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GEOLOGICAL REPORT

Raney Oil Company, LLC

Kuehnl #1

710' FNL & 810' FEL

W/2-NE-NE/4

SEC. 5 TWP. 10s RGE. 17w 20 (Del)

Rooks County, Kansas

COMMENCED: 4/18/06

COMPLETED: 4/25/06

CONTRACTOR: American Eagle Drilling

SURFACE PIPE: 8 5/8" at 220'

PRODUCTION PIPE: 5 1/2" at 3870'

April 29, 2006

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Formation Data

Elevation: (2248 G.L.) – (2253 K.B.)
All top formations measured from 2253 K.B.

<u>FORMATION</u>	<u>SAMPLE TOPS</u>	<u>SEA-LEVEL DATUM</u>
Anhydrite	1746	+ 507
Base Anhydrite	1787	+ 466
Topeka	3286	- 1033
Heebner	3490	-1237
Toronto	3506	-1253
Lansing K.C.	3531	-1278
Base-K.C.	3749	-1496
Conglomerate	3800	1547
Simpson	3809	1556
Arbuckle	3820	-1567
R.T.D.	3875	-1622

<u>FORMATION</u>	<u>LOG TOPS</u>	<u>SEA-LEVEL DATUM</u>
Topeka	3281	-1028
Heebner	3484	-1231
Toronto	3505	-1252
Lansing K.C.	3523	-1270
Base-K.C.	3742	-1489
Conglomerate	3792	-1539
Simpson	3803	-1550
Arbuckle	3816	1563
R.T.D.	3871	-1618

All samples were examined and described by me on actual location and did not start until a depth of 3300' was reached. All zones and sample tops examined are all true and accurate according to drillers' depth.

One foot drilling time was logged from a depth of 3250' to 3875', and all zones were examined by ten foot samples at a rotary depth of 3250' to 3500'. Five foot samples were examined from a rotary depth of 3500' to 3875'.

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Sample Description

Following are the pertinent geological formations and all zones of subject well Kuehnl #1.

THE FOLLOWING ZONES WERE NOTED:

TOPEKA	3286-3294	Limestone – gray, fine crystalline, poor inter porosity, no show of oil or odor.
	3305-3308	Limestone – gray to buff, fine crystalline, sucrosic in part with chalk embedded, small show of very light stain of oil with odor.
	3318-3320	Limestone – same as above, good odor.
DEERCREEK	3339-3342	Limestone – gray and buff, fine crystalline to dense lime, poorly developed, very slight odor.
LECOMPTON	3395-3420	Limestone – off white, chalky and dense, poorly developed, no show of oil or odor.
OREAD	33430-3452	Limestone – Cream, very fine crystalline, tight, white chert, poorly developed, no show of oil or odor.
	3458-3462	Limestone – cream, fine crystalline to dense and slightly chalky in part. Slight show of oil stain to pin point oil in fossiliferous lime, slight odor.
	3480-3490	Limestone – buff and cream, fine crystalline to dense lime, poorly developed, no show of oil or odor.
TORONTO	3507-3510	Limestone – white and cream, fine crystalline to dense lime, very slight show of oil in pin point, no odor.

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LANSING – K.C.

(A-Zone)	3531-3540	Limestone – off white, dense to very fine crystalline, poor inter porosity, very slight show of light oil stain, pin point free oil when broken, odor noted when broken.
(C-Zone)	3543-3552	Limestone – off white, to cream, very dense lime with chert, poorly developed, no show of oil or odor.
(D-Zone)	3570-3575	Limestone – off white, to cream, very slight show of oil stain, odor noted. (very poor sample due to a hole in pipe or pump problem)
	3580	30 min. circulation & 60 min. circulation, Limestone – same as above.
	3585-3595	Limestone – white to cream, very scattered show of very fine crystalline, with a very light stain, sucrosic in part, odor noted when broken.
(E-Zone)	3603-3607	Limestone – cream, fine to very fine crystalline, sucrosic in part, poor to a fair show of inter porosity in part with a light oil stain to free oil in pin point, odor noted when broken.
(F-Zone)	3611-3615	Limestone – off white to cream, tight crystalline with a show of vuggs in part, light stain of oil, slight odor when broken.
	3615	30 min. circulation & 60 min. circulation, Limestone – same as above with medium crystalline and good vuggs and odor.
D.S.T. #1 (D, E, & F Zones)		Test Interval (3570 to 3615)
(G-Zone)	3621-3624	Limestone – white, very dense to cherty, scattered medium crystalline tight to a fair crystalline porosity, show of light oil stain to free oil when broken, good odor.

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(H-Zone)	3659-3672	Limestone – white and cream, chalky to very dense lime, no visible porosity, no show of oil or odor.
(I-Zone)	3683-3687	Limestone – tan and cream, very fine tight crystalline to sucrosic in part, ever staining with free oil when broken, scattered oolitic lime, no oil show in oolitic, odor noted.
(J-Zone)	3704-3707	Limestone – cream to buff, very fine tight crystalline, small show of oil stain and saturation, show of light free gassy oil when broken, odor when broken.
	3715	30 min. circulation Limestone – same as above.
	3715	60 min. circulation Limestone – same as above with a weaker show of oil.
D.S.T. #2 (I & J Zones)		Test Interval (3680 to 3715)
(K-Zone)	3721-3725	Limestone – white to cream, very chalky, scattered show of fine crystalline, show of oil stain, poor to no inter-porosity, no odor.
(L-Zone)	3742-3749	Limestone – tan and cream, very dense lime, no visible porosity, poorly developed, no shows of oil or odor.
CONGLOMERATE	3796-3800	Chert – clear and yellow, small show of subrounded sand with a dead black residual stain, no odor.
SIMPSON	3809-3815	Sand and Sandy Dolomite – fine to medium crystalline to subrounded sand, show of oil stain, no odor.

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ARBUCKLE	3820-3825	Dolomite – cream fine crystalline, sucrosic in part, show of saturated stain to free oil in pin point, odor noted.
	3835	30-min. circulation Dolomite – same as above, with less show of oil, odor noted. This area has embedded shales.
	3835	60-min. circulation Dolomite – same as above with less show of oil.
	3835	80-min. circulation Dolomite – same as above.
D.S.T. #3 (Arbuckle)		Test Interval (3815-3835)
	3836-3841	Dolomite – Cream, fine crystalline, very dense to tight, show of scattered sucrosic crystalline in part, show of oil stain. (Green Shale)
	3841-3844	Dolomite – cream, fine crystalline, tight to a medium crystalline in part, fair inter porosity , very scattered shows of oil.
	3844	30 min. circulation Dolomite – same as above.
	3844	60 min. circulation Dolomite – same as above, with sucrosic dolomite.
	3847	30 min. circulation & 60 min. circulation Dolomite – fair inter porosity with sucrosic crystalline, very weak shows of oil.
D.S.T. #4 (Arbuckle)		Test Interval (3832-3847)
	3848-3852	Dolomite – buff to off white, fine to medium crystalline, very slight staining, mostly barren, slight odor. (red and green shales)

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3853-3875	Dolomite – cream, fine crystalline to vuggular porosity in part, very scattered shows of oil stain, mostly barren, slight odor.
3875	30 min. circulation Dolomite – same as above.
3875	60 min. circulation Dolomite – same as above, with no odor.

Remarks and Conclusion

During the drilling of the Kuehnl #1 the subject well ran 5' high in the Lansing Kansas City and 8' high in the Arbuckle Dolomite then the Bruggeman #1 drilled by Continental Oil Company. Due to the fact that the Drill Stem Test No. 1 and No. 3 had a fair amount of oil recovery in the Lansing K.C., (E and F Zones) and the Top Arbuckle Dolomite. It was recommended by the operator of Raney Oil Company to set production casing to further test the Kuehnl #1.

Zones of interest in the Kuehnl #1 are as follows:

<u>FORMATION</u>	<u>LOG TOPS</u>
Topeka	3300-3304 3312-3316
Lansing K.C.	3523-3530 3562-3566 3596-3600 3606-3610
Arbuckle	3816-3820

Respectfully submitted,

Duane Stecklein, Geologist

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