

4-16-10W

P1

D.S. & W. Well Service  
Heitschmidt #12

1935' FNL, 1935' FEL, NE/4  
Section 4-16S-10W  
Ellsworth County, Kansas

5 1/2" PRODUCTION CASING SET

CONTRACTOR: Duke Drilling Co. (Rig #3)  
 COMMENCED: September 20, 1984  
 COMPLETED: September 25, 1984  
 ELEVATIONS: 1768' K.B., 1765' D.F., 1761' G.L.  
 CASING PROGRAM: Surface: 8 5/8" @ 562'  
 Production: 5 1/2" @ 3355'  
 SAMPLES: Samples examined 2700' to the R.T.D.  
 DRILLING TIME: One (1) foot drilling time recorded by  
 geologist surface to the R.T.D.  
 MEASUREMENTS: All depths measured from the Kelly Bushing  
 ELECTRIC LOG: By Wire Tech, Radiation Guard Log  
 FORMATION TESTING: There was one (1) drill stem test run by  
 Diamond Testing

<u>FORMATION</u>	<u>ELECTRIC LOG DEPTH</u>	<u>SUB SEA DATUM</u>
Anhydrite	542	+1226
Heebner	2797	-1029
Toronto	2817	-1049
Douglas	2827	-1059
Brown Lime	2899	-1131
Lansing	2915	-1147
Conglomerate	3234	-1466
Simpson Dolomite	3257	-1489
Simpson Sand (6 ft.)	3275	-1507
Arbuckle	3298	-1530
R.T.D.	3356	-1588
L.T.D.	3356	-1588

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(All zones are corrected to electric log measurements.)

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

LANSING SECTION

2915-2920 Limestone, cream to white, oolitic, cherty, plus; gray to white chert, no shows  
 2933-2935 Limestone, gray to white, chalky, no shows  
 2947-2953 Limestone, white to gray, oocastic, fair to good oocastic porosity, no shows  
 2967-2972 Limestone, cream to white, sub-oocastic, chalky, no shows  
 2990-2998 Limestone, gray, fossiliferous, granular,, fair porosity, no shows  
 3003-3030 Limestone, tan; oocastic, fair to good oocastic porosity, few pieces slightly oolitic, no shows

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- 3060-3068 Limestone, white to cream, oolitic, oocastic, fair oocastic porosity, no shows
- 3080-3085 Limestone, tan to beige, highly oolitic, cherty in part, poor visible porosity, no shows
- 3100-3106 Limestone, tan to gray, finely crystalline, cherty, no shows
- 3108-3112 Limestone, gray, oolitic, sub-oocastic, chalky, poor visible porosity, no shows
- 3136-3142 Limestone, cream to white, fossiliferous, oolitic, cherty, dense, no shows
- 3150-3154 Limestone, gray, highly chalky, scattered dark brown stain, no show of free oil or odor in fresh samples
- 3170-3176 Limestone, tan, fossiliferous, cherty in part, poor visible porosity, no shows
- 3196-3200 Limestone, beige to brown, fossiliferous, granular, few pieces scattered fossil-cast porosity, no shows
- 3206-3210 Limestone, gray, fossiliferous, chalky, scattered pin-point porosity, poor brown to black stain, trace of free oil and no odor in fresh samples

CONGLOMERATE SECTION

- 3234-3257 Chert, white to gray, boney, trace of purplish gray chert, abundant white, chalky, limestone, trace of sand, very fine grained, quartzitic, all in matrix of gray-maroon-green shale, no shows

SIMPSON SECTION

- 3257-3273 Dolomite, white to cream, arenaceous, poor porosity, plus; trace of yellow-brown chert, no shows
- 3275-3281 Sand, very fine grained, quartzitic, rounded to sub-rounded, well sorted, scattered porosity (predominantly tight), fair stain and saturation, fair show of free oil and no odor in fresh samples **PERFORATE**

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ARBUCKLE SECTION

- 3298-3303 CONSERVATION DIVISION  
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Dolomite, cream to gray, finely crystalline, cherty, dense, plus; trace of gray, medium crystalline dolomite, scattered stain, show of free oil and faint odor in fresh samples **PERFORATE**
- 3303-3307 Dolomite as immediately above, scattered stain, weak show of free oil and faint odor in fresh samples

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DRILL STEM TEST #1 3298-3307

Open: IF 30  
 FF 30  
 Blow: Strong  
 Recovery: 660' clean gassy oil,  
 1490' muddy gassy oil  
 550' water  
 Pressures: ISIP 1113 psi (30")  
 FSIP 1113 psi (30")  
 IFP 485-550 psi  
 FFP 701-972 psi  
 HSH 1836-1781 psi

3307-3314 Dolomite, tan to brown, medium crystalline, scattered porosity, scattered stain, show of free oil and faint odor in fresh samples

3330-3340 Dolomite, beige to buff, finely crystalline, sucrosic, plus; white, medium crystalline dolomite, poor visible porosity, trace of stain, show of free oil and faint odor in fresh samples

3340-3350 Dolomite, tan to gray, medium crystalline, poor visible porosity, trace of spotty light brown stain, no show of free oil and faint odor in fresh samples

3350-3356 Dolomite, tan to beige, fine to medium crystalline, cherty in part, scattered porosity, plus; abundant white, boney chert, no shows

R.T.D. 3356 (-1588)

L.T.D. 3356 (-1588)

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