



REMARKS

APJ 15-141-20439-0000
 Drilling Fluids: Mud-Co-Service Mud, Inc. (Gary Schmitzberger, engineer)
 Drill Stem Testing: Trilobite Testing, Inc. (Dustin Rash, tester)
 Gas Trailer: Earth-Tech OGL, Inc. (unmanned)
 Reserve Pit Chlorides: 27,000 ppm.

FORMATION	NAME	TOP DATUM	LOG	DATE	DEPTH	DRILL TIME (MIN/FT)
STONE CORRAL	1129 (+698)	1180	+697	1180	+697	46.8
BASE/ANHYDRITE	1160 (+667)	1180	+667	1180	+667	46.8
SALT	1508 (+319)	1180	+319	1180	+319	46.8
HERINGTON	1678 (+149)	1180	+149	1180	+149	46.8
WINFIELD	1744 (+83)	1180	+83	1180	+83	46.8
TOWANDA	1810 (+17)	1180	+17	1180	+17	46.8
NEVA	2157 (-330)	1180	-330	1180	-330	46.8
FORAKER	2282 (-455)	1180	-455	1180	-455	46.8
STOTLER	2542 (-715)	1180	-715	1180	-715	46.8
TARKIO	2591 (-764)	1180	-764	1180	-764	46.8
TOPEKA	2747 (-920)	1180	-920	1180	-920	46.8
HEEBNER SHALE	2976 (-1149)	1180	-1149	1180	-1149	46.8
TORONTO	2995 (-1168)	1180	-1168	1180	-1168	46.8
LANSING	3024 (-1197)	1180	-1197	1180	-1197	46.8
STARK SHALE	3241 (-1414)	1180	-1414	1180	-1414	46.8
ARBuckle	3664 (-1837)	1180	-1837	1180	-1837	46.8

DRILL TIME (MIN/FT)

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STONE CORRAL	1180	+697	1180	+697	46.8
BASE/ANHYDRITE	1180	+667	1180	+667	46.8
SALT	1180	+319	1180	+319	46.8
HERINGTON	1180	+149	1180	+149	46.8
WINFIELD	1180	+83	1180	+83	46.8
TOWANDA	1180	+17	1180	+17	46.8
NEVA	1180	-330	1180	-330	46.8
FORAKER	1180	-455	1180	-455	46.8
STOTLER	1180	-715	1180	-715	46.8
TARKIO	1180	-764	1180	-764	46.8
TOPEKA	1180	-920	1180	-920	46.8
HEEBNER SHALE	1180	-1149	1180	-1149	46.8
TORONTO	1180	-1168	1180	-1168	46.8
LANSING	1180	-1197	1180	-1197	46.8
STARK SHALE	1180	-1414	1180	-1414	46.8
ARBuckle	1180	-1837	1180	-1837	46.8

FORMATION

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LANSING
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STARK SHALE
3241 (-1414)

ARBuckle
3664 (-1837)

TOTAL DEPTH
3730 (-1903)

11:52 AM, 30 September 2011

OPERATOR MURFIN DRILLING COMPANY, INC.

LEASE PETERSON # 1-1

LOCATION 840 FNL & 1100 FEL

COUNTY OSBORNE

STATE KANSAS

SEC. 1 **TWSP.** 8S **RGE.** 15W

CONTRACTOR Murfin Drilling Company, P.O. Box 88, Concordia, MO 64501

COMMENCED 22 SEP 2011

COMPLETED 01 OCT 2011

MAJOR CEMENT 22 SEP 2011

MAJOR TYPE Chemical

DRILLING TIME 4:27:00

STARTING TIME 11:52 AM

STOPPING TIME 12:20 PM

STOPPING TIME 12:20 PM

STOPPING TIME 12:20 PM

FORMER WILCOAT

STATE KANSAS

AL. MEASUREMENTS

FROM FROM H.B.

CAINING RECORD

CONSIDER Name

START 8:55 @ 2282'

STOP 4:17 @ 3598'

GL. 1822' FL.

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