DUAL INDUCTION LOG

GEMINI WIRELINE

Company Mikol Oil LLC
Well Lyle Kaster # 1-35
Field Kruger
County Rooks State Kansas

Location: API # : 15 163 24113
115' FNL & 425' FWL
SEC 27 TWP 10S RGE 16W

Other Services
CDNL
ML

Permanent Datum Ground Level Elevation 2046'
Log Measured From KB 8' AGL
Drilling Measured From KB

Elevation
K.B. 2054'
D.F. 2053'
G.L. 2046'

Company	Mikol Oil LLC
Well	Lyle Kaster # 1-35
Field	Kruger
County	Rooks
State	Kansas

Date	4-26-13
Run Number	One
Depth Driller	3651'
Depth Logger	3650'
Bottom Logged Interval	3648'
Top Log Interval	200'
Casing Driller	220'
Casing Logger	222'
Bit Size	7 7/8"
Type Fluid in Hole	Chemical
Density / Viscosity	8.6/56
pH / Fluid Loss	10.0/8.8
Source of Sample	Pit
Rm @ Meas. Temp	.91@66degf
Rmf @ Meas. Temp	.68@66degf
Rmc @ Meas. Temp	1.46@66degf
Source of Rmf / Rmc	Calculated
Rm @ BHT	.54@112degf
Time Circulation Stopped	1:00 a.m.
Time Logger on Bottom	3:20 a.m.
Maximum Recorded Temperature	112degf
Equipment Number	T045
Location	Hays, KS
Recorded By	L. Smith
Witnessed By	Mr. Marc Downing

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All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, damages, or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees. These interpretations are also subject to our general terms and conditions set out in our current Price Schedule.

Comments

Thanks for using Gemini Wireline LLC
785-625-1182

Main Pass

Database File: molylekaster1-35oh.db
Dataset Pathname: pass2.1
Presentation Format: kdillin2
Dataset Creation: Fri Apr 26 04:38:42 2013 by Calc Open-Cased 100827
Charted by: Depth in Feet scaled 1:600

0 GR (GAPI) 150
-200 SP (mV) 0
0 RILD (Ohm-m) 50
0 RLL3 (Ohm-m) 50
1000 CILD (mmho/m) 0
10000 LTEN (lb) 0
50 RILD x 10 (Ohm-m) 500
50 RLL3 x 10 (Ohm-m) 500

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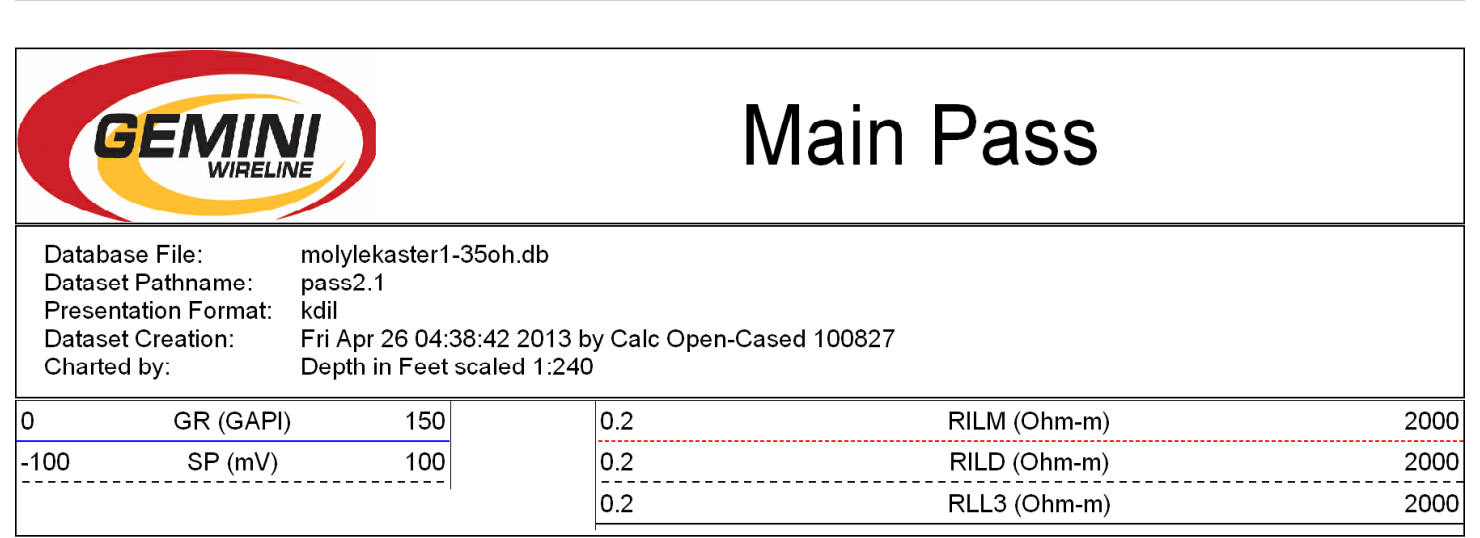
Main Pass

Database File: molylekaster1-35oh.db
Dataset Pathname: pass2.1
Presentation Format: kdil
Dataset Creation: Fri Apr 26 04:38:42 2013 by Calc Open-Cased 100827
Charted by: Depth in Feet scaled 1:240

0 GR (GAPI) 150
-100 SP (mV) 100
0.2 RILM (Ohm-m) 2000
0.2 RILD (Ohm-m) 2000
0.2 RLL3 (Ohm-m) 2000



0 GR (GAPI) 150
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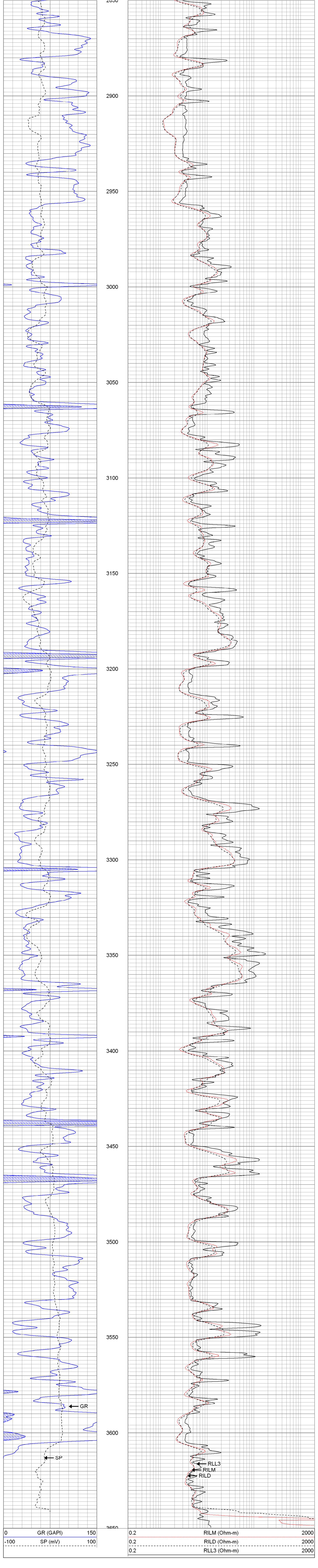
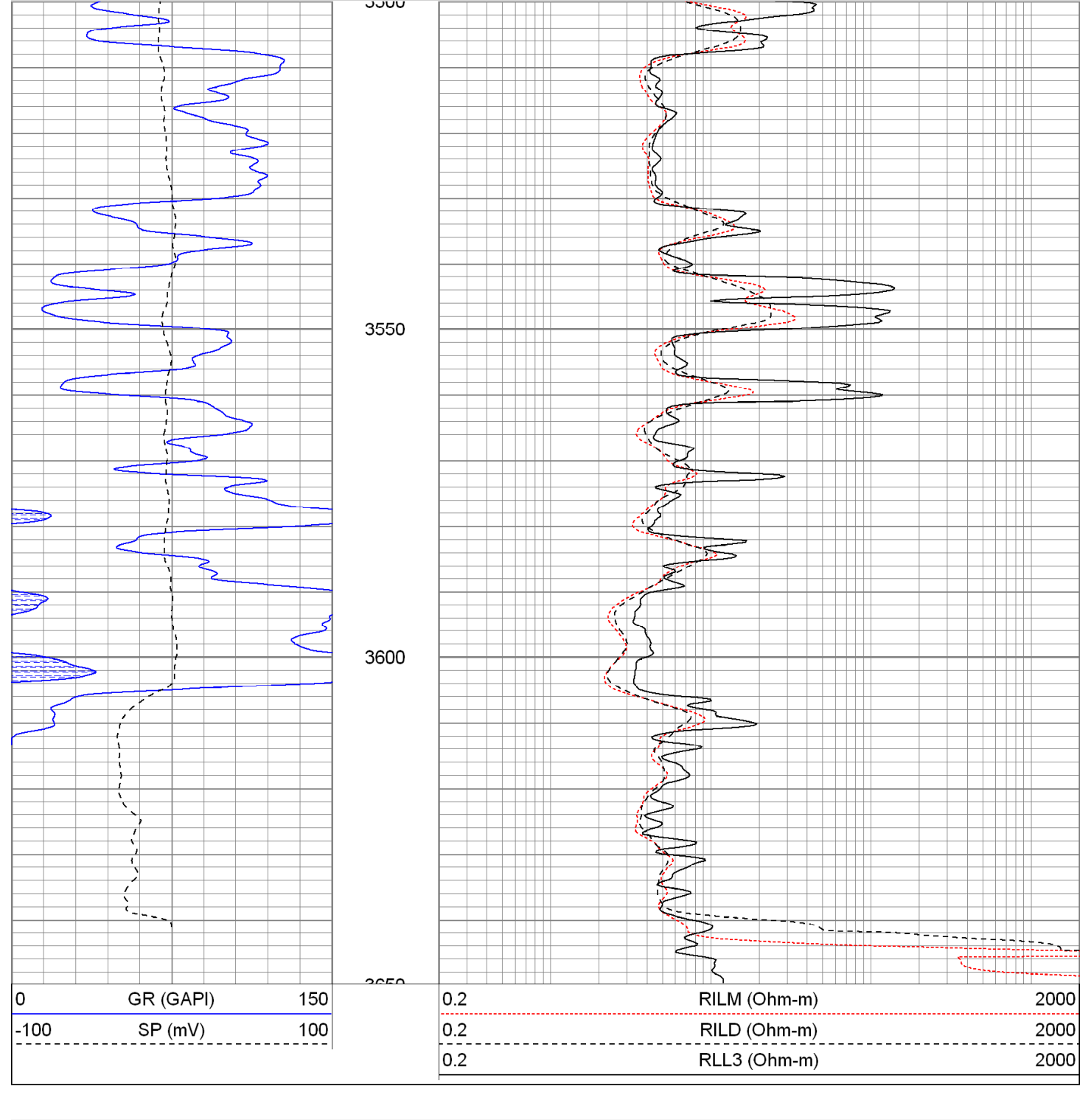


0 GR (GAPI) 150
-100 SP (mV) 100
0.2 RILM (Ohm-m) 2000
0.2 RILD (Ohm-m) 2000
0.2 RLL3 (Ohm-m) 2000

Repeat Pass

Database File: molylekaster1-35oh.db
Dataset Pathname: pass1.1
Presentation Format: kdil
Dataset Creation: Fri Apr 26 04:08:06 2013 by Calc Open-Cased 100827
Charted by: Depth in Feet scaled 1:240

0 GR (GAPI) 150
-100 SP (mV) 100
0.2 RILM (Ohm-m) 2000
0.2 RILD (Ohm-m) 2000
0.2 RLL3 (Ohm-m) 2000



0 GR (GAPI) 150
-100 SP (mV) 100
0.2 RILM (Ohm-m) 2000
0.2 RILD (Ohm-m) 2000
0.2 RLL3 (Ohm-m) 2000

Calibration Report

Database File: molylekaster1-35oh.db
Dataset Pathname: pass1
Dataset Creation: Fri Apr 26 03:29:23 2013 by Log Open-Cased 100827

Dual Induction Calibration Report

Serial-Model: 080522-Probe
Surface Cal Performed: Tue Feb 19 15:32:25 2013
Downhole Cal Performed: Tue Feb 19 15:32:29 2013
After Survey Verification Performed: Tue Feb 19 15:32:30 2013

Surface Calibration

	Readings			References			Results	
Loop:	Air	Loop		Air	Loop		m	b
Deep	0.001	0.638	V	0.000	400.000	mmho/m	628.149	-0.909
Medium	0.003	0.735	V	0.000	464.000	mmho/m	634.133	-1.885
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	0.001	0.639	V	0.000	400.000	mmho/m	627.770	-0.927
Medium	0.003	0.735	V	0.000	464.000	mmho/m	634.038	-1.896

Downhole Calibration

	Readings			References			Results	
	Zero	Cal		Zero	Cal		m'	b'
Deep	-0.587	400.153	mmho/m	0.019	400.261	mmho/m	0.999	0.605
Medium	-0.685	463.926	mmho/m	0.012	464.081	mmho/m	0.999	0.696
LL3		7.259	V		750.000	Ohm-m		
		-0.000	V		12.000	Ohm-m		
		-7.420	V		3745.000	mmho-m		

Compensated Density Calibration Report

Serial-Model: 901-2.75POH
Source / Verifier: /
Master Calibration Performed: Fri Apr 26 03:18:32 2013

Master Calibration

	Density		Far Detector	Near Detector	
Magnesium	1.810	g/cc	969.87	587.14	cps
Aluminum	2.720	g/cc	144.01	266.32	cps

Spine Angle = 67.49
Density/Spine Ratio = 0.441

	Size		Reading	
Small Ring	8.10	in	2.50	V
Large Ring	17.00	in	4.51	V

Neutron Calibration Report

Serial Number: 803
Tool Model: 2.75POH
Performed: Tue Feb 19 15:32:16 2013

Calibrator Value: 1 NAPI

Calibrator Reading: 1 cps

Sensitivity: 1 NAPI/cps

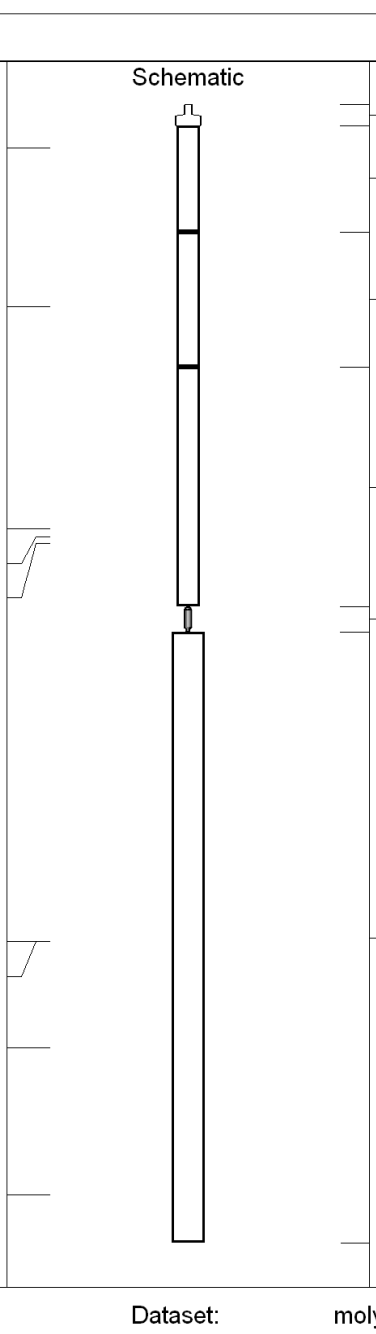
Gamma Ray Calibration Report

Serial Number: 801
Tool Model: 2.75POH
Performed: Fri Apr 26 03:18:40 2013

Calibrator Value: 1.0 GAPI

Background Reading: 0.0 cps
Calibrator Reading: 1.0 cps

Sensitivity: 0.6500 GAPI/cps



Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
			None	0.75	1.50	5.00
GR	38.48		GR-2.75POH (801) Probe	3.73	2.75	43.00
NEU	32.94		NEU-2.75POH (803) Probe Epithermal	4.75	2.75	58.00
			CDL-2.75POH (901) Probe	8.43	2.75	106.00
LSD DCAL SSD	25.11 24.83 24.59		Probe	0.89	3.50	20.00
CILD SP	10.60 10.60		DIL-Probe (080522) Probe Dual Induction	21.47	4.00	345.00
CILM	6.89					
RLL3	1.70					

Dataset: molylekaster1-35oh.db: field/well/run1/pass1
Total Length: 40.01 ft
Total Weight: 577.00 lb
O.D. 4.00 in