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GEOLOGICAL REPORT

JANDIE OIL COMPANY, INC.

&

RICHARD G. SMITH

NO. 1 UKENS

NE SE SW SECTION 22-T22S-R12W
STAFFORD COUNTY, KANSAS

Operator: Jandie Oil Co., Inc. & Richard G. Smith,
 Well: Ukens No. 1
 Location: NE SE SW Section 22-T22S-R12W
 Stafford County, Kansas
 Wellsite: Very sandy wheat field
 Commenced: May 26, 1984
 Completed: June 3, 1984 (with rotary)
 Elevation: 1863 GL 1865 DF 1868 KB
 Total Depth: 3760 (Driller) 3759 (Electra)
 Casing: Surface: 8 5/8" @ 308/250 sacks cement
 Production 5 1/2" @ 3758/150 sacks cement
 Samples: 10-foot intervals: 2800 feet to 3315 feet
 5-foot intervals: 3315 feet to 3760 feet
 Electrical Logs: Radiation-Guard-Caliper by Electra Log, Inc.
 Drillstem Tests: Three (3) by Western Testing Company
 Contractor: Emphasis Oil Operatios (Rig 6)

FORMATION TOPS

SAMPLES

ELECTRA

Anhydrite			641	+1227
Heebner	3158	-1290	3154	-1286
Toronto	3176	-1308	3176	-1308
Douglas	3189	-1321	3187	-1319
Brown Lime	3288	-1420	3286	-1418
Lansing	3311	-1443	3310	-1442
Base Kansas City	3537	-1669	3536	-1668
Viola	3592	-1724	3590	-1722
Simpson	3628	-1760	3630	-1762
Arbuckle Sand	3689	-1821	3688	-1820
Arbuckle Dolomite	3692	-1824	3692	-1824
Rotary Total Depth	3760	-1892	3759	-1891

SAMPLE ZONE DESCRIPTIONS

LANSING-KANSAS CITY 3311 (-1443)

3314-3322 Limestone; white to buff; finely crystalline; scattered,
 "A" Zone fair to good vuggy porosity; trace free oil; scattered,
 fair oil staining; no odor.

3338-3342 Limestone; white, finely crystalline; scattered
 "B" Zone intercrystalline to vuggy porosity; trace free
 oil; scattered oil staining; no odor.

Drillstem test # 1, 3318-3365; initial open 15 minutes; initial close 30 minutes; final open 15 mins. final close 30 mins. weak blow during initial flow died in 3 mins. no blow during final flow. Recovered 5 feet drilling mud. IHP: 1752 psi; IFP 51-61 psi; FFP 51-51 psi; FCIP 51 psi; FHP 1733 psi

- 3356-3365 Limestone; gray to brown; finely crystalline;
"D" Zone scattered intercrystalline to vuggy porosity;
trace free oil; scattered oil staining; no odor
- 3403-3417 Limestone; white to buff; finely crystalline; poorly
"G" Zone developed vuggy to oolitic porosity; scummy show
free oil; black residual staining; scattered,
spotted oil staining; no odor
- 3446-3451 Limestone; white to gray; finely crystalline,
"H" Zone oolitic; excellent porosity; slight odor; no
visible free oil; scattered oil staining.
- 3466-3470 Limestone; white, finely crystalline, oolitic;
"I" Zone good porosity; slight odor, no visible free oil;
black residual staining; scattered spotted oil
staining.
- 3481-3485 Limestone; white, finely crystalline, oolitic;
3488-3493 good porosity; small show free oil; slight odor;
"J" Zone scattered oil staining.
- 3506-3514 Limestone; white, finely crystalline, oolitic in
part; poorly developed vuggy to oolitic porosity;
trace free oil; slight odor; scattered oil staining.

DST # 2, 3476-3515; 30-30-30-30; weak blow for 16 mins. during initial open; weak blow, died in 5 mins. during final open; recovered 15 feet drilling mud. IHP 1842 psi; IFP 53-53 psi; ICIP 63 psi; FFP 53-53 psi; FHP 1802 psi

ARBUCKLE 3689 (-1821)

- 3689-3692 Sand; clear, glassy, fine sized; rounded; friable
in part; fair to good vuggy porosity; trace free
oil; good odor; good oil staining and fluorescence.
- 3692-3702 Dolomite; brown, medium crystalline; good inter-
crystalline to vuggy porosity; small show free oil;
good odor and fluorescence; good oil staining.

DST # 3, 3657-3697; 30-30-30-30; strong blow during both openings. Recovered: 60 feet gas in drillpipe; 240 feet oil and gas cut mud; 120 feet very heavily oil and gas cut mud; 460 feet very heavily oil and gas cut water; 20 feet water; (all fluid recovered had a grind out of 40% oil; 40% water, 20% gas). IHP 2002 psi; IFP 91-204 psi; ICIP 1156 psi; FFP 255-357 psi; FCIP 1126 psi; Temperature 114° F; Chlorides 80,000 PPM.

3706-3718 Dolomite; brown, medium to coarsely crystalline; good intercrystalline to vuggy porosity; show free oil; good odor, staining and fluorescence.

3718-3748 Dolomite; gray, medium to coarsely crystalline; oolitic in part; good to excellent intercrystalline and vuggy porosity; show free oil good odor, staining and fluorescence.

3748-3760 Dolomite; gray, coarsely crystalline; good intercrystalline and vuggy porosity; show free oil; good staining, fluorescence and odor; barren porosity increasing.

STRUCTURAL CORRELATION

	#1 Ukens NE SE SW 22-22s-12w	#2 Alpers NW SW SE 22-22s-12w (oil)	#1 Alpers S/2 SW SE 22-22s-12w (oil)
FORMATION			
Anhydrite	+1227	+1216	+1233
Heebner	-1286	-1288	-1283
Lansing	-1442	-1443	-1438
Arbuckle	-1820	-1821	-1821
Total Depth	-1891	-1824	-1824

Five inch production casing has been set and cemented one foot off bottom at 3758 (-1890) feet (Electra). It is recommended the following zones be perforated and tested:

Arbuckle 3708-3711 3695-3698
Lansing 3442-3445

All measurements were taken from the rotary kelly bushing. Electra's measurements of formation tops, zones and rotary total depth are taken as correct.

Respectfully,

Richard G. Smith
Richard G. Smith
Petroleum Geologist

