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Rupe Oil Company
Perry #1-32
C-NW-NW; Section 32-29s-12w
Pratt County, Kansas

4 ½" Production Casing Set

Contractor: Val Energy Company (Rig #3)

Commenced: September 9, 2005

Completed: September 18, 2005

Elevation: 1885' K.B.; 1883' D.F.; 1875' G.L.

Casing Program: Surface; 8 5/8" @ 285'
Production; 4 1/2" @ 3851'

Samples: Samples saved and examined 2400' to the Rotary Total Depth.

Drilling Time: One (1) foot drilling time recorded and kept 2400' to the Rotary Total Depth.

Measurements: All depths measured from the Kelly Bushing.

Formation Testing: There were four (4) Drill Stem Tests ran by Trilobite Testing Company.

Electric Log: By Eli Wireline Services; Dual Induction and Compensated Density/Neutron Log.

Gas Detector: By MBC Well Logging.

Formation	Log Depth	Sub-Sea Datum
Onaga Shale	2786	-901
Indian Cave Sand	2801	-916
Wabaunsee	2837	-952
Tarkio	2987	-1102
Topeka	3324	-1439
Heebner	3703	-1818
Toronto	3721	-1836
Douglas	3742	-1857
Douglas Sand	3756	-1871
Brown Lime	3879	-1994
Lansing	3892	-2007
Base Kansas City	4286	-2401
Conglomerate Chert	4333	-2448
Mississippian	4358	-2473
Kinderhook Shale	4410	-2525
Viola	4491	-2606
Upper Simpson Sand	4612	-2727
Lower Simpson Sand	4643	-2758
Rotary Total Depth	4650	-2765
Log Total Depth	4653	-2768

(All tops and zones corrected to Electric Log measurements).

SAMPLE ANALYSIS, SHOWS OF OIL, TESTING DATA, ETC.

INDIAN CAVE SAND SECTION

2801-2816' Sand; gray, grayish green, very fine grained, sub rounded, friable in part, micaceous, fair intergranular porosity, fair show of gas bubbles. (77 unit gas kick).

Drill Stem Test #1 2782-2810'

Times: **45-30-30-60**

Blow: **Strong, gas to surface 22 minutes, gas gauged as follows:**

Initial Flow	
25 minutes	**27,600 cfgpd**
30 minutes	**41,880 cfgpd**
35 minutes	**54,570 cfgpd**
40 minutes	**67,260 cfgpd**
45 minutes	**83,130 cfgpd**
Final Flow	
5 minutes	**206,210 cfgpd**
10 minutes	**206,210 cfgpd**
15 minutes	**206,210 cfgpd**
20 minutes	**202,840 cfgpd**
25 minutes	**199,280 cfgpd**
30 minutes	**199,280 cfgpd**

Recovery: **80' mud and gas cut water**
120' muddy gassy water

Pressures:

ISIP	**997**	**psi**
FSIP	**998**	**psi**
IFP	**50-136**	**psi**
FFP	**125-157**	**psi**
HSH	**1385-1344**	**psi**

TOPEKA SECTION

3324-3340' Limestone; tan, buff, fossiliferous, fair fossil cast porosity, (barren).

3349-3361' Limestone; tan, fossiliferous, trace loose fossil fragments, fair fossil cast porosity, trace white chert (barren), no gas kick.

3400-3420' Limestone; cream, gray, tan, oolitic/oomoldic, fair to good oomoldic porosity, few granular, plus white and gray boney chert.

3420-3450' Limestone; as above, fossiliferous in part, sparry calcite cement, no shows.

3644-3660' Limestone; tan, granular, slightly fossiliferous, chalky, few with questionable stain, no fluorescence, no kick, no odor.

TORONTO SECTION

3721-3731' Limestone; cream, white, slightly dolomitic, questionable discoloration, no free oil, no odor, no gas kick.

3731-3740' Limestone; tan, cherty, dense.

DOUGLAS SECTION

3756-3772' Sand; gray, white, very fine grained, sub rounded, few sub angular, fair sorting, micaceous, friable, fair to good intergranular porosity, fair light brown stain, show of fee oil (gassy), fair to good odor, spotty yellow fluorescence. (200 unit gas kick).

Drill Stem Test #2 3732-3780' (log 3736-3783')

Times: **45-45-60-60**

Blow: **Strong, gas to surface 18 minutes, gas gauged as follows:**

Initial Flow	
20 minutes	**26,800 cfgpd**
25 minutes	**28,400 cfgpd**
30 minutes	**28.400 cfgpd**
35 minutes	**28,000 cfgpd**
40 minutes	**28,000 cfgpd**
45 minutes	**27,600 cfgpd**
Final Flow	
10 minutes	**27,600 cfgpd**
20 minutes	**26,020 cfgpd**
30 minutes	**24,430 cfgpd**
40 minutes	**23,640 cfgpd**
50 minutes	**23,640 cfgpd**
60 minutes	**23,640 cfgpd**

Recovery: **45' gas cut mud**
120' gassy watery mud
(30% gas, 20% water, 50% mud)
120' muddy gassy water
(20% gas, 40% water, 40% mud)
60' slightly muddy gassy water
(10% gas, 70% water, 20% mud)

Pressures:	**ISIP**	**1232**	**psi**
	FSIP	**1327**	**psi**
	IFP	**40-90**	**psi**
	FFP	**106-143**	**psi**

3798-3806' Sand; very fine grained, shaley, micaceous, spotty stain, trace free oil, questionable odor.

LANSING SECTION

3892-3900' Limestone; tan, brown, highly oolitic, chalky in part, fair porosity, trace tan, fossiliferous limestone with chert inclusions.

3902-3908' Limestone; tan, fossiliferous/oolitic, chalky in part, no shows.

3912-3924' Limestone; gray, fossiliferous, cherty, dense, trace iron pyrite and white chert.

3940-3948' Limestone; tan, finely crystalline, fossiliferous in part, poor

porosity.

3956-3960' Limestone; gray, fossiliferous, chalky, trace gray, smokey gray chert.

4010-4020' Limestone; tan, finely crystalline, fossiliferous in part, few granular, scattered pinpoint porosity, chalky, no odor.

4036-4050' Limestone; cream, tan, finely fossiliferous, chalky, scattered intercrystalline to vuggy type porosity, plus gray, white, opaque/boney chert.

4061-4071' Limestone; cream, white, finely crystalline, oolitic, sub oomoldic, chalky, fair finely vuggy to sub oomoldic porosity, plus white chalk.

4084-4091' Limestone; gray, oolitic, oomoldic, chalky, poorly developed porosity.

4102-4111' Limestone; cream, gray, slightly fossiliferous, chalky in part, no shows.

4126-4134' Limestone; gray, tan, oolitic, chalky, increasingly cherty (dense).

4140-4150' Limestone; gray, white, finely oolitic/fossiliferous, chalky, trace white gray, opaque chert.

4182-4186' Limestone; white, cream, oolitic, scattered pinpoint and vuggy porosity, trace dull gray and black stain, show of free oil (dead, flakey) and no odor in fresh samples.

4220-4230' Limestone; tan, brown, finely crystalline, slightly cherty (dense), plus tan, brown, opaque chert.

4252-4264' Limestone; tan, gray, finely crystalline, fossiliferous, poorly developed porosity.

4276-4286' Limestone; as above.

MARMATON SECTION

4310-4315' Limestone; tan, gray, fossiliferous, poor visible porosity, trace spotty brown stain, trace of free oil and no odor in fresh samples.

CONGLOMERATE SECTION

4333-4350' Chert; white, gray, boney, opaque black to dull gray to brown spotty edge staining, few with even stain, no free oil, no odor. (88 unit gas kick).

Drill Stem Test #3 **4310-4352'**

Times: **30-45-45-60**

Blow: **Strong**
(O.B.B. 2 minutes)
Final Flow (O.B.B. 5 seconds)

Recovery: **900' gas in pipe**
25' gas cut mud

Pressures:			
	ISIP	**347**	**psi**
	FSIP	**420**	**psi**
	IFP	**37-37**	**psi**
	FFP	**29-29**	**psi**
	HSH	**2108-2053**	**psi**

MISSISSIPPIAN SECTION

4358-4368' Chert; white, gray, boney, opaque, trace black edge staining, no show of free oil or odor in fresh samples (73 unit gas kick).

4368-4390' Limestone; tan, brown, finely crystalline, slightly cherty, dense.

4390-4410' Limestone and chert; as above.

VIOLA SECTION

4491-4494' Limestone; white, cream, dolomitic, poor porosity, trace black to brown stain, no show of free oil or odor, plus white chert.

4494-4509' Limestone and chert; as above.

Drill Stem Test #4 **4496-4506'(log 4499-4509)**

Times: **30-45-45-60**

Blow: **Fair to good**
Initial Flow (O.B.B. 20 minutes)
Final Flow (O.B.B. 23 minutes)

Recovery: **500' gas in pipe**
40' very slightly oil & gas cut muddy water
(15% gas, 2% oil, 38% water, 45% mud)

Pressures:			
	ISIP	**651**	**psi**
	FSIP	**859**	**psi**
	IFP	**38-33**	**psi**
	FFP	**35-44**	**psi**
	HSH	**2242-2144**	**psi**

4510-4530' Limestone; white, gray, medium to coarse crystalline, chalky, plus chert as above.

4530-4540' Limestone; gray, white, dolomitic, trace white dolomite, trace black stain, no show of free oil and no odor in fresh samples

4540-4570'	Limestone; tan, brown, finely crystalline, cherty, plus tan, brown opaque chert.
4570-4580'	Limestone; as above, trace tan, brown, sucrosic, dolomite.
4580-4610'	Limestone and dolomite; as above, trace white, chert.

SIMPSON SECTION

Upper 4612-4626'	Sand; white, clear, fine to medium grained, sub rounded, friable in part, plus loose unconsolidated quartz grains.
4630-4340'	Sand; as above, few dolomitic, plus abundant loose quartz grains, no shows (no gas kicks).
Lower 4644-4653'	Sand; white, clear, very fine grained, friable, fair to good intergranular porosity, plus loose quartz grains, no shows.

Rotary Total Depth **4650 (-2765)**
Log Total Depth **4653 (-2748)**

Recommendations:
On the basis of the positive Drill Stem Tests, it was recommended by all parties involved to set and cement 4 ½" production casing at 3851', and the following zones be tested in the Perry #1-32:

1. Douglas Sand 3576-3578 perforate
2. Indian Cave Sand 2801-2804 perforate

Respectfully submitted;

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