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GEOLOGIC PROGNOSIS

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COLO. OIL & GAS CONS. COMM.

WASH-DOWN
WOLF CREEK PROSPECT
Mulholland No. 1-18 (re-entry)
1930' FWL & 1980' FSL
SW/4 Section 18-T24S-R45W
Prowers County, Colorado
SE COLORADO AREA

By: W.J. Pearson
9-10-76

OPERATOR: Michigan Wisconsin Pipe Line Company

WELL NAME: Mulholland No. 1-18 (re-entry)

LOCATION: 1930' FWL & 1980' FSL
SW/4 Section 18-T24S-R45W
Prowers County, Colorado

ELEVATION: Original Well - 3932' KB
- 3922' GL

TOTAL DEPTH: Original Well -
Driller's TD 5902 (Arbuckle)
Log TD 5903 (Arbuckle)
Clean out to 5700'

CEMENT PLUGS: 55 sacks common cement plug from 5100-5300'
35 sacks common cement plug from 265-380'
10 sacks cement plug in top of surface casing.

CONTRACTOR: Jim Snyder Drlg. Co.

MW REPRESENTATIVE: W.J. Pearson
P.E. Robertson

SURFACE CASING: Original Well -
8-5/8" @ 362 w/250 sacks

HOLE SIZE: Original Well -
7-7/8"

SPECIAL INSTRUCTIONS: Driller is to record tops and bottoms of all
cement plugs encountered as well as any "cave-
ins", etc.

Mulholland No. 1-18 Wash-Down Prognosis (Cont.)

PIPE STRAP: Before any logging.

OPEN-HOLE LOGGING: Schulumberger-Liberal
Phone: (316) 624-3801

1st Logging Run:

Gamma Ray-Caliper-Microlog
from 5700' up to 3200'

NOTE: Mr. L.A. Aucoin suggests that 2 additional
passes over the Morrow interval are necessary.

If no problems are encountered run -

2nd Logging, run Dipmeter from 5300' up to 4500'.

FORMATION TOPS ON
ORIGINAL WELL:

W.C. McBride, Inc.
Neuhold #1-18

Approx. Ctr. NESW
Sec. 18-T24S-R45W
Elevs. 3932 KB
3922 GL

Formation Names	Depths (feet)	Datums (feet)
Day Creek	1220	(+2712)
Blaine	1570	(+2362)
Glorietta Ss.	1660	(+2272)
Stone Corral	1830	(+2102)
Red Cave Ss.	1867	(+2065)
Wolfcamp	2410	(+1522)
Wabaunsee ?	3052	(+880)
Topeka	3300	(+632)
Heebner ?	3537	(+395)
Lansing - KC	3626	(+306)
"Marden" Ls	3923	(+8)
B/KC	4095	(-163)
Des Moines	4123	(-191)
Cherokee	4386	(-454)
Atoka ?	4580	(-648)
13 Finger Lm.	4870	(-938)
Morrow	4937	(-1005)
T/Middle Morrow "A" Ss.	5048	(-1116)
B/Middle Morrow "A" Ss.	5058	(-1126)
T/Middle Morrow "B" Ss.	5092	(-1160)
B/Middle Morrow "B" Ss.	5105	(-1173)
T/Lower Morrow Ss.	5140	(-1208)
B/Lower Morrow Ss.	5152	(-1220)
Keyes	5213	(-1281)
Miss.-Ste. Genevieve	5274	(-1342)
St. Louis	5350	(-1418)
Spergen-Warsaw	5542	(-1610)
Osage	5678	(-1746)
Arbuckle	5816	(-1884)

Mulholland No. 1-18 Wash-Down Prognosis (Cont.)

INVOICES:

ATTN: Mr. P.E. Robertson
Michigan Wisconsin Pipe Line Co.
1900 Lincoln Center Bldg.
1660 Lincoln Street
Denver, Colorado 80203

TELECOPIER & PHONE
NUMBERS:

ATTN: Mr. L.A. Aucoin
Michigan Wisconsin Pipe Line Co.
(713) 623-2182

W.J. Pearson or J.R. Miller
Michigan Wisconsin Pipe Line Co.
(303) 861-8433

DIRECTIONS TO WELL:

From Lamar, Colorado - go east on Highway 50
some 5 miles. Turn south on dirt and gravel
road, and go 9 miles south. Turn back west
3/4 mile into location.

RECOMMENDATIONS:

1. Wash hole down to 5700'. Make a short trip
up to 4200' and back to bottom.*
2. Run GR-Caliper-Microlog from 5700' up to 3200'.
Two passes over Morrow.
3. Run Dipmeter from 5300' up to 4500'.
4. Run long string.
5. Run GR-Collar locator-correlation log.
6. Perforate and test as follows:
Use Elev. of 3932' KB & Sidewall Neutron
Porosity log -
 - (a) Perforate Spergen-Warsaw cherty lime
and dolomite from 5562'-68'
 - (b) Perforate St. Louis Ls. from 5398'-5422'.
 - (c) Perforate Middle Morrow "B" Ss. from
5094'-5104'.
 - (d) Perforate Middle Morrow "A" Ss. from
5050'-58'.

NOTE: If Middle Morrow "A" & "B" sands do not
yield gas after fracture treatment, per-
forate and test the following:

- (e) Perforate Topeka "B" Ls. from 3372'-80'.
- (f) Perforate Topeka "A" Ls. from 3314'-20'.

*For good microlog response and mud cake build-up, chlorides should be
in the range of 10,000 to 15,000 ppm.