Company	MUSTANG ENERGY CORPORATION
Well	MILLER/MOSSBURGH UNIT #1
Field	
County	NESS
State	KANSAS

COMPENSATED DENSITY/NEUTRON LOG

Company MUSTANG ENERGY CORPORATION
Well MILLER/MOSSBURGH UNIT #1
Field
County NESS State KANSAS

Location: API # : 15-135-25925-0000
1120' FSL & 190' FEL
SEC 34 TWP 19S RGE 22W

Other Services
DIL/MEL
SONIC

Permanent Datum GROUND LEVEL Elevation 2276
Log Measured From KELLY BUSHING 11' A.G.L
Drilling Measured From KELLY BUSHING

Elevation
K.B. 2287
D.F. 2285
G.L. 2276

Date	10/4/16		
Run Number	ONE		
Depth Driller	4480		
Depth Logger	4477		
Bottom Logged Interval	4453		
Top Log Interval	3500		
Casing Driller	8 5/8 @ 225'		
Casing Logger	225		
Bit Size	7 7/8		
Type Fluid in Hole	CHEMICAL MUD	CHLORIDES 3600 PPM	
Density / Viscosity	9.4/51		
pH / Fluid Loss	9.0/9.6		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	.40 @ 75F		
Rmf @ Meas. Temp	.30 @ 75F		
Rmc @ Meas. Temp	.48 @ 75F		
Source of Rmf / Rmc	MEASUREMENT		
Rm @ BHT	.25 @ 120F		
Time Circulation Stopped	2 HOURS		
Time Logger on Bottom			
Maximum Recorded Temperature	120F		
Equipment Number	3802		
Location	HAYS, KANSAS		
Recorded By	JASON CAPPELLUCCI	JUSTIN HENRICKSON	
Witnessed By	JEFF LAWLER		

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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
BAZINE, KS. - 2 WEST TO BB RD. - 6 1/2 SOUTH - WEST INTO

MAIN SECTION

Database File 31288ddn8.db
Dataset Pathname pass3.1
Presentation Format _den_neu
Dataset Creation Tue Oct 04 06:57:41 2016
Charted by Depth in Feet scaled 1:240

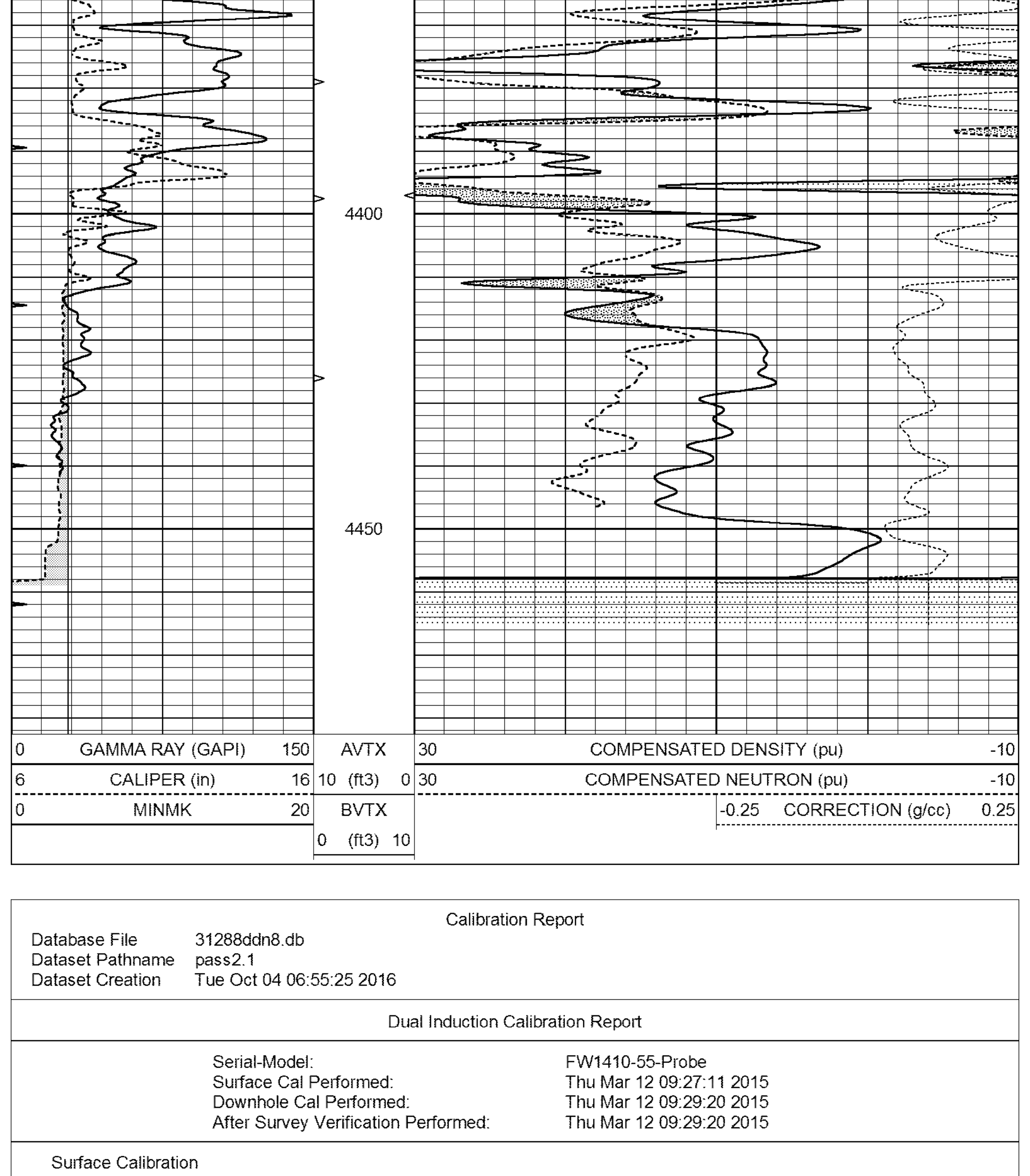
0	GAMMA RAY (GAPI)	150	AVTX	30	COMPENSATED DENSITY (pu)		-10
6	CALIPER (in)	16	10 (ft3) 0	30	COMPENSATED NEUTRON (pu)		-10
0	MINMK	20	BVTX		-0.25	CORRECTION (g/cc)	0.25
			0 (ft3) 10				

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 31288ddn8.db
Dataset Pathname pass2.1
Presentation Format _den_neu
Dataset Creation Tue Oct 04 06:55:25 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				



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 31288ddn8.db
Dataset Pathname pass2.1
Dataset Creation Tue Oct 04 06:55:25 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

	Readings			References			Results	
Loop:	Air	Loop		Air	Loop		m	b
Deep	0.011	0.656	V	1.000	400.000	mmho/m	618.595	-5.524
Medium	-0.000	0.731	V	1.000	464.000	mmho/m	632.856	1.197
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	0.007	0.649	V	0.000	400.000	mmho/m	623.784	-4.595
Medium	0.004	0.743	V	0.000	464.000	mmho/m	627.284	-2.251

Downhole Calibration

	Readings			References			Results	
	Zero	Cal		Zero	Cal		m'	b'
Deep	-0.824	395.917	mmho/m	-0.976	397.592	mmho/m	1.004	-0.149
Medium	3.565	471.327	mmho/m	3.468	471.590	mmho/m	1.001	-0.099
LL3		7.503	V		1500.000	Ohm-m		
		0.001	V		20.000	Ohm-m		
		-7.481	V		3745.000	mmho-m		

After Survey Verification

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

Litho Density Calibration Report

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

Master Calibration Performed: Wed Feb 11 16:57:09 2015

	Background	Aluminum	Magnesium	
Window 1	594.39	6349.98	29204.00	cps
Window 2	47.14	1460.46	7334.94	cps
Window 4	261.52	1478.45	6338.23	cps
Window 5	633.19	10381.10	19565.80	cps
Window 6	49.78	1758.01	3436.39	cps
Window 8	302.39	3297.16	6093.06	cps
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 Backround Counts Verification Performed: Wed Dec 31 18:00:00 1969

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 Performed: Wed Dec 31 18:00:00 1969

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 Performed: Wed Feb 11 16:57:09 2015

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

Before Survey Caliper Verification Performed:

	Reference	Reading
Caliper (in)		

After Survey Caliper Verification Performed:

	Reference	Reading
Caliper (in)		

Compensated Neutron Calibration Report

Serial Number: 080621PMC
Tool Model: NABORS

PRE-SURVEY VERIFICATION

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

POST-SURVEY VERIFICATION

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

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