API #15-003-22142

Saman Sharifaie
Petroleum Geologist

GEOLOGIST'S REPORT
DRILLING TIME AND SAMPLE LOG

OPERATOR	Lario Oil & Gas Company
LEASE	Dunn Trust
WELL	1
FIELD	Paola-Rantoul S.O.
COUNTY	Franklin
STATE	Kansas
LOCATION	1320' FSL & 1980' FEL
SEC	21
TWP	17S
RGE	20E
ELEVATION	KB: 1000'
COORDINATES	Latitude: 38.5666
	Longitude: -95.2333
SPUD	10/04/13
COMPLETED	10/16/13
TOTAL DEPTH	4607'
DRILLING TIME	10/04/13 - 10/16/13
SAMPLES	2300' - 4607'
MUD	Mud Co. - Tom Wolf
CASING	Surface: 8 5/8" @ 21'
	Production: 5 1/2" @ 4607'
ELECTRICAL SURVEYS	Dual Induction, Dual Compensated Porosity, Borehole Compensated Sonic, Microlog
DST'S	8 - All Open
CORES	None
DRILLING CONTRACTOR	Southwind Drilling, Inc. Rig #1
GEOLOGICAL SUPERVISION	2300' - 4607'
DEGREE OF SUPERVISION	Mudlogging, Sample Description

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REMARKS: Due to fast to great drives of oil in multiple pay zones and positive DST results, it is recommended and agreed upon by all parties that production casing be set to further evaluate the well.

Respectfully Submitted,

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*Tops have been adjusted to electric logs

Curve Track 1
KCF (depth)
Gamma (API)
Caliper (inches)

Curve Track 2
KCF (depth)
Gamma (API)
Caliper (inches)

Formations: Topeka, Lecompton, Oread, Heebner, Toronto, Lansing, Kansas City, Stark, Marmaton, Pawnee, Fort Scott, Cherokee, Mississippian

Depth Track

Geological Descriptions

Engineering Data

Ankyrite 2363 (+622)

Base 2368 (+607)

DAILY PENETRATION
TO 2800 ft
10/02/13 - Started 9:00 PM
10/02/13 - MOC at 224'
10/04/13 - Drilling at 2501'
10/05/13 - Drilling at 2800'
10/06/13 - Testing at 2807'
10/07/13 - Drilling at 4022'
10/08/13 - Drilling at 4207'
10/09/13 - Testing at 4210'
10/10/13 - Drilling at 4414'
10/11/13 - Drilling at 4607'
10/12/13 - CTCH at 4607'

Topeka 3076 (-791)

Lecompton 3309 (-1024)

Oread 3550 (-965)

Heebner 3800 (-1215)

Toronto 3821 (-1236)

Lansing 3928 (-1343)

Kansas City 4262 (-1677)

Stark 4155 (-1270)

BKC 4202 (-1337)

Marmaton 4260 (-1485)

L. Pawnee 4384 (-1609)

Ft Scott 4455 (-1680)

Cherokee 4477 (-1502)

Mississippian 4555 (-1618)

RTD 4600 (-1715)

Morgan Mud @ 3700'
Wt: 9.2
Vis: 45
WL: 8.8
Ch: 1,000
LCM: 4#

DST #1
(LeCompton)
2 TIM - 2000'
30-60-60-90
IF: Weak surf blow, built to 5"
FF: Weak surf blow, built to 10"
Rec: 120' MSGCM (40% OIL)
IFP: 78/94
FFP: 104/125
ISIP: 1080
FSIP: 1080
IHP: 1727
FHP: 1727

Deviation Survey @ 3800' 0.7°

DST #2
(Oread, Heeb & KC)
2 TIM - 2100'
30-60-30-60
IF: Weak surf blow, built to 12"
FF: Weak surf blow, built to 12"
Rec: 120' GCM w/ few oil spots

IFP: 23 - 45
FFP: 45 - 68
ISIP: 1042
FSIP: 1166
IHP: 1727
FHP: 1724
BHT: 110°

Deviation Survey @ 3900' 0.7°

Morgan Mud @ 3730'
Wt: 9.2
Vis: 45
WL: 8.8
Ch: 1,000
LCM: 4#

Plan Rate @ 20MF, 2.10" Long to Board

DST #3
(LKC D-F)
2 TIM - 2100'
30-60-30-60
IF: Weak surf blow, built to 10"
FF: Weak surf blow
Rec: 10' GCM w/ oil spots

IFP: 20 - 23
FFP: 23 - 28
ISIP: 1042
FSIP: 982
IHP: 1727
FHP: 1724
BHT: 108°

Deviation Survey @ 4000' 0.7°

Morgan Mud @ 4047'
Wt: 9.2
Vis: 45
WL: 8.8
Ch: 2,000
LCM: 4#

DST #4
(LKC H-K)
2 TIM - 2100'
30-60-30-60
IF: BOB in 20 S mins
FF: BOB in 28 mins
BH: 2 cm
Rec: 1,000' GCM (10% Total Fluid)
TRIGGER (FFA), PHO, TPHO, TPHO, TPHO (MPHO, FPHO), TPHO, TPHO, TPHO,