



COMPENSATED DENSITY/NEUTRON LOG

Company: STAAB OIL COMPANY
Well: HAINES #1

Field: HAINES #1
County: ROOKS
State: KANSAS

Location: 785 FNL & 975 FWL
API #: 15-16324315-0000
DILMEL

Company: STAAB OIL COMPANY
Well: HAINES #1
Field: HAINES #1
County: ROOKS
State: KANSAS

Date: 8/15/16
Run Number: ONE
Depth Logger: 3440
Tool Jointed Interval: 2800
Casing Depth: 8' @ 214'

Permit Date: 1937
Log Measured From: KELLY BUSHING 5' A.G.L.
Drilling Measured From: KELLY BUSHING
Elevation: K.B. 1942
D.F. 1840
G.L. 1837

Chemical Mud: CHEMICAL MUD
Type Fluid in Hole: 9.1157
Density / Viscosity: 10.668
pH / Fluid Loss: FLOWLINE
Source of Sample: 802 @ 85F
Run @ Meas. Temp: 74 @ 85F
Run @ Meas. Time: 74 @ 85F
Source of Run / Run: MEASUREMENT
Run @ BHT: 50 @ 111F
Time Circulation Stopped: 2 HOURS
Time Logger on Bottom: 6:45 A.M.
Maximum Recorded Temperature: 111F
Equipment Number: 3802
Recorded By: HAYS, JANSNS
JANET STAB

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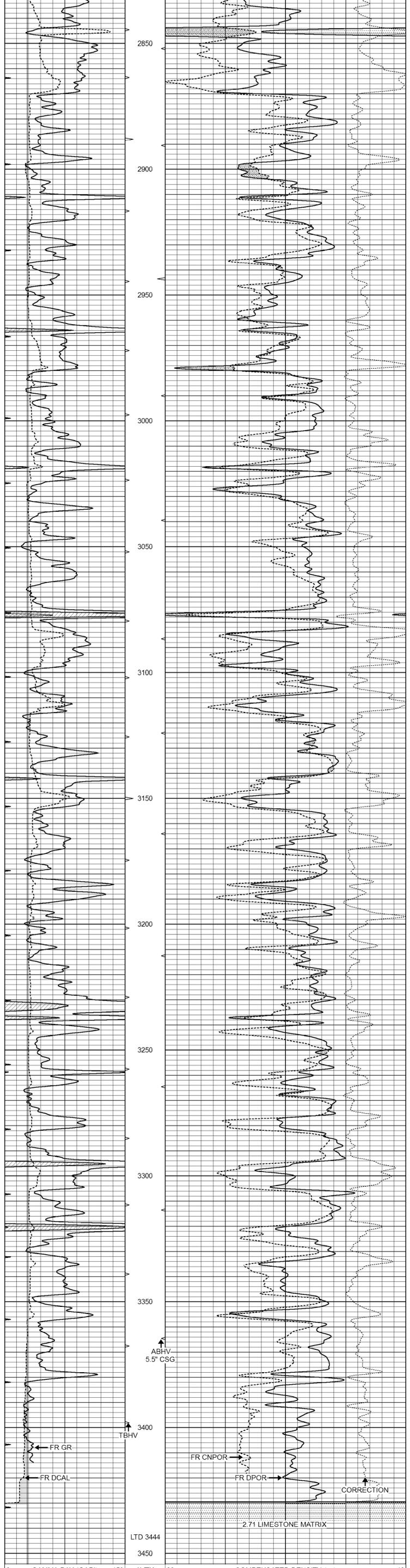
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, 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 ELI WIRELINE SERVICES, HAYS, KS. (785) 628-6395
DIRECTIONS
PLAINVILLE, KS. - AT STOP LIGHT GO 9 NORTH TO N. TERRA RD. - 1 WEST TO FORK
1/2 SOUTH - 2 1/2 WEST - 3/4 NORTH - EAST INTO

MAIN SECTION

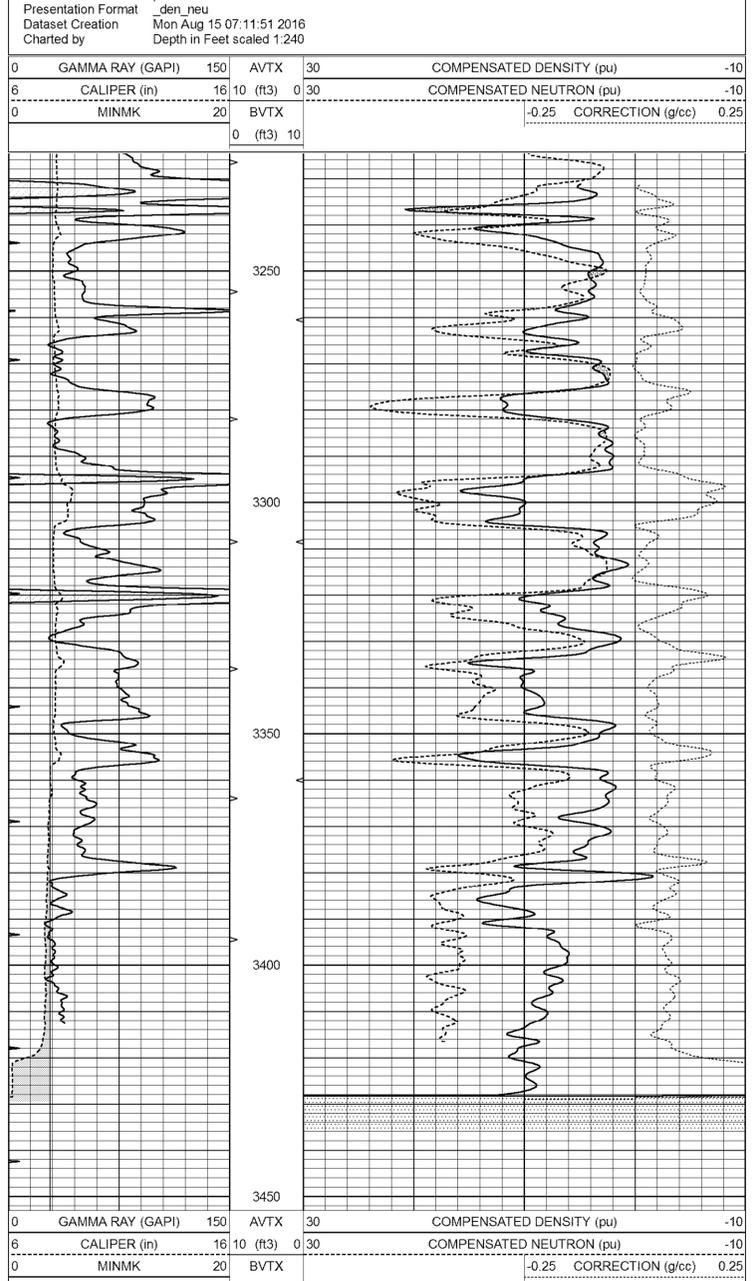
Database File: 31277ddn8.db
Dataset Pathname: pass3.1
Presentation Format: _den_neu
Dataset Creation: Mon Aug 15 07:19:30 2016
Charted by: Depth in Feet scaled 1:240



0 GAMMA RAY (GAPI) 150 AVTX 30 COMPENSATED DENSITY (pu) -10
6 CALIPER (in) 16 10 (ft3) 0 30 COMPENSATED NEUTRON (pu) -10
0 MINMK 20 BVTX 0.25 CORRECTION (g/cc) 0.25
0 (ft3) 10

REPEAT SECTION

Database File: 31277ddn8.db
Dataset Pathname: pass2.1
Presentation Format: _den_neu
Dataset Creation: Mon Aug 15 07:11:51 2016
Charted by: Depth in Feet scaled 1:240



0 GAMMA RAY (GAPI) 150 AVTX 30 COMPENSATED DENSITY (pu) -10
6 CALIPER (in) 16 10 (ft3) 0 30 COMPENSATED NEUTRON (pu) -10
0 MINMK 20 BVTX 0.25 CORRECTION (g/cc) 0.25
0 (ft3) 10

Calibration Report

Database File: 31277ddn8.db
Dataset Pathname: pass3.1
Dataset Creation: Mon Aug 15 07:19:30 2016

Dual Induction Calibration Report

Serial-Model: FW1410-55-Probe
Surface Cal Performed: Thu Mar 12 09:27:11 2015
Downhole Cal Performed: Thu Mar 12 09:29:20 2015
After Survey Verification Performed: Thu Mar 12 09:29:20 2015

Surface Calibration

Loop:	Readings		References	Results	
	Air	Loop		m	b
Deep	0.011	0.656	1.000	400.000	mmho/m 618.595
Medium	-0.000	0.731	1.000	464.000	mmho/m 632.856
Internal:	Zero	Cal	Zero	Cal	m b
Deep	0.007	0.649	0.000	400.000	mmho/m 623.784
Medium	0.004	0.743	0.000	464.000	mmho/m 627.284

Downhole Calibration

Loop:	Readings		References	Results	
	Zero	Cal		m'	b'
Deep	-0.824	395.917	-0.976	397.550	mmho/m 1.004
Medium	3.565	471.327	3.468	471.590	mmho/m 1.001
LL3		7.503		1500.000	Ohm-m
		0.001		20.000	Ohm-m
		-7.481		3745.000	mmho-m

After Survey Verification

Loop:	Readings		Targets	Results	
	Zero	Cal		m'	b'
Deep	0.000	0.000	-0.824	395.917	mmho/m 1.000
Medium	0.000	0.000	3.565	471.327	mmho/m 1.000
LL3		0.000		1500.000	Ohm-m
		0.000		20.000	Ohm-m
		0.000		3745.000	mmho-m

Litho Density Calibration Report

Serial: 140703
Model: V4_10P
Source Number: 74GBq-19

Master Calibration

Window	Background	Aluminum		Magnesium	
		cps	g/cc	cps	b/e
Window 1	584.39	6349.98	29204.00	6349.98	29204.00
Window 2	47.14	1460.46	7334.94	47.14	7334.94
Window 4	261.52	1478.45	6338.23	261.52	6338.23
Window 5	633.19	10381.10	19565.80	633.19	19565.80
Window 6	49.78	1758.01	3436.39	49.78	3436.39
Window 8	302.39	3297.16	6093.06	302.39	6093.06
Bulk Density	-	2.6020	1.6830	-	g/cc
Pe	-	3.0000	2.5070	-	b/e
LS Alpha:	-1.8570	SS Alpha:	-0.7600	LS CPE:	1.1652
LS Beta:	157430.0395	SS Beta:	22665.8398	SS CPE:	1.4739

Before Survey Background Counts Verification

Window	Counts	Unit
Window 1	0.00	cps
Window 2	0.00	cps
Window 4	0.00	cps
Window 5	0.00	cps
Window 6	0.00	cps
Window 8	0.00	cps

After Survey Background Counts Verification

Window	Counts	Unit
Window 1	0.00	cps
Window 2	0.00	cps
Window 4	0.00	cps
Window 5	0.00	cps
Window 6	0.00	cps
Window 8	0.00	cps

Lithodensity Caliper Calibration

Results	Readings	References (in)	Gain	Offset
Low	5280.9	8.6	0.0	1.2
High	9455.1	14.0		

Before Survey Caliper Verification

Reference	Reading
Caliper (in)	

After Survey Caliper Verification

Reference	Reading
Caliper (in)	

Compensated Neutron Calibration Report

Serial Number: 090621PMC
Tool Model: NABORS

PRE-SURVEY VERIFICATION

Detector	Readings	Measured	Target
Short Space	cps	pu	pu
Long Space	cps	pu	pu

POST-SURVEY VERIFICATION

Detector	Readings	Measured	Target
Short Space	cps	pu	pu
Long Space	cps	pu	pu

Gamma Ray Calibration Report

Serial Number: 070558
Tool Model: Probe1
Performed: Wed Jun 29 08:29:10 2016

Calibrator Value: 1.0 GAPI

Background Reading: 0.0 cps

Calibrator Reading: 1.0 cps

Sensitivity: 0.3000 GAPI/cps