

DRILLERS LOG

TOP SOIL	0	TO	4
RED SILTY CLAY	4	TO	21
RIVER GRAVEL	21	TO	32
GREY SHALE	32	TO	93
TOP OF IANSING LIME	93	TO	95
SAND	95	TO	124
LIME	124	TO	125
SAND	125	TO	129
LIME	129	TO	164
DARK GREY SHALE	164	TO	262
LIME	262	TO	268
BLACK SHALE	268	TO	285
LIME	285	TO	295
SHALE	295	TO	298
LIME	298	TO	338
VERY SOFT WHITE LIME	338	TO	370
HARD LIGHT BROWN LIME	370	TO	381
BLACK SHALE	381	TO	382
LIME	382	TO	384
SHALE	384	TO	398
LIME	398	TO	399
SHALE	399	TO	432
TOP OF K.C. LIME	432	TO	435
SHALE	435	TO	441
LIME	441	TO	449
SHALE	449	TO	451
LIME	451	TO	505
STARK BLACK SHALE	505	TO	511
SWOPE LIME	511	TO	532
HUSH BLACK SHALE	532	TO	537
LIME	537	TO	543
SHALE	543	TO	545
LIME	545	TO	557
SHALE	557	TO	560
K.C. BASE LIME	560	TO	562
PLEASINGTON SHALE	562	TO	746
LIME	746	TO	758
SHALE	758	TO	820
LIME	820	TO	833
SHALE	833	TO	851
LIME	851	TO	854
BLACK SHALE	854	TO	857
GREY SHALE	857	TO	869
LIME	869	TO	875
SHALE	875	TO	888
COAL	888	TO	889
LIME	889	TO	895
SHALE	895	TO	897
LIME	897	TO	900
LITTLE OSAGE BLACK SHALE	900	TO	905
BLACK JACK CREEK LIME	905	TO	909
EXCELLO BLACK SHALE	909	TO	913
MULKY SHALE	913	TO	916
UPPER LAGONDA SHALE	916	TO	942
1ST. LIME CAP ROCK	942	TO	943
SHALE & CRUDE OIL ODOR	943	TO	945 1/2
2ND. LIME CAP ROCK	945 1/2	TO	946 1/2
<u>PUT ON CORE BARREL</u>			
VERY GOOD LAM. OIL SAND	946 1/2	TO	947 1/2
GREY SHALE	947 1/2	TO	948 1/2
VERY GOOD LAM. OIL SAND	948 1/2	TO	949 1/2
EXCELLENT SOLID OIL SAND	949 1/2	TO	952 1/2
GOOD LAM. OIL SAND	952 1/2	TO	953 1/2
EXCELLENT SOLID OIL SAND	953 1/2	TO	954 1/2
VERY GOOD LAM. OIL SAND	954 1/2	TO	955

JERRY RANES OIL COMPANY
617 FIRST STREET
LEROY, KANSAS 66857

MURRAY LEASE WELL # 16
SW SW NW NW SEC. 24 TWN. 23S. RGE 16E
WOODSON COUNTY
4045' FROM SOUTH LINE
5240' FROM EAST LINE
API # 15-207-26367-0000
SET 41' OF 23# 7" SURFACE PIPE 1-3-1997
USED 21 SX. OF PORTLAND "A" CEMENT
USED 20 SX. OF PREMIUM GEL (BENTONITE)
USED 1/2 SX. OF CALCIUM
DRILLED 9 7/8" HOLE FOR SURFACE PIPE
STARTED 6 1/2" HOLE ON 1-4-1997
TOOK 1 CORE FROM 946 1/2 TO 963'
REACHED T.D. OF 1020' ON 1-7-1997
RAN 1006.70' OF 2 7/8" 8RD. EUE TUBING
SET 2 1/2" BY 8" S/N @ 944'
SET 2-2 7/8" BY 6 1/2" CENTRILIZERS
CONSOLIDATED OIL SERVICES CEMENTED WELL
CEMENTED LONG STRING WITH RIG OVER WELL
CONTACTED CLAYTON TITEL @ CORPOR. COMM.

CONTRACTOR

LINCOLN 77 INC.
530 REAPER LANE
LEROY, KANSAS 66857-9510
OPERATOR # 06448
DRILLER: RICHARD E. WINN

FINISHED WELL 1-8-1997

COPY

LIME	285	TO	285
BLACK SHALE	285	TO	295
LIME	295	TO	298
SHALE	298	TO	338
LIME	338	TO	370
VERY SOFT WHITE LIME	370	TO	381
HARD LIGHT BROWN LIME	381	TO	382
BLACK SHALE	382	TO	384
LIME	384	TO	398
SHALE	398	TO	399
LIME	399	TO	432
SHALE	432	TO	435
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SHALE	441	TO	449
LIME	449	TO	451
SHALE	451	TO	505
LIME	505	TO	511
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SWOPE LIME	532	TO	537
HUSH BLACK SHALE	537	TO	543
LIME	543	TO	545
SHALE	545	TO	557
LIME	557	TO	560
SHALE	560	TO	562
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PLEASINGTON SHALE	746	TO	758
LIME	758	TO	820
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LIME	833	TO	851
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LIME	854	TO	857
BLACK SHALE	857	TO	869
GREY SHALE	869	TO	875
LIME	875	TO	888
SHALE	888	TO	889
COAL	889	TO	895
LIME	895	TO	897
SHALE	897	TO	900
LIME	900	TO	905
LITTLE OSAGE BLACK SHALE	905	TO	909
BLACK JACK CREEK LIME	909	TO	913
EXCELLO BLACK SHALE	913	TO	916
MULKY SHALE	916	TO	942
UPPER LAGONDA SHALE	942	TO	943
1ST. LIME CAP ROCK	943	TO	945½
SHALE & CRUDE OIL ODOR	945½	TO	946½
2ND. LIME CAP ROCK	946½	TO	946½
PUT ON CORE BARREL			
VERY GOOD LAM. OIL SAND	946½	TO	947½
GREY SHALE	947½	TO	948½
VERY GOOD LAM. OIL SAND	948½	TO	949½
EXCELLENT SOLID OIL SAND	949½	TO	952½
GOOD LAM. OIL SAND	952½	TO	953½
EXCELLENT SOLID OIL SAND	953½	TO	954½
VERY GOOD LAM. OIL SAND	954½	TO	955
EXCELLENT SOLID OIL SAND	955	TO	957½
EXCELLENT LAM. OIL SAND	957½	TO	958
FAIR LAM. OIL SAND	958	TO	961½
SHALEY LAM. OIL SAND	961½	TO	963
DRILL BIT			
GREY SHALE	963	TO	998
COAL SEAM	998	TO	1000
GREY SHALE	1000	TO	1012
BIVERIA COAL	1012	TO	1015
LIME	1015	TO	1017
GREY SHALE (T.D.)	1017	TO	1020
T.D.	1020		

SET 41' OF 23# 7" SURFACE PIPE 1-3-1997
 USED 21 SX. OF PORTLAND "A" CEMENT
 USED 20 SX. OF PREMIUM GEL (BENTONITE)
 USED ½ SX. OF CALCIUM
 DRILLED 9 7/8" HOLE FOR SURFACE PIPE
 STARTED 6½" HOLE ON 1-4-1997
 TOOK 1 CORE FROM 946½ TO 963'
 REACHED T.D. OF 1020' ON 1-7-1997
 RAN 1006.70' OF 2 7/8" 8RD. EUE TUBING
 SET 2½" BY 8" S/N @ 944'
 SET 2-2 7/8" BY 6½" CENTRILIZERS
 CONSOLIDATED OIL SERVICES CEMENTED WELL
 CEMENTED LONG STRING WITH RIG OVER W
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