GICAL COMPLETION REPORT
JLEIN-GRIFFITH, ET AL.
NO. 2 CHAPEL

Location: C SE SE Section 3, Township 9 North, Range 56 West, Weld County, Colorado.

Elevation: 4477' ground, 4486' Kelly Bushing, Powers.

Type: Development well.

Spud Date: 12 noon September 22, 1974. Plug down at 2:30 P.M. Drilled out at 8:00 P.M. September 24. Made T.D. at 5:00 A.M. September 29, 1974.

Status: P & A September 30. 15 sacks at bottom and 10 sacks at top of surface casing.

Casing: 90' of 8-5/8", 20# new set at 101' K.B. with 150 sacks regular cement.

Total Depth: 5910' Driller, 5912' Logger.

Mud: Chem-gel. While drilling the "D" and "J" the viscosity was 65, weight 10# and water loss 4.9 cc.

Cores: None.

DST: One of "J" Sandstone, Virg's Testers.

Logs: Schlumberger:

Induction	5911' to 101'
Density - gamma ray	5911' to 5200'
Synergetic	5911' to 5730'

Contractor: Exeter Drilling Company, Denver, Colorado, Rig #4. Tool Pusher: Emmett Taylor; Drawworks: National T-32. Derrick: Lee C. Moore, 126'; Pump: D-300 EMSCO.

Samples: 30 foot 4900' to 5720', 5 foot to 5780', 10' to 5830', 5 foot to 5910'. Samples temporarily retained by geologist.

7:00 A.M. September 25, drilling at 2733'; September 26, trip at 5077'; September 27, drilling at 5661'; September 28, trip at 5854'; September 29, circulating at total depth.

Deviation: 1½° at 3420'; 1° at 5735'; 2° at 5077'; 1° at 5854'.

Bit Record:

Bit No.	Size	Make	Type	Depth Out	Footage	Hours
1	7-7/8"	REED	Y11J	3420	3319	14-1/2
2	7-7/8"	SMITH	DT	5077	1657	12-1/4
3	7-7/8"	SMITH	DT	5735	658	25
4	7-7/8"	REED	Y21G	5854	119	13-1/2
5	7-7/8"	REED	Y31G	5876	22	7
6	7-7/8"	REED	Y21G	5910	34	7-3/4

GEOLOGICAL INFORMATION

Formation Tops:

	Schlumberger	Datum (4486' K.B.)
Cretaceous		
Niobrara	4902	- 416
Fort Hays	5192	- 706
Codell	5242	- 756
Carlile	5250	- 764
Greenhorn	5428	- 942
"X" Bentonite	5622	-1136
"D" Sandstone	5734	-1248
"J" Sandstone	5821	-1335
Skull Creek	5886	-1400
Total Depth	5919	-1426

file

Samples were examined under a binocular microscope with a 9X lens. Sandstone samples were examined for fluorescence and cut with carbon tetracholoride and an ultraviolet light. All samples were examined wet and are not corrected for lag. Niobrara through Greenhorn is described from the first sample containing same.

5010-5040 Niobrara, Shale, gray with light brown chalk specks.

5190-5220 Fort Hays, Limestone, light gray, chalky, microcrystalline.

5250-5280 Codell, Sandstone, very fine grain, silty, salt and pepper, fair porosity, yellow fluorescence, silver cut.

5280-5310 Carlile, Shale, gray, micaceous.

5735- (5734 log) "D" Sandstone, 20 minute circulate, Sandstone, 15%, fine grain, gray, few dark minerals, clay matrix, poor porosity, dull yellow fluorescence and sandstone, 15%, fine grain, angular, dark minerals, fair porosity, stain, bright yellow fluorescence and silver cut and sandstone, 70%, fine grain, glassy, angular, few dark minerals, fair porosity, no shows, wet.

40 and 60 minute circulate, Sandstone, 20%, fine grain, gray, quartzitic, fractured, poor porosity, slight scattered fluorescence and sandstone, 80%, fine to medium, subrounded, dark minerals, poor porosity, no fluorescence, no cuts, wet.

5735-5740 Cave.

5740-5745 Sandstone, 40%, fine grain, subangular, gray, few dark minerals, poor porosity, patchy yellow fluorescence, appears gas or flushed, silver cut and sandstone, 60%, fine grain, gray, quartzitic, poor porosity, no shows.

5745-5750 Sandstone, as above.

5750-5755 Sandstone, very little, fine grain, subangular, glassy, hard, poor porosity, no shows.

5755-5820 Shale, dark gray to black.

5820-5830 (5821 log) "J" Sandstone, very fine grain, silty, dark minerals, some glauconite, poor to fair porosity, no shows, wet.

5830-5835 Sandstone, 15%, very fine grain, silty, gray, dark minerals, slight pyrite, poor porosity, slight fluorescence and silver cut and sandstone, 85%, very fine, light gray, quartzitic, poor porosity, no shows.

5835-5840 Sandstone, fine to very fine grain, gray, well cemented, poor porosity, no shows.

5840-5845 Sandstone, as above, slight glauconite and mica, poor porosity, no shows.

5845-5850 Sandstone, 95%, fine grain, angular, salt and pepper, quartzitic, poor porosity, no shows and sandstone, 5%, fine grain, subrounded, clean, fair porosity, scattered fluorescence.

5854- 15 and 30 minute circulate, Sandstone, fine grain, subrounded salt and pepper, poor porosity, no shows.

45 minute circulate, Sandstone, as above, slight pyrite, no shows.

Strap: 5854' = 5856'.

5856-5860	Sandstone, fine grain, light gray, subrounded, dark minerals, poor porosity. One cluster in twelve has poor porosity, bright yellow fluorescence, remainder, no show.
5860-5865	Sandstone, as above and few small clusters - 2 to 3 grains - with fluorescence. Note: drilled at 24 minutes per foot with new bit.
5865-5870	Sandstone, fine grain, light gray, subangular, dark minerals, rose quartz, poor to fair porosity, no shows.
5870-5875	Sandstone, as above, no shows.
5875-5880	Sandstone, 90% as above, and sandstone, 10%, fine grain, sub-rounded, few dark minerals, poor to fair porosity, bright yellow fluorescence and silver cut.
5880-5885	Sandstone, as both above with only 5% carrying shows. Few very small clusters, yellow fluorescence and sandstone, 90%, fine grain, gray, salt and pepper, slight carbonaceous, poor porosity, no shows.
5890-5895	Sandstone, fine grain, salt and pepper, hard, poor porosity, no shows, wet.
5895-5900	Sandstone, as above with shale, dark gray.
5900-5910	Shale, dark gray micaceous.
5910-	20, 40 and 60 minute circulate, Shale, dark gray.
DST No. 1	5856' to 5870', log depth, straddle test. Open 15, SI 30, open 105, SI 30, all minutes. Opened weak, increased to fair in 15 minutes. Second blow fair, increasing to strong in 28 minutes and continued. Recovered 1010' - 8.2 barrels - fluid being 90' mud cut water, very slight gas cut and 920' - clear water. Rw middle 1.1 ohm at 95°, 4000 PPM. Rw bottom 1.0 ohm at 80°, 4600 PPM. IF 72#, FF 144#, SIP 1384#, IF 180#, FF 504#, FSIP 1302#, IH 3404#, FH 3381#. All packers held. Bottom sampler: 40 PSIG at 162°. Recovered 2010 cc being 1990 cc water, 20 cc mud, 0.1 cu. ft. gas. Rw water 1.2 ohm at 72° - 4900 PPM. Mud pit sample 2.8 ohm at 80° - 1700 PPM and rig water 4.5 ohm at 75° - 1125 PPM.

INFORMATION

The base of the DST intervals at the No. 1 and No. 2 Chapel are (-1380) and (-1384) respectively. It was believed prior to logging the No. 2 Chapel was dry from sample examination. The final shut in period was designed for one hour. The 30 minute final was a mistake by a new tester. It is believed the poor sample shows, confirmed by the bottom hole sample information more than offsets the positive log analysis and that this test is a dry hole.

Dated: October 1, 1974.

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