

MITCHELL ENERGY CORPORATION
JOHN C. THOMAS #1
30-T32S-R22W
CLARK COUNTY, KANSAS

ZONES OF INTEREST

- 4853 to 4870 - Swope - Limestone - buff to light brown, very fine to fine crystalline, fair to good fluorescence, fair stain, good odor, very slow milky cut.
- 5270 to 5274 - Morrow - Sandstone - gray, very fine grained, tight, (Log) no visual porosity, no show of oil or gas.
- 5348 to 5526 - Mississippian - Limestone - buff to tan, fine crystalline, sandy in part, fractured on logs, no shows.
- 6550 to 6580 - Viola - Limestone - buff, fine to medium crystalline, fair fluorescence, fair cut, milky chert.
- 6759 to 6766 - Simpson - Sandstone - clear to frosted, fine to coarse grained, poor sorting, well-rounded grains, trace very weak fluorescence, very weak to no cut.

DST NO. 1 - VIOLEA - 6524 TO 6584

30:60:60:90

Initial Hydrostatic: 3271
Initial Flow: 90 - 90
Initial Shutin: 1826
Final Flow: 90 - 90
Final Shutin: 1193
Final Hydrostatic: 3172
Bottom Hole Temp: 126°

Weak blow thru 1st open, decreasing thru second open. Recovered 45' drilling mud.

Sample Results:

Recovered 2240 cc mud
No Gas, No Oil, No Water
Pressure - 10 psi
S. G. - 1.0068
Resistivity - .61 ohm @ 75°
Cl - 6000
Ca - 96
Mg, Sulfate & Iron - Negative

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CORE #1 (5/11/83)

From 5230' to 5255' - Short core as barrel jammed, start @ 1:04 a.m. 5/11/83, finish @ 8:40 a.m. 5/11/83; Total core time 7 hrs 36 min w/17 min connection, recovered 24.6 ft of core. (Footage cored 25 ft)

Description:

5230' to 5238.5' - LS, gray fossiliferous in part, Hard (Inola)
5238.5' to 5241.5' - Shale, dk gry to blk, fissile, highly organic, coaly in part
5241.5' to 5242.3' - LS, dk gry, fossiliferous
5242.3' to 5245.7' - Shale, gry-grn, soft, waxy
5245.7' to 5247.5' - LS, dk gry
5247.5' to 5250.7' - Shale, gry-grn, fissile, soft
5250.7' to 5254' - LS, gry, fossiliferous, Lg shell frags
5254' to 5254.6' - (Bottom of core), Shale, gry-grn, soft, broken

Bottom of core corresponds w/5288' on the Nunemaker.

LS/Shale sequence probably indicates the Atoka.

According to the offset logs, this sample should be approximately 12 feet from the top of the sand.

CORE #2 (5/11/83 - 5/12/83)

From 5255' to 5287' - Short core as barrel jammed, start @ 3:25 p.m. 5/11/83, finish @ 12:50 a.m. 5/12/83; Total core time 9 hrs 25 min, recovered 32 ft of core. (Footage cored 32 ft)

Description:

5255' to 5261' - Shale, dk gry to blk, soft
5261' to 5261.7' - LS, gry, hard
5261.7' to 5263' - Shale, dk gry
5263' to 5269.2' - Sand, gry, fine grain, tight, no show
5269.2' to 5281.5' - Shale, gry-grn to blk, fissile, soft
5281.5' to 5283.8' - LS conglomerate, gry, fossil trash, mud clasps, small pebbles
5283.8' to 5287' - Shale, dk gry to blk, soft, (Bottom of core)

Bottom of core corresponds w/5321' on the Nunemaker offset.

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CORE ANALYSIS

	<u>Depth</u>	<u>K</u>	<u>Porosity</u>	<u>Oil Saturation</u>	<u>Water Saturation</u>	<u>Grain Density</u>
Sample 1	5264-65	.07	3.4	----	84.4	2.69
Sample 2	5265-66	.08	5.4	26.4	63.6	2.71
Sample 3	5266-67	.08	4.2	----	85.3	2.72
Sample 4	5267-68	.39	6.5	6.2	83.4	2.73
Sample 5	5268-69	2.00	6.4	11.1	80.6	2.68
Sample 6	5281-82	.04	2.0	26.1	60.9	2.72
Sample 7	5282-83	.05	4.8	33.0	52.3	2.70
Sample 8	5283-84		<u>NOT YET CLEAN</u>			

NOTE: Plug Dean Stark Core Analysis by Core Lab

KANSAS GEOLOGICAL SURVEY
WICHITA BRANCH
FEB 12 1987

STATE CORPORATION COMMISSION

FEB 12 1987

CONSERVATION DIVISION
Wichita, Kansas

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