

MID-CONTINENT PETROLEUM CORPORATION
DAILY DRILLING REPORT

LEASE Bettie Dickinson "A" WELL 1 ELEVATION 4047 DF COUNTY Lea STATE New Mexico

July 7, 1952 ----- Staked location 1000' from north line and 660' from east line of Section 29,
T-10S, R-36E, Lea County, New Mexico.

8 ----- Drilling water well, pits and cellar

9 ----- Moving in rotary and drilling water well

10 ----- " " " " " " " "

11 ----- " " " " " " " "

12 ----- Rigging rotary

14 ----- " "

15 ----- " "

16 ----- " "

17 ----- " "

18 ----- " "

19 ----- " "

21 ----- Spudded in

22 ----- 270' shale, running 13-5/8" casing.

23 ----- 270' set 13-5/8" casing at 256' w/200 sacks. WOC.

24 ----- 1010' Red Beds

25 ----- 1834' Red beds and Anhy.

28 ----- 3000' sand and shale

29 ----- Anhy and salt

30 ----- 3714' Anhy and salt

31 ----- 3850' pipe stuck

Aug 1 ----- 3850' trying to free stuck drill pipe

2 ----- 3850' fishing for drill pipe

4 ----- 4240' anhy and lime

5 ----- 4348' lime

6 ----- 4420' lime

7 ----- 4505' lime

8 ----- 4581' lime

9 ----- 4632' lime, preparing to run 9-5/8" casing

11 ----- 4634' set 9-5/8" casing at 4620' w/2200 sacks, Circulated to surface.

12 ----- WOC

13 ----- 4720' dolomite

14 ----- 4776' dolomite

15 ----- 4855' dolomite

16 ----- No Report

17 ----- DST 4925'-4985', open 1 1/2 hours, recovered 90' slightly oil and gas cut mud.

18 ----- 5109' dolomite

19 ----- 5220' lime and dolomite

20 ----- 5337' lime

21 ----- 5428' lime

22 ----- 5551' lime and dolomite

25 ----- 6050' lime

26 ----- 6212' lime

27 ----- 6399' lime

28 ----- 6536' lime

Sept 1 ----- 7157' lime

2 ----- 7345' lime

3 ----- 7483' lime

4 ----- 7545' lime

5 ----- 7606' lime

8 ----- 7776' lime, 1 1/2 degree

9 ----- 7892' shale, Top Abs 7795'

10 ----- 7924' shale

11 ----- 7983' shale

12 ----- 8052' shale and dolomite

15 ----- 8221' shale and dolomite, 3/4 degree at 8165'.

16 ----- 8266' shale and dolomite

17 ----- 8305' " " "

18 ----- 8358' " " "

19 ----- 8413' " " "

22 ----- 8613' " " "

23 ----- 8682' Shale

24 ----- 8723' shale and dolomite

25 ----- 8762' " " "

26 ----- 8794' " " "

29 ----- 8928' dolomite

30 ----- 8957' dolomite

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Well No.	Location	Depth (ft)	Stratigraphic Unit	Remarks
1	Section 10, T1N, R1E, S1E	10	Shale	
2	Section 10, T1N, R1E, S1E	20	Shale	
3	Section 10, T1N, R1E, S1E	30	Shale	
4	Section 10, T1N, R1E, S1E	40	Shale	
5	Section 10, T1N, R1E, S1E	50	Shale	
6	Section 10, T1N, R1E, S1E	60	Shale	
7	Section 10, T1N, R1E, S1E	70	Shale	
8	Section 10, T1N, R1E, S1E	80	Shale	
9	Section 10, T1N, R1E, S1E	90	Shale	
10	Section 10, T1N, R1E, S1E	100	Shale	
11	Section 10, T1N, R1E, S1E	110	Shale	
12	Section 10, T1N, R1E, S1E	120	Shale	
13	Section 10, T1N, R1E, S1E	130	Shale	
14	Section 10, T1N, R1E, S1E	140	Shale	
15	Section 10, T1N, R1E, S1E	150	Shale	
16	Section 10, T1N, R1E, S1E	160	Shale	
17	Section 10, T1N, R1E, S1E	170	Shale	
18	Section 10, T1N, R1E, S1E	180	Shale	
19	Section 10, T1N, R1E, S1E	190	Shale	
20	Section 10, T1N, R1E, S1E	200	Shale	
21	Section 10, T1N, R1E, S1E	210	Shale	
22	Section 10, T1N, R1E, S1E	220	Shale	
23	Section 10, T1N, R1E, S1E	230	Shale	
24	Section 10, T1N, R1E, S1E	240	Shale	
25	Section 10, T1N, R1E, S1E	250	Shale	
26	Section 10, T1N, R1E, S1E	260	Shale	
27	Section 10, T1N, R1E, S1E	270	Shale	
28	Section 10, T1N, R1E, S1E	280	Shale	
29	Section 10, T1N, R1E, S1E	290	Shale	
30	Section 10, T1N, R1E, S1E	300	Shale	
31	Section 10, T1N, R1E, S1E	310	Shale	
32	Section 10, T1N, R1E, S1E	320	Shale	
33	Section 10, T1N, R1E, S1E	330	Shale	
34	Section 10, T1N, R1E, S1E	340	Shale	
35	Section 10, T1N, R1E, S1E	350	Shale	
36	Section 10, T1N, R1E, S1E	360	Shale	
37	Section 10, T1N, R1E, S1E	370	Shale	
38	Section 10, T1N, R1E, S1E	380	Shale	
39	Section 10, T1N, R1E, S1E	390	Shale	
40	Section 10, T1N, R1E, S1E	400	Shale	
41	Section 10, T1N, R1E, S1E	410	Shale	
42	Section 10, T1N, R1E, S1E	420	Shale	
43	Section 10, T1N, R1E, S1E	430	Shale	
44	Section 10, T1N, R1E, S1E	440	Shale	
45	Section 10, T1N, R1E, S1E	450	Shale	
46	Section 10, T1N, R1E, S1E	460	Shale	
47	Section 10, T1N, R1E, S1E	470	Shale	
48	Section 10, T1N, R1E, S1E	480	Shale	
49	Section 10, T1N, R1E, S1E	490	Shale	
50	Section 10, T1N, R1E, S1E	500	Shale	
51	Section 10, T1N, R1E, S1E	510	Shale	
52	Section 10, T1N, R1E, S1E	520	Shale	
53	Section 10, T1N, R1E, S1E	530	Shale	
54	Section 10, T1N, R1E, S1E	540	Shale	
55	Section 10, T1N, R1E, S1E	550	Shale	
56	Section 10, T1N, R1E, S1E	560	Shale	
57	Section 10, T1N, R1E, S1E	570	Shale	
58	Section 10, T1N, R1E, S1E	580	Shale	
59	Section 10, T1N, R1E, S1E	590	Shale	
60	Section 10, T1N, R1E, S1E	600	Shale	
61	Section 10, T1N, R1E, S1E	610	Shale	
62	Section 10, T1N, R1E, S1E	620	Shale	
63	Section 10, T1N, R1E, S1E	630	Shale	
64	Section 10, T1N, R1E, S1E	640	Shale	
65	Section 10, T1N, R1E, S1E	650	Shale	
66	Section 10, T1N, R1E, S1E	660	Shale	
67	Section 10, T1N, R1E, S1E	670	Shale	
68	Section 10, T1N, R1E, S1E	680	Shale	
69	Section 10, T1N, R1E, S1E	69		

Oct 1, 1952 — 8984' dolomite
 2, — 9027' dolomite and tr chert
 3, — 9060' dolomite and chert, Diamond bit at 9052.
 4, — 9110' dolomite and chert,
 6, — 9160' ditto
 7, — 9187' lime and chert. Top of Wolfcamp 9105'
 8, — 9243' dolomite
 9, — 9297' lime and dolomite
 10, — 9341' lime
 13, — DST 9330' - 9417', open 1 hr, Rec 210' drilling mud. Now drilling at 9445' in lime and shale. Drilling breaks as follows 9346'-57, 9378-84, 9405-12. Top of Wolfcamp 177' high to Snowden #1 Santa Fe.
 14, — 9512' lime and shale
 15, — 9589' ditto
 16, — 9647' ditto
 17, — 9675' running Schlumberger
 18, — 9737' lime and shale
 20, — coring at 9815' lime. DST 9698-9810, open 1 hr. No show
 21, — Cored 9815-35, Rec 21' lime and shale, No shows. Now coring at 9845'
 22, — Cored 9836-65, Rec 29' lime and shale, No shows. Now drilling at 9906', in lime and shale.
 23, — 10,000' lime and shale
 24, — 10,022' lime and shale
 25, — 10,109' lime
 27, — 10,206' lime and shale
 28, — 10,230' lime
 29, — 10,257' lime
 30, — 10,305' lime
 31, — 10,356' lime
 Nov 1, — 10,416' lime
 2, — 10,479' lime
 4, — 10,520' lime and shale
 5, — 10,555' lime and shale
 6, — 10,598' lime and shale
 7, — 10,644' lime and shale
 9, — 10,772' lime
 11, — 10,810' lime and shale
 12, — 10,852' lime
 13, — 10,896' lime
 14, — 10,929' lime
 15, — 10,990' lime and shale
 17, — 11,045' lime
 18, — 11,073' lime and chert
 19, — no report
 20, — 11,120' lime, off 1-3/4 degrees
 21, — 11,165' lime
 24, — 11,246' drilling break at 11231, small amount of stain from 11231.
 25, — DST 11165-11246, 1000' water blankt. open 1 hr. very weak blow. Rec 1000' water blankt and 140' drilling mud. No show. Flow pressure 495%. Now drilling at 11283' in lime and shale.
 26, — 11,304' lime
 27, — 11,345' lime and shale
 28, — 11,385' ditto
 29, — 11,427' lime
 Dec 1, — 11,492' lime and shale
 2, — 11,527' lime
 3, — 11,532' fishing for two bit cones.
 4, — 11,538' lime
 5, — 11,549' lime fishing for bit cone.
 6, — 11,583' lime and shale
 8, — 11,666' lime
 9, — 11,708' lime and shale
 10, — 11,742' lime and shale
 11, — 11,777' lime and shale
 12, — 11,828' lime and sand
 13, — 11,862' lime
 15, — 11,946' lime shale
 16, — 11,989' lime
 17, — 12,022' lime and chert
 18, — 12,041' lime. Break at 12,036'. Going to core.
 19, — Cored 12042-12052. Recovered 10' grey lime, with good spotted fluorescence along fractures. Good odor on fresh breaks. Trace porosity in the top 8'. Bottom 2' composed of dense lime.
 20, — DST 12023-52. Open 1 hr, weakblow for 3 min then died. Recovered 90' slightly gas cut mud.

[illegible]

Dec 22, 1952-----Drilled 12052-12057. Cored 12057-59, Rec. 1' lime and chert. Drilled to 12095, lime and shale, trace of porosity. Making trip to change bits.

23 ----- 12138' lime, will DST

24 ----- 12148' lime. DST 12050-12138' open 45 min. Rec. 180' gas out mud. Flow press. zero, 15 min. shut in pressure zero.

26 ----- 12195' lime and chert. Fishing for bit cone.

27 ----- 12201' lime and chert and shale

29 ----- 12260' lime and chert

30 ----- 12282' chert and lime

31 ----- 12312' lime and chert

Jan 2, 1953----- 12345' lime and chert

5 ----- 12379' lime and chert

6 ----- 12394' lime and chert

7 ----- 12420' lime and chert

8 ----- 12442' lime and chert

9 ----- 12480' lime. Lost $2\frac{1}{2}$ ' mud from 12474-12467', then regained full circulation

10 ----- 12528' lime and chert

11 ----- 12582' lime

12 ----- 12621' dolomite. Top dolomite 12590'. 5% crystalline dolomite. Will DST

13 ----- T.D. 12621'. DST 12529'-12621'. Open 1 hr. 45 min. Blow air for 5 min. Now pulling packer. Rec. 5' mud. 2000' water blanket.

14 ----- 12621'. Went in hole with core barrel. Hole bridged. Now pulling core barrel. Will condition hole. Then run core barrel.

15 ----- Drilled 12621' - 12623'. Start coring at 12623'. Now coring at 12644'.

16 ----- Cored 12623' - 12663'. Rec. 39'. 12623-12631 $\frac{1}{2}$ weak oil odor w/ scattered pin point porosity.
12631 $\frac{1}{2}$ -12634 Dry dolomite
12634-12642 dolomite, sulphur odor, no porosity
12642-12660 dry dolomite
12660-12663 soft crumbly dolomite and lime and shale
Reaming at 12655.

17 ----- TD 12664'. Packer 12670'. Open 1 hr. 2000' water blanket, no blow. Coming out hole.

18 ----- Drilled 12664 - 12674' lime. Started coring 12674.

19 ----- Drilled 12664 - 12674' lime. Cored 12674-12709'. Rec. 34' hard dense dolomite. No shows. Now reaming core hole.

20 ----- Coring at 12716 dolomite.

21 ----- Cored 12714-12723'. Rec. 8' hard dense dolomite. Now coring at 12732' dolomite.

22 ----- Coring ahead at 12759' dolomite. Will core to 12763'.

23 ----- Cored 12723'-12763'. Rec. 40' dolomite. Now reaming hole at 12730'.
12723-12,745' (odor and porosity poor)
(pin point weak odor)
12745-12763' (no porosity) dolomite. Will test.

24 ----- TD 12763' dolomite. Reaming core hole.

26 ----- DST 12723'-12763'. Rec. 60' ϕ mud. No show. Open 1 hr. Drilled to 12790' dolomite. Prep. to core.

27 ----- 12819' lime and chert

28 ----- TD 12840' dolomite. Reaming core hole. Cored 12790-840. Rec. 49'.
12790-12802 pin point per. Some fluor. 12802-12814 some fracs and pin point por. Some vug. per. partially plugged. Some fluor. 12814-12824 Pin point por. Dul Fluor. 12824-12828 Fair por. 12828-12840 Vug per. w/Conn. per.

29 ----- TD 12840' dolomite. DST 12760-12840'. Open 1 hour, slight blow for 3 minutes. Rec 180' mud. No water.

30 ----- ϕ 12850'. Drilled 12840 to 12850.

31 ----- ϕ 12898'. Started core @ 12,850. Will core to 12,900'

Feb 1 ----- Cored 12850-12900. Rec 50' dolomite.
12850-12865 fair porosity. No shows. Dolomite.
12865-12878 hard dolomite. No shows.
12878-12892 dolomite, slight porosity, no show.
12892-12900 dolomite, hard, no show.
Will DST.

2 ----- DST 12836 to 12900' . 2000' water blanket. Open 1 hour. Blow air 3 minutes then died. Rec 390' drilling mud. No shows. Drilling ahead.

3 ----- TD 12950'. Dolomite. Running DST. DST 12849-12950'.
Open 3 hours w/fair blow throughout test. Rec 2000' water blanket and 1890' slightly salty sulphur water.

4 ----- TD 12,950'. Plugging

5 ----- TD 12,950'. Ran Schlumberger logs. Plugged and abandoned.
Released rig at 5 AM 2-5-53.

[illegible]