



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

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  $\text{CCl}_4$  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  $\text{CCl}_4$  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