



00209145

Well: #34-11 Keller

Location: SW/4 SE/4 Section 11, T. 7 N., R. 53 W.,
Logan County, Colorado

Operator: Holly Resources Corporation

Contractor: Allison Drilling Company

Elevations: 3986 Ground; 3994 K.B.

Casing: Set 8-5/8" @ 149' K.B. with 115 sx, 3% CaCl

Cores: None

Well History: 11/16 Spud 7:00 p.m. Plug down 12:00 p.m.
11/17 W.O.C.
11/18 Drilling @ 2000'.
11/19 Drilling @ 3920'.
11/20 Drilling @ 4570'.
11/21 Running long string.

Drill Stem Tests: DST #1 - "J" Sand. 4525 - 4534.
Open 5 min., shut-in 30 min., open 30 min.,
shut-in 60 min.
Strong blow, gas to surface in 1 min.
Stabilized flow rate in 23 min. at rate of
2,558,000 cu. ft. /day (5# on 1-1/4" choke).
Recovered 1 gal. water.

IHP	2516
FHP	2498
IFP	332
FFP	623
ISIP	1089
FSIP	1089

Logs: Lane-Wells: I-ES, FDC-ML, Sonic-Gamma Ray

11-7N-53W

Log Formation Tops: Niobrara 3723
 Carlile 3996
 Greenhorn 4184
 Bentonite 4330
 "D" Sand 4422 (-428)
 "J" Sand 4522 (-528)
 Total Depth 4605 (Drillers 4605)

Mud: On the morning of November 20, 1968, the mud had the following properties:

Weight 10.1#/gal.
 Viscosity 69 API Funnel
 Water Loss 4.4
 Filter Cake 2/32

Bit Record:	No.	Make	Depth Out	Feet	Hours	Size
	1	Sec. S-3	3502	3344	26-1/4	7-7/8
	2	Sec. S-3	4446	944	17-1/2	7-7/8
	3	HTC OWV	4605	159	6	7-7/8

Deviation Surveys:	Depth	Deviation from Vertical
	120	1/4°
	1006	1/4°
	2000	3/4°
	3000	1°

Sample Description: Lagged to log.

4400 - 4422 Shale, black, gray, soft.

4422 - 4439 Sandstone, very fine-grained, gray to white, clay-filled, silty, friable, low to fair porosity, wet, no show, no fluorescence.

4439 - 4439 - 4454 Sandstone, fine-grained, gray, friable, good porosity, sub-rounded quartz grains, very slight show at 4439, largely wet.

4454 - 4502 Siltstone, tan, buff, gray; shale, black.

4502 - 4522 Siltstone, gray.

- [REDACTED]
- 4522 - 4530 Sandstone, fine-grained, clay-filled to good porosity, friable, good light yellow fluorescence, good CCl_4 cut, light oil stain in part.
- 4530 - 4559 Sandstone, fine-grained, gray, increasing clay matrix, fair to poor porosity, friable, wet, no shows.
- 4559 - 4576 Sandstone, fine-grained, white, clay-filled, mushy, low porosity, wet, no shows.
- 4576 - 4582 Shale, black.
- 4582 - 4605 Sandstone, fine-grained, gray to white, good porosity at top, increasing clay matrix toward bottom, good shows, light stain and good fluorescence and CCl_4 cut in top, section largely wet.

Discussion:

This well was drilled to evaluate the basal "D" and "J" sands. The basal "D" had very slight shows and was wet, and the completion attempt is presently being made on the upper "J" sand. Sample shows were also noted in the lower "J" but log characteristics did not indicate a prospective zone.

Jack D Gray
Jack D. Gray
Geologist

22 November 1968