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Geological and Drilling Report

Drilling Time and Sample Log

OPERATOR: H&C Oil Operating, Inc.

LEASE: Ernest Soukup

API #: 15-053-21188-0000

FIELD: Wildcat

LOCATION: C-NE-SE-SE (330' FEL & 990' FSL)

SEC. 10

TOWNSHIP 14 South

RANGE 10 West

WELL NO. 1-10

LOCATION by GPS: LAT. 38degrees 50.660'NORTH; LONG. 98degrees 24.787'WEST @ ±17 ft.

COUNTY: EI

Ellsworth

STATE: Kansas

ELEVATIONS: GL= 1735'

KB= 1743'

MEASUREMENTS ARE ALL FROM KB.

CONTRACTOR: Discovery Drilling Company, Rig 2

COMMENCED DRILLING: Spud 12:30 P.M. 08/25/2006 COMPLETED DRILLING: 9:05 A.M. 08/29/2006

 $RTD = 3000^{\circ}$

LTD = 3001

SAMPLES SAVED FROM

Surface Casing

TO RTD

DRILLING TIMES KEPT FROM 2000' to 2400' (5 ft. drilling times) & 2400' to 3000' (1 ft. drilling times)

SAMPLES EXAMINED FROM 2050' to 2200' & 2350' to 3000'

GEOLOGICAL SUPERVISION FROM

TO

MUD UP: 2400'

TYPE OF MUD: Chemical Pac

WELLSITE GEOLOGIST: Wes Lilley

CASING RECORD: Surface Casing @ 436.20 KB

Production Casing @ 3001.31' KB

ELECTRICAL SURVEYS: ELI Wireline Services

TYPE OF ELECTRICAL SURVEYS: DIL/CDL/CNL/PE/MEL

DAILY DRILLING REPORTS & STATUS: 7:00 A.M. CDT

August 24 & 25, 2006: MIRU

August 26, 2006: RU, Spud @ 12:30 P.M 08/25/2006. Drig @ 525' @ 7 AM. RN 10 jts., 20# LS, 8 5/8" Surface Csg. Tally 426.20', Set @ 436.20 KB. CMNT by Allied w/225 sks Common, 2% gel, 3% CC. Did Circulate. Completed @9:45 PM 08/25/2006. Drilled Plug @5:45 AM 08/26/2006. Anhydrite 544 to 559.

August 27, 2006: Drlg @ 1792'.

August 28, 2006: TOC for DST #1 @ 2503. Tstg good 100 unit HW show from sand above Howard. No mudlog show from Topeka Wilson Ck Porosity. Had water flow back while mudding up @ 2424'. In future, should MU @ ± 2000 to 2100'. Flow back at ±2300'.

August 29,2006: Drlg @ 2938'. Lost 30 bbls of mud from 2834 to 2866. RN DST #1 2350' to 2503'.

August 30, 2006: Reached RTD of 3000' at 9:05 A.M. 08/29/2006. ELI Wireline Services RN DIL/CDL/CNL/PE/MEL. RN 5 1/2" Production Csg as Follows:

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NO1-41-01

Production Casing Report
RN 72 jts of 5 ½" New, 14# L.S. csg. Total Tally of 3001.31'
Set @ 2998.31'. Shoe Jt 20.64'
Centralizer & Basket @ 2978.67'
Centralizer @ 2934.71'
Centralizer & Basket @ 2857.14'
Rn 500 gallons WFR-2 Mud Flush ahead of cement;
Plug Mouse hole with 10 sacks
Plug Rat hole with 15 sacks

Cement with 150 sacks of ASC cement with 10% salt. Plug landed @ 12:45 A.M. 08/30/2006. Float held @ 1000#. 20.50' of cement left in casing. Set slips in head. Released Discovery Rig #2

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	REFERENCE	SAMPLE	SAMPLE	LOG	LOG	STRUCTURAL
FORMATIONS:	WELL DATUM	TOP	DATUM	<u>TOP</u>	DATUM	COMPARISON
Anhydrite	1199	544	1199	542	1201	2
Base Anhydrite	1166			574	1169	3
Grand Haven	-378	2120	-377	2126	-383	-5
Tarkio Lime	-457	2205	-462	2206	-463	-6
Elmont	-523	2270	-527	2272	-529	-6
Howard	-667	2413	-670	2416	-673	-6
Topeka	-706	2450	-707	2454	-711	-5
Wilson Ck Porosity	-749	2483	-740	2498	-755	-6
Heebner	-996	2738	-995	2746	-1003	-7
Toronto	-1013	2759	-1016	2764	-1021	-8
Brown Lime	-1091	2837	-1094	2841	-1098	-7
Lansing	-1111	2856	-1113	2860	-1117	-6
Lansing 30' Zone	-1135	2877	-1134	2880	-1137	-2
Lansing 90' Zone	-1201	2944	-1201	2946	-1203	-2
T.D.	-1702	3000	-1257	3001	-1258	444

REFERENCE WELL:

FMP Operating Company; Schneider #1-11; C SW SW 11 14S 10W

BIT RECORD:

NUMBER		SIZE	MAKE	TYPE	DEPTH OUT	FEET	HOURS
	1	12 1/4"	HTC	MXQ3DX	437	437	2 1/2
	2	7 7/9"	HTC	GY20C	3000	2563	

PIPE STRAP:

Strap 0.54' long to board at 2503'

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HOLE DEVIATION:

DEPTH DEVIATION:

1/4 degree

437' 1/4 degree

2503' 3/4 degree

3000' 1 1/4 degree

MUD CHECKS:

	DEPTH	WEIGHT	VISCOSITY	pΗ	Water Loss	Chlorides
2424'		8.7	70	10.5	10.4	2000
2503'	•	8.7	52	11	8.8	3000
3000'		8.9	48	10.5	9.8	4500

LOST CIRCULATION:

Approximately 2300' (see drilling report) 2834' to 2866' (see drilling report)

CORES: None

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SHOWS:

FORMATION

INTERVAL **DESCRIPTION:**

Permian (Council Grove)

1796 to 1807

15 unit hotwire show.

Grand Haven

2130 to 2135

12 unit hotwire show.

Ss: vfg, qtz, lt gy, salt & pepper.

Howard

2400 to 2416

100 unit hotwire show included in DST 1.

Ss: fg-vfg qtz, clear, sub ang, well sorted, poor - fair porosity.

Lausing 30' Zone

2870 to 2902

36 unit hotwire show.

Ls: tan, xln w/fair-gd xln & comoldic porosity. Fair to good

odor, fair-good show of free oil & gas.

Lansing 90' Zone

2950 to 2964

68 unit hotwire show.

Ls: tan, xln, colitic, fair - good xln & comoldic porosity, some

suggestion of fracture porosity (coarse, euhedral, oil stained, calcite

crystals), strong odor, good show of free oil & gas.

DRILL STEM TESTS:

NUMBER

INTERVAL

2350 to 2503

IFP/TIME 15.25/15.4

228.55

ISIP/TIME FFP/TIME FSIP/TIME 18.8/18.14 50.52

60"

IHP/FHP 1106.63/1073.12

30" 60" 60"

RECOVERY:

10' Mud

DST 2

RECOVERY:

DST₃

RECOVERY:

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LOG ANALYSIS

INTERVAL: 2960-2962	NEUTRON POROSITY 19.5	DENSITY POROSITY 19.5	19.5	<u>Rt</u> 16	<u>Sw</u> 28	REMARKS Oii
2962-2964	18	18	18	17	28	Oü
2952-2954	16	16	16	4.7	64	Oil & Gas
2954-2956	24	26	25	6	37	Oil & Gas
2956-2958	17	17	17	7.5	47	Oil & Gas
2898-2901	20	16	18	16	31	Oil
2891-2895	20.5	17.5	19	27	25	Oil
2881-2890	27	25	26	8.5	30	Oil

Rw = .05

Lansing 90' Zone (2952 to 2964)

10 feet of apparent pay

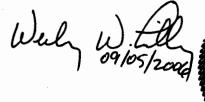
Lansing 30' Zone (2881 to 2901)

16 feet of apparent pay

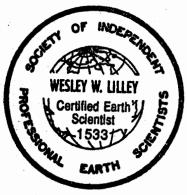
REMARKS & RECOMMENDATIONS:

Based upon sample shows, mudlog shows, structural position to offset well, and log analysis, it was decided that a completion attempt would be made in the Lansing Zones describe above for the subject well.









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