

Col-Kan Development, Inc.  
 Dewald #1  
 SE NE SW, Section 16-16S-14W  
 Barton County, Kansas

5 1/2" PRODUCTION CASING SET

CONTRACTOR: Emphasis Oil Operations  
 COMMENCED: 7-12-91  
 COMPLETED: 7-18-91  
 ELEVATION: 1954' K.B., 1951' D.F., 1949' G.L.  
 CASING PROGRAM: Surface: 8 5/8" @ 208'  
 Production: 5 1/2" @ 3476' (Log Measurement)  
 MEASUREMENTS: All depths measured from the Kelly Bushing.  
 DRILLING TIME: One (1) foot drilling time recorded by geologist, surface to the R.T.D.  
 SAMPLES: Samples saved 2800' to the R.T.D.  
 ELECTRIC LOG: By Wire-Tech., Radiation Guard Log.  
 FORMATION TESTING: There were three (3) drill stem tests run by Superior Testers.

<u>FORMATION</u>	<u>SAMPLE DEPTH</u>	<u>SUB-SEA DATUM</u>
Anhydrite	933	+1021
Topeka	2872	-918
Heebner	3104	-1150
Toronto	3121	-1167
Lansing	3173	-1219
Base Kansas City	3392	-1438
Conglomerate	3398	-1444
Arbuckle	3416	-1462
Rotary Total Depth	3475	-1521
Electric Log Total Depth	3477	-1523

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(All tops and zone determinations were corrected to the electric log engineer's measurements.)

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

TOPEKA SECTION  
 3048-3050

Limestone, cream to tan, slightly fossiliferous, cherty, trace of dead spotty brown stain. No free oil or odor in wet samples.

LANSING SECTION  
 3190-3194

Limestone, cream to buff, fossiliferous to oolitic, trace of spotty poor pinpoint porosity, trace of spotty stain. Trace of free oil and faint odor in wet samples.

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DST #1 3182 - 3222 (Log measurements)

Open I.F. 30"  
 F.F. 30"  
 Blow No blow  
 Rec. 30' of mud  
 Pressures ISIP 424 psi  
 FSIP 270 psi  
 IFP 38-38 psi  
 FFP 48-38 psi  
 HSH 1537-1518 psi

DST #2 3308 - 3362 (Log measurements)

Open I.F. 45"  
 F.F. 45"  
 Blow Fair  
 Rec. 390' of gas in pipe  
 60' of slightly gas cut mud  
 120' of mud cut gassy oil  
 Pressures ISIP 797 psi  
 FSIP 775 psi  
 IFP 110-99 psi  
 FFP 110-110 psi  
 HSH 1696-1679 psi

DST #3 3382 - 3427 (Log measurements)

Open I.F. 30"  
 F.F. 30"  
 Blow Weak, 8 minutes  
 Rec. 10' of mud  
 Pressures ISIP 57 psi  
 FSIP 67 psi  
 IFP 28-28 psi  
 FFP 38-38 psi  
 HSH 1729-1710 psi

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PERMITS DIVISION  
TULSA, OKLA.