The Perforators LLC

DUAL INDUCTION LOG

Company	John O Farmer Inc.
Well	States A #1
Field	Hansen West
County	Phillips
State	Kansas

Company John O Farmer Inc.
Well States A #1
Field Hansen West
County Phillips State Kansas
Location: API #: 15 147 20681
1010' FNL & 1075' FEL
SEC 15 TWP 5S RGE 20W

Other Services
ML
CDNL

Permanent Datum Ground Level Elevation 2130'
Log Measured From KB 5' AGL
Drilling Measured From KB

Elevation
K.B. 2135'
D.F. 2134'
G.L. 2130'

Date	6-20-12
Run Number	One
Depth Driller	3618'
Depth Logger	3619'
Bottom Logged Interval	3617'
Top Log Interval	200'
Casing Driller	219'
Casing Logger	219'
Bit Size	7 7/8"
Type Fluid in Hole	Chemical Mud
Density / Viscosity	9.2/52
pH / Fluid Loss	11.0/8.0
Source of Sample	Pit
Rm @ Meas. Temp	1.8@77degf
Rmf @ Meas. Temp	1.44@77degf
Rmc @ Meas. Temp	2.3@77degf
Source of Rmf / Rmc	Calculated
Rm @ BHT	1.3@106degf
Time Circulation Stopped	3:30 a.m.
Time Logger on Bottom	5:45 a.m.
Maximum Recorded Temperature	106 degf
Equipment Number	T045
Location	Hays, KS.
Recorded By	L. Smith
Witnessed By	Mr. Austin Klaus

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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

Thank you for using The Perforators LLC
Hays, KS (785) 621-4604

The Perforators LLC

Main Pass

Database File: jofstates2#1oh.db
Dataset Pathname: pass2
Presentation Format: kdillin2
Dataset Creation: Wed Jun 20 06:03:21 2012 by Log 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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0 RILD (Ohm-m) 50
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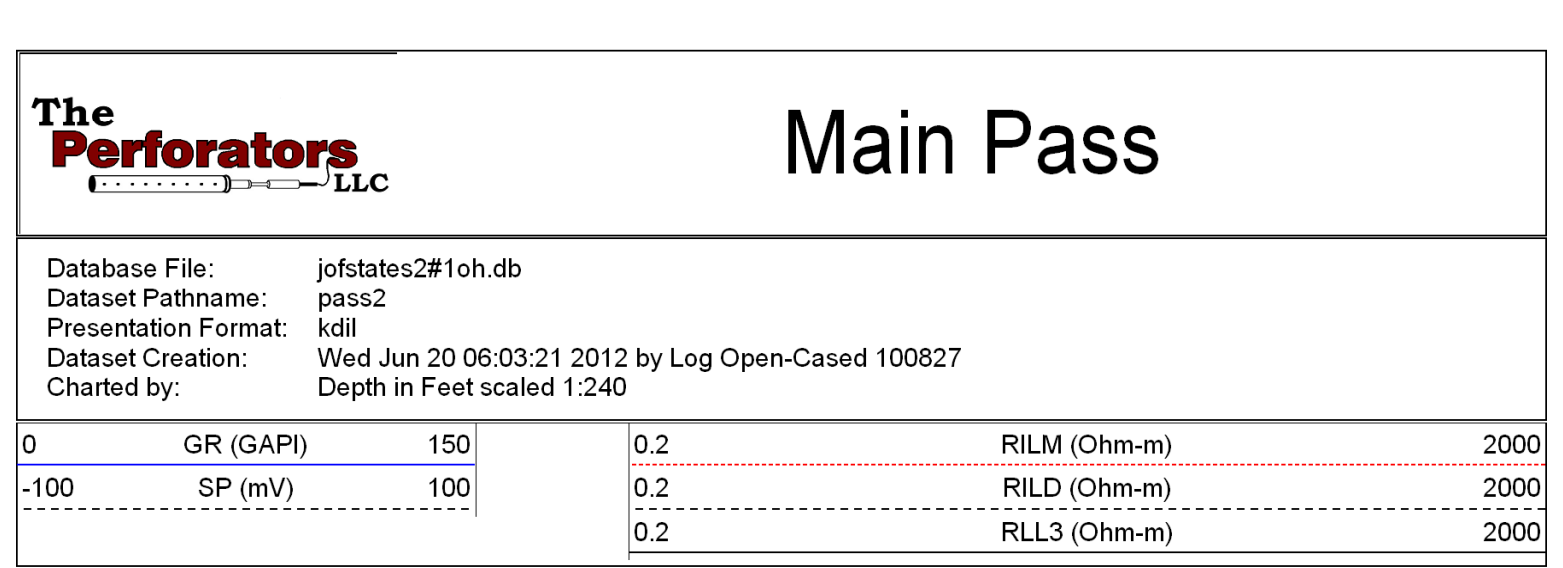
Database File: jofstates2#1oh.db
Dataset Pathname: pass2
Presentation Format: kdil
Dataset Creation: Wed Jun 20 06:03:21 2012 by Log Open-Cased 100827
Charted by: Depth in Feet scaled 1:240

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

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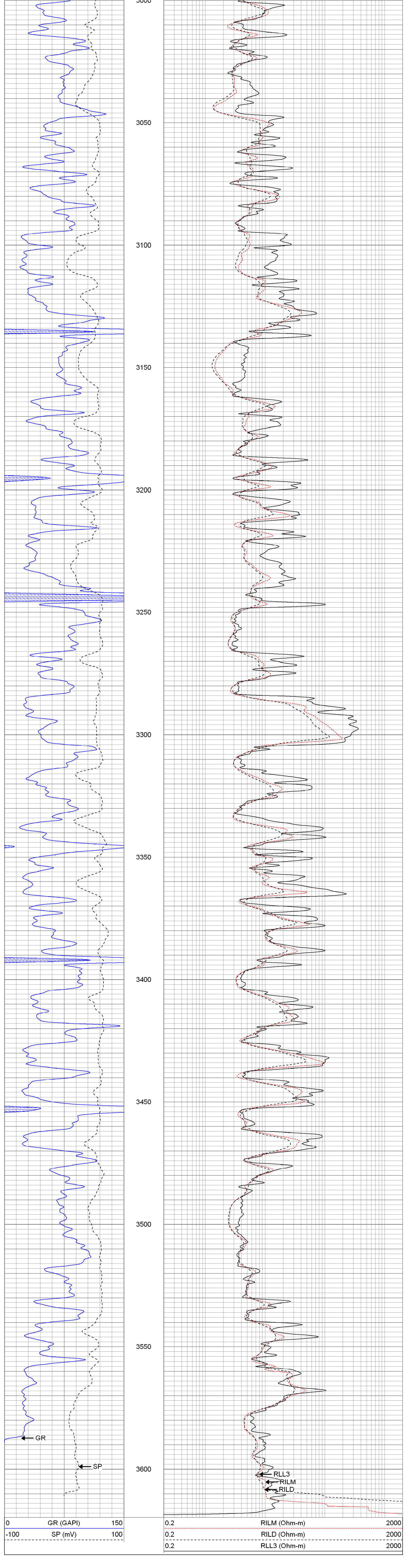

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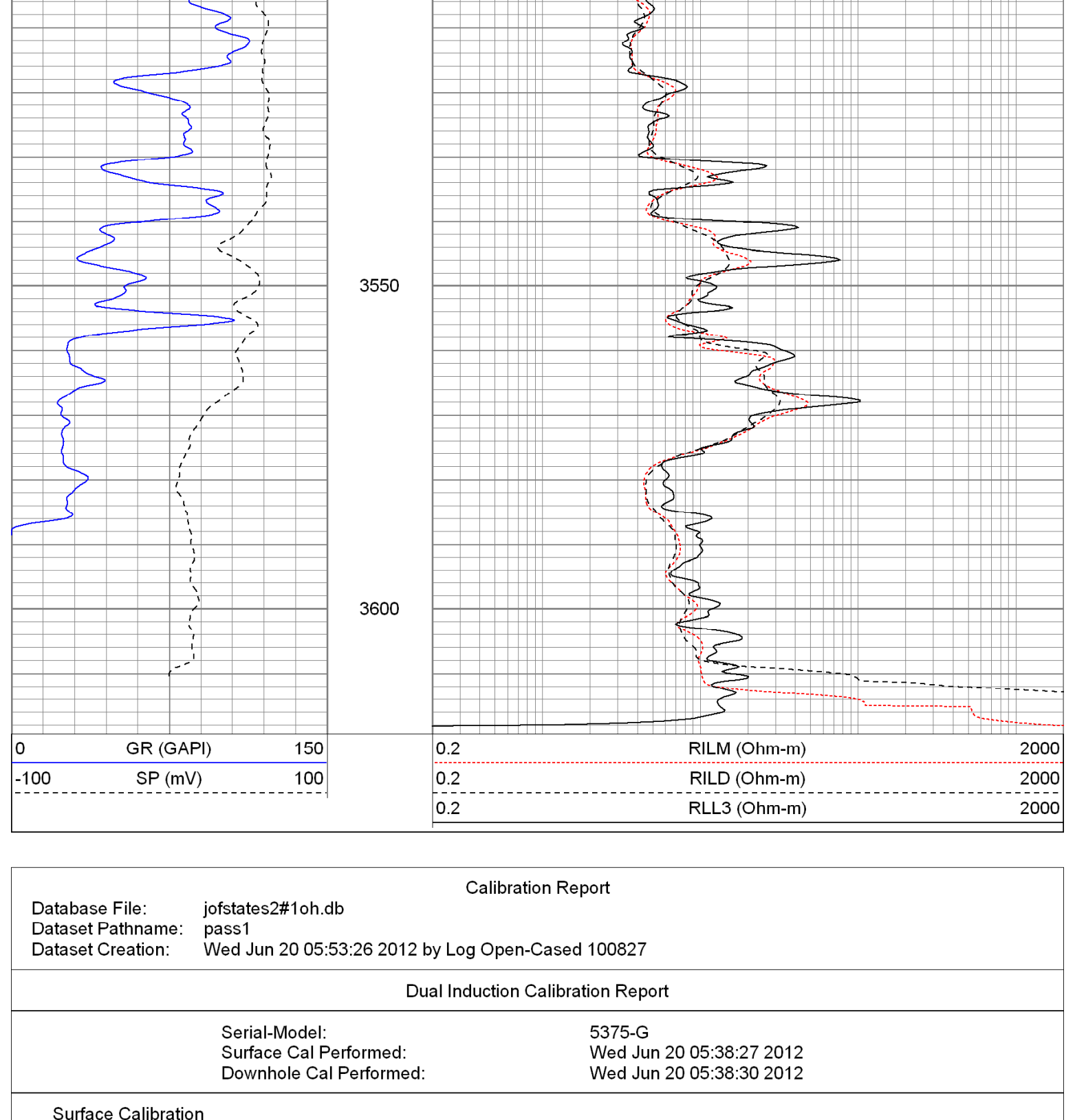
0.2 RILD (Ohm-m) 2000
0.2 RLL3 (Ohm-m) 2000

The Perforators LLC

Repeat Pass

Database File: jofstates2#1oh.db
Dataset Pathname: pass1
Presentation Format: kdil
Dataset Creation: Wed Jun 20 05:53:26 2012 by Log 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: jofstates2#1oh.db
Dataset Pathname: pass1
Dataset Creation: Wed Jun 20 05:53:26 2012 by Log Open-Cased 100827

Dual Induction Calibration Report

Serial-Model: 5375-G
Surface Cal Performed: Wed Jun 20 05:38:27 2012
Downhole Cal Performed: Wed Jun 20 05:38:30 2012

Surface Calibration

	Readings			References			Results	
Loop:	Air	Loop		Air	Loop		m	b
Deep	0.003	0.639	V	0.000	350.000	mmho/m	550.105	-1.380
Medium	0.006	0.742	V	0.000	400.000	mmho/m	543.466	-3.062
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	0.002	0.639	V	0.000	350.000	mmho/m	549.915	-1.269
Medium	0.006	0.742	V	0.000	550.000	mmho/m	747.501	-4.412

Downhole Calibration

	Readings			References			Results	
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	0.017	350.289	mmho/m	-0.111	350.010	mmho/m	1.000	-0.128
Medium	0.093	400.269	mmho/m	0.146	400.020	mmho/m	0.999	0.053
Shallow	2.475	0.011	V	500.000	2.000	Ohm-m	202.160	-0.251

Compensated Density Calibration Report

Serial-Model: 2501DHT-DHT
Source / Verifier: /
Master Calibration Performed: Thu Jun 07 07:55:52 2012

Master Calibration

	Density		Far Detector	Near Detector	
Magnesium	1.750	g/cc	730.34	284.20	cps
Aluminum	2.680	g/cc	135.83	183.82	cps

Spine Angle = 75.48
Density/Spine Ratio = 0.535

	Size		Reading
Small Ring	7.95	in	6064.22
Large Ring	14.00	in	10296.80

Gamma Ray Calibration Report

Serial Number: 2000
Tool Model: P2000
Performed: Tue Jun 19 18:23:04 2012

Calibrator Value: 1.0 GAPI

Background Reading: 0.0 cps
Calibrator Reading: 1.0 cps

Sensitivity: 0.2200 GAPI/cps

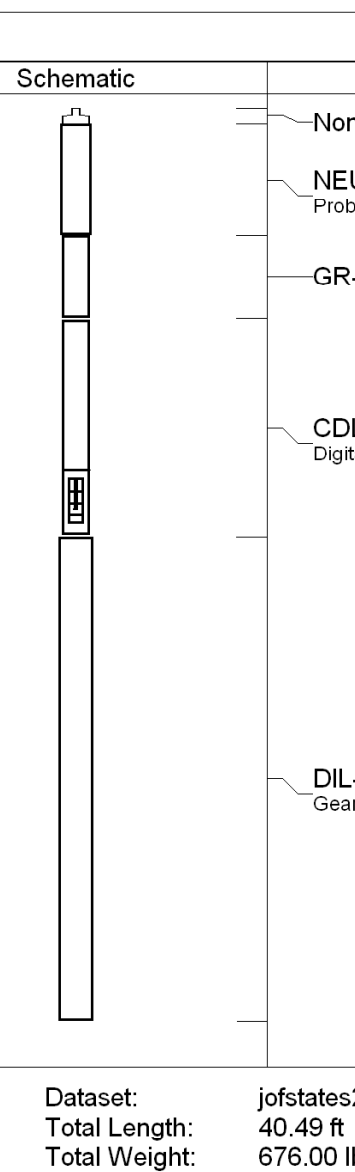
Neutron Calibration Report

Serial Number: 5108
Tool Model: PROBE
Performed: Tue May 29 17:59:56 2012

Calibrator Value: 1 NAPI

Calibrator Reading: 1 cps

Sensitivity: 1 NAPI/cps



Sensor	Offset (ft)	Description	Len (ft)	OD (in)	Wt (lb)
		None	0.75	1.50	5.00
NEU	37.96	NEU-PROBE (5108) Probe	4.92	3.63	85.00
GR	32.57	GR-P2000 (2000)	3.67	3.25	40.00
LSD DCAL SSD HEADVOLT	23.78 23.49 23.24 21.47	CDL-DHT (2501DHT) Digital High Temp CDL Tool	9.69	4.00	201.00
CILD SP CILM RLL3	10.60 10.60 6.89 1.70	DIL-G (5375) Gearhart	21.47	4.00	345.00

Dataset: jofstates2#1oh.db: field/well/run1/pass1
Total Length: 40.49 ft
Total Weight: 676.00 lb
O.D. 4.00 in