

Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1261952
OIL & GAS CONSERVATION DIVISION

Form ACO-1

August 2013

Form must be Typed
Form must be Signed
All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

- New Well Re-Entry Workover
- Oil WSW SWD SIOW
- Gas D&A ENHR SIGW
- OG GSW Temp. Abd.
- CM (Coal Bed Methane)
- Cathodic Other (Core, Expl., etc.): _____

If Workover/Re-entry: Old Well Info as follows:

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

- Deepening Re-perf. Conv. to ENHR Conv. to SWD
- Plug Back Conv. to GSW Conv. to Producer
- Commingled Permit #: _____
- Dual Completion Permit #: _____
- SWD Permit #: _____
- ENHR Permit #: _____
- GSW Permit #: _____

Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date
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API No. 15 - _____

Spot Description: _____

_____ - _____ - _____ Sec. _____ Twp. _____ S. R. _____ East West

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE NW SE SW

GPS Location: Lat: _____, Long: _____
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite:

Operator Name: _____

Lease Name: _____ License #: _____

Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West

County: _____ Permit #: _____

AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

KCC Office Use ONLY

- Confidentiality Requested
Date: _____
- Confidential Release Date: _____
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT I II III Approved by: _____ Date: _____

1261952

Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. R. _____ East West County: _____

INSTRUCTIONS: Show important tops of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No List All E. Logs Run: _____	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum
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CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone				

Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*

Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? Yes No *(If No, fill out Page Three of the ACO-1)*

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth

TUBING RECORD:	Size:	Set At:	Packer At:	Liner Run: <input type="checkbox"/> Yes <input type="checkbox"/> No
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Date of First, Resumed Production, SWD or ENHR.	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____					
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity	

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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ALLIED OIL & GAS SERVICES, LLC 064172

Federal Tax I.D. # 20-8651475

REMIT TO P.O. BOX 93999
SOUTHLAKE, TEXAS 76092

SERVICE POINT: Osley KS

DATE: <u>5-2-15</u>	SEC. <u>6</u>	TWP. <u>2N</u>	RANGE <u>36W</u>	CALLED OUT	ON LOCATION <u>9:00 p.m.</u>	JOB START <u>9:00 p.m.</u>	JOB FINISH <u>9:50 p.m.</u>
LEASE <u>Faishie</u>	WELL # <u>1-6</u>	LOCATION <u>McDonald W to County line</u>			COUNTY <u>Newlin</u>	STATE <u>KS</u>	
OLD OR <u>(NEW)</u> (Circle one)			<u>9.5 N E into (tank batteries)</u>				

CONTRACTOR Munfin 8

TYPE OF JOB Surface

HOLE SIZE 12 1/4 T.D. 295.5

CASING SIZE 8 5/8 DEPTH 302'

TUBING SIZE DEPTH

DRILL PIPE DEPTH

TOOL DEPTH

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT

CEMENT LEFT IN CSG. 20'

PERFS.

DISPLACEMENT 18 bbl H2O

EQUIPMENT

OWNER Same

CEMENT AMOUNT ORDERED 250 sks Com 3' CC

COMMON 250 sks @ 17.90 4,475.00

POZMIX @

GFL @

CHLORIDE 705 @ 1.10 775.50

ASC @

Material Total @ 5,250.50

(2362.72 / 45%)

HANDLING 262.50 @ 2.48 651.00

MILEAGE 12.10 tons @ 2.45 2994.75

TOTAL

PUMP TRUCK CEMENTER Paul Beaver

431 HELPER Brandon Wilkinson

BULK TRUCK DRIVER Darren Racette

891 / 287

BULK TRUCK DRIVER

REMARKS:

Mix 250 sks Com 3' CC

Displace w/ 18 bbl H2O

Cement did circ

5 bbl to pit

Thank you!
Paul + Crew

CHARGE TO: Samuel Gary Jr + Assoc.

STREET

CITY STATE ZIP

SERVICE

DEPTH OF JOB 302'

PUMP TRUCK CHARGE 1512.25

EXTRA FOOTAGE @

MILEAGE MLHV 90 @ 7.70 693.00

MANIFOLD Subedge @ 275.00

MLLV 90 @ 4.40 396.00

(2934.90 / 45%) TOTAL 6,522.00

PLUG & FLOAT EQUIPMENT

@

@

@

@

@

TOTAL

To: Allied Oil & Gas Services, LLC.
You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

PRINTED NAME KELLY WILSON

SIGNATURE Kelly Wilson

SALES TAX (If Any)

TOTAL CHARGES 11,772.50

DISCOUNT 5,297.62 (45%) IF PAID IN 30 DAYS

6,474.87 Net.



BASIC
ENERGY SERVICES
Liberal, Kansas

Cement Report

Customer <i>Sam Gary Jr. & Associates</i>		Lease No.		Date <i>5-11-15</i>	
Lease <i>Frisbie</i>		Well # <i>1-6</i>		Service Receipt <i>1717 05520 A</i>	
Casing <i>5 1/2" 15.5#</i>		Depth <i>4838.36ft</i>		County <i>Rawlins</i>	
Job Type <i>242 Production</i>		Formation		State <i>Ks.</i>	
Legal Description <i>6 2 36</i>					
Pipe Data			Perforating Data		
Cement Data					
Casing size <i>5 1/2" 15.5#</i>		Tubing Size		Shots/Ft	
Depth <i>4838.36ft</i>		Depth		From	
Volume <i>114.14661</i>		Volume		To	
Max Press <i>3,000 psi</i>		Max Press		From	
Well Connection <i>P.C.</i>		Annulus Vol.		To	
Plug Depth <i>4795.94ft</i>		Packer Depth		From	
				To	
				Lead 'A-Con' Blend <i>475sk</i>	
				2.76 ^{ft} / ³ sk 16.67 ^{gal} / ^{sk}	
				Tail in AA ² <i>200sk</i>	
				1.51 ^{ft} / ³ sk 6.52 ^{gal} / ^{sk}	
Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
<i>19:15</i>					<i>Call Out</i>
<i>1:45</i>					<i>On Location</i>
<i>2:00</i>					<i>Begin Running Float Equipment</i>
<i>6:00</i>					<i>Safety Meeting w/BES Personnel</i>
<i>6:15</i>					<i>Rig Up Head & Circulate</i>
<i>6:30</i>					<i>Wait on Casers</i>
<i>6:45</i>					<i>Rig Up, Pressure Test to 3000</i>
<i>8:00</i>	<i>300</i>		<i>233.48</i>	<i>6.0</i>	<i>Pump Lead, Bat & Mouse</i>
<i>9:10</i>	<i>350</i>		<i>53.7862</i>	<i>6.8</i>	<i>Pump Tail</i>
<i>9:26</i>	<i>600</i>			<i>6.0</i>	<i>Disp</i>
	<i>650</i>		<i>10</i>	<i>6.0</i>	
	<i>800</i>		<i>20</i>	<i>6.0</i>	
	<i>900</i>		<i>30</i>	<i>6.5</i>	
	<i>900</i>		<i>40</i>	<i>7</i>	
	<i>900</i>		<i>50</i>	<i>7</i>	
	<i>1000</i>		<i>60</i>	<i>7</i>	
	<i>1150</i>		<i>70</i>	<i>7</i>	
	<i>1250</i>		<i>80</i>	<i>7</i>	
	<i>1350</i>		<i>90</i>	<i>7</i>	
	<i>900</i>		<i>100</i>	<i>1.5</i>	<i>slow rate</i>
	<i>950</i>		<i>110</i>	<i>2.0</i>	
<i>9:45</i>	<i>1500</i>		<i>114</i>	<i>0</i>	<i>Land Plug, Release Back, Float Held Job Complete</i>
Service Units	<i>78938</i>	<i>2742</i>	<i>30463/19566</i>	<i>30464/37724</i>	
Driver Names	<i>Daniel</i>	<i>Eduardo</i>	<i>Mario</i>	<i>Margarito</i>	

Boomer
Customer Representative

Tyce Davis
Station Manager

Daniel Beck
Cementer



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

SGA
1515 Wykoop
STE 700
Denver Co 80202
ATTN: Chris Mitchel

6-2S-36W Rawlins KS

Frisbe #1-6

Job Ticket: 62576

DST#: 1

Test Start: 2015.05.06 @ 18:41:00

GENERAL INFORMATION:

Formation: **LKC " A "**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:45:30

Time Test Ended: 01:38:20

Test Type: Conventional Bottom Hole (Initial)

Tester: Ryan Nichols

Unit No: 78

Interval: 4278.00 ft (KB) To 4302.00 ft (KB) (TVD)

Reference Elevations: 3343.00 ft (KB)

Total Depth: 4302.00 ft (KB) (TVD)

3338.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 6752

Inside

Press@RunDepth: 15.59 psig @ 4283.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2015.05.06

End Date:

2015.05.07

Last Calib.:

2015.05.07

Start Time: 18:41:01

End Time:

01:38:20

Time On Btm:

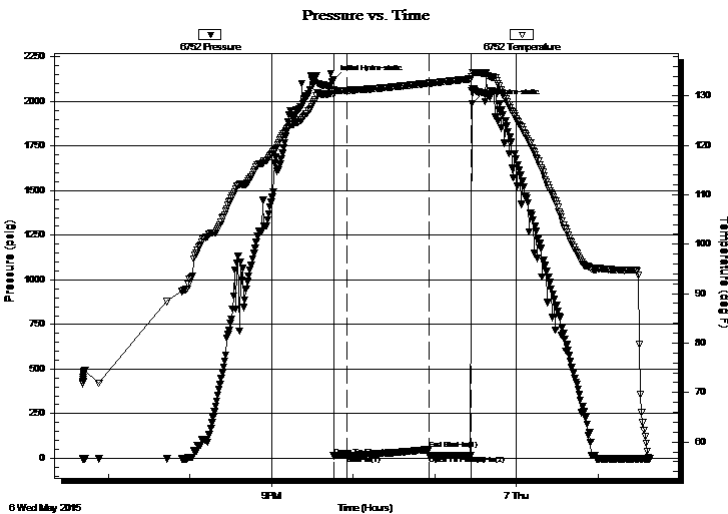
2015.05.06 @ 21:45:20

Time Off Btm:

2015.05.06 @ 23:27:09

TEST COMMENT: 10 IF - Surface blow
60 ISI - No return
30 FF - No blow , pulled tool

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2122.76	131.31	Initial Hydro-static
1	13.72	130.30	Open To Flow (1)
11	15.59	131.12	Shut-In(1)
70	49.31	132.56	End Shut-In(1)
71	15.82	132.55	Open To Flow (2)
101	16.91	133.44	Shut-In(2)
102	1987.62	134.03	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1.00	Mud w ith oil spots	0.00

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

SGA
1515 Wykoop
STE 700
Denver Co 80202
ATTN: Chris Mitchel

6-2S-36W Rawlins KS
Frisbe #1-6
Job Ticket: 62576 **DST#: 1**
Test Start: 2015.05.06 @ 18:41:00

Mud and Cushion Information

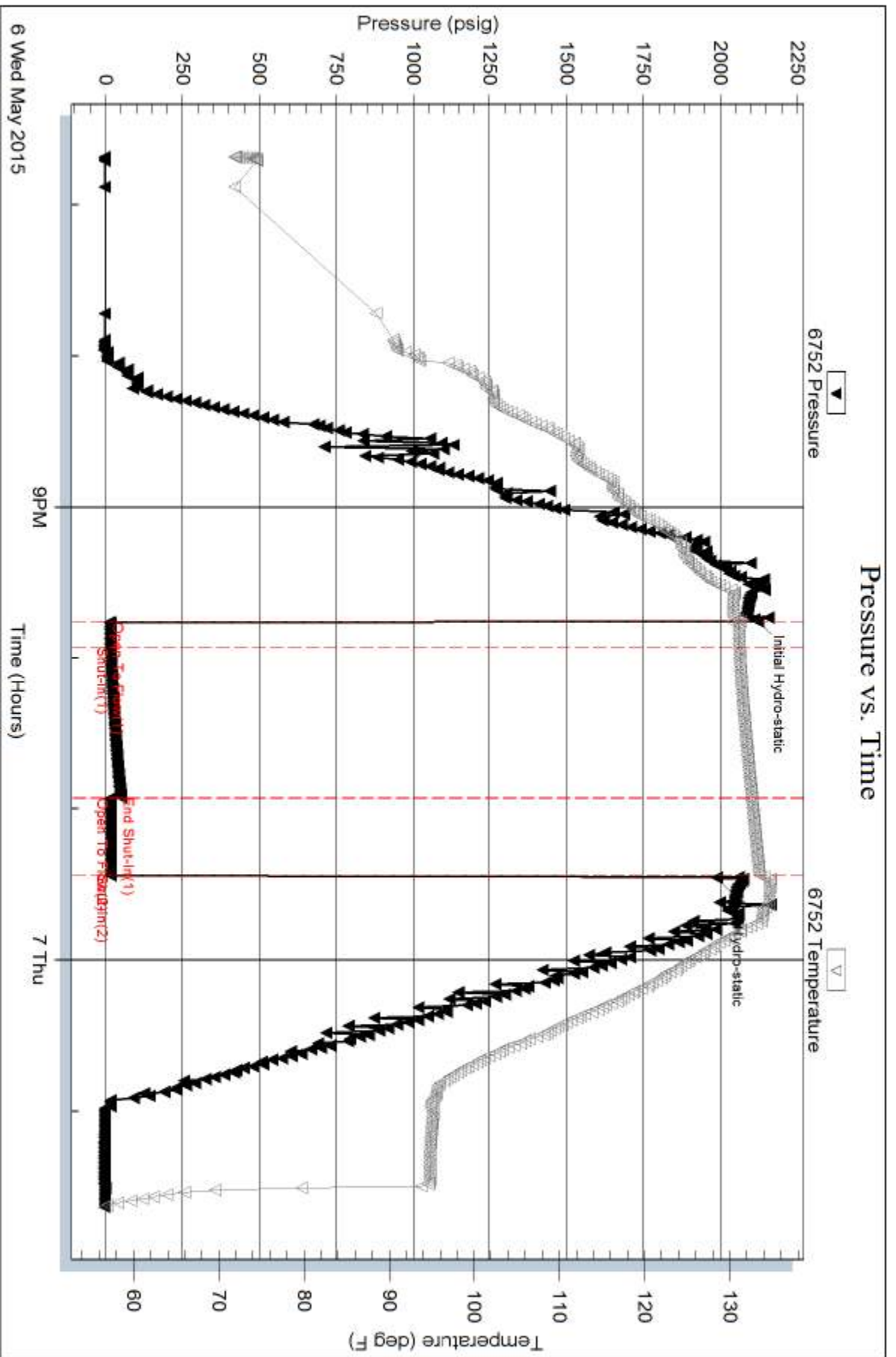
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 55.00 sec/qt	Cushion Volume: bbl		
Water Loss: 6.80 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 1000.00 ppm			
Filter Cake: 1.00 inches			

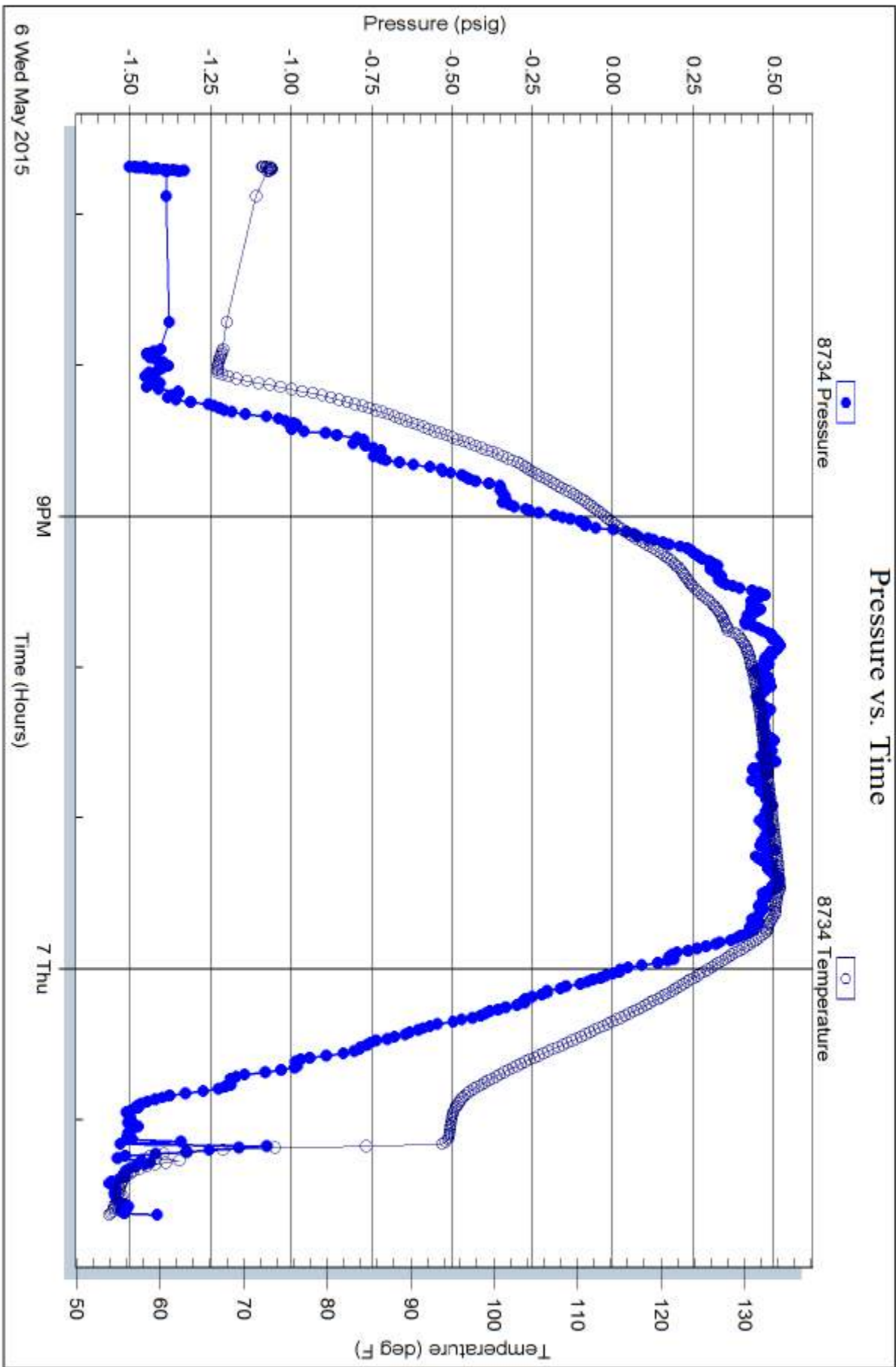
Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1.00	Mud w ith oil spots	0.005

Total Length: 1.00 ft Total Volume: 0.005 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:







**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

SGA
1515 Wykoop
STE 700
Denver Co 80202
ATTN: Chris Mitchel

6-2S-36W Rawlins KS

Frisbe #1-6

Job Ticket: 62577

DST#: 2

Test Start: 2015.05.07 @ 20:34:00

GENERAL INFORMATION:

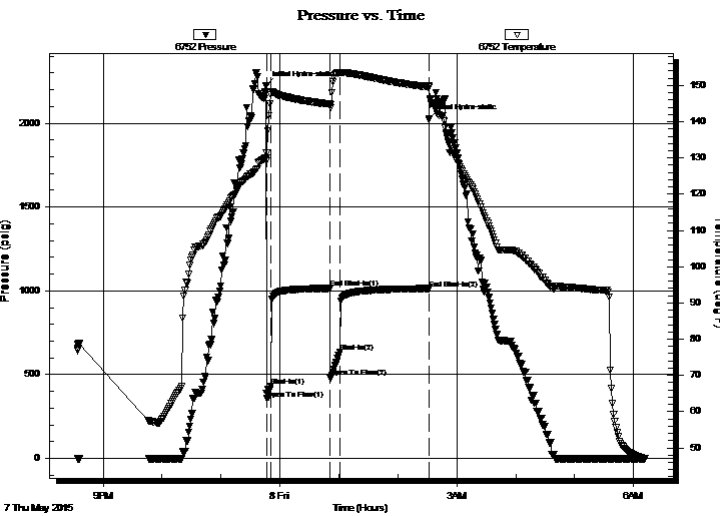
Formation: **LKC " G "**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 23:46:20
 Time Test Ended: 06:12:00
 Interval: **4371.00 ft (KB) To 4421.00 ft (KB) (TVD)**
 Total Depth: 4421.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Ryan Nichols
 Unit No: 78
 Reference Elevations: 3343.00 ft (KB)
 3338.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 6752

Inside

Press@RunDepth: 635.70 psig @ 4376.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2015.05.07 End Date: 2015.05.08 Last Calib.: 2015.05.08
 Start Time: 20:34:01 End Time: 06:12:00 Time On Btm: 2015.05.07 @ 23:45:50
 Time Off Btm: 2015.05.08 @ 02:32:00

TEST COMMENT: 5 IF - BoB @ 1 min
 60 ISI - Surface blow built to BoB @ 8 mins
 10 FF - BoB @ 1 min
 90 FSI - Surface blow built to 5"



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2225.31	130.12	Initial Hydro-static
1	356.30	131.26	Open To Flow (1)
5	432.49	147.57	Shut-In(1)
65	1014.79	144.85	End Shut-In(1)
66	484.42	144.58	Open To Flow (2)
75	635.70	153.52	Shut-In(2)
166	1013.62	149.57	End Shut-In(2)
167	2025.90	149.76	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
62.00	GMC0 - 25%G - 30%M - 45%o	0.30
1071.00	GO - 50%G - 50%o	13.89
252.00	GO - 30%G - 70%o	3.53
15.00	GO - 20%G - 80%o	0.21

* Recovery from multiple tests

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

SGA
1515 Wykoop
STE 700
Denver Co 80202
ATTN: Chris Mitchel

6-2S-36W Rawlins KS

Frisbe #1-6

Job Ticket: 62577

DST#: 2

Test Start: 2015.05.07 @ 20:34:00

GENERAL INFORMATION:

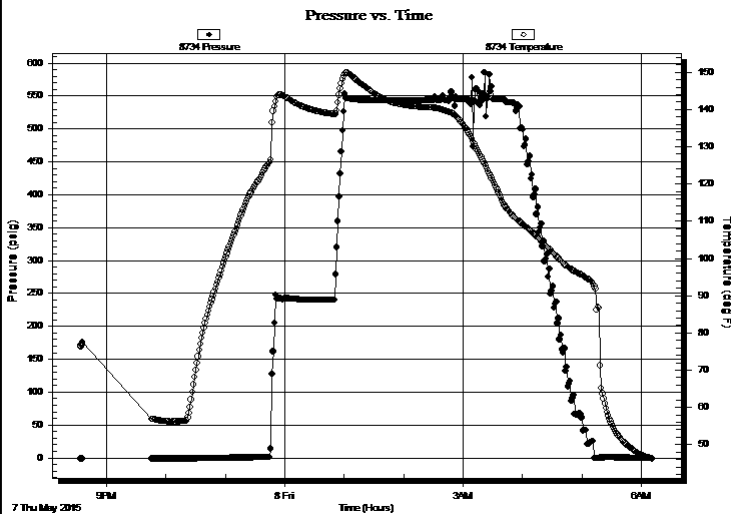
Formation: **LKC " G "**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 23:46:20
 Time Test Ended: 06:12:00
 Interval: **4371.00 ft (KB) To 4421.00 ft (KB) (TVD)**
 Total Depth: 4421.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Ryan Nichols
 Unit No: 78
 Reference Elevations: 3343.00 ft (KB)
 3338.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 8734

Fluid

Press@RunDepth: psig @ 4344.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2015.05.07 End Date: 2015.05.08 Last Calib.: 2015.05.08
 Start Time: 20:34:01 End Time: 06:11:49 Time On Btm:
 Time Off Btm:

TEST COMMENT: 5 IF - BoB @ 1 min
 60 ISI - Surface blow built to BoB @ 8 mins
 10 FF - BoB @ 1 min
 90 FSI - Surface blow built to 5"



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
62.00	GMC0 - 25%G - 30%M - 45%o	0.30
1071.00	GO - 50%G - 50%o	13.89
252.00	GO - 30%G - 70%o	3.53
15.00	GO - 20%G - 80%o	0.21

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)

* Recovery from multiple tests



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

SGA
1515 Wykoop
STE 700
Denver Co 80202
ATTN: Chris Mitchel

6-2S-36W Rawlins KS
Frisbe #1-6
Job Ticket: 62577 **DST#: 2**
Test Start: 2015.05.07 @ 20:34:00

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API: 27 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: ppm
Viscosity: 60.00 sec/qt	Cushion Volume: bbl	
Water Loss: 7.20 in ³	Gas Cushion Type:	
Resistivity: ohm.m	Gas Cushion Pressure: psig	
Salinity: 1500.00 ppm		
Filter Cake: 1.00 inches		

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
62.00	GMCO - 25%G - 30%M - 45%o	0.305
1071.00	GO - 50%G - 50%o	13.894
252.00	GO - 30%G - 70%o	3.535
15.00	GO - 20%G - 80%o	0.210

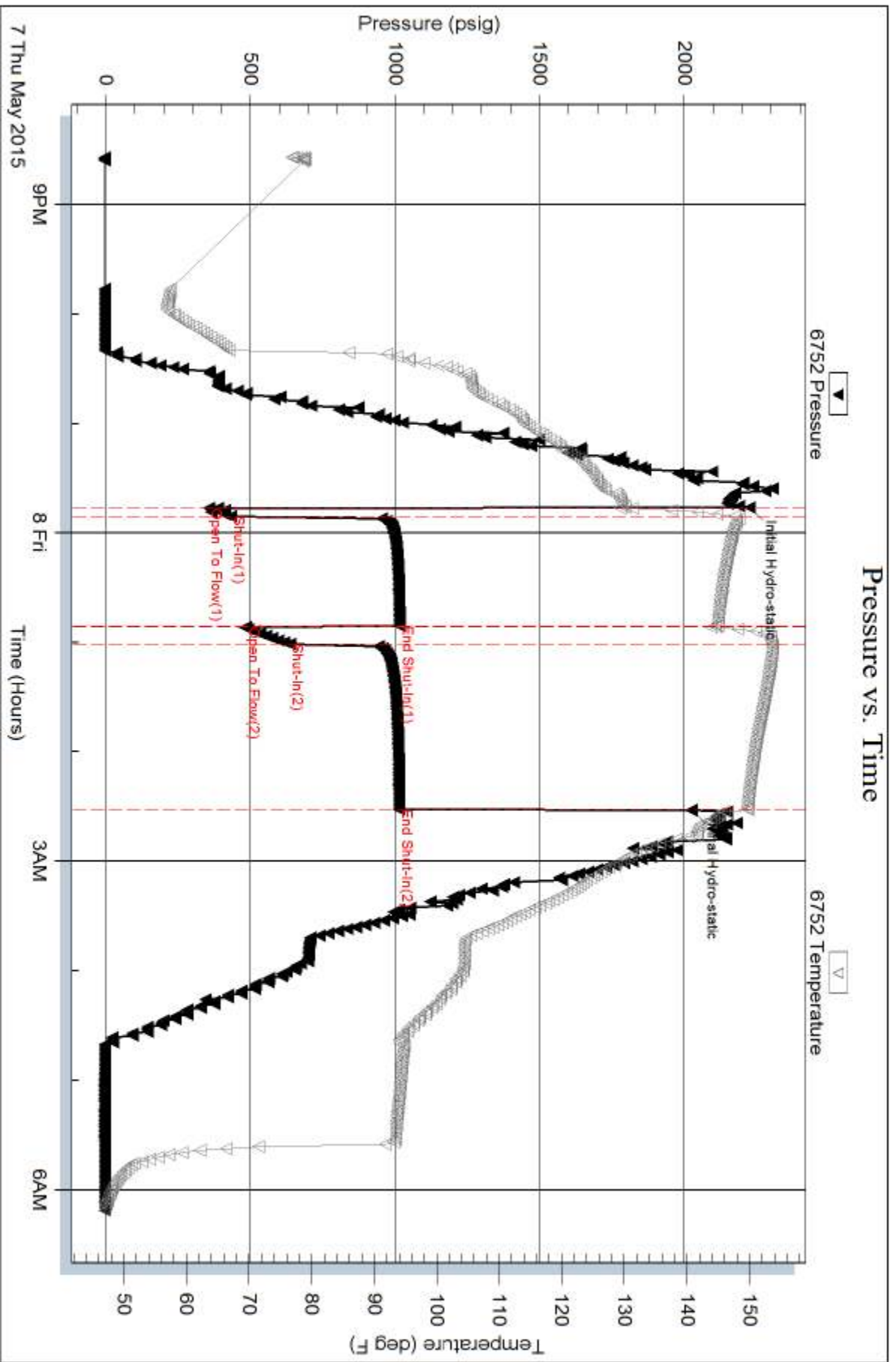
Total Length: 1400.00 ft Total Volume: 17.944 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments: OIL API = 28 @ 70 DEG F = 27 COR 60 DEG F

Pressure vs. Time



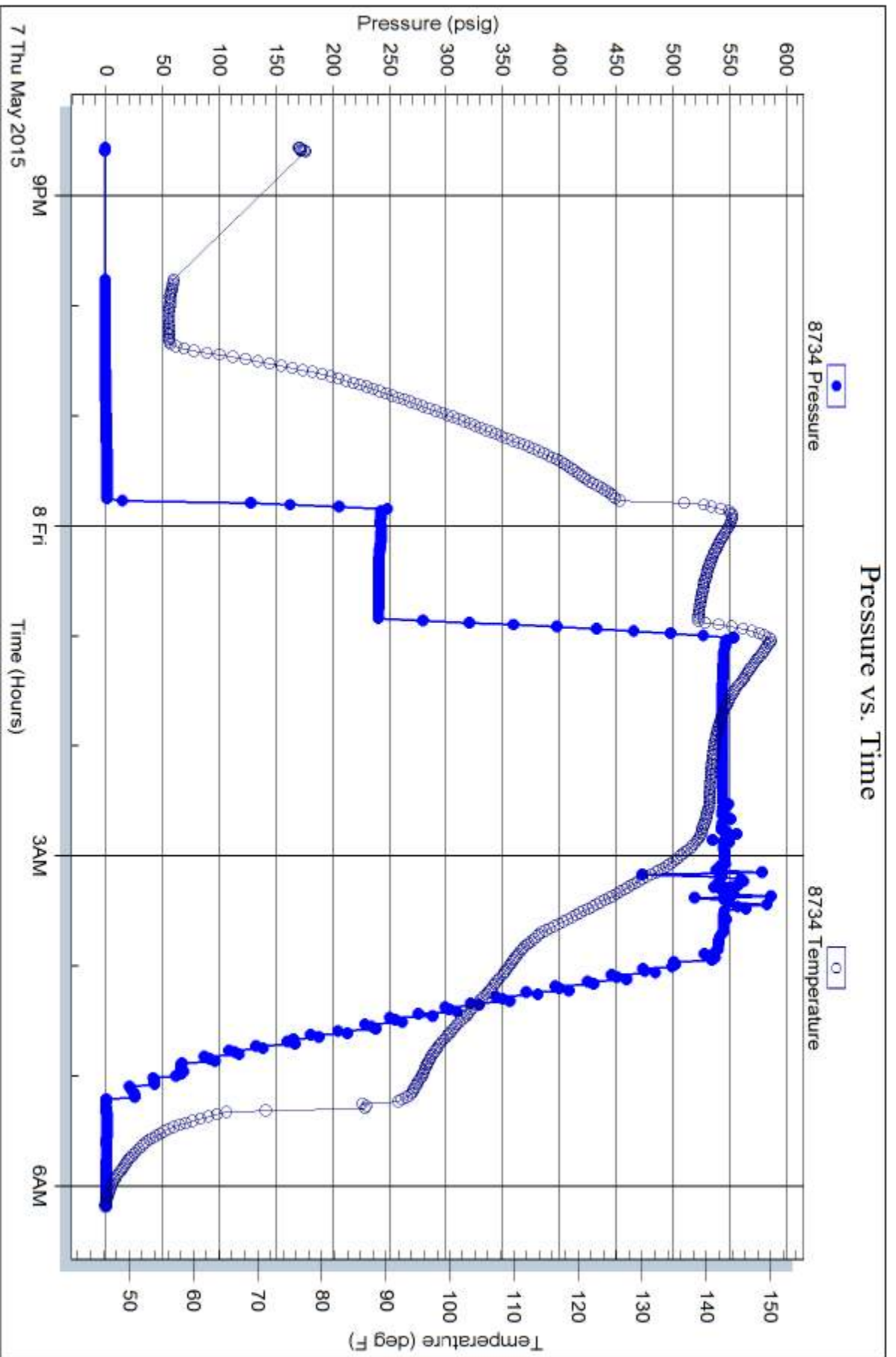
Serial #: 8734

Fluid

SGA

Frisbe #1-6

DST Test Number: 2



Trioblate Testing, Inc

Ref. No: 62577

Printed: 2015.05.08 @ 08:27:39



Scale 1:240 (5"=100') Imperial
Measured Depth Log

Well Name: Frisbie 1-6
Well Id:
Location: Sec. 6-2S-36W Rawlins County, Kansas
License Number: 15-153-21133-0000 Region: Wildcat
Spud Date: May 2, 2015 Drilling Completed: May 10, 2015
Surface Coordinates: 2280' FNL/ 2150' FEL

Bottom Hole
Coordinates:
Ground Elevation (ft): 3335' K.B. Elevation (ft): 3340'
Logged Interval (ft): 4050' To: 4850' Total Depth (ft): 4850'
Formation: Lansing, Kansas City, Pawnee
Type of Drilling Fluid: Natural Chemical

Printed by WellSight Log Manager from WellSight Systems 1-800-447-1534 www.WellSight.com

OPERATOR

Company: Samuel Gary Jr. & Assoc.
Address: 1515 Wynkoop, Ste. # 700
Denver, Colo. 80202
Geo: Chris Mitchell

GEOLOGIST

Name: Ian Bosmeijer
Company: Earth Tech OGL, Inc.
Address: PO Box 683
Hooker, Okla . 73945
Off. 888-543-8378 Cell: 580-754-0221



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

SGA
1515 Wykoop
STE 700
Denver Co 80202
ATTN: Chris Michel

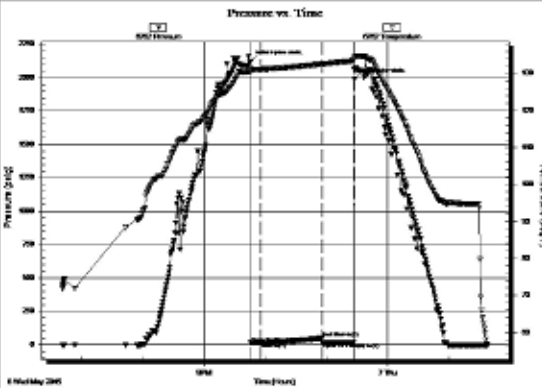
6-2S-36W Rawlins KS
Frisbe #1-6
Job Ticket: 62576 **DST#: 1**
Test Start: 2015.05.06 @ 18:41:00

GENERAL INFORMATION:

Formation: **LKC " A "**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 21:45:30
Time Test Ended: 01:38:20
Interval: **4278.00 ft (KB) To 4302.00 ft (KB) (TVD)**
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3338.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 6752 **Inside**
Press@RunDepth: 15.59 psig @ 4283.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2015.05.06 End Date: 2015.05.07 Last Calb.: 2015.05.07
Start Time: 18:41:01 End Time: 01:38:20 Time On Btm: 2015.05.06 @ 21:45:20
Time Off Btm: 2015.05.06 @ 23:27:09

TEST COMMENT: 10 IF - Surface blow
60 ISI - No return
30 FF - No blow, pulled tool



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2122.76	131.31	Initial Hydro-static
1	13.72	130.30	Open To Flow (1)
11	15.59	131.12	Shut-in(1)
70	49.31	132.56	End Shut-in(1)
71	15.82	132.55	Open To Flow (2)
101	16.91	133.44	Shut-in(2)
102	1987.62	134.03	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1.00	Mud with oil spots	0.00

Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (Mcfd)



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

SGA
1515 Wykoop
STE 700
Denver Co 80202
ATTN: Chris Michel

6-2S-36W Rawlins KS
Frisbe #1-6
Job Ticket: 62577 **DST#: 2**
Test Start: 2015.05.07 @ 20:34:00

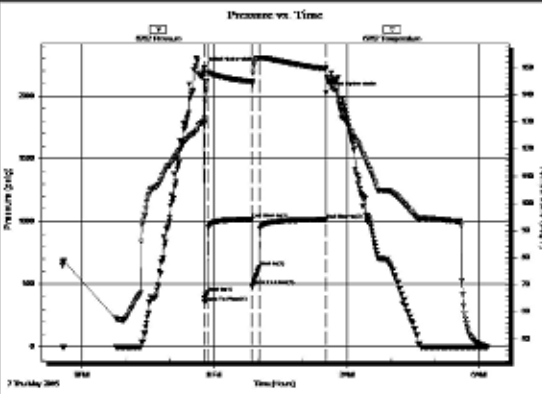
GENERAL INFORMATION:

Formation: **LKC " G "**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 23:46:20
Time Test Ended: 06:12:00
Test Type: Conventional Bottom Hole (Reset)
Tester: Ryan Nichols
Unit No: 78
Interval: **4371.00 ft (KB) To 4421.00 ft (KB) (TVD)**
Total Depth: 4421.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches
Hole Condition: Good
Reference Elevations: 3343.00 ft (KB)
3338.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 6752

Inside
Press@RunDepth: 635.70 psig @ 4376.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2015.05.07 End Date: 2015.05.08 Last Calb.: 2015.05.08
Start Time: 20:34:01 End Time: 06:12:00 Time On Btm: 2015.05.07 @ 23:45:50
Time Off Btm: 2015.05.08 @ 02:32:00

TEST COMMENT: 5 IF - BoB @ 1 min
60 ISI - Surface blow built to BoB @ 8 mins
10 FF - BoB @ 1 min
90 FSI - Surface blow built to 5"



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2225.31	130.12	Initial Hydro-static
1	356.30	131.26	Open To Flow (1)
5	432.49	147.57	Shut-In(1)
65	1014.79	144.85	End Shut-In(1)
66	484.42	144.58	Open To Flow (2)
75	635.70	153.52	Shut-In(2)
166	1013.62	149.57	End Shut-In(2)
167	2025.90	149.76	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
62.00	GMC0 - 25%G - 30%M - 45%o	0.30
1071.00	GO - 50%G - 50%o	13.89
252.00	GO - 30%G - 70%o	3.53
15.00	GO - 20%G - 80%o	0.21

Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (Mcfd)

ROCK TYPES

- Anhy
- Bent
- Brec
- Cht
- Clyst
- Coal
- Congl
- Dol

- Gyp
- Igne
- Lmst
- Meta
- Mrlst
- Salt
- Shale
- Shcol

- Shgy
- Slstst
- Ss
- Till
- Carb sh
- Dol
- Dtd
- Gry sh

- Sandylms
- Shale
- Slststn
- Shlyslts
- Sltysh
- Lms

ACCESSORIES

MINERAL

- Anhy
- Arggrn
- Arg
- Bent
- Bit
- Breclrag
- Calc
- Carb
- Chtdk
- Chtlt
- Dol
- Feldspar
- Ferrpel
- Ferr
- Glau
- Gyp
- Hvymin
- Kaol
- Marl
- Minxl
- Nodule
- Phos
- Pyr

- Salt
- Sandy
- Silt
- Sil
- Sulphur
- Tuff
- Chlorite
- Dol
- Sand
- Sltly

- Fossil
- Gastro
- Oolite
- Ostra
- Pelec
- Pellet
- Pisolite
- Plant
- Strom
- Fuss
- Oomold

- Clystn
- Dol
- Grysh
- Gryslt
- Lms
- Sandylms
- Sh
- Sltstn

FOSSIL

- Algae
- Amph
- Belm
- Bioclst
- Brach
- Bryozoa
- Cephal
- Coral
- Crin
- Echin
- Fish
- Foram

STRINGER

- Anhy
- Arg
- Bent
- Coal
- Dol
- Gyp
- Ls
- Mrst
- Sltstrg
- Ssstrg
- Carbsh

TEXTURE

- Boundst
- Chalky
- Cryxln
- Earthy
- Finexln
- Grainst
- Lithogr
- Microxln
- Mudst
- Packst
- Wackest

OTHER SYMBOLS

POROSITY TYPE

- Earthy
- Fenest
- Fracture
- Inter
- Moldic
- Organic
- Pinpoint
- Vuggy

SORTING

- Well
- Moderate
- Poor

ROUNDING

- Rounded
- Subrnd
- Subang

- Angular

OIL SHOWS

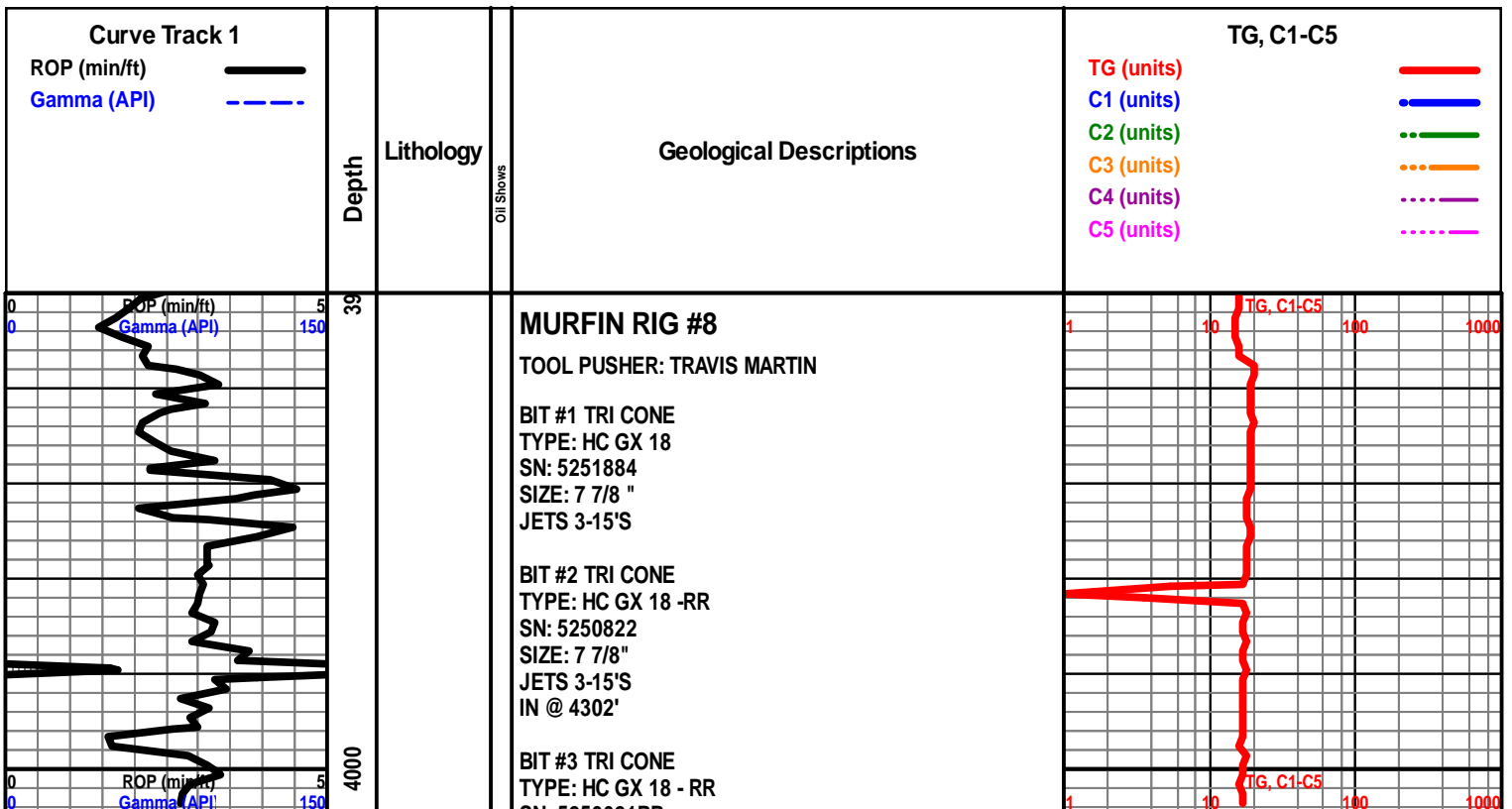
- Even
- Spotted
- Ques
- Dead
- Gas show

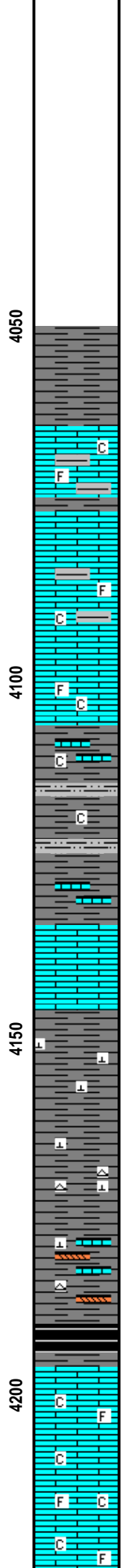
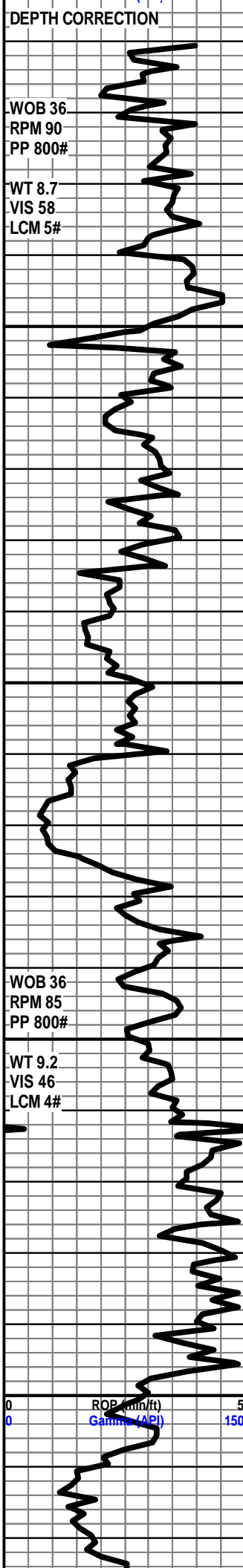
INTERVALS

- Core
- Dst
- Dst

EVENTS

- Rft
- Sidewall





SN: 5250621RR
SIZE: 7 7/8"
JETS: 3-15'S
IN @ 4604'

START 24 HR MANNED UNIT 5/5/2015

SH- RD GY TO GRN, FRM TO SFT, GMMY IP, SMTH TXT

TOPEKA 4065' (-725')

LS- WHT CRM TO PNK, HD DNS TO BRITT IP, FN-MD XLN, RE-XLN IP, ABDT DISS/IMBD RD SH, TR IMBD FOSS FRAG, FRM TO SFT CHLK IP, DLL YEL MIN FLO IN 10%, NO VIS POR, NO SHOW

LS- WHT CRM TO PNK, HD DNS TO BRIT, FN-MD XLN, SLI SUB-CHLKY TO RE-XLN IP, SCAT FRM TO SFT CHLK, IMBD LT RD SH, TR IMBD FOSS FRAG, DLL YEL MIN FLO IN 10%, NO VIS POR, NO SHOW

LS- WHT TO OFF WHT, HD DNS, BRITT IP, CRYPTO-FN XLN, SLI SUB-CHLKY IP, SCAT WHT CHRT, TR IMBD FOSS FRAG, DLL YEL MIN FLO IN 20%, NO VIS POR, NO SHOW

SH- RD GRN TO GY, MOTT, FRM BLKY TO SFT GMMY, IMBD CHLKY LS IP, SMTH TO SLTY TXT

LS- CRM TO OFF WHT, HD DNS, F-XLN, SUB-CHLKY TO RE-XLN IP, DLL YEL MIN FLO IN 30%, TR PR-INTER-XLN POR, TR PR PP POR, NO VIS CUT OR SHOW

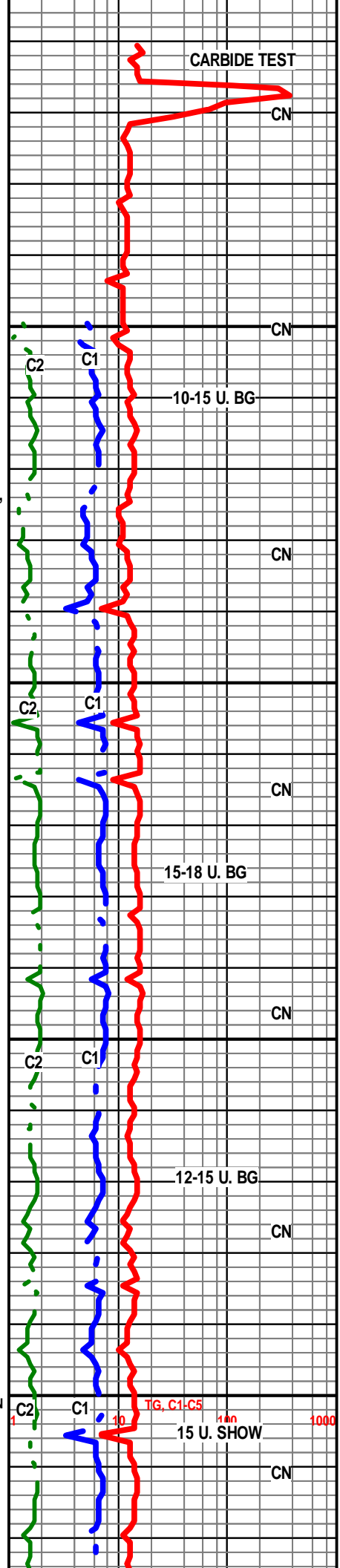
SH- PRPLE, RD, GY, GRN, MOTT, FRM BLKY SMTH TO GRNY TXT, V/ CALC IP

SH- LT GY, PRPLE, RD, GRN, MOTT, FRM BLKY, SMTH TO SLTY/GRNY TXT, V/ CALC IP, SCAT FRSTY TO ORNG CHRT, TR CRM LS

SH- LT TO MD GY, BLK, RD, GRN, FRM BLKY, IMBD GYP/ANH, TR CHRT, TR CRM LS, GRNY TO WXY TXT

LS- WHT TO CRM, (BLK DUE TO DOS/ASPHLT STN IN 20%, TR LIVE OIL IN 1%), HD DNS TO BRITT IP, MD XLN, SLI RE-XLN TO SUB-CHLKY IP, SCAT IMBD FOSS FRAG, ABDT SFT GMMY CHLK, DLL YEL MIN FLO IN 10%, PR-FR MICRO VUG POR IN 5%, FR INTER-FOSS POR IN 2%, PR FLUSH CUT, PR SLW STRM CUT IN 1%, NO ODOR, SMALL VOLUME OF SHOW WITH LIVE OIL

LS- OFF WHT TO CRM, WHT, BRITT TO SFT, FN-MD XLN, RE-XLN TO V/ CHLKY, ABDT FRM TO SFT CHLK, TR IMBD FOSS FRAG, DLL YEL MIN FLO IN 10%, PR MICRO-VUG POR IP, NO VIS CUT OR SHOW



WT 9.2
VIS 55
PV 19
YP 16
PH 11.5
WL 6.8
CHL 1000
LCM 4#

WOB 36
RPM 85
PP 800#

CFS @ 4271'

DST #1
4278'-4302'

SCALE CHANGE
1-10

Scale Change
ROP (min)
CFS @ 4302' 10
Gamma (API) 150

WT 9.1
VIS 60
PV 23
YP 18
PH 11.0
WL 7.2
CHL 1500
LCM 3#

CFS @ 4362'

DST #2
4371'-4421'

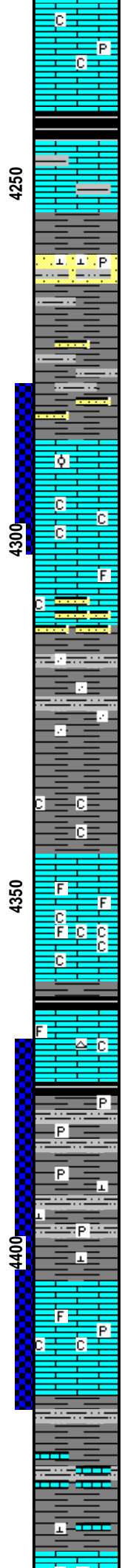
WT 9.1
VIS 60
LCM 4#

ROP (min)
Gamma (API)

SURVEY @ 4421'
4 DEG

CFS @ 4421'

WOB 38
RPM 80
PP 800



LS- OFF WHT TO LT GY, HD DNS, CRYPTO-FN XLN, TR SFT WHT CHLK,
TR PYR CLSTR, DLL YEL MIN FLO IN 20%, NO VIS POR, NO SHOW

HEEBNER 4240' (-900')

SH- DK GY TO BLK, FRM BLKY, CARB IP, SMTH TXT
LS- LT TO MD GY, HD DNS, CRYPTO-FN XLN, IMBD GY SH IP, NO FLO, NO
VIS POR, NO SHOW

SLTY SS- OFF WHT TO LT GY, QRTZ GRNS, FN GRN, S-RND, WLLSRT,
CALC CMNT IP, ABTD IMBD GY SLT, SCAT PYR CLSTR, NO FLO, V/ PR
INTER-GRN POR, NO VIS CUT OR SHOW

SH- LT TO MD RD, GY IP, FRM TO SFT, GMMY IP, SLTY TO GRNY TXT IP

SH- LT TO MD RD, GY, FRM BLKY, SFT GMMY IP, SNDY IP, SMTH TO GRNY
TXT IP

LANSING 4285' (-945')

4285'-4288' LS- OFF WHT CRM (TN DUE TO OIL STN IN 30%), BRITT TO
HD IP, FN-MD XLN, TR IMBD OIDS, SPTTD YEL GLD FLO IN 30%, FR-GD
MICRO VUG POR IN 5%, GD INTER-XLN POR IN 5%, GD FLSH CUT, GD
SLW STRM CUT IN 15%, LT ODOR, LIVE OIL ON SAMPLE

4288'-4302' LS- CRM TO LT TN, HD DNS, CRYPTO-FN XLN, TR
SUB-CHLKY MTRX, ABTD FRM TO SFT GMMY CHLK, TR LMNTD BLK SH,
TR BRIT YEL MIN FLO, NO VIS POR, NO SHOW

4302'-4312 LS- WHT TO CRM, HD DNS, CRYPTO-FN XLN, V/ RE-XLN IP,
IMBD FOSS FRAG, ABTD SFT GMMY CHLK, AREN TO SNDY W/ VCHLKY
MTRX IP, DLL YEL MIN FLO IN 10%, V/ PR INTER-GRN POR IP, NO VIS CUT
OR SHOW

SH- RD BLK TO LT GRN, FRM BLKY, SPLNTY IP, IMBD
F-GRN QRTZ IP, SLTY TO GRNY TXT IP

SH- RD, LT TO MD GY, FRM BLKY, V/ SFT GMMY, CALC TO
CHLKY, SMTH TXT

LANSING "D" 4345' (-1005)

4350'-4358' LS- OFF WHT TO CRM (HVY BLK OIL STN IN 30%), HD TO
BRITT IP, F-XLN, RE-XLN TO SLI SUB-CHLKY MTRX, ABTD IMBD FOSS
FRAG, GRDING TO SLI SUCRO RE-XLN TO ABTD CHLK, BRIT YEL GLD
FLO IN 25%, DLL YEL GLD FLO IN 20%, PR ISOLATED INTER-FOSS POR
IN 5%, FR-GD MICRO VUG POR IN 5%, GD FLSH CUT, GD SLW STRM CUT
IN 40%, DK TN LCH, LT ODOR, LIVE OIL ON SAMPLE AND CUP

LS- CRM TO TN, (TR SPTTD BLK DOS) LT GY, HD DNS, FN XLN, RE-XLN
MTRX IP, IMBD ORNG CHRT IP, IMBD FOSS FRAG IP, FRM TO SFT CHLK
IP, DLL YEL MIN FLO IN 30%, PR PPPOR IN 2%, NO FLSH CUT, TR PR SLW
STRM CUT IN <1%

SH- RD BRN TO BLK, FRM BLKY, SFT IP, DISS PYR IP,
WXY TXT IP, GRNY TO SLTY TXT IP

SH- LT RD TO LT GRN, GY, FRM BLKY, DISS PYR IP, WXY
TO GRNY/SLTY TXT IP, V/ CALC IP

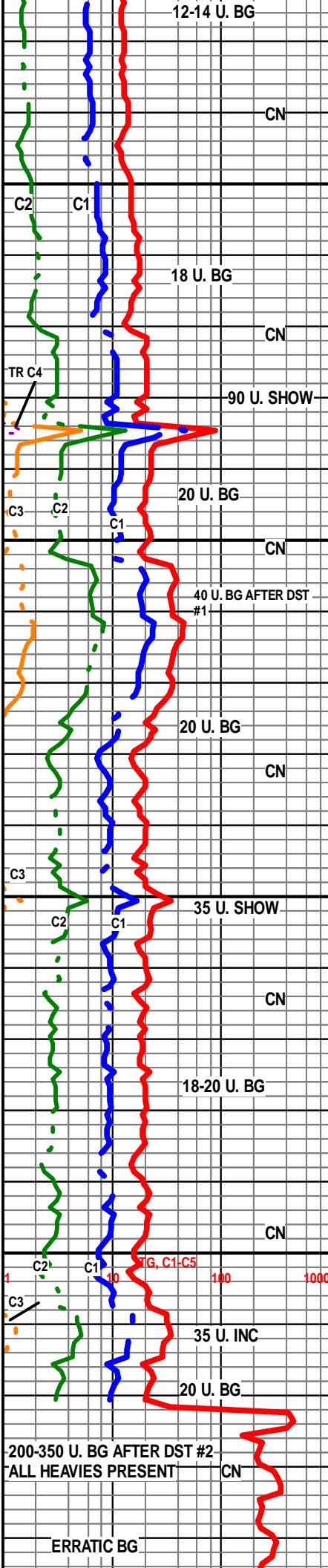
LANSING "G" 4405' (-1065)

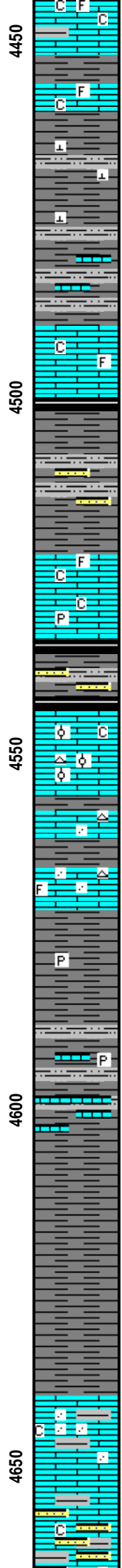
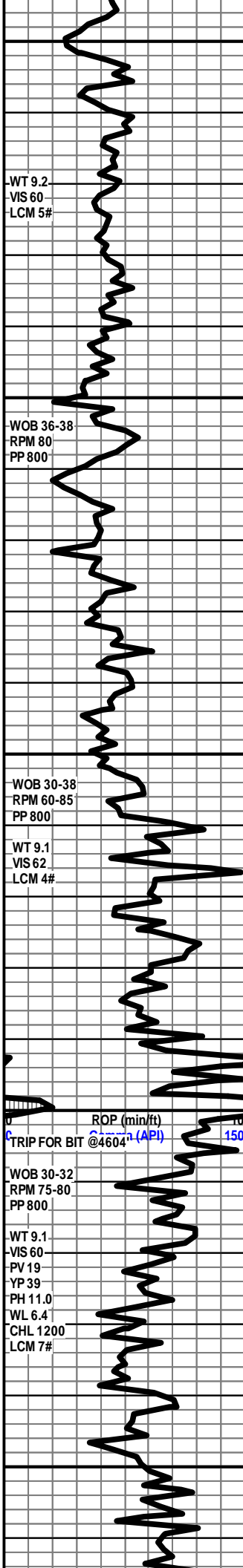
LS- CRM TO OFF WHT (SPTTD V/ LT TN OIL STN IN 5%), HD DNS, BRITT
TO SFT IP, F-XLN, V/ RE-XLN IP, TR V/ SUCRO, ABTD FRM TO SFT CHLK IP,
TR PYR CLSTR, TR IMBD FOSS FRAG, SPTTD BRIT YEL GLD FLO IN
5%, FR- GD INTER-XLN POR IN 5%, FR-GD VIS & MICRO VUG POR IN 4%,
PROBABLE FRACTURE, PR-FR FLSH CUT, PR-FR SLW STRM CUT IN 5%

SH- GRN RD GY, FRM BLKY, SCAT TN FN-MD XLN LS IP,
SMTH TO SLTY TXT

SH- RD GY TO GRN, MOTT, WXY LT GRN, DISS PYR IP, V/
CALC TO LMY IP, SMTH TO SLTY TXT

LS- CRM TO OFF WHT, HD TO BRITT, SFT IP, FN-MD XLN, SUB-CHLY TO





SLI RE-XLN IP, TR IMBD FOSS FRAG, SCAT FRM TO SFT CHLK, TR LMNTD GY SH, DLL YEL MIN FLO IN 20%, PR-FR MICRO VUG POR IN 2%, PR INTER-XLN POR IN 1%, NO VIS CUT OR SHOW

LS- OFF WHT TO CRM, BRITT TO HD IP, SFT IP, F-XLN, SUB-CHLKY MTRX IP, SCAT FRM TO SFT CHLK, TR IMBD FOSS FRAG, DLL YEL MIN FLO IN 10%, NO VIS POR, NO SHWO

SH- RD, BRN, GRN, TR GY, FRM BLY, V/ CALC IP, SLTY TO GRNY IP

SH- RD TO GY, FRM BLKY, SLI SPLNTY IP, V/ CALC TO LMY, SLTY TXT

LANSING "J" 4490' (-1150')

LS- OFF WHT TO CRM (SCAT BLK DOS IN 20%, TN OIL STN IN 5%), HD DNS, V/FN-FN XLN, TT SUCRO TO RE-XLN MTRX IP, SUB-CHLKY MTRX IP, TR IMBD FOSS, DLL YEL GLD FLO IN 25%, BRIT YEL GLD FLO IN 5%, PR-FR PP POR IN 4%, TR FR INTER-FOSS POR, PR-FR FLSH CUT, GD SLW STRM CUT IN 15%, TN LCH ON DISH, NO ODOR

SH- RD TO BRN, FRM BLKY TO SFT, GMMY IP, SLTY TO V/ SNDY IP

LS- CRM TO WHT, HD TO BRITT, F-XLN, V/TT SUCRO TO SUB-CHLKY, TR IMBD MICRO-FOSS, FRM TO SFT CHLK, TR DISS PYR, DLL YEL MIN FLO IN 25%, V/ PR PP POR IP, NO VIS CUT OR SHOW

SH- GY BLK RD, LT GRN IP, FRM BLKY, SFT GMMY IP, SLTY TO SNDY TXT IP

LS- CRM OFF WHT TO LT PNK, HD DNS, HD DNS, TR SFT, F-XLN, SUB-SUCRO TO RE-XLN MTRX IP, ABDT IMBD SM-MD OIDS, ABDT FRM TO SFT CHLK, TR WHT CHRT, DLL YEL MIN FLO IN 10%, NO VIS POR, NO SHOW

BKC 4556' (-1216')

LS- CRM TO OFF WHT, V/ HD DNS, CRYPTO-FN XLN, IMBD FN-MD GRN QRTZ, IMBD & FREE WHT CHRT, TR IMBD FOSS FRAG, DLL YEL MIN FLO IN 10%, TR BRIT YEL MIN FLO, NO VIS POR, NO SHOW

SH- RD BRN TO GRN, MOTT, SFT GMMY TO SLTY, FRM BLKY DISS PYR WXY TXT

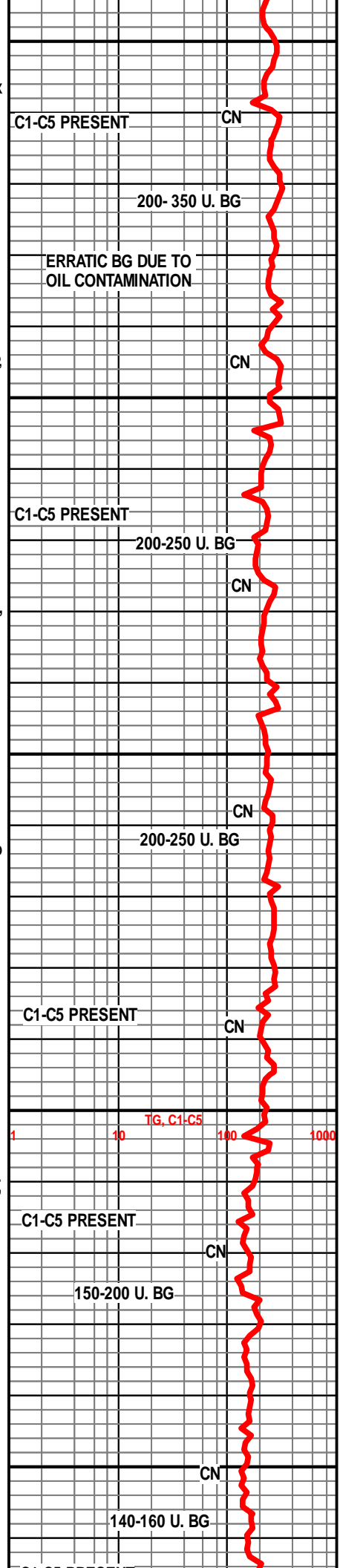
SH- RD BRN TO BLK, FRM BLKY TO SPLNTY, V/ CALC TO LMY, PYR CLSTR IP, SMTH TO SLTY TXT

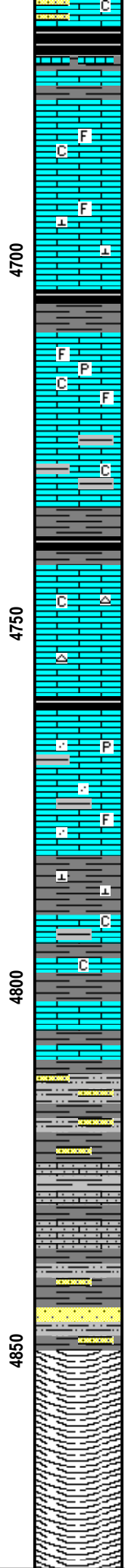
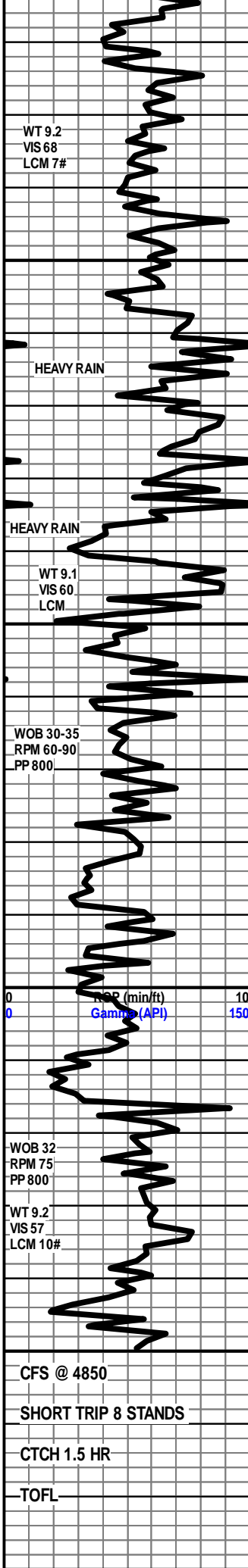
SH- RD BRN GY TO LT GRN, MOTT, FRM BLKY TO SLI SFT, HD WXY IP, SLI TO V/ CALC IP, SLTY TO GRNY TXT

SH- RD BRN TO GY, FRM BLKY, TR SPLNTY, CALC IP, ABDT IMBD V/FN GRN QRTZ IP, SLTY TO SNDY IP, GRNY IP

LS- WHT CRM, LT PNK, HD DNS TO SLI BRITT, F-XLN, SUB-SUCRO TO TR TT SUCRO MTRX, SUB-CHLKY IP, ABDT IMBD F-GRN QRTZ, IMBD LT RD TO LT GY SH IP, TR DLL YEL MIN FLO, NO VIS POR, NO SHOW

LS- CRM TN BUFF, HD DNS, F-XLN, AREN TO SNDY IP, SUB-CHLKY IP, ABDT DISS GY SH, FRM TO SFT CHLK IP, NO FLO, PR- INTER-GRN POR IP, NO SHOW





LABETTE SHALE 4668' (-1328')
SH- GY TO BLK, FRM BLKY, TR SPLNTY, SMTH TXT

LS- OFF WHT TO LT GY, HD DNS, F-XLN, SUB-SUCRO MTRX, IMBD PEL IP, TR FRM CHLK, DLL YEL MIN FLO IN 10%, NO VIS POR, NO SHOW

LS- CRM TO OFF WHT, HD DNS, F-XLN, SUB- SUCRO TO TR RE-XLN MTRX, IMBD SM CALC XLS, IMBD MICRO FOSS/ PEL IP, DLL YEL MIN FLO IN 20%, NO VIS POR, NO SHOW

SH- LT TO MD GY, BLK IP, FRM BLKY, SFT IP, TR CARB, SMTH TXT

LS- OFF WHT CRM TO LT GY, HD DNS, BRITT IP, V/FN-FN XLN, TR RE-XLN CALC XLS, ABTD IMBD MICRO FOSS FRAG, DISS PYR IP, FRM TO SFT CHLK IP, DLL YEL MIN FLO IN 10%, NO VIS POR, NO SHOW

LS- CRM TO LT GY, HD DNS, V/FN-FN XLN, TR FRM TO SFT CHLK, SLI SHLY IP, NO FLO, NO VIS POR, NO SHOW

SH- GY TO BLK, FRM BLKY, CARB IP, SMTH TXT

FORT SCOTT 4742 (-1402')

LS- CRM TN TO GY, HD DNS TO BRITT, V/FN-FN XLN, RE-XLN IP, SLI SUB-CHLKY IP, TR TN CHRT IP, TR DLL YEL MIN FLO, TR ISOLATED FR MICRO VUG POR, NO SHOW

LS- CRM OFF WHT TO TN, HD DNS, V/FN XLN, TR RE-XLN, TT SUCRO IP, ABTD IMBD FN GRN S-RND QRTZ, TR IMBD SM PYR CLSTR, TR IMBD FOSS FRAG, TR IMBD GY SH, TR DLL YEL MIN FLO, TR V/ PR PP POR, NO VIS CUT OR SHOW

BASE PENN. LIME 4784' (-1444')

SH- GRN, RD TO BRN, TR BLK, FRM BLKY TO SFT GMMY, FRM BLKY, V/ CALC IP, WXY TO SLTY TXT

LS- TN TO OFF WHT, HD DNS, BRITT IP, FN-XLN, SUB-CHLKY IP, FREE SFT WHT CHLK, LMNTD GY SH IP, TR DLL YEL MIN FLO, NO VIS POR, NO SHOW

LS- WHT GY TO TN, HD TO BRITT, F-XLN, ARG TO SHLY, IMBD F-GRN QRTZ, SFT WHT CHLK, TR DLL YEL MIN FLO, NOVIS POR, NO SHOW

SH- LT TO MD GY, LT GRN IP, MOTT, FRM BLKY TO SPLNTY, ABTD IMBD F-GRN QRTZ IP, SLI SLTY TXT

SNDY LS- GY TO LT PNK, LT GRN, FRM BLKY, AREN, ABTD IMBD FN-MD GRN S-RND QRTZ, IMBD GY TO GRN SLT/SH, TR PYR, NO FLO, TR PR-FR INTER-GRN POR, NO VIS CUT OR SHOW

SH- RD GY GRN TO YEL, MOTT, FRM BLKY TO SFT, SLI GMMY IP, SCAT FN-MD GRN WLL SRT SS CLSTR, SLTY TO GRNY TXT IP

R.T.D. 4850' @ 8:10 AM 5/10/2015

LOGGING SERVICES COMPLETED BY: WEATHERFORD

