

PHOENIX SURVEYS, INC.

COMPENSATED DENSITY  
COMPENSATED NEUTRON  
DUAL INDUCTION

Company  
Well  
Field  
County

Merit Energy Company  
Frank 6LL  
Wattenberg  
Weld

Location  
SHL: 2000 FNL & 893 FWL  
BHL: 2539 FNL & 1502 FWL  
SE NW Sec 32, Twp 4N, Rge. 69W  
Weld

State/Province  
Colorado

Company  
Well  
Field  
County

Merit Energy Company  
Frank 6LL  
Wattenberg  
Weld

Location  
SHL: 2000 FNL & 893 FWL  
BHL: 2539 FNL & 1502 FWL  
SE NW Sec 32, Twp 4N, Rge. 69W  
Weld

State/Province  
Colorado

Log Measurement  
Log Measurement From  
Log Measurement To  
Log Measurement To

KB  
KB  
KB  
KB

Log Measurement  
Log Measurement From  
Log Measurement To  
Log Measurement To

KB  
KB  
KB  
KB

Run Number  
Run Number  
Run Number  
Run Number

1  
1  
1  
1

Run Number  
Run Number  
Run Number  
Run Number

1  
1  
1  
1

Date  
Date  
Date  
Date

February 17, 2007  
February 17, 2007  
February 17, 2007  
February 17, 2007

Date  
Date  
Date  
Date

February 17, 2007  
February 17, 2007  
February 17, 2007  
February 17, 2007

Depth (m)  
Depth (m)  
Depth (m)  
Depth (m)

7541  
7541  
7541  
7541

Depth (m)  
Depth (m)  
Depth (m)  
Depth (m)

7541  
7541  
7541  
7541

Bottom Log Interval  
Bottom Log Interval  
Bottom Log Interval  
Bottom Log Interval

7542  
7542  
7542  
7542

Bottom Log Interval  
Bottom Log Interval  
Bottom Log Interval  
Bottom Log Interval

7542  
7542  
7542  
7542

Casing Diameter  
Casing Diameter  
Casing Diameter  
Casing Diameter

588  
588  
588  
588

Casing Diameter  
Casing Diameter  
Casing Diameter  
Casing Diameter

588  
588  
588  
588

Blue Size  
Blue Size  
Blue Size  
Blue Size

7-7/8  
7-7/8  
7-7/8  
7-7/8

Blue Size  
Blue Size  
Blue Size  
Blue Size

7-7/8  
7-7/8  
7-7/8  
7-7/8

Type Fluid in Hole  
Type Fluid in Hole  
Type Fluid in Hole  
Type Fluid in Hole

Crude Oil  
Crude Oil  
Crude Oil  
Crude Oil

Type Fluid in Hole  
Type Fluid in Hole  
Type Fluid in Hole  
Type Fluid in Hole

Crude Oil  
Crude Oil  
Crude Oil  
Crude Oil

API Gravity  
API Gravity  
API Gravity  
API Gravity

65.8  
65.8  
65.8  
65.8

API Gravity  
API Gravity  
API Gravity  
API Gravity

65.8  
65.8  
65.8  
65.8

Source of Sample  
Source of Sample  
Source of Sample  
Source of Sample

Flowline  
Flowline  
Flowline  
Flowline

Source of Sample  
Source of Sample  
Source of Sample  
Source of Sample

Flowline  
Flowline  
Flowline  
Flowline

Rm @ Mass Temp  
Rm @ Mass Temp  
Rm @ Mass Temp  
Rm @ Mass Temp

3.55 @ 75 F  
3.55 @ 75 F  
3.55 @ 75 F  
3.55 @ 75 F

Rm @ Mass Temp  
Rm @ Mass Temp  
Rm @ Mass Temp  
Rm @ Mass Temp

3.55 @ 75 F  
3.55 @ 75 F  
3.55 @ 75 F  
3.55 @ 75 F

Rm @ Mass Temp  
Rm @ Mass Temp  
Rm @ Mass Temp  
Rm @ Mass Temp

4.02 @ 75 F  
4.02 @ 75 F  
4.02 @ 75 F  
4.02 @ 75 F

Rm @ Mass Temp  
Rm @ Mass Temp  
Rm @ Mass Temp  
Rm @ Mass Temp

4.02 @ 75 F  
4.02 @ 75 F  
4.02 @ 75 F  
4.02 @ 75 F

Source of Rm / RmC  
Source of Rm / RmC  
Source of Rm / RmC  
Source of Rm / RmC

Measure / Calc  
Measure / Calc  
Measure / Calc  
Measure / Calc

Source of Rm / RmC  
Source of Rm / RmC  
Source of Rm / RmC  
Source of Rm / RmC

Measure / Calc  
Measure / Calc  
Measure / Calc  
Measure / Calc

Rm @ RmC  
Rm @ RmC  
Rm @ RmC  
Rm @ RmC

12.1 @ 159 F  
12.1 @ 159 F  
12.1 @ 159 F  
12.1 @ 159 F

Rm @ RmC  
Rm @ RmC  
Rm @ RmC  
Rm @ RmC

12.1 @ 159 F  
12.1 @ 159 F  
12.1 @ 159 F  
12.1 @ 159 F

Rm @ RmC  
Rm @ RmC  
Rm @ RmC  
Rm @ RmC

12.1 @ 159 F  
12.1 @ 159 F  
12.1 @ 159 F  
12.1 @ 159 F

Rm @ RmC  
Rm @ RmC  
Rm @ RmC  
Rm @ RmC

12.1 @ 159 F  
12.1 @ 159 F  
12.1 @ 159 F  
12.1 @ 159 F

Maximum Recorded Temperature  
Maximum Recorded Temperature  
Maximum Recorded Temperature  
Maximum Recorded Temperature

159 F  
159 F  
159 F  
159 F

Maximum Recorded Temperature  
Maximum Recorded Temperature  
Maximum Recorded Temperature  
Maximum Recorded Temperature

159 F  
159 F  
159 F  
159 F

Equipment Number  
Equipment Number  
Equipment Number  
Equipment Number

4400  
4400  
4400  
4400

Equipment Number  
Equipment Number  
Equipment Number  
Equipment Number

4400  
4400  
4400  
4400

Location  
Location  
Location  
Location

Brighton, CO  
Brighton, CO  
Brighton, CO  
Brighton, CO

Location  
Location  
Location  
Location

Brighton, CO  
Brighton, CO  
Brighton, CO  
Brighton, CO

Recorded By  
Recorded By  
Recorded By  
Recorded By

Frank Holbert  
Frank Holbert  
Frank Holbert  
Frank Holbert

Recorded By  
Recorded By  
Recorded By  
Recorded By

Frank Holbert  
Frank Holbert  
Frank Holbert  
Frank Holbert

Unvised By  
Unvised By  
Unvised By  
Unvised By

Matt Gill  
Matt Gill  
Matt Gill  
Matt Gill

Unvised By  
Unvised By  
Unvised By  
Unvised By

Matt Gill  
Matt Gill  
Matt Gill  
Matt Gill

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

Annular volume calculated for 4-1/2" casing  
Patterson UTI Rig 103  
Thank you for using Phoenix Surveys!!  
API #: 05-123-27375-00  
No repeat pass due to excessive weight pulled off bottom

Database File:	6853.db	Dataset Pathname:	final	Presentation Format:	pd1	Dataset Creation:	Sat Feb 17 13:22:56 2007	Charted by:	Depth in Feet scaled 1:240
6	Density Caliper (in)	16	2	Deep Resistivity (Ohm-m)	200	20	Density Porosity (pu)	0	
30	Gamma Ray (GAPI)	130	2	Medium Resistivity (Ohm-m)	200	20	Neutron Porosity (pu)	0	
60	SP (mV)	160	2	Shallow Resistivity (Ohm-m)	200	20			

Log plot showing Density Caliper, Gamma Ray, SP, Deep Resistivity, Medium Resistivity, Shallow Resistivity, Density Porosity, and Neutron Porosity from 6 to 60 feet depth. The plot shows a 2.68 SS Matrix formation.

Database File:	6853.db	Dataset Pathname:	final	Presentation Format:	pd1	Dataset Creation:	Sat Feb 17 13:22:56 2007	Charted by:	Depth in Feet scaled 1:240
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0	Gamma Ray (GAPI)	200	2	Medium Resistivity (Ohm-m)	200	20	Neutron Porosity (pu)	0	
0	SP (mV)	200	2	Shallow Resistivity (Ohm-m)	200	20			

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