35-30s-33w

ORIGINAL

CONFIDENTIAL

GEOLOGICAL REPORT

on the

HARRIS OIL AND GAS COMPANY

Simpson #5-35

660' FSL & 975' FWL
Sec. 35-T30S-R33W
Haskell County, Kansas

15-081-21100

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HAWKEYE WELLSITE GEOLOGY SERVICES
7708 So. Detroit Street
P. O. Box 2179
Littleton, Colorado 80161

Telephone 303 267 0261 or 303 770 6611

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WELL SUMMARY
for

WELL: Simpson #5-35
LOCATION: 660' FSL & 975' FWL, Section 35-T30S-R33W
Haskell County, Kansas
AREA: Hugoton Embayment, Northwest Anadarko Basin
DRILLING AND COMPLETION CONSULTANT: Harold Frauli
DRILLING CONTRACTOR: Allen Drilling Co., Rig 5
PUSHER: Dickie Collins
MUD LOGGING: Unmanned unit leased from MBC Logging
GEOLOGIST: Gary C. Wilkins
COMPLETED: To be completed as oil well.
SPUDDED: 2300 hrs., 02/01/97
REACHED TOTAL DEPTH: 1148 02/11/1997
152.25 Rotating Hours.
TOTAL DEPTH: 5615' Driller, 5619' Log.

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HOLE SIZE(S) AND CASING SIZE(S):

Hole Size	Casing Size
12 1/4" to 1621'	8 5/8" @ 1618'
7 7/8" to 5615'	4 1/2" to be set.

DEVIATION SURVEYS: At 705', 3/4 deg.
At 1018', 3/4 deg.
At 1621', 1.0 deg.
At 4867', 3/4 deg.
At 5437', 1.25 deg.

BIT RECORD:

Bit #	Size	Company	Type	Out	In	Footage Drilled
1	12 1/4"	HTC	J2	1085'	0'	1085'/10.50 hrs.
2	12 1/4"	Reed	HP 13J	1621'	1085'	536'/7.75 hrs.
3	7 7/8"	Smith	F27I	4867'	1621'	3246'/83.5 hrs.
4	7 7/8"	Smith	F27Irr	5437'	4867'	570'/31.75 hrs.
5	7 7/8"	WkrMac	53CF	5615'	5437'	178'/18.75 hs.

DAILY DRILLING REPORT:

02/01/97 MI & RURT
02/02/97 Drlg. @ 675'. Spudded at 2300 hrs., 02/01/97.
02/03/97 PTD 1621'. Ran 36 jts. 8 5/8" 24# casing, tally 1603', set @ 1618'. Allied cemented with 550 sx Lite w/ 3% CaCl & 1/4# flocele/sk. Tailed in with 150 sx class A w/ 3% CaCl & 1/4# flocele/sk.
02/04/97 Drlg. @ 2275'.
02/05/97 Drlg. @ 3215'. DMC $1498.00, TMC $2743.
02/06/97 Drlg. @ 4025'. DMC $965.00, TMC $3708.00.
02/07/97 Drlg. @ 4590'. Mud 9.1#, 33 sec., 22.4 cc., 2800 ppm Cl-. DMC $1100.00, TMC $ 4808.00.
02/08/97 PTD 4867'. OART RIH w/ DST #1. Mud 9.1#, 45 sec.,

9.6 cc., 1800 ppm Cl-. DMC $2497.00, TMC $7305.00.
02/09/97 Drlg. @ 5087'. Mud 9.1#, 50 sec., 8.8 cc., 1500 ppm Cl-, DMC $582.00, TMC $7887.00.
02/10/97 PTD 5437'. OART TFB. Mud 9.1#, 55 sec., 8 cc., 1400 ppm Cl-, DMC $1295.00, TMC $9182.00.
02/11/97 Drlg. @ 5556'. Mud 8.8#, 64 sec., 7.2 cc., 1600 ppm Cl-, DMC $873.00, TMC $10055.00.
02/12/97 RTD 5615'. BPB ran open hole logs. Completed job approximately 2000 02/11/97. Mud 9.1#, 62 sec., 6.4 cc., 1400 ppm Cl-, DMC $1595.00, TMC $11650.00.

SAMPLES:
10' from 4000' to T.D. Samples generally good.

OPEN HOLE LOGS: BPB
Engineer: Diehl, Liberal, Kansas.
Dual Induction-Self Potential-Gamma Ray
Compensated Neutron, Compensated Density, G.R., Caliper
Microlog

DRILL STEM TESTS, Trilobite Testing Company

Drill Stem Test #1, Marmaton "B" zone, interval 4852-4867', (8 ft. net). Open 30 minutes with weak blow to 3" in bucket. Shut in 60 minutes. Open 15 minutes, dead. Shut in 75 minutes. One recorder clock failed immediately on bottom and the second stopped near the end of the initial shut in period. Recovered 130' muddy salt water, Rw .286 at 62 deg. F.

Initial hydrostatic pressure	2297#
Initial flow pressures	85 & 94#
Initial shut in pressure	1377#
Final flowing pressures	Not recorded
Final shut in pressure	Not recorded
Final hydrostatic pressure	2172#
Temperature	118 deg. F

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This test was run in order to evaluate the Pennsylvanian-Marmaton "B" zone porosity which had tested gas in the south offsetting Dolomite Resources well. The zone drilled at the rate of 1/2 minutes per foot for 8 ft., yielded a 38 unit gas show on the hot wire (20 units in the Dolomite test) and had a weak to fair odor in the sample bag. The sample cuttings were very small and no structure of the reservoir rock was observed. A disaggregated oolitic grainstone was observed with poor spotty fluorescence. Because of the finely divided rock fragments no stain could be observed.

PRINCIPAL OBJECTIVE:

The primary objective Mississippin-Chester sandstone is indicated to be productive, both by sample examination and open

hole log analysis. Log analysis indicates 22 feet of Chester sand oil pay with an average porosity of 16.4%. It is recommended that production pipe be run in order to further test this sand.

STRUCTURAL COMPARISON:

Comparison of selected tops in the Harris # 5-35 Simpson to the Harris Simpson #4-35, NW SW, Section 35-T30S-R33W, Haskell County, Kansas.

	Harris #5-35 Simpson Elevation 2939 KB Spl/Log/Sub-sea, log	COMPARISON (By "E" Log tops)
B/ Stone Corral	1798/1798/+1141	-3
Heebner	4119/4120/-1191	-16
Lansing	4188/4182/-1243	-14
Lansing "F"	4393/4394/-1455	-10
Kansas City	4673/4674/-1735	-11
Kscty "A" Poro.	4684/4684/-1745	-14
Kansas City "B"	4712/4712/-1773	-12
Kscty "B" Poro.	4730/4726/-1787	-11
Marmaton	4839/4833/-1894	-13
Marmaton "B" Por	4857/4858/-1919	-10
Cherokee Shale	4996/4996/-2057	-10
Atoka	5132/5131/-2192	-9
Morrow	5296/5295/-2356	-9
B/Penn/Chester	5427/5423/-2484	-23
Chester Marker	/5461/-2522	-3
ester Sand	5536/5527/-2588	+5
e. Gen.	5555/5552/-2613	-14
St. Louis	5591/5591/-2652	+53??

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No reservoirs other than the Chester sand appear capable of commercial production.

Respectfully submitted,

Hawkeye Wellsite Geology Services
Gary C. Wilkins, Geologist

GCW/spc