



Dual Compensated Porosity Log

Pioneer Energy Services

API No.

15-197-20301-00-00

Company **Glacier Petroleum Company, Inc.**

Well **Olsen #9**

Field **Asburn North**

County **Wabaunsee** State **Kansas**

Location **3795' FSL & 1980' FEL**

Other Services
DIL

Sec: **20** Twp: **14S** Rge: **10E**

Elevation

Permanent Datum
Log Measured From
Drilling Measured From

K.B. 1537
D.F.
G.L. 1527

Ground Level
Kelly Bushing
Kelly Bushing

Elevation 1527
10 Ft. Above Perm. Datum

Date **9/25/2014**

Run Number **One**

Type Log **CNL / CDL**

Depth Driller **3470**

Depth Logger **3462**

Bottom Logged Interval **3460**

Top Logged Interval **2800**

Type Fluid In Hole **Chemical**

Salinity, PPM CL **800**

Density **9.4**

Level **Full**

Max. Rec. Temp. F **113**

Operating Rig Time **3 Hours**

Equipment -- Location **91 Hays**

Recorded By **D. Schmidt**

Witnessed By **Pat Deenhan**

Borehole Record

Casing Record

Run No	Bit	From	To	Size	Wgt.	From	To
One	12.25	00	352	8.625	23#	00	352
Two	7.875	352	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.

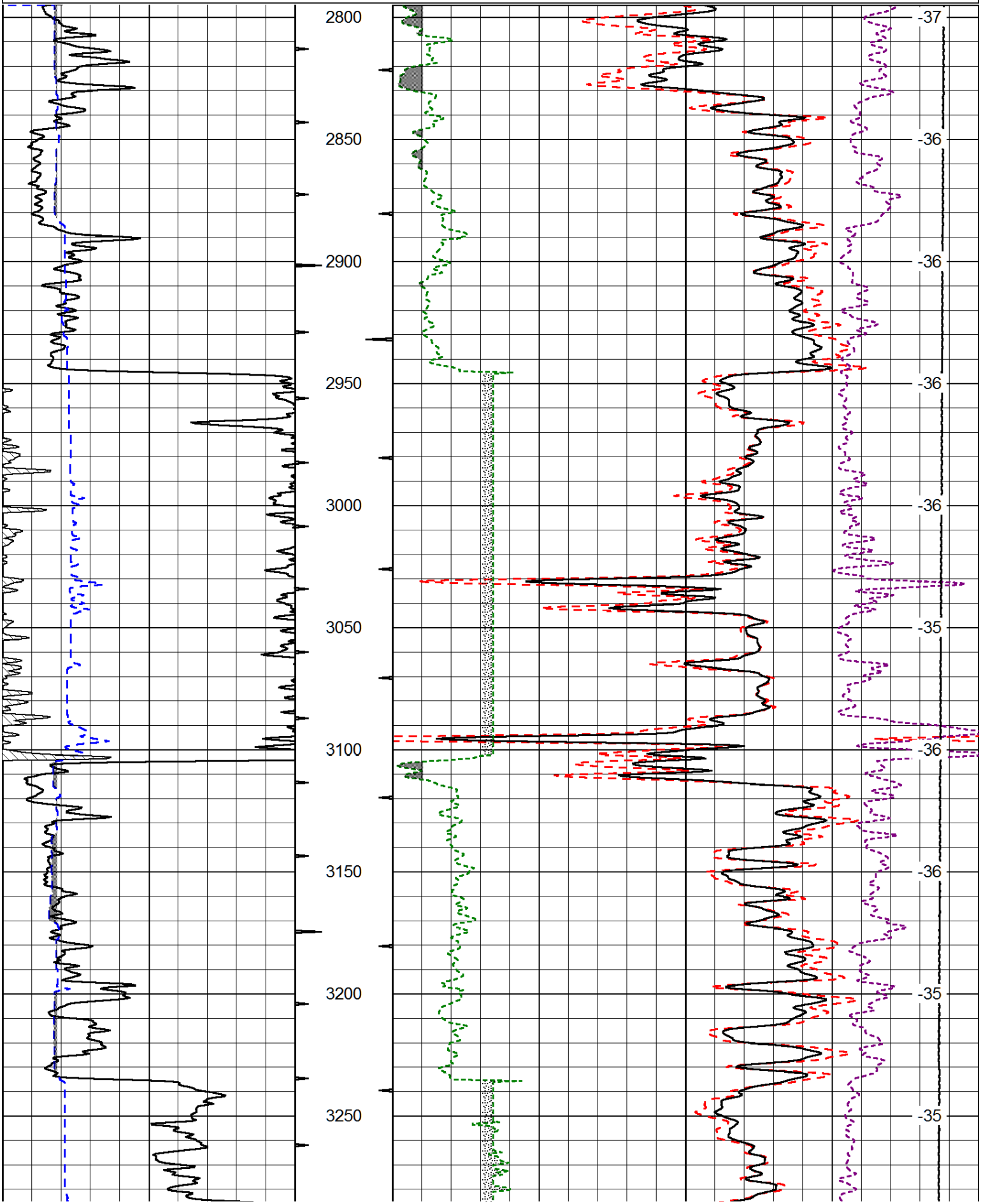
Comments

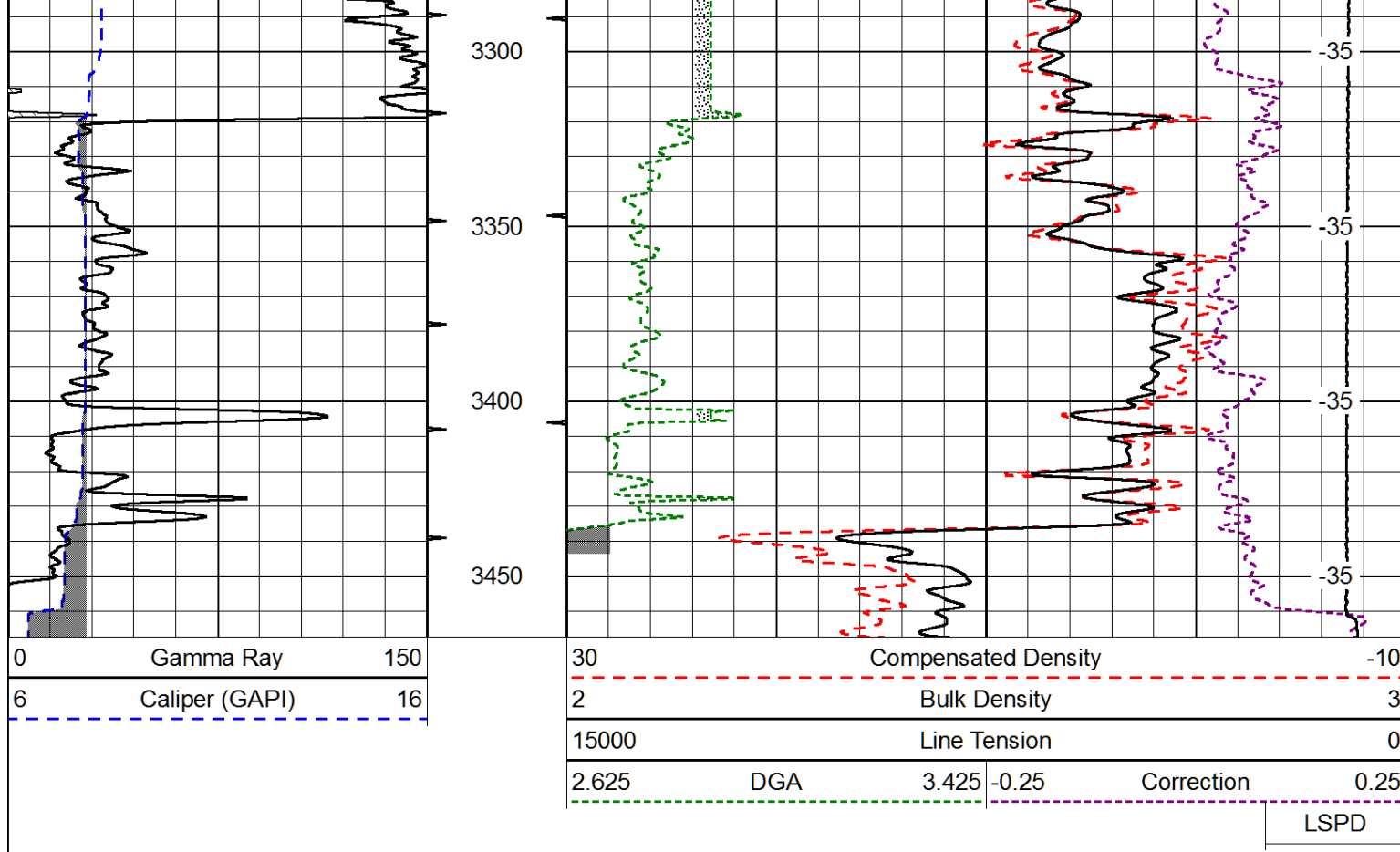
Thank you for using Log-Tech, Inc.
(785) 625-3858
Alta Vista,
East on Hwy 4 to North Pole Rd, 3 South to Emanuel Rd,
1 East to curve, continue East for 2 miles, 1 North at the T, 1/4 West,
South into

Database File: glacier_olsen_9hd.db
Dataset Pathname: dil/glstack
Presentation Format: cdl
Dataset Creation: Thu Sep 25 22:17:45 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			





Database File: glacier_olsen_9hd.db
 Dataset Pathname: dil/glstack
 Presentation Format: cndlspec
 Dataset Creation: Thu Sep 25 22:17:45 2014
 Charted by: Depth in Feet scaled 1:240

