

Status: Attempted completion from "J" Sandstone.

Casing: 83' of 8-5/8" new 23# set at 90 K.B. with 75 sacks, 3% C.C.

Total Depth: 5887' Driller, 5886' Logger.

Mud: Chem-gel with detergent. While drilling the "D" and "J" the viscosity was 60 to 83, weight 9.8# and water loss 4.8 cc.

Cores: None.

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

Logs: Schlumberger: Induction 5886' to 90'
 Density - gamma ray 5882' to 5550'
 Synergetic 5875' to 5732'

Contractor: Gear Drilling Company, Denver, Colorado, Rig No. 2. Tool Pusher: Bob Adams; Drawworks: T 32 National. Derrick: Lee C. Moore, double; Pump: D-300, 14" EMSCO.

Samples: 30 foot 4850' to 5740', 5 foot to 5750', 10 foot to 5820', 5 foot to 5860', 10 foot to T.D. "D" and "J" retained by geologist, temporarily.

7:00 A.M. June 22, drilling at 1345'; June 23, drilling at 3556'; June 24, drilling at 4801'; June 25, drilling at 5456'; June 26, drilling at 5818'; June 27, prep to log.

Bit Record:	Bit No.	Size	Make	Type	Depth Out	Footage	Hours	Deviation
	1	7-7/8"	SEC	S100	2810	2720	16-1/2	1°
	2	7-7/8"	SMITH	DTS	3750	940	9-1/4	1 1/2°
	3	7-7/8"	HTC	O5C3J	4680	930	10-1/4	1°
	4	7-7/8"	SMITH	DTJ	5440	760	14	1°
	5	7-7/8"	SMITH	DTJ	5747	307	8-1/4	Zero
	6	7-7/8"	SEC	S6S	5848	101	11-1/2	
	7	7-7/8"	SMITH	VI	5873	25	4-1/4	
	8	7-7/8"	HTC	OW4	5886	13	2-1/4	

GEOLOGICAL INFORMATION

Formation Tops:

Cretaceous

Niobrara
 Fort Hays
 Codell
 Carlile
 Greenhorn
 "X" Bentonite
 "D" Sandstone
 "J" Sandstone
 T.D. in "J"



Schlumberger

4955
 5202
 5246
 5255
 5433
 5626
 5736
 5822
 5886

Datum (4493' K.B.)

- 462
 - 709
 - 753
 - 762
 - 940
 -1133
 -1243
 -1329
 -1393

Samples were examined under a binocular microscope with a 9X lens. Sandstone samples were examined for fluorescence and cut with carbon tetrachloride 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.

file

yellow fluorescence over 20% of cluster, silver cut. Appears to be gas or flushed.

- 5740-5745 Sandstone, as last above with shows and sandstone, 25%, fine to medium grain, tan, subangular, hard, poor porosity, no shows.
- 5747- Bit No. 6, 3 - 20 minute circulated samples, Sandstone, medium, some fine grain, subrounded, glassy, fair some good porosity, no shows.
- 5747-5757 Sandstone, as above. Probably came from trip.
- 5757-5767 Siltstone, gray, hard, poor porosity, no shows.
- 5767-5830 Shale, dark gray to black.
- 5830-5835
(5822 Log) "J" Sandstone, Sandstone, fine to very fine grain, salt and pepper, glauconite, carbonaceous, scattered clay matrix, poor porosity, no shows.
- 5835-5840 Sandstone, very fine grain, silty, light gray, hard, poor porosity, no shows.
- 5840-5845 Sandstone, as above, few dark minerals, white clay matrix, poor porosity, no shows.
- 5845-5850 Sandstone, fine grain, subangular, glassy, dark minerals, quartzitic, appears fractured, poor porosity, no shows.
- 5850-5855 Sandstone, as above, no shows, shale, black.
- 5855-5860 Sandstone, fine grain, subrounded, light gray, dark minerals, appears fractured, no shows.
- 5860-5870 Sandstone, fine grain, subrounded, light gray, dark minerals, poor porosity, yellow fluorescence and silver cut and sandstone, fine grain, subrounded, fair, some good porosity, scattered bright yellow pinpoint fluorescence and weak silver cut.
- 5870-5880 Sandstone, 50%, as last above and 60%, fine grain, light gray, subrounded, dark minerals, poor porosity, no shows.
- 5880-5886 Sandstone, very few clusters, fine grain, subangular, few dark minerals, glauconite, fair some fair to good porosity, stain, bright yellow scattered fluorescence and silver cut.
- 5886- 25 and 50 minute circulate, Sandstone, 20%, fine grain, glassy, fair porosity, scattered yellow fluorescence and sandstone, 80%, fine grain, light gray, fair porosity, no shows.
- 75 minute circulate, Sandstone, as above and sandstone, light gray, subrounded, disseminated pyrite, fair porosity, no shows.
- Strap: 5886' corrected to 5887'.
- DST No. 1 5867' to 5873', log depth, straddle, open 10, SI 30, open 110, SI 60, all minutes. Opened with strong blow on both flow periods. Gas to surface in 23 flow minutes. Maximum on 1/2" orifice after 25 minutes open, 68,800 cfpd. Recovered 625 feet total fluid. 495 feet clear green gassy oil, 5.58 barrels. Unloaded 3 stands plus unloading in the drill collars. 110