

Top Soil	0	to	6
Clay	6	to	18
Sand	18	to	27
River Gravel	27	to	31
Gray Shale	31	to	96
Lime	96	to	102
Sand	102	to	130
Hard Lime	130	to	164
Shale	164	to	261
Lime	261	to	275
Black Shale	275	to	286
Lime	286	to	334
Soft White Lime (Disp. Zone)	334	to	368
Hard Lime	368	to	381
Shale	381	to	382
Lime	382	to	384
Shale	384	to	403
Lime	403	to	408
Shale	408	to	430
Lime (K.C. Top)	430	to	433
Shale	433	to	440
Lime	440	to	442
Shale	442	to	444
Lime	444	to	504
Stark Black Shale	504	to	510
Swope Lime	510	to	532
Hard Black Shale	532	to	536
K.C. Base Lime	536	to	555
Pleasington Shale	555	to	690
Black Shale	690	to	691
Gray Shale	691	to	730
Lime	730	to	734
Gray Shale	734	to	751
Lime	751	to	760
Shale (Black)	760	to	762
Shale (Blue-Green)	762	to	825
Lime	825	to	835
Gray Shale	835	to	853
Lime	853	to	857
Black Shale	857	to	859
Gray Shale	859	to	872
Lime	872	to	878
Shale	878	to	895
Lime	895	to	898
Shale	898	to	900
Lime	900	to	903
Little Osage Black Shale	903	to	909
Black Jack Creek Lime	909	to	913
Excello Black Shale	913	to	917
Lime	917	to	918
Upper Squirrel Shale	918	to	938
1st Lime Cap Rock	938	to	940
Shale	940	to	948
2nd Lime Cap Rock	948	to	951
Oil Sand Almost Solid	951	to	954
Put on Core Barrel	954		
Good Laminated O.S.	954	to	955 1/2
Gray Shale	955 1/2	to	956 1/2
Good Laminated O.S.	956 1/2	to	957
Poor Laminated O.S. & Shale	957	to	957 1/2
Excellent Laminated O.S.	957 1/2	to	958 1/2
Gray Shale	958 1/2	to	959
Very Good Laminated O.S.	959	to	960
Good Laminated O.S. & Shale	960	to	961
Fair Laminated O.S. & Shale	961	to	963
Gray Shale	963	to	968
Put on rat hole bit	968		
Gray Shale	968	to	1025
T.D.	1025		

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Murray Twins Lease, Well #19
NE NW SW NW Sec. 24, Twn. 23, Rge 16E
Woodson County, Kansas
3705 From South Line
4840 From East Line
API# 15-207-26690-0000
Set 41' of 23# 7" casing on 6-23-00
Used 16 sx Portland "A" cement
Used 20 sx Premium Gel
Used 1/2 sx Calcium
Drilled 9 7/8" Hole for Surface Pipe

Reached T.D. of 1025' on 6-28-00
Ran 1017' of 2 7/8 8Rd. EUE Tubing
Set 2 7/8" x 8" S/N @ 944'
Set 2 2 7/8" x 6" Centralizers
1 2 7/8" 8Rd. EUE Collar
1 2 7/8" 10 Th. reg. Weld on Collar
1 2 7/8" Tubing Clamp w/bolts
1 1/2" x 3 1/2" Bolt w/nut
Cored 954 to 968

Finished well 6-28-00

CONTRACTOR
#06448
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Drillers: Richard E. Winn
Stanley R. Winn

Geologist: Richard E. Winn

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