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GEOLOGICAL REPORT

on

BOBCAT OIL CO.

No. 3 UPRR - LINNEBUR

LONE TREE FIELD

SE $\frac{1}{4}$ NE $\frac{1}{4}$ Sec. 31, T3S-R59W

ADAMS COUNTY, COLORADO

DVR	
FJP	
HHM	✓
JAM	✓
JJD	
GCH	
COM	

By:

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WELL: No. 3 UPRR - Linnebur
OPERATOR: Bobcat Oil Co.
LOCATION: SE¹/₄NE¹/₄ Sec. 31, T3S-R59W
COUNTY: Adams
STATE: Colorado
FIELD: Lone Tree
ELEVATION: 5020' G.L. 5026' K.B.
CASING: 8-5/8" @ 227' with 150 sacks.
5-1/2" @ 6299' with 150 sacks
CORES: None
DRILL STEM TESTS: None
ELECTRIC LOGS Schlumberger I-ES, FDC-GR
COMMENCED: November 25, 1974
RAN 5¹/₂" : Dec. 3, 1974
Plug down 3:30 A.M.
STATUS: Being completed.

ELECTRIC LOG

FORMATION TOPS:

<u>Formation</u>	<u>Depth</u>	<u>Subsea</u>
Parkman	3340	+1686
Sussex	3780	+1246
Shannon	3970	+1056
Niobrara	5262	- 236
Ft. Hays	5669	- 643
Codell	5698	- 672
Carlile	5708	- 682
Greenhorn	5784	- 758
Bentonite	6007	- 981
"D" Sand	6101	-1075
"J" Sand	6155	-1129
J2 Pay Zone	6208	-1182
Total Depth	6296	
	6300 Driller	

SAMPLES:

(Not corrected for lag time)

6090-6100' Shale

6100-6110' Shale

6110-6120' Trace sandstone, fine grain, white, tight, no shows.

6104' Sample top "D" Sand

6120-6130' Sandstone, fine, white, partly friable with slight porosity, partly silty with no shows.

6130-6140' Shale, silty.

6140-6150' Shale.

6150-6160' Sandstone, fine grained, gray, partly friable, some clay filling, no shows.

6160-6170' Sandstone, fine grained, clay filled, no shows.

6170-6180' Sandstone, fine grained, partly friable, clay filled.

6180-6190' Clay filled sandstone, no shows.

6190-6200' Shale with trace sandstone.

6200-6210' Trace sandstone, fine grained, no shows.

6210-6220' Trace sandstone, fine trained, trace with good oil fluorescence, free oil specks when broken.

6220-6230' Trace sandstone with good fluorescence, friable, good porosity.

6230-6240' Trace sandstone with good oil fluorescence, fine grained, tight appearing.

6240-6250' Silt and shale.

6250-6260' Shale.

6260-6270' Silty shale

6270-6280' Silty shale.

6280-6290' Shale.

6290-6300' Shale.

BIT RECORD:	<u>No.</u>	<u>Size</u>	<u>Make</u>	<u>Type</u>	<u>Depth Out</u>	<u>Feet</u>	<u>Hours</u>
	1	7-7/8"	Sec.	S3J	3112	2877	18-1/4
	2	7-7/8"	Sec.	S3	3928	816	7-1/2
	3	7-7/8"	Sec.	S3	4812	884	12-1/2
	4	7-7/8"	Sec.	S3	5514	702	12
	5	7-7/8"	Smith	DT	5955	441	18-1/4
	6	7-7/8"	Reed	Y21G	6154	199	15
	7	7-7/8"	HTC	OD4J	6226	72	11-1/4
	8	7-7/8"	Sec.	M4NJ	6300	74	7-1/4

STRAIGHT HOLE SURVEY: <u>Depth</u>	<u>Degrees from Vertical</u>
235	1/2
1252	0
2250	1/2
3112	3/4
3928	3/4
4812	1-1/4

DRILLING MUD
PROPERTIES:

Plains Mud

<u>Depth</u>	<u>5667</u>	<u>6092</u>	<u>6212</u>
Weight	9.8	10.0	10.0
Viscosity	60.0	60.0	74.0
pH	8.5	8.5	9.0
Water Loss	5.9	3.8	3.9
Chloride - ppm	400.0	400.0	400.0
Cake	2/32	2/32	2/32
Solids			
% by volume	9.0	11.0	14.0

REMARKS:

The "D" Sand on this well was 14' structurally high to Bobcat No. 1 Linnebur, however, the pay zone was practically flat. Samples were examined under a microscope and ultra violet light from above the "D" Sand to total depth. Samples were of good quality except through the pay zone. Although very slight traces of oil sand were seen from 6208' to 6234', no drill stem tests were taken due to electric log calculations and structural position with the No. 1 Linnebur. Production casing was run.