



OPERATOR: A. T. Skaer, et al
3250 Monaco St. Parkway
Denver 7, Colorado

LEASE: #4 Kirk

LOCATION: NW NW SE, SEC. 18, T9N - R53W
Logan County, Colorado

ELEVATION: 4242 Ground Level
4251 Kelly Bushing

SPUD: February 12, 1959

COMPLETED: February 17, 1959

TOTAL DEPTH: 5125 Driller
5125 Electric Log

SURFACE CASING: 128' of 8-5/8 set at 134 with 125
sacks cement.

CORE DATA: No Cores taken.

D.S.T. DATA: DST #1 4943 $\frac{1}{2}$ - 4950 ("D")
DST #2 5050 - 5056 ("J")

ELECTRIC LOGS: 1. Induction electric log from 5125 to
surface casing.
2. Microlog from 5122' to 4800'.

RIG TYPE: Ideco H-30

CONTRACTOR: Huron Drilling Co.
506 Patterson Building
Denver 2, Colorado

TOOL PUSHER: Mr. Gene Phillips
Box 633
Fort Morgan, Colorado

BIT RECORD:

Run	Size	Make	Type	From	To	Feet	Hours
1	7-7/8	HTC	OSC-3	145	2817	2772	16
2	"	Varel	V3D	2817	3628	811	7-1/4
3	"	"	V3D	3628	4459	831	15
4	"	"	V3D	4459	4950	490	10
5	"	"	VH2	4950	5074	124	10
6	"	"	VH2	5074	5104	30	6
7	"	"	VH2F	5104	5125	21	2

MUD: Jell and chemical with Oil mix.

STATUS: Set 5140' of 5½" 14# J-55 Smals Casing S T&C at 5125 KB

ELECTRIC LOG FORMATION TOPS

<u>FORMATION</u>	<u>DEPTH</u>	<u>DATUM</u>
Niobrara	4108	-143
Fort Hays	4450	-199
Codell	4490	-239
Carlile	4496	-245
Greenhorn	4702	-451
Bentonite	4847	-596
"D"	4938	-687
"J"	5044	-793
Total Depth	5125	

CORE AND TEST DATA**"D" SAND**

No cores were taken. Sand was drilled and circulated. Samples contained shows of oil or gas.

D.S.T. #1 4943½ - 4950 ("D")

Tool open 45 minutes. Blow died. Reset tool. Open 2 hours. Shut-in 30 minutes. Gas to surface in 20 minutes. Recovered 540' of fluid. 20' oil cut mud. 5' muddy water. 515' free oil. Initial flow pressure 100 psi. Final flow pressure 185 psi. Shut-in pressure 425 psi. Hydrostatic pressure 2670 psi. Bottom hole temperature 164°F.

"J" SAND.

The electric log analysis indicated that the "J" would produce water. The Drill Stem Tests shows that it will not. The electric log indicates 7 feet of permeable sand. Due to the, drill stem test and staining in the samples it was felt that under proper completion methods the "J" would produce commercial amounts of oil. It was recommended that pipe be set through the "J" zone and completion be attempted in this zone.

Yours very truly,

William H. Young
Consulting Geologist

WHY:dw