
1230-1240	No sample.
1240-1250	Indeterminate.
1250-1260	Shale, grey, poor sample.
1260-1300	No sample.
1310-1440	Shale, in part medium grey, in part dark grey, faintly micromicaceous.

- 1440-1450 Sandstone, fine grained, subangular, moderately sorted in part conglomeratic, slightly calcareous. Dry bituminous material. Trace of porosity.
- 1450-1460 Shale, medium grey.
- 1460-1470 Sandstone, as above. Trace of light colored chert conglomerate.
- 1470-1480 No sample.
- 1480-1530 Sandstone, as above. Spots of viscous tar.
- 1530-1600 Shale, medium grey.
- 1600-1650 Shale, dark grey. Ironstone common.
- 1650-1730 Shale, as above, pyritic, with floating chert pebbles. Trace coal at 1700-1730.
- 1730-4220 Shale, dark grey, pyritic, in part slickensided. Ironstone common. 3100-3160 - thin interbeds of fine sandstone. 3550-3620 - thin interbeds of fine sandstone. 4050-4100 - trace of chert conglomerate, siliceous, tight very thin bedded.
- 4220-4270 Conglomerate, chert pebbles 60%, angular. Siliceous cement. Trace of porosity; no oil stain.
- 4270-4300 Sandstone, fine grained, poorly sorted, tight.
- 4300-4730 Conglomerate, chert pebble, with varying amount of chert in range 20% to 80%. Large pieces are rounded, but general impression is angular. Scattered traces of porosity. No show of hydrocarbon.
- 4730-4770 Missed samples and 30' depth correction.
- 4770-5070 Conglomerate, as above.
- 5070-5090 Shale, dark grey.
- 5090-5120 Sandstone, fine grained, siliceous, tight, with floating chert grains.
- 5120-5140 Sandstone, as above, medium grained.
- 5140-5270 Siltstone, brown-grey, argillaceous, with sandstone and shale interbeds. 5230-5240 - fine salt-and-pepper sandstone, argillaceous, silty.
- 5270-5380 Shale, light grey and dark grey, micromicaceous, with siltstone interbeds.

5380-5450	Shale, dark grey and black, with siltstone, fine sandstone, interbeds, with traces of siliceous chert conglomerate.
5450-5810	Shale, medium and light grey, with siltstone interbeds. Micromicaceous.
5810-5870	Siltstone, brown grey, faintly calcareous with interbedded grey shale and fine grained sandstone.
5870-5900	Sandstone, fine grained, siliceous, tight with stringers of chert conglomerate.
5900-6040	Sandstone, brown-grey, silty and argillaceous. Tight. Stringers of siliceous chert conglomerate.
6040-6050	Shale, grey.
6050-6100	Siltstone, with shale and sandstone interbeds.
6100-6110	Shale, medium grey.
6110-6130	Siltstone, as above.
6130-6140	Shale, as above.
6140-6190	Shale and siltstone interbedded.
6190-6200	Sandstone, fine grained, tight, salt-and-pepper, silty and sandy.
6200-6220	Shale, medium grey, micromicaceous.
6220-6230	Sandstone, fine grained, salt-and-pepper, tight, silty, and sandy.
6230-6240	Shale, medium grey.
6240-6280	Siltstone, with sandstone stringers and a trace of chert conglomerate. Trace of dolomite cement.
6280-6290	Shale, dark grey, micromicaceous.
6290-6300	Siltstone, as above.
6300-6310	Shale, as above.
6310-6320	Sample missing.
6320-6380	Shale, dark grey, micromicaceous, with siltstone and fine sandstone interbeds.

6380-6400	Siltstone, with scattered chert pebbles.
6400-6410	Sandstone, fine grained, greywacke, with scattered chert pebbles.
6410-6450	Siltstone, argillaceous, slightly dolomitic, with shale interbeds. Scattered chert pebbles.
6450-6510	Sandstone, fine grained, greywacke, argillaceous, with shale and fine sandstone interbeds.
6510-6600	Shale, dark grey, micromicaceous, siltstone stringers. Siltstone has dolomitic cement.
6600-6610	Siltstone, argillaceous, with shale interbedded.
6610-6690	Shale, dark grey micromicaceous, with interbedded siltstone.
6690-6700	Sandstone, as above.
6700-6870	Shale, dark grey with minor siltstone stringers.
6870-6880	Sandstone, very poorly sorted, chert pebbles, argillaceous, tight, with dolomite cement.
6880-6900	Sandstone, as above, trace of porosity, no cement. No show of hydrocarbon.
6900-7050	Siltstone, brown-grey, with scattered chert pebbles. Trace of dolomitic cement. Shale stringers.
7050-7110	Shale, medium grey, micromicaceous.
7110-7190	Siltstone, dark grey, with scattered chert pebbles. Trace of dolomitic cement.
7190-7210	Shale, medium grey, micromicaceous.
7210-7250	Siltstone, as above.
7250-7300	Sandstone, medium grained, black, argillaceous, poorly sorted, with occasional shale interbeds. Trace of dolomitic cement.
7300-7410	Shale, dark grey, silty and sandy. Occasional abundant pyrite.
7410-7480	Shale, dark grey to black, occasionally abundant pyrite.
7480-7510	Shale, as above, with stringers of dark brown pelletal, micro-crystalline limestone.

- 7510-7530 Limestone, dark brown, micro-crystalline, faintly pelletal, with some light brown to white sparry calcite.
- 7530-7560 Limestone, dark brown micro-crystalline and light-brown earthy, suggestion of organic structures (algal? amphipora?)
- 7560-7721 See core description.
- 7720-7870 Limestone, light brown, micro-crystalline, very fossiliferous.
- 7870-7930 See core description.
- 7930-7950 Limestone, light brown-grey, micro-crystalline, very fossiliferous.
- 7950-7980 Limestone, as above. 1% primary porosity filled with pyrobitumen.
- 7980-8000 Limestone, as above, tight.
- 8002-8062 See core description.
- 8062-8190 Limestone, light grey and dark grey, micro-crystalline, very fossiliferous stroms, amphipora.
- 8190-8250 Limestone, as above, decreasing fossil concentration, trace of chert from 8220.
- 8250-8350 Limestone, light brown crypto-crystalline, nonfossiliferous, trace chert 8050-8060.
- 8350-9590 Limestone, light brown, micro-crystalline and dark brown, crypto-crystalline, slightly argillaceous and bituminous. Varying amounts of brown, nonsoluble organic residue. Rare crinoid including two-holer.
- 9590-9830 Limestone, medium brown, micro and crypto-crystalline. In part (up to 30%) dolomitized, fine crystalline. Increased drilling rate indicates possibly minor fracture porosity.
- 9830-10,620 Limestone, medium brown, varying from light to very dark brown. Much insoluble organic residue, some argillaceous material. Rare crinoid.
- 10,620-10,720 Dolomite, light brown micro-crystalline, with a trace of intercrystalline porosity which is plugged with pyrobitumen. Slightly limey.
- 10,720-10,880 Dolomite, as above, no porosity.

10,880-11,000 Dolomite, light brown, micro-crystalline, with trace of intercrystalline porosity, mostly plugged with pyrobitumen, but in part open. Permeability poor.

TD - 11,000'

e) Paleontological Determinations

Surface to 1,032 - Upper Albian  
1,190 to 1,210 - ?Lower to Middle Albian  
1,224 to 1,706 - Upper Mississippian (cf. Meramec)  
5,083 to 5,089 - Late Devonian or Early Mississippian



c) Bit Record

See attached Bit Record Sheet.

d) Mud Report

Surface Hole: the 17-1/2" surface hole was drilled from 87' K.B. to 1,101' K.B. using stable foam. At this time the hole was displaced to mud and the surface hole was deepened to 1,210' using a 12-1/4" pilot bit. The hole was reamed to 17-1/2" from 1,101' to 1,208' K.B. The following materials were used on surface:

Sulfotex Sal	14 drums
Gel	236 sax
Caustic	4 sax
Bicarbonate of Soda	1 sax
Fibertex	14 sax
Aluminum Stearate	2 boxes
Sawdust (rig floor)	70 sax

Main Hole: the 8-3/4" main hole was drilled from 1,204' to 11,000' K.B. using an XC polymer mud system. The following materials were used on the main hole:

Gel	2,034 sax
Wt. Material	2,336 sax
Caustic	155 sax
Bicarbonate of Soda	13 sax
Kelzan	293 sax
Dowicide "B"	1,200 lbs.
CMC	102 sax
Chrome Alum	19 sax
Sawdust (rig floor)	100 sax
Plaster	15 sax
Spersene	26 sax

e) Deviation Record

165-1/8°	910-0°	1522-1°	2747-1-1/2°	3909-1°	5190-1-1/4°
196-0°	995-3/8°	1612-1°	2804-1°	4033-1-3/4°	5385-1°
444-1/4°	1024-1/4°	1710-1°	2895-1°	4148-1-1/2°	5411-2-1/4°
507-7/8°	1073-1/8°	1800-1/2°	2987-2°	4336-2°	5434-1-1/2°
538-1/2°	1100-7/8°	1896-1/2°	3055-2°	4426-1°	5479-1-1/2°
570-7/8°	1130-1/2°	2051-1°	3141-1-1/2°	4470-1-1/2°	5545-3°
600-1/2°	1161-1°	2208-1°	3260-1°	4610-1-1/4°	5569-3-1/4°
660-1/4°	1192-1/2°	2360-1-1/2°	3385-0°	4737-1-1/2°	5600-4°
724-1/4°	1210-3/4°	2451-1°	3539-3/4°	4917-1-1/2°	5628-3-1/2°
790-0°	1304-1°	2621-1-1/2°	3692-1-3/4°	5040-2-1/2°	5660-2-1/2°
853-1/8°	1366-1/4°	2682-2°	3885-1-1/4°	5080-2°	5722-3°

e) Deviation Record Continued:

5787-2-1/8°	6442-2-1/4°	7159-3°	7681-1°	8915-1°
5849-1-3/4°	6501-1°	7189-2-3/4°	7870-2°	9106-1/2°
5929-1/2°	6613-2-1/2°	7221-3°	8002-1°	9168-7/8°
6003-2°	6690-1/2°	7284-3°	8093-1°	9670-1-1/4°
6046-1/2°	6784-1/4°	7327-2-1/4°	8228-1°	9790-3/4°
6126-7/8°	6853-1/2°	7413-2°	8351-1-3/8°	10254-1/2°
6222-1/4°	7000-1°	7507-2°	8590-1/2°	10740-3°
6300-1-1/4°	7125-2-3/4°	7620-1-1/2°	8757-1°	11000-4°

f) Abandonment Plugs

Plug #1 (11,000'-10,750') 135 sax Type I cement + 1% retarder.  
Plug #2 (7,922'-7,700') 130 sax Type I cement.  
Plug #2A (7,700'-7,558') 80 sax Type I cement.  
Plug #3 (4,380'-4,280') 75 sax Type I cement.  
Plug #4 (1,280'-1,150') 125 sax Type I cement plus 3% CaCl<sub>2</sub>.  
Plug #5 (Surface Casing) 5 sax Type I cement.

g) Lost Circulation Zones

No lost circulation.

h) Report of Blowouts

No kicks or blowouts on this well.

SECTION IV - LOGS

The following Schlumberger logs were run on surface hole on January 19, 1972.

Dual Induction Laterolog	(0' - 1,201')
BHC/GR	(0' - 1,201')
FDC/GR	(0' - 1,202')
Microlog Caliper	(0' - 1,202')

The following Schlumberger logs were run on main hole on April 29-30, 1972.

Dual Induction Laterolog	(1,200' - 11,000')
BHC Sonic/Gamma Ray/Caliper	(1,200' - 11,000')
SNP	(4,200' - 5,300') (7,500' - 11,001')
Formation Density Compensated	(4,200' - 5,300') (7,450' - 10,999')

Ran sidewall cores 15 shots. Recovered 13 as follows:

7,469'	1,552'
5,089'	1,405'
5,083'	1,342'
1,706'	1,282'
1,683'	1,240'
1,681'	1,224'
1,605'	

SECTION V - ANALYSIS

a) Core Analysis

Core analysis enclosed in back folder.

b) Water Analysis

Water analysis enclosed in back folder.

c) Gas Analysis

No gas analysis.

d) Oil Analysis

No oil analysis.

SECTION VI - COMPLETION SUMMARY

a) Tubing Record

No tubing run.

b) Perforation Record

No perforations.

c) Cementation Record

Abandonment Plug #1 (11,000'-10,750')

Cemented with 135 sax Type I cement plus 1% retarder. Cement in place at 14:50 hours, May 3, 1972. No feel on Plug #1.

Abandonment Plug #2 (7,922'-7,700')

Cemented with 130 sax Type I cement. Cement in place at 19:25 hours, May 3, 1972. Felt Plug #2 at 7,675' at 04:00 hours, May 4, 1972.

Abandonment Plug #2A (7,675'-7,558')

Cemented with 80 sax Type I cement. Cement in place at 05:45 hours, May 4, 1972. No feel on Plug #2A.

Abandonment Plug #3 (4,380'-4,230')

Cemented with 75 sax Type I cement. Cement in place at 08:45 hours, May 4, 1972. Felt Plug #3 at 4,260' at 17:45 hours, May 4, 1972.

Abandonment Plug #4 (1,280'-1,150')

Cemented with 125 sax Type I cement plus 3% CaCl<sub>2</sub>. Cement in place at 18:45 hours, May 5, 1972. Felt Plug #4 at 1,120' at 03:15 hours, May 6, 1972.

Abandonment Plug #5 (Surface Casing)

Cemented 5 sax Type I cement in the top of the 13-3/8" casing. Welded on steel plate and installed well sign.

d) Acidization and Fracturing Record

No acidizing or fracturing operations.

e) Back Pressure and Production Tests

No back pressure or production tests.

CHEVRON STANDARD LIMITED  
BIT RECORD

WELL NAME Chevron SUBCWM N PAARIN CONTRACTOR Nelors

RIG No. 1

PUMP No 1 D-700 - 5 1/2 x 16

DC \_\_\_\_\_

SPUD DATE Jan 4/72

RIG RELEASED \_\_\_\_\_

DRILLING DAYS \_\_\_\_\_

PUMP No 2 \_\_\_\_\_

DP \_\_\_\_\_

BIT No.	MAKE	SIZE	TYPE	DEPTH		FOOTAGE	TIME	DRLG. RATE	NOZZLE SIZES	JET VEL	WEIGHT M#	RPM	No. 1 PUMP		No. 2 PUMP		PUMP PSI	HHP AT BIT	DP ANN.	DC ANN.	MUD		DULL COND.			DEV.	REMARKS		
				FROM	TO								LINER	SPM	LINER	SPM					WT.	VIS.	T	B	G				
1	H-W	17 1/2	OSC 3	0	570	570	42 1/4	13 1/2	3-15		5-8	90												4	1	1	1/2	Foam drilling	
2	H-W	17 1/2	ASCIG	570	995	425	31 3/4	13 1/2	Open		5-8	90												3	1	1	3/8	" "	
3	WEST Drill	6 3/4	◇	995	1023	28	10 1/2	2.7	"		2	49												Good	1/4			Diamond drilled w/foam	
4	H-W	17 1/2	OSCIG	995	1024	29	2 1/2	11.4	"		4	120												3	1	1	1/4	Reamed 28' Drilled 1' RR 2	
5	WEST Drill	6 3/4	◇	1024	1025	51	12	4.2	"		2	45												Good	1/4			Diamond drilled RR 3	
6	H-W	17 1/2	OSCIG	1024	1076	52	8	6.5	"		4	120												3	1	1	1/4	Reamed 51' drilled 1' RR 4	
7	WEST Drill	6 3/4	◇	1076	1101	25	6 1/4	4	"		2	44												Good				Diamond drilled RR 5	
8	H-W	17 1/2	OSCIG	1076	1101	25	7	3.5	"		10	120												4	1	1	7/8	Reamed 25'	
9	H-W	12 1/4	X16	1101	1161	60	20 3/4	3.0	"		7	120												6	1	1	1	Converted to mud	
10	H-W	12 1/4	X16	1161	1210	49	15 1/2	3.2	3-14		7	120												6	1	1	3/4	Pilot Hole	
11	Sec	17 1/2	Hole Opener	1101	1148	47	4	11.5	3-14		10	120												4	1	1		Pulled to change cutters	
12	Sec	17 1/2	"	1148	1208	60	10 1/2	6	3-14		10	120												4	1	1	1/2		
13	H-W	12 1/4	X16	1210	1225	15	1 3/4	8	2-12 1-14		15	95												1	1	1	3/4	Drilled out shoe	
14	Sec	8 3/4	S 88	1225	2570	1345	42 1/2	31.5	2-10 1-9		25	55	5 1/2 x 16	60			1650						9.0	55	1	1	0	1°	
15	H-W	8 3/4	I 33	2570	4252	1682	105 1/2	16	2-10 1-9		30	55	"	"			1650						9.0	55	6	1	1	2°	
16	Sec	8 3/4	M 88	4252	4770	218	36 1/4	6.0	1-14 2-13		35	55	"	"			1100						9.2	89	8	4	0	1 1/2	Hole sand Reamed from 1500'
17	H-W	8 3/4	RG 7X	4470	4737	267	57 3/4	4.6	2-12 1-11		40	40	"	65			1600						9.2	82	8	8	0	1 1/2	Lost 1 cone
18	Sec	8 3/4	H-100	4737	4742	5	7 1/2	3.3	2-12 1-11		25	50	"	65			1400						9.1	90	1	1	1	1 1/2	Junk subs run - one cone started to wash.
19	Reed	8 3/4	S 88	4742	4782	70	3 1/2	2.9	2-12 1-11		30	45	"	60			1200						9.2	74	5	1	1	1 1/2	
20	Sec	8 3/4	H-100	4782	5080	298	56 1/2	5.3	2-12 1-11		40	40	"	60			1400						9.3	81	5	4	1	2	
21	H-W	8 3/4	RG 7X	5080	5411	331	51 3/4	6.5	2-11 1-12		40	40	"	61			1400						9.4	70	1	2	1	2 1/4	Pulled to check rough drilling
22	H-W	8 3/4	I 88	5411	5434	23	7 1/4	3	2-11 1-12		25	40	"	61			1400						9.0	71	1	2	1	1 1/2	Pulled plugged bit
23	H-W	8 3/4	RG 7X	5434	5545	111	16	7	2-11 1-12		40	40	"	60			1300						9.2	79	1	2	1	3°	Pulled - rough drilling

CHEVRON STANDARD LIMITED  
BIT RECORD

WELL NAME Cherwon SOBCCWM W PARKIN CONTRACTOR Nabors RIG No. 1 PUMP No 1 D-700 - 5 1/2 x 16 DC \_\_\_\_\_  
 SPUD DATE Jan 4/72 RIG RELEASED \_\_\_\_\_ DRILLING DAYS \_\_\_\_\_ PUMP No. 2 \_\_\_\_\_ DP \_\_\_\_\_

BIT No.	MAKE	SIZE	TYPE	DEPTH		FOOTAGE	TIME	DRLG. RATE	NOZZLE SIZES	JET VEL	WEIGHT M #	RPM	No. 1 PUMP		No. 2 PUMP		PUMP PSI	HHP AT BIT	DP ANN.	DC ANN.	MUD		DULL COND.			DEV.	REMARKS	
				FROM	TO								LINER	SPM	LINER	SPM					WT.	VIS.	T	B	G			
24	Smith	8 3/4	SJS	5545	5929	324	61 3/4	6.2	2-11 1-12		25	50	5 1/2 x 16	61			1300							2	4	1	1/2	Pulled to check
25	Rand	8 3/4	SCMS	5929	6046	117	29 1/4	4	2-11 1-12		30	50	5 1/2 x 16	61			1350							1	2	1	1/2	Pulled to check erratic penetration
26	Smith	8 3/4	SJS	6046	6305	259	41	6.3	2-11 1-12		35	50	" "	60			1300							3	2	0 1/2	1 1/4	Pulled to check
27	Sec	8 3/4	H-88	6305	6613	308	55	5.6	2-11 1-12		40	45	" "	60			1300							1	3	1	2 1/2	Slowed down
28	Sec	8 3/4	H-88	6613	6853	240	41 1/4	5.1	2-11 1-12		40	45	" "	60			1300							2	3	1	2°?	
29	Sec	8 3/4	H-88	6853	7327	474	66 3/4	7.1	3-11		30	52	" "	60			1400							2	6	1	2 1/4	Slowed down & HAS ON BIT.
30	Sec	8 3/4	S-88	7327	7520	233	29	8.1	3-11		32	52	" "	60			1400							1	1	1	2°	PULLED TO CORE.
31RR	WAST DRILL	6 3/16	◇	7520	7620	60	10 1/4	6.0	—		12	44	" "	44			850											RE-RUN # 3 (SEC # 71A52)
32	Smith	8 3/4	SVII	7560	7620	60	10	6.0	3-11		8	45	" "	61			1400							1	1	1	1 1/2	Reamed 60'
33RR	WAST DRILL	6 3/16	◇	7620	7680	60	10 1/2	6.0	—		12	75	" "	40			850											Re-run # 31RR
34RR	Smith	8 3/4	SVII	7620	7681	61	8 3/4	7.0	3-11		10	75	" "	60			1400							2	1	1	1°	Reamed 60' Drilled 1'
35RR	WAST DRILL	6 3/16	◇	7681	7741	40	6	7.0	—		12	75	" "	41			850											Core jammed
36RR	Sec	8 3/4	S88	7681	7870	149	22	6.8	3-11		35	50	" "	60			1400							1	1	1	2°	Re-run # 30 reamed 40'
37RR	WAST DRILL	6 3/16	◇	7870	7930	60	11 1/2	5.2	—		8	75	" "	41			800											Re-run 35RR.
38	Sec	8 3/4	M44H	7870	8002	R60 R72	R8 R10 1/2	6.8	2-11 1-10		8-35	55	" "	60			1500							3	2	1	1°	Pulled to core
39RR	WAST DRILL	6 3/16	◇	8002	8062	60	12 1/4	3.5	—		12	75	" "	43			900											Good
40RR	Sec	8 3/4	M44H	8002	8093	R60 R31	R7 3/4 R7 3/4	10	2-11 1-10		8-35	55	" "	60			1500							3	1	1	1°	Pulled to check gauge
41	H-W	8 3/4	XV	8093	8228	135	31 1/2	6.3	3-12		35	55	" "	60			1500							4	2	1	1°	Clean out sloughed hole 28 hours
42	H-W	8 3/4	T44	8228	9168	940	107 1/4	7.7	2-12 1-11		40	55	" "	60			1550				9.0	70	5	3	1	7/8	Locked up	
43	Smith	8 3/4	SJS	9168	9790	622	64	8.7	2-12 1-11		40	48	" "	60			1400				9.0	60	4	5	1	3/4	Torqued	
44	Rand	8 3/4	SCMS	9790	10254	464	57 1/4	8.5	2-12 1-11		40	48	" "	60			1400				9.2	92	4	6	1	1/2	Torqued	
45	Sec	8 3/4	M48	10254	10740	486	62 3/4	7.9	2-12 1-11		40	45	" "	60			1400				9.2	125	6	8	1	3°	Torqued	
46	Smith	8 3/4	SJS	10740	11000	260	29 1/4	8.9	2-12 1-11		40	45	" "	60			1400				9.2	135	1	2	1	4°	F. T. D.	

CHEVRON STANDARD LIMITED  
BIT RECORD

WELL NAME Chevron S OBC N PARKIN TTD-4 CONTRACTOR Kalbars

RIG No. 1

PUMP No 1 D-200 5 1/2 x 16

DC \_\_\_\_\_

SPUD DATE Jan 4/72

RIG RELEASED May 6/72

DRILLING DAYS \_\_\_\_\_

PUMP No. 2 P 2-18

DP \_\_\_\_\_

BIT No.	MAKE	SIZE	TYPE	DEPTH		FOOTAGE	TIME	DRLG. RATE	NOZZLE SIZES	JET VEL	WEIGHT M #	RPM	No. 1 PUMP		No. 2 PUMP		PUMP PSI	HHP AT BIT	DP ANN.	DC ANN.	MUD		DULL COND.			DEV.	REMARKS		
				FROM	TO								LINER	SPM	LINER	SPM					WT.	VIS.	T	B	G				
47	XV	8 3/4	XV				R.R.	6.5	41.																	4°	Clear		
48	SCL	8 3/4	S 74						3-13																			slough hole from	
49	H-W	8 3/4	XV						3-22																			2400	
50	SCL	8 3/4	S 44						3-22		6-10	60						1200				11.0	180	1	1	1	4°	Clear out to log	