



MAVERICK OIL CO., LUBAR OIL CO.,  
& CARDINAL PETROLEUM CORP.  
#5 VAN GUNDY  
NE SW 2-7N-54W (1969' FWL & 1980' FSL)  
LOGAN COUNTY, COLORADO

ELEVATION: 4164' GR. 4174' KB.

COMMENCED DRILLING: 3-15-64. COMPLETED DRILLING: 3-21-64.

FIELD: Pawnee Creek.

RESULTS: "J" Sand Oil Well.

LOGS: I-FS-Micro Schlumberger.

CASING: 8 5/8"/85'/65sx.

CONTRACTOR: Allison Drilling Co. PUSHER: Jack Hancock.

TOTAL DEPTH: 5080', Driller. 5037' Electric Log.

TOPS: (EL)

Niobrara	4036	/ 138
Ft. Hays	4356	- 182
Carlile	4404	- 230
Greenhorn	4590	- 416
Bentonite	4754	- 580
"D" Sand	4850	- 676
"J" Sand	4948	- 774
Total Depth	5037	

Remark: Well was drilled to 5080' after logging.

CORE: #1 4953' to 5003' Full recovery.  
4953' to 4954' grey-tan, fine grained, tite Sandstone. Even staining and fluorescence.  
4954' to 4979' reworked sand and shales.  
4979' to 4981' tan-brown, fine-medium grained, slightly reworked Sandstone. Even staining and fluorescence.  
4981' to 4998' reworked sands and shales.  
4998' to 5003' tan, fine-medium grained Sandstone, soft, friable, good P&P, even staining and fluorescence, good odor of oil and odor of sulfur.

CORING TIME: (1')

4953' to 4960'	9-8-6-4-4-7-6	4980' to 4990'	7-7-8-8-9-10-10-13-
4960' to 4970'	5-9-12-8-7-5-5-6-7		13-5
4970' to 4980'	6-7-5-10-6-8-10-9-17-10	4990' to 5000'	5-5-6-9-12-12-17-18-
			17-23
		5000' to 5003'	19-18-18



## CORE ANALYSIS:

No.	Depth	Hor. Perm.	Vert. Perm.	% Porosity	% Oil	% Water
1	4953-4954	0.7	0.4	5.4	13.0	26.0
	4979-4980	31	24	13.9	17.3	41.7
	4980-4981	38	21	11.7	17.1	30.8
	4998-4999	331	273	17.6	12.5	37.5
	4999-5000	166	131	15.1	12.6	41.7
	5000-5001	715	582	21.3	15.5	44.7
	5001-5002	880	729	19.8	11.1	48.0
	5002-5003	708	643	20.0	14.0	39.5

DST's: #1 5000' to 5003'

Open 80 min.

Strong blow immediately

Gas to surface in 5 min.

Oil to surface in 77min.

Recovered 45' oil & gas cut mud  
and 75' oil & gas cut water -  
water analyzed as filtrate

IFP 223

FFP 952

ISIP None

FSIP 1169

IHyd 2637

FHyd 2634

76.2  
419.

## ELECTRIC LOG INTERPRETATION:

Depth	% Porosity	% Water Saturation	Remarks
4855-4860	19	100	Rw. 35 Water
4980-4984	13	100	Rw. 35 Water
5000-5010	23	55	Rw. 35 ROS=30% Oil & water
5010-5020	21	70	Rw. 35 Water
5020-5036	23	80	Rw. 35 Water

## BIT RECORD:

No.	Size	Make	Type	Depth	Deviation
1	7 7/8"	Sec	S-3	85-3157	
2	7 7/8"	Sec	S-3	3157-4591	1 1/2°
3	7 7/8"	Sec	S-3	4591-4953	2 1/4°
4	7 7/8"	Sec	M4L	4953-5035	
5	7 7/8"	Sec	M4N	5035-5080	

## DAILY DRILLING AND MUD RECORD:

	Vis.	Wt.	W. L.
3-15-64 200'	Water		
3-16-64 2715'	Water		
3-17-64 4365'	51	9.4	4.6
3-18-64 4936'	100	9.6	5.0
3-19-64 4976'	105	9.7	4.5
3-20-64 5035'	91	9.8	4.2
3-21-64 5080'	90	9.8	4.2

## SAMPLE DESCRIPTION:

4850' to 4882' grey-white and tan-brown, fine-medium grained Sandstones  
"D" with the tan-brown having slight fluorescence.  
4953' to 5003' "J" See core description.





SAMPLE DESCRIPTION: (Cont'd.)

5003' to 5020' tan, fine-medium grained Sandstone - soft, friable,  
good P&P, even staining and fluorescence.  
5020' to 5080' white-grey, fine-medium grained Sandstone - soft,  
friable, good P&P. No show.

DRILLING TIME: (2')

4850'	to 4860'	3-14-13-13-13
4860'	to 4870'	7-8-8-11-13
4870'	to 4880'	9-8-8-8-8
4880'	to 4890'	8-9-9-6-6
4890'	to 4900'	8-11-10-8-10
4900'	to 4910'	8-7-4-3-3
4910'	to 4920'	4-3-3-3-4
4920'	to 4930'	4-4-10-11-11
4930'	to 4940'	12-13-13-14-18
4940'	to 4950'	20-13-8-5-6
4950'	to 4960'	7-14-14-8-13
4960'	to 4970'	14-20-13-10-13
4970'	to 4980'	13-15-14-19-27
4980'	to 4990'	14-16-19-23-18
4990'	to 5000'	10-15-24-35-40
5000'	to 5010'	37-26-5-10-11
5010'	to 5020'	9-7-13-13-30
5020'	to 5030'	30-24-24-26-24
5030'	to 5040'	31-23-20-6-7
5040'	to 5050'	3-3-4-4-3
5050'	to 5060'	3-3-2-2-2
5060'	to 5070'	2-2-3-3-2
5070'	to 5080'	2-2-4-5-7

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