

JUN 12 1971

D R I L L E R S L O G

#4 Arnold

CASING RECORD:
282.73' of new 8-5/8"
surface casing.

COMPANY: Thunderbird Drilling, Inc.

DESCRIPTION
Section 31-16-26
Ness County, Kansas

CONTRACTOR: Strata Drilling, Inc.

TOTAL DEPTH:
4562'

COMMENCED: May 5, 1971

Elevation: 2634' KB

COMPLETED: May 17, 1971

Prod: 95 BOPD & 20% Wtr./M
GR 36

<u>FORMATION</u>	<u>FROM</u>	<u>TO</u>	<u>REMARKS</u>
Clay, Sand, Post Rock & Shale	0	307	Ran 282.73' of new 8-5/8" surface casing; set and cemented at 288.73' with 160 sacks of common cement, 2% gel and 3% C. C. Plug down at 11:2 P. M. May 5, 1971.
Shale w/Sand Streaks	307	815	
Red Bed, Shale & Shells w/Sand Streaks	815	1275	
Red Bed, Shale & Shells	1275	1443	
#1 Anhydrite	1443	1465	
Red Bed	1465	1569	
Dakota Sand	1569	1759	
Red Bed & Shale	1759	1884	
Shale	1884	2031	LOG TOPS::
#2 Anhydrite	2031	2065	*Anhydrite 2031
Shale & Shells & Rock	2065	2135	Heebner 3884
Shale & Shells	2135	2414	Toronto 3905
Shells, Shale & Lime	2414	2600	LKC 3925
Lime & Shale	2600	2998	BKC 4274
Shale, Lime w/Broken Lime	2998	3194	Ft. Scott 4429
Lime & Shale	3194	3686	Chero 4454
Lime w/Shale Streaks	3686	3836	Mississippi Ls 4520
Lime & Shale	3836	3932	" Dol 4534
Lime	3932	4369	
Lime & Shale	4369	4504	
Lime & Chert	4504	4536	
Cherty Lime	4536	4562	

Rotary Total Depth 4562'

5 1/2" casing set and cemented at 4554' with 200 sacks of common cement, with 10 sacks of salt flush ahead of the cement. Plug down at 3:00 A. M. May 17, 1971.

STATE OF KANSAS)
) ss.
COUNTY OF BARTON)

I certify that this is a true and correct copy of the above log to the best of my