



Dual Compensated Porosity Log

Pioneer Energy Services

API No.

15-185-23,903-00-00

Company Knighton Oil Company Inc.

Well Kachelman No. 4

Field Albano West

County Stafford State Kansas

Location 330' FSL & 1350' FEL

Other Services
DIL

Sec: 11 Twp: 25s Rge: 14w

Elevation

Permanent Datum Ground Level Elevation 1962
Log Measured From Kelly Bushing 12 Ft. Above Perm. Datum
Drilling Measured From Kelly Bushing

K.B. 1974
D.F.
G.L. 1962

Date 9/14/2014

Run Number One

Type Log CNL / CDL

Depth Driller 4390

Depth Logger 4390

Bottom Logged Interval 4369

Top Logged Interval 3390

Type Fluid In Hole Chemical

Salinity, PPM CL 5000

Density 9.0

Level Full

Max. Rec. Temp. F 120

Operating Rig Time 2.5 Hours

Equipment -- Location 108 Hays

Recorded By D. Fischer

Witnessed By Dave Montague

Casing Record

Borehole Record

Run No	Bit	From	To	Size	Wgt.	From	To
One	12.25	00	271	8.625	23#	00	271
Two	7.875	271	TD				

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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

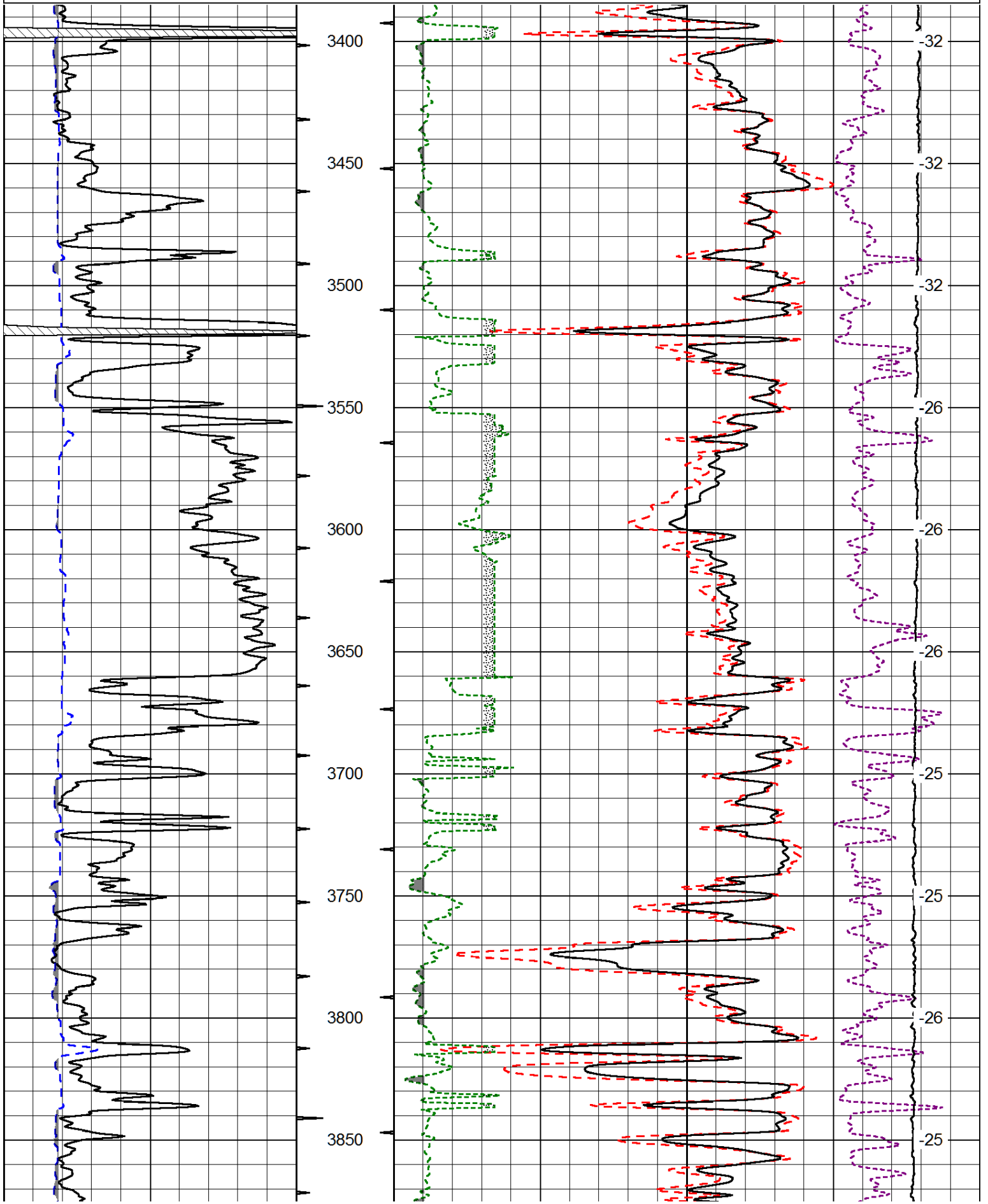
Thank you for using Log-Tech, Inc.
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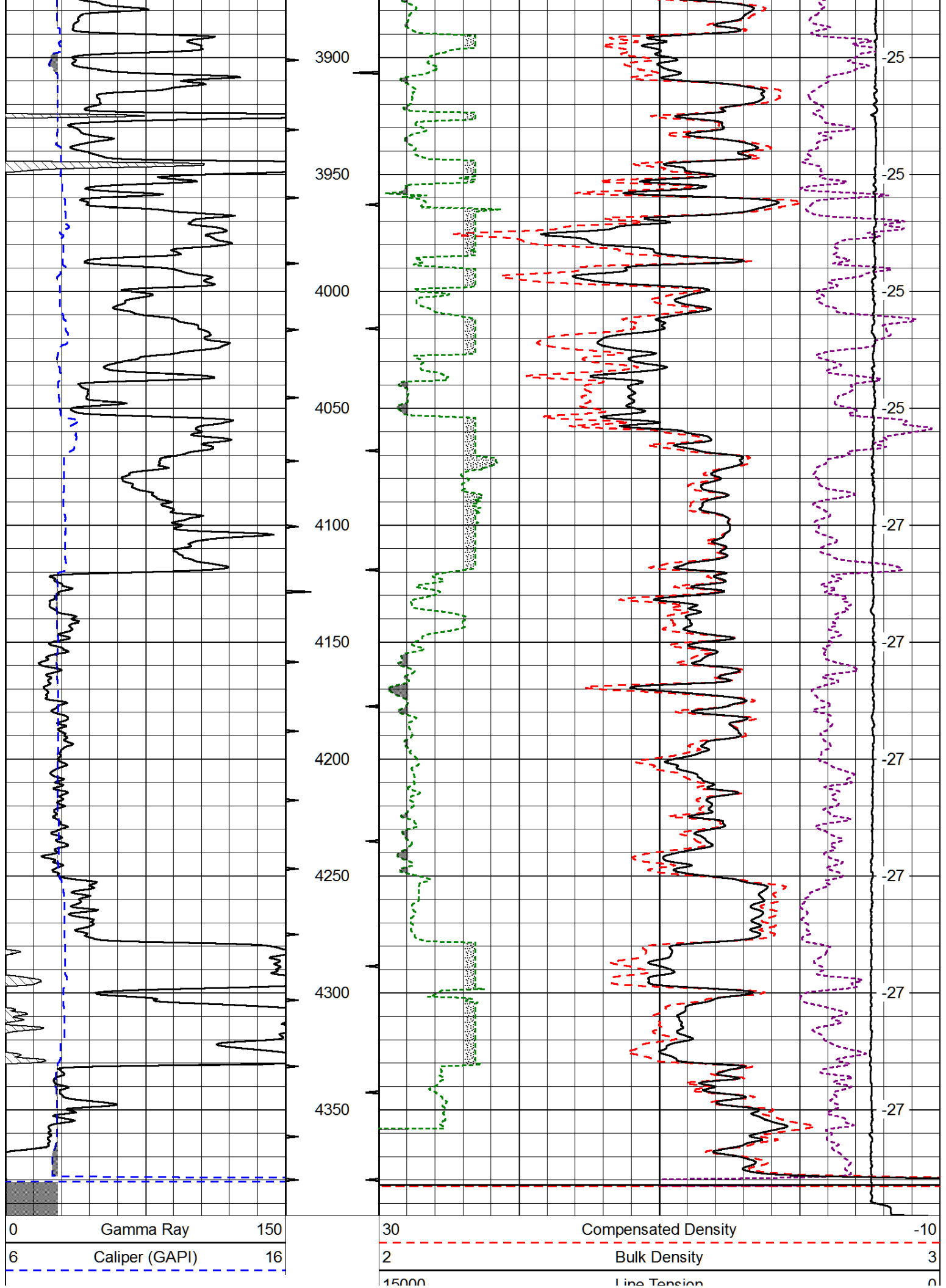
Hwy. 281 & Hwy. 50 Junction, 5 South to 50th Rd., 9.5 West, North Into.

Database File: knighton_oil_kachelman_4hd.db
Dataset Pathname: DIL/knigstck
Presentation Format: cdl
Dataset Creation: Sun Sep 14 17:45:36 2014
Charted by: Depth in Feet scaled 1:600

0	Gamma Ray	150
6	Caliper (GAPI)	16

30	Compensated Density		-10
2	Bulk Density		3
15000	Line Tension		0
2.625	DGA	3.425	-0.25
Correction			0.25
LSPD			





15000	Line Tension		0		
2.625	DGA	3.425	-0.25	Correction	0.25
					LSPD

Database File:	knighton_oil_kachelman_4hd.db
Dataset Pathname:	DIL/knigstck
Presentation Format:	cnlspec
Dataset Creation:	Sun Sep 14 17:45:36 2014
Charted by:	Depth in Feet scaled 1:240

0	Gamma Ray	150	30	CNLS		-10
6	Caliper (GAPI)	16	30	Compensated Density (2.71 ma)		-10
			2.625	DGA	3.425	-0.25
					Correction	0.25
			10000	Line Tension		0
						LSPD

