



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
- Conv. to GSW
- Plug Back: _____ Plug Back Total Depth _____
- 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

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total 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

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



1046127

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

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

INSTRUCTIONS: Show important tops and base 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. Attach complete copy of all Electric Wire-line Logs surveyed. Attach final geological well site report.

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 Electric Log Submitted Electronically <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(If no, Submit Copy)</i> 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
_____ Perforate _____ Protect Casing _____ Plug Back TD _____ Plug Off Zone				

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: Yes No

Date of First, Resumed Production, SWD or ENHR. _____ Producing Method:
 Flowing Pumping Gas Lift Other (Explain) _____

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
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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> <i>(Submit ACO-4)</i> <input type="checkbox"/> Other (Specify) _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Grand Mesa Operating Company
Well Name	Phelps 7-31
Doc ID	1046127

Tops

Name	Top	Datum
Stone Corral	2435	+518
Bs/Stone Corral	2456	+497
Heebner	3949	-996
Lansing	3996	-1043
Muncie Creek	4156	-1203
Stark	4246	-1293
Marmaton	4355	-1402
Little Osage	4489	-1536
Johnson	4591	-1638
Morrow	4616	-1663
Mississippian	4734	-1781
RTD	4777	



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Grand Mesa
1700 N Waterfront PKWY
BLDG 600
Wichita, Ks
ATTN: Steve Carl

Phelps #7-31
31-13-31 Gove, Ks
Job Ticket: 039680 **DST#: 1**
Test Start: 2010.10.16 @ 13:50:33

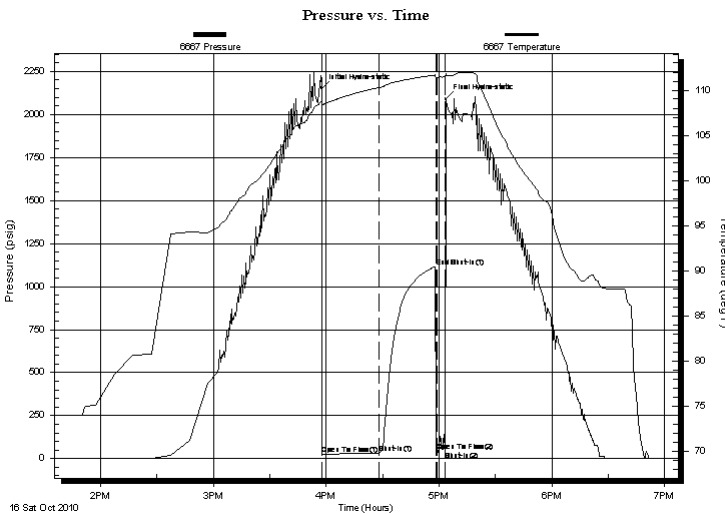
GENERAL INFORMATION:

Formation: **L**
Deviated: **No** Whipstock: **ft (KB)** Test Type: **Conventional Bottom Hole**
Time Tool Opened: **15:57:48** Tester: **Shane McBride**
Time Test Ended: **19:05:03** Unit No: **40**
Interval: 4281.00 ft (KB) To 4335.00 ft (KB) (TVD) Reference Elevations: **2953.00 ft (KB)**
Total Depth: **4335.00 ft (KB) (TVD)** **2948.00 ft (CF)**
Hole Diameter: **7.88 inches** Hole Condition: **Fair** KB to GR/CF: **5.00 ft**

Serial #: 6667 **Inside**
Press @ Run Depth: **32.81 psig @ 4282.00 ft (KB)** Capacity: **8000.00 psig**
Start Date: **2010.10.16** End Date: **2010.10.16** Last Calib.: **2010.10.16**
Start Time: **13:50:33** End Time: **18:52:03** Time On Btm: **2010.10.16 @ 15:57:33**
Time Off Btm: **2010.10.16 @ 17:03:48**

TEST COMMENT: Weak 1/4" in blow died in 9 min.
No return
No blow, pull tool after 5 min.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2152.20	108.84	Initial Hydro-static
1	24.80	108.16	Open To Flow (1)
61	32.81	110.29	Shut-In(1)
61	1116.37	111.70	End Shut-In(1)
62	45.13	111.40	Open To Flow (2)
66	40.66	111.47	Shut-In(2)
67	2090.13	111.70	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	mud 100% m	0.02

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Grand Mesa
1700 N Waterfront PKWY
BLDG 600
Wichita, Ks
ATTN: Steve Carl

Phelps #7-31
31-13-31 Gove, Ks
Job Ticket: 039680 **DST#: 1**
Test Start: 2010.10.16 @ 13:50:33

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	0 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	0 ppm
Viscosity: 59.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.60 in ³	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 4000.00 ppm			
Filter Cake: 1.00 inches			

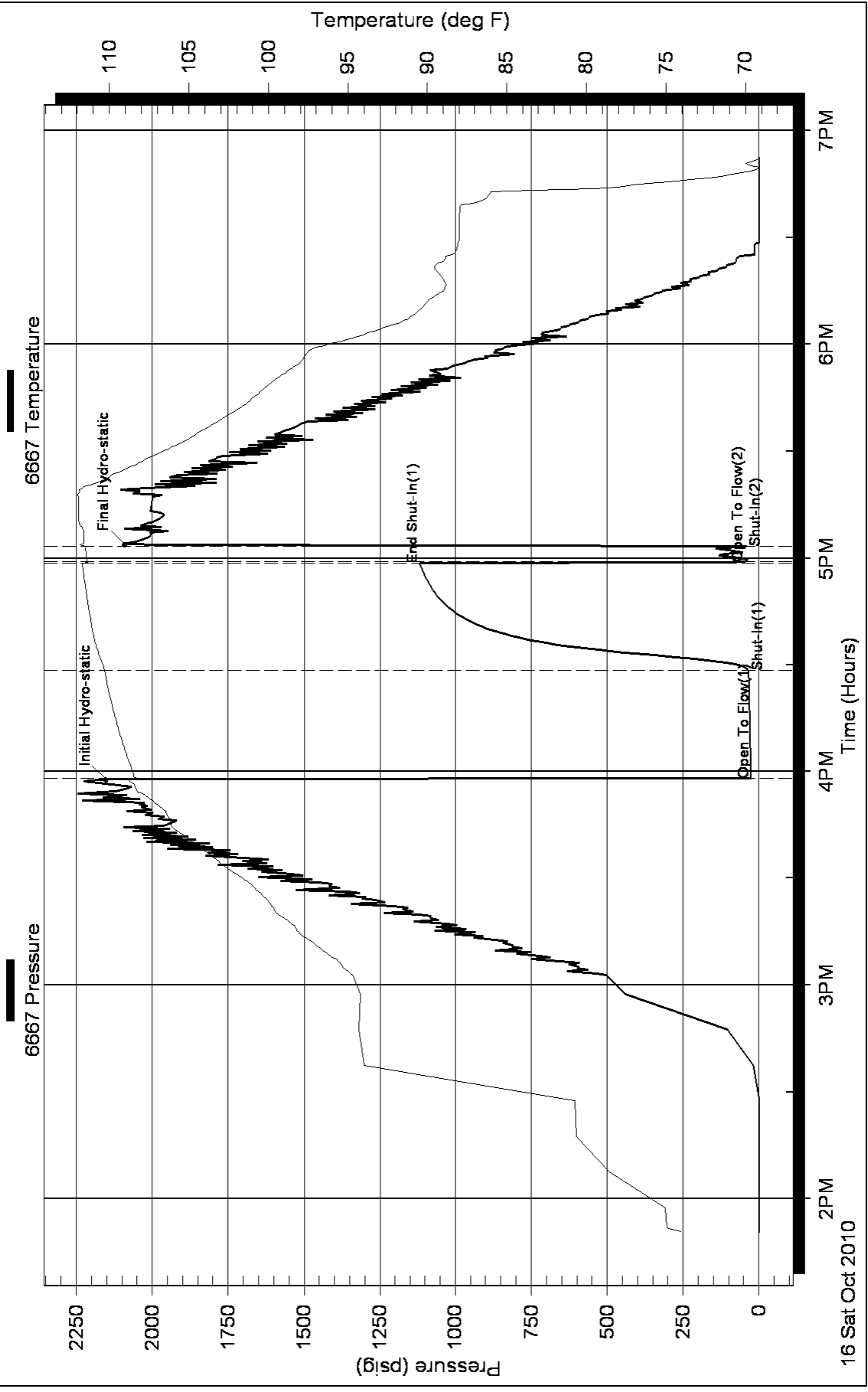
Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	mud 100%m	0.025

Total Length: 5.00 ft Total Volume: 0.025 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:

Pressure vs. Time





**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Grand Mesa
1700 N Waterfront PKWY
BLDG 600
Wichita, Ks
ATTN: Steve Carl

Phelps #7-31
31-13-31 Gove, Ks
Job Ticket: 039681 **DST#: 2**
Test Start: 2010.10.18 @ 01:50:30

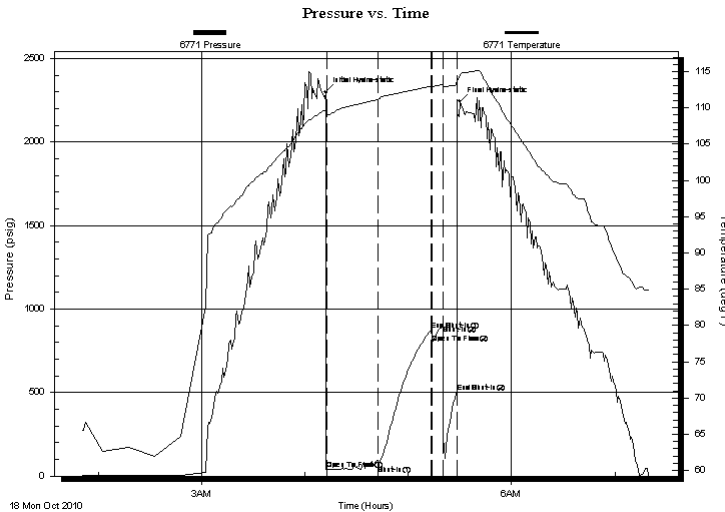
GENERAL INFORMATION:

Formation: **Morrow**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 04:12:15
Time Test Ended: 08:00:45
Interval: **4610.00 ft (KB) To 4693.00 ft (KB) (TVD)**
Total Depth: 4693.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Reference Elevations: 2953.00 ft (KB)
2948.00 ft (CF)
KB to GR/CF: 5.00 ft
Test Type: Conventional Bottom Hole
Tester: Shane McBride
Unit No: 40

Serial #: 6771 Outside
Press @ RunDepth: 905.74 psig @ 4611.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2010.10.18 End Date: 2010.10.18 Last Calib.: 2010.10.18
Start Time: 01:50:30 End Time: 07:20:45 Time On Btm: 2010.10.18 @ 04:11:45
Time Off Btm: 2010.10.18 @ 05:30:00

TEST COMMENT: 1/2" in + blow died in 27 min.
No return
No blow, pull tool after 5 min.
No return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2302.22	109.69	Initial Hydro-static
1	39.41	109.06	Open To Flow (1)
31	63.02	111.16	Shut-In(1)
62	873.70	112.94	End Shut-In(1)
62	798.23	112.93	Open To Flow (2)
69	905.74	113.24	Shut-In(2)
77	504.88	113.16	End Shut-In(2)
79	2245.10	114.60	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	mud 100% m	0.07

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Grand Mesa
1700 N Waterfront PKWY
BLDG 600
Wichita, Ks
ATTN: Steve Carl

Phelps #7-31
31-13-31 Gove, Ks
Job Ticket: 039681 **DST#: 2**
Test Start: 2010.10.18 @ 01:50:30

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	0 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	0 ppm
Viscosity: 66.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.77 in ³	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 4400.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

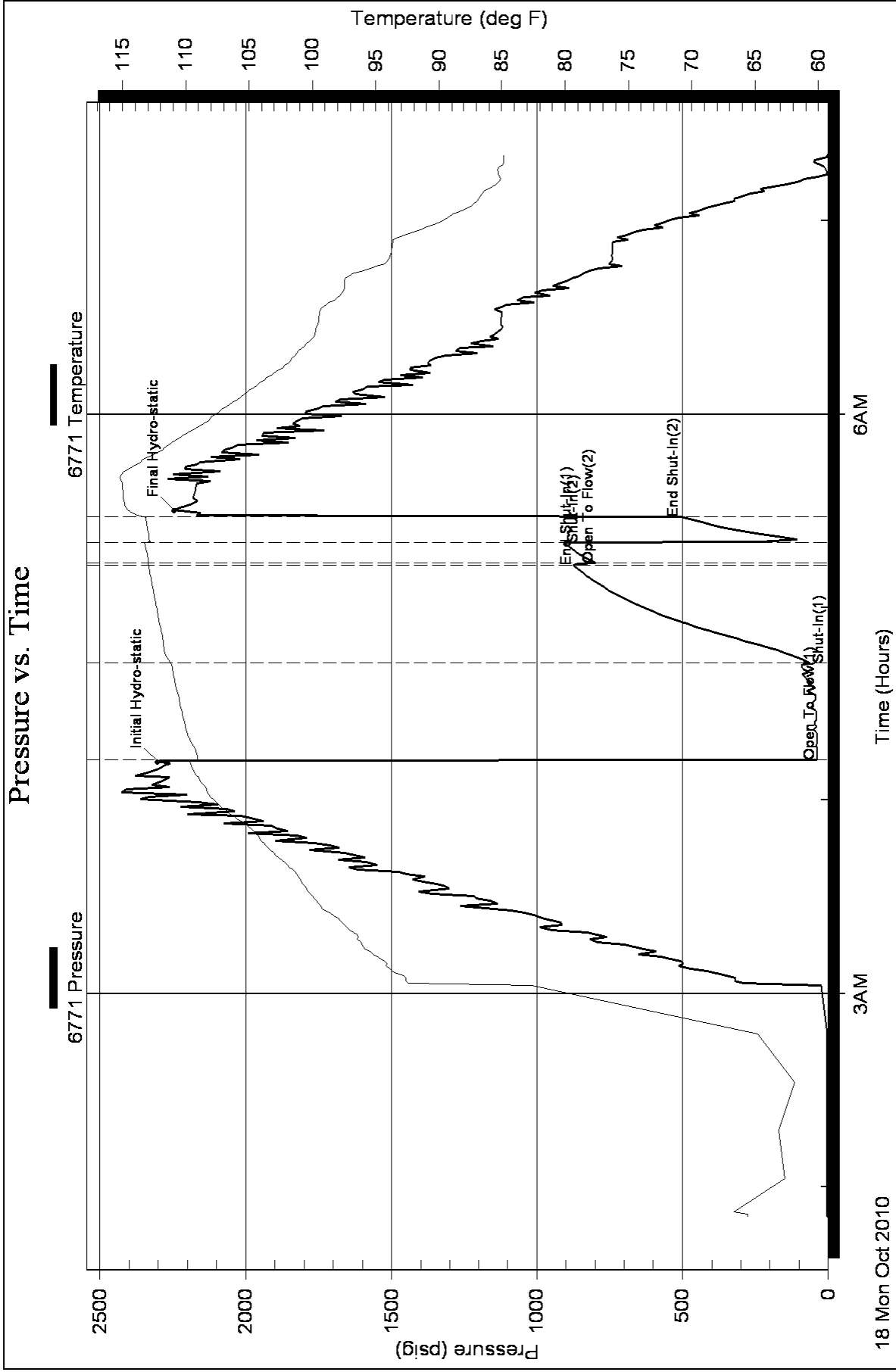
Length ft	Description	Volume bbl
15.00	mud 100%m	0.074

Total Length: 15.00 ft Total Volume: 0.074 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments: not sure w hat happened with recorder 6667 batt w as low runing bench test on it to make sure its not recorder





**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Grand Mesa
1700 N Waterfront PKWY
BLDG 600
Wichita, Ks
ATTN: Steve Carl

Phelps #7-31
31-13-31 Gove, Ks
Job Ticket: 039682 **DST#: 3**
Test Start: 2010.10.18 @ 16:50:26

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API: 0 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: 21000 ppm
Viscosity: 50.00 sec/qt	Cushion Volume: bbl	
Water Loss: 7.98 in ³	Gas Cushion Type:	
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig	
Salinity: 4000.00 ppm		
Filter Cake: 1.00 inches		

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
120.00	s o c w m 2%o 38%w 60%m	0.590
300.00	w c m w/oil scum 40%w 60%m	4.208
105.00	s w c m 15%w 85%m	1.473

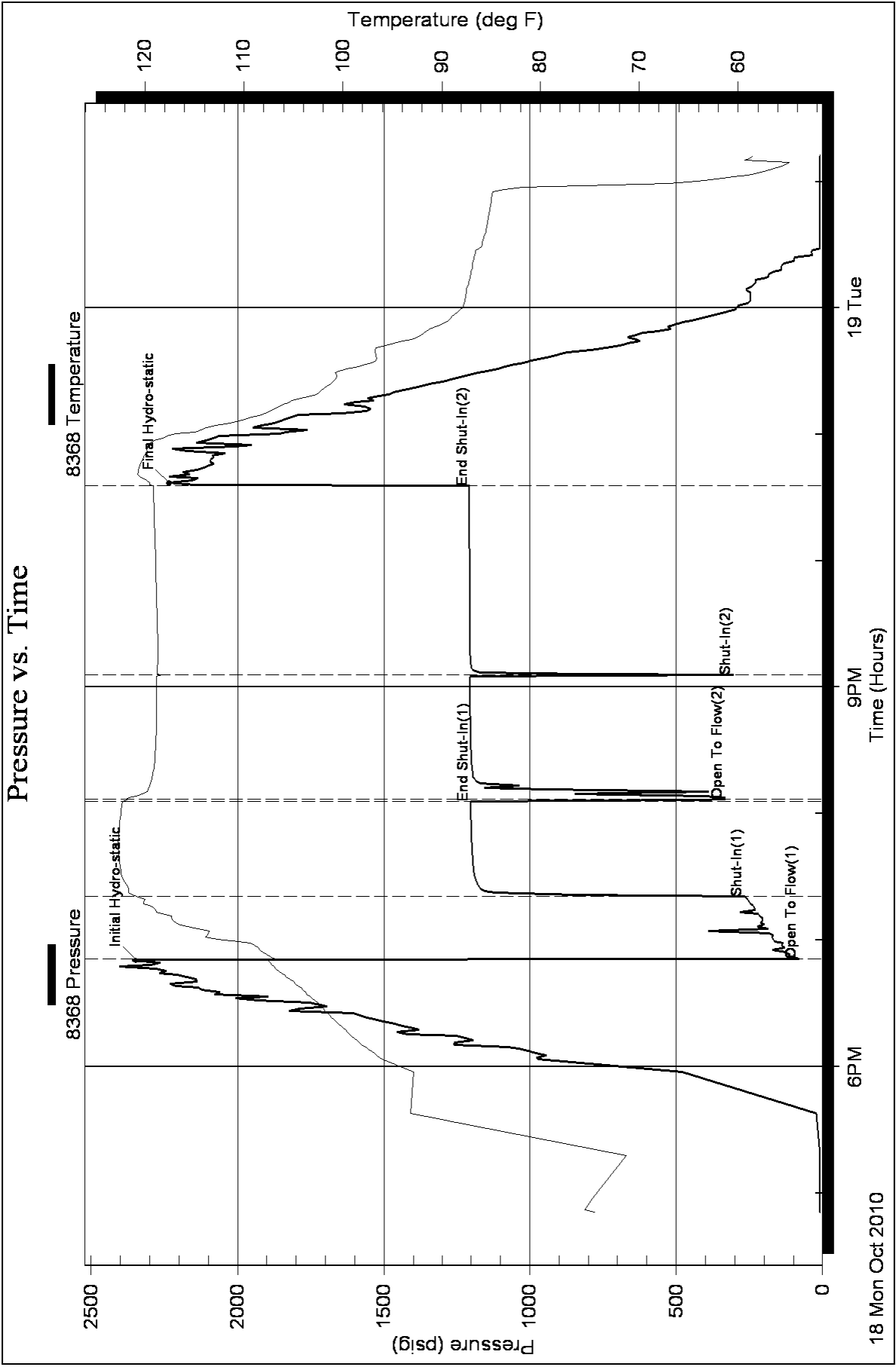
Total Length: 525.00 ft Total Volume: 6.271 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments: rw .391 @ 56*f= 21,000 chlor

Pressure vs. Time



ALLIED CEMENTING CO., LLC. 035484

Federal Tax I.D.# 20-5975804

REMIT TO P.O. BOX 31
RUSSELL, KANSAS 67665

SERVICE POINT:

Dickley KS

DATE <i>10/11/10</i>	SEC. <i>31</i>	TWP. <i>13</i>	RANGE <i>31</i>	CALLED OUT	ON LOCATION	JOB START <i>6:00</i>	JOB FINISH <i>6:30</i>
LEASE <i>Perms</i>	WELL # <i>7-31</i>	LOCATION <i>Dickley 20, 2W 3 1/2</i>			COUNTY <i>Cove</i>	STATE <i>K</i>	
OLD OR NEW (Circle one)			<i>North</i>				

CONTRACTOR *Mur Fin 24*

TYPE OF JOB *Surface*

HOLE SIZE *12 1/4* T.D. *220*

CASING SIZE *8 7/8* DEPTH *220*

TUBING SIZE DEPTH

DRILL PIPE *4 1/2* DEPTH

TOOL DEPTH

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT

CEMENT LEFT IN CSG. *15'*

PERFS.

DISPLACEMENT *13.05*

OWNER *Same*

CEMENT AMOUNT ORDERED *165 Com*

3070 CC 2070 gel

COMMON	<i>165 SK1</i>	@	<i>15.45</i>	<i>2549</i>	<i>25</i>
POZMIX		@			
GEL	<i>3</i>	@	<i>20.80</i>	<i>62</i>	<i>40</i>
CHLORIDE	<i>6</i>	@	<i>58.20</i>	<i>349</i>	<i>20</i>
ASC		@			
		@			
		@			
		@			
		@			
		@			
		@			
		@			
		@			
HANDLING	<i>174</i>	@	<i>2.40</i>	<i>417</i>	<i>60</i>
MILEAGE	<i>10 @ 5K/mile</i>			<i>388</i>	<i>0</i>
				TOTAL	<i>3726</i>
					<i>95</i>

EQUIPMENT

PUMP TRUCK # *434* CEMENTER *Alan*

HELPER *Kelly*

BULK TRUCK # *373* DRIVER *Barren*

BULK TRUCK # DRIVER

REMARKS:

Run 8 7/8 Csg Circulate Mix 165 SK1

Com 3070 CC 2070 gel

Displace w/ 13.05 BBL H₂O

Cement did circulate

Thank You

Alan Kelly, Barren

CHARGE TO: *Grand Mesa*

STREET

CITY STATE ZIP

SERVICE

DEPTH OF JOB	
PUMP TRUCK CHARGE	<i>1018</i>
EXTRA FOOTAGE	@
MILEAGE	<i>2.0 @ 70 140</i>
MANIFOLD	@
	@
	@
TOTAL <i>1158</i>	

PLUG & FLOAT EQUIPMENT

	@
	@
	@
	@
	@
TOTAL	

To Allied Cementing Co., 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 *Anthony Martin*

SIGNATURE *Anthony Martin*

SALES TAX (If Any)

TOTAL CHARGES

DISCOUNT IF PAID IN 30 DAYS

ALLIED CEMENTING CO., LLC. 035493

Federal Tax I.D.# 20-5975804

REMIT TO P.O. BOX 31
RUSSELL, KANSAS 67665

SERVICE POINT:

Oakley KS

DATE <i>10/19/10</i>	SEC. <i>31</i>	TWP. <i>13</i>	RANGE <i>31</i>	CALLED OUT	ON LOCATION	JOB START <i>2:00p</i>	JOB FINISH <i>2:30pm</i>
LEASE <i>Phelps</i>	WELL # <i>7-31</i>	LOCATION <i>Oakley 2052E 3/4N</i>			COUNTY <i>Osage</i>	STATE <i>KS</i>	
OLD OR NEW (Circle one)				<i>Exho</i>			

CONTRACTOR *Murphy 24*

TYPE OF JOB *PT*

HOLE SIZE *7 7/8* T.D.

CASING SIZE *8 7/8* DEPTH

TUBING SIZE DEPTH

DRILL PIPE *4 1/2* DEPTH

TOOL DEPTH

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT

CEMENT LEFT IN CSG.

PERFS.

DISPLACEMENT

OWNER *Stamm*

CEMENT AMOUNT ORDERED *220 SK 60/40*

470 gel 746 ProSeal

COMMON	<i>132</i>	@	<i>15.45</i>	<i>2039.40</i>
POZMIX	<i>88</i>	@	<i>8.00</i>	<i>704.00</i>
GEL	<i>8</i>	@	<i>20.00</i>	<i>166.40</i>
CHLORIDE		@		
ASC		@		
<i>ProSeal 95lb</i>		@	<i>2.50</i>	<i>137.50</i>
		@		
		@		
		@		
		@		
		@		
HANDLING	<i>230 gals</i>	@	<i>2.40</i>	<i>549.00</i>
MILEAGE	<i>100 SK/mile</i>			<i>460.00</i>
TOTAL				<i>4059.30</i>

EQUIPMENT

PUMP TRUCK CEMENTER *Alan*

386-281 HELPER *Wayne*

BULK TRUCK

394-287 DRIVER *James*

BULK TRUCK

DRIVER

REMARKS:

25 SK @ 2445'

100 SK @ 1523'

40 SK @ 270'

10 SK @ 40'

30 - Rent Hole

15 - Mouse Hole

SERVICE

DEPTH OF JOB			
PUMP TRUCK CHARGE			<i>1185.00</i>
EXTRA FOOTAGE	@		
MILEAGE	<i>80</i>	@	<i>7.00</i> <i>140.00</i>
MANIFOLD	@		
	@		
	@		
TOTAL			<i>1325.00</i>

CHARGE TO *Crand Mesa*

STREET _____

CITY _____ STATE _____ ZIP _____

PLUG & FLOAT EQUIPMENT

<i>8' Wood Plug</i>	@	<i>40.00</i>
	@	
	@	
	@	
	@	
TOTAL		<i>40.00</i>

To Allied Cementing Co., 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 *Anthony Martin*

SIGNATURE *Anthony Martin*

SALES TAX (If Any) _____

TOTAL CHARGES _____

DISCOUNT _____ IF PAID IN 30 DAYS

GRAND MESA

OPERATING COMPANY

(316) 265-3000
FAX: (316) 265-3455

1700 N. WATERFRONT PARKWAY
BLDG. 600
WICHITA, KANSAS 67206-5514

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

Well Name: #7-31 Phelps
Location: 1035'FSL, 935'FWL, 31-13s-31w, Gove County, Kansas
License Number: API: 15-063-21871 Region: Maurice NE
Spud Date: 10-12-2010 Drilling Completed: 10-19-2010
Surface Coordinates: Lat: 38.876253
Long: -100.812873
Bottom Hole Coordinates: Vertical hole
Ground Elevation (ft): 2948' K.B. Elevation (ft): 2953'
Logged Interval (ft): Surface To: 4777 Total Depth (ft): 4779'
Formation: Mississippian (Spergen) at RTD
Type of Drilling Fluid: Chemical

Printed by MUD.LOG from WellSight Systems 1-800-447-1534 www.WellSight.com

GEOLOGIST

Name: Steven P. Carl
Company: Grand Mesa Operating Company
Address: 1700 N. Waterfront Pkwy Bldg #600
Wichita, Kansas 67206

COMMENTS

Contractor: Murfin Drilling Company Rig #24
Surface Casing: 8 5/8" set at 211' w/165sx
Mud by: MudCo - Engineer - Reid Atkins
DST's by: Trilobite Testing Inc.
Logs by: Weatherford (DIL, CN-CD, ML)
LTD = 4777ft.

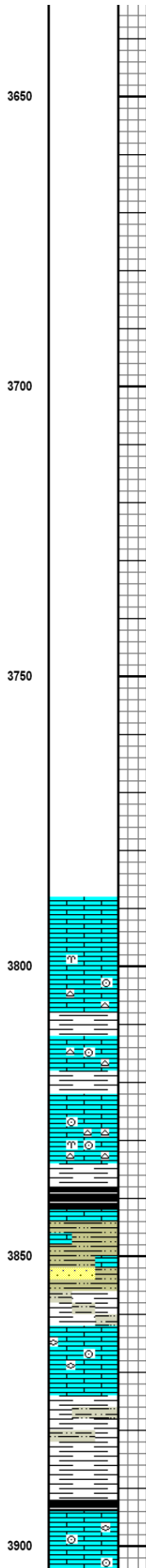
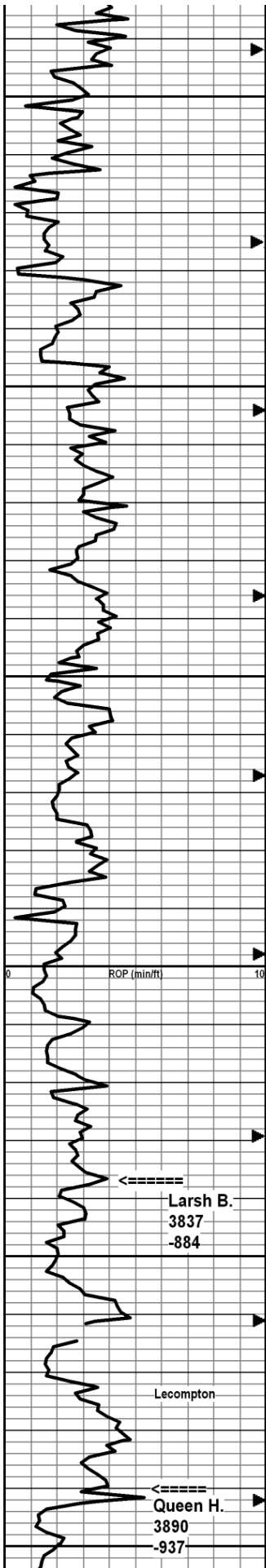
DST and Log data did not support further testing of this well and it was therefore plugged and abandoned on October 19, 2010.

FORMATION TOPS AND STRUCTURAL POSITION

FORMATION	SAMPLE TOPS		LOG TOPS	
	Depth	Datum	Depth	Datum
Stone Corral	2436'	+517	2436'	+517
B/Stone Corral	2459'	+494	2457'	+496
Heebner Shale	3952'	-999	3950'	-997
Lansing	3998'	-1045	3996'	-1043
Muncie Creek Shale	4159'	-1206	4156'	-1203
Stark Shale	4250'	-1297	4248'	-1295
Marmaton	4355'	-1402	4355'	-1402
Upper Fort Scott	4460'	-1507	4459'	-1506
Little Osage Shale	4491'	-1538	4489'	-1536
Johnson Zone	4591'	-1638	4591'	-1638
Morrow	4416'	-1663	4617'	-1664
Mississippian	4735'	-1782	4734'	-1781
RTD	4779'	-1826		
LTD			4777'	-1824

Rate of Penetration
ROP (min/ft)

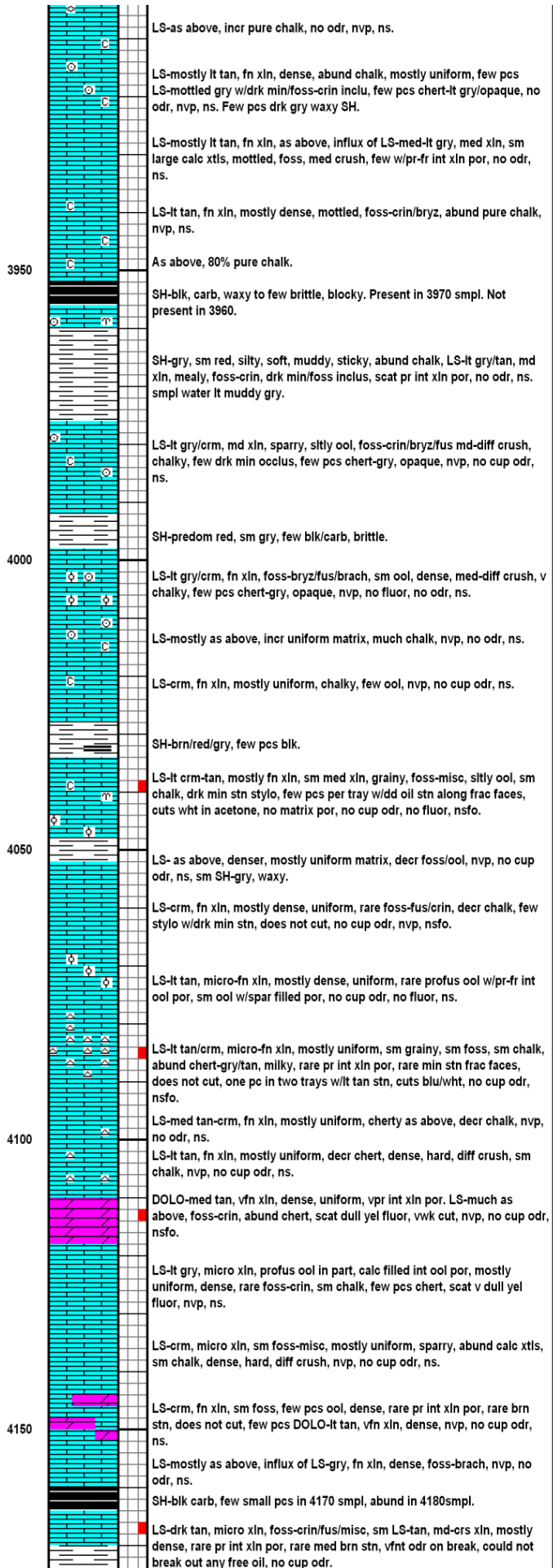
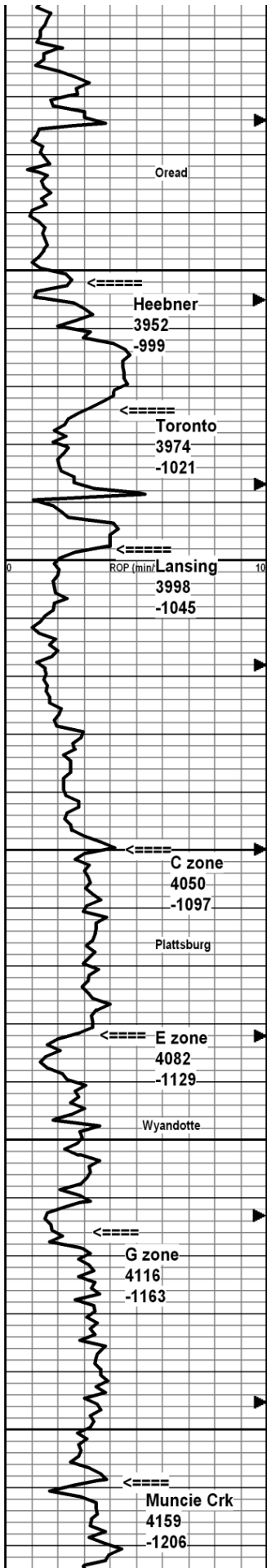
IWS

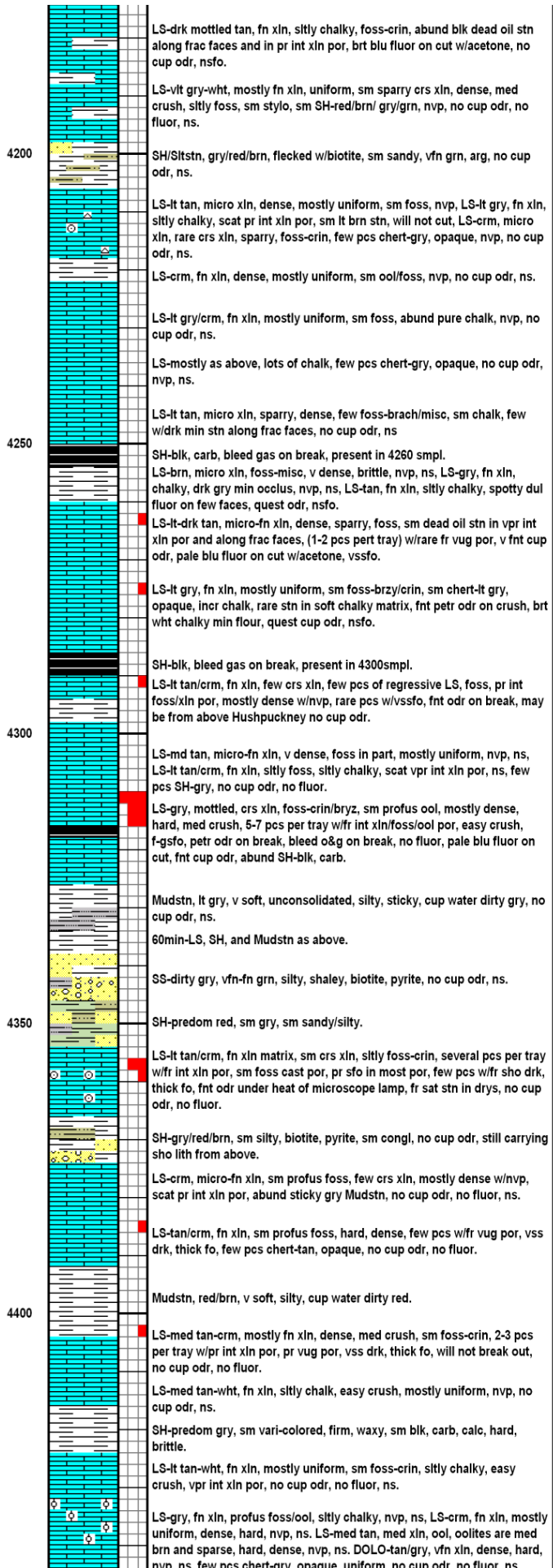
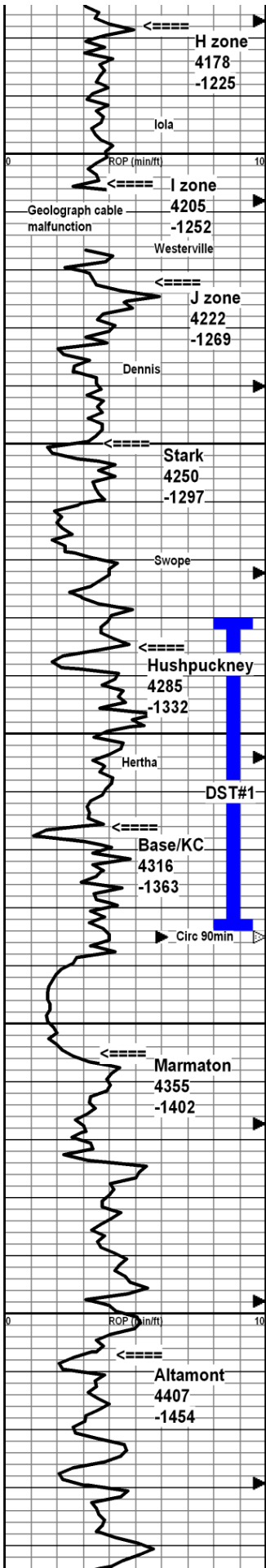


Samples start at 3800'

- LS-lt tan, md xln, mealy, silty chalky matrix, sm pure chalk, med crush, sparry, sm lrg calc xtls, v foss-misc/bryz/crin, rare clr chert, pr int xln por, no odr, ns.
- LS-mostly as above, mealy, chalky, incr pure chalk, incr chert-gry, opaque, SH-med gry, mostly soft, blocky, sm med hard, fissile, sm tiny flecks of biotite.
- LS-lt tan, fn xln, grainy, uniform, med-diff crush, nvp, sm LS-gry, transgr w/foss-crin, abund Chert-gry, opaque.
- LS-med tan, md xln, grainy, mealy, med crush, foss- misc/brach, abund chert as above, nvp, ns. few pcs SH-drk gry, uniform.
- SH-blk, carb, present in 3850 smpl.
- SH-lt gry, v sandy/silty, vfn grn, arg, rounded pcs in smpl, soft/friable, few pcs fairly clean, nvp, no odr, ns. Several LS's as above, incr in LS-gry, vfn xln, dense, uniform, nvp.
- Mudstn-lt brn, silty, smple cup water muddy gry/brn.
- LS-md-lt gry, fn-med xln, abund foss-crin/fus, sm sparry, abund pure chalk, nvp, ns.
- Mudstn-med red/brn, silty, v soft, cup water muddy brn.
- Mudstn as above.
- LS-lt tan/gry, fn-med xln, grainy, sm spar, v foss-crin/fus, rare ool, chalky, sm LS-med gry, dense uniform, few pcs SH-vdrk gry/blk, carb.

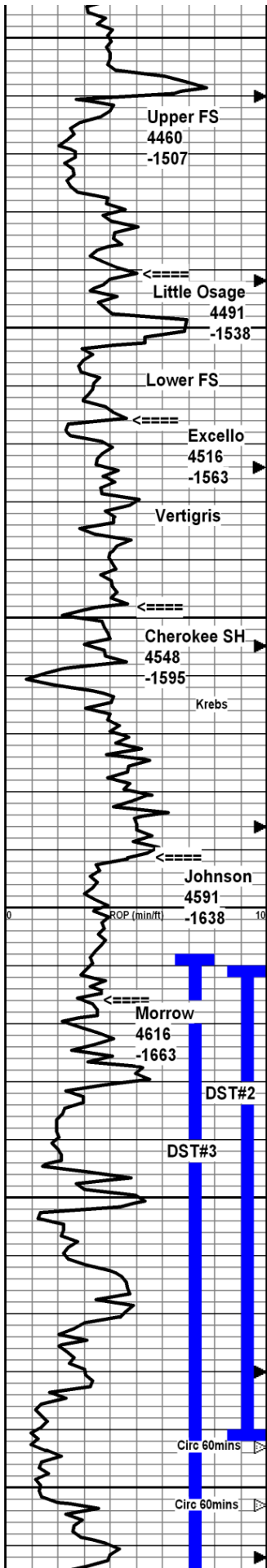
Mudco: 3877
 Wt: 8.8
 Vis: 62
 Yield: 20
 pH: 10
 Filt: 8.8
 Chlor: 2000
 LCM: 2





DST#1 - Hertha
 4281' - 4335'
 30-30-5-OUT
 Rec: 5'Mud
 IFF: 24-32#
 FFP: 45-40#
 ISIP: 1116#
 FSIP: N/A
 BHT: 112deg

Mudco: 4335'
 Wt: 9.2
 Vis: 59
 Yield: 21
 pH: 9.5
 Fil: 7.6
 Chlor: 4000
 LCM: 1



4450	LS-orm, micro xln, profus ool, foss-brach, dense, easy crush, brittle, all int ool por filled w/calcite, nvp, no cup odr, sm dul min (calcite) fluor, sm lt brn min stn in few chalky pcs, does not cut, few pcs chert-wht, milky, ns.
	SH-blk, carb.
	LS-orm, micro-fn xln, decr ool, influx LS-med tan, micro xln, v dense, hard, foss-brach/erin, nvp, influx of abund chert-milky, foss, no cup odr, ns.
	LS-med tan, micro-fn xln, uniform, rare foss, chert-as above, sm chalky int xln por, lt brn edge stn in few pcs, v fnt blu fluor when cut w/acetone, v fnt cup odr, nsfo.
	SH-blk, carb, abund in 4500smp.
	LS-med brn, fn xln, hard, dense, sltly foss-fus, nvp, ns.
4500	SH-gry, waxy, no cup odr, ns.
	LS-gry, fn xln, uniform, dense, med crush, rare foss-brach, sm grainy, abund chert-drk gry/wht, op to milky, no cup odr, no fluor, ns.
	SH-blk, carb, abund in 4330 smp. One pc LS-lt gry, fr vug por, ss drk, tarry fo, will not break out, no fluor, no cup odr.
	LS-med-lt gry, fn xln, profus ool/pis, drk gry ool, sm w/soft chalky matrix, easy crush, sm hard matrix, med crush, abund SH-blk, carb, no cup odr, spotty min fluor, ns.
	LS-tan-gry, fn xln, profus ool as above, influx chert-drk gry, opaque, no odr, all int ool por filled w/brittle chalky calc matrix, ns.
	LS-tan, micro xln, v dense, hard, diff crush, rare pr vug por, vss tarry fo in vugs, no cup odr, no fluor.
4550	SH-blk, carb.
	LS-drk tan, fn xln, ool, dense, hard, nvp, no cup odr, ns.
	LS-gry/tan, fn xln, dense, hard, uniform, nvp, no cup odr, ns.
	LS-gry/tan, fn xln, sm uniform to sltly foss, sm ool, sltly chalky, few pcs chert, all dense, sm LS-med tan, micro xln, v dense, hard, uniform, nvp, no cup odr, ns.
	LS-gry/tan, fn xln, mostly uniform, sm foss, sm ool, no cup odr, nvp, ns, abund SH-blk, carb.
	SH-blk/gry, not carb, fissile.
	LS-predom gry, fn xln, uniform, sm foss, v dense/hard, few pcs crs xln w/pr int xln por, vss blk thk fo, abund chert-gry, milky, glassy, vitreous, no cup odr, no fluor.
4600	LS-med-lt tan, fn xln, uniform, dense, hard, rare foss-coral, nvp, no odr, ns.
	LS-as above, influx blu/gry SH.
	SS-wht, vfn-fn grn, mod sorted, sub rounded, calc, well cemented, hard, many loose grns in tray, abund gry SH, nvp, no cup odr, ns.
	LS-drk-med tan, fn xln, uniform, dense, hard, nvp, no cup odr, ns, decr SS as above, ns.
	SH-predom gry, sm olive, silty, sandy, many loose SS grns-fn grn, mod well strtd, sub rounded, no cup odr, no fluor, ns.
4650	SH-predom gry, sm red/brn, sm blk, rare olive, mostly silty, sm sand grns, fn grn as above, rare foss-brach, rare coalified plant remains, abund pyrite xtis.
	SH-predom drk gry, as above, abund coalified plant remains, abund pyrite xtis, few SS clusters-dirty gry, vfn grn, arg, well cem, hard, med crush, nvp, no cup odr, no fluor, ns.
	SH-drk gry as above, decr pyrite, few loose sand grns, all fn grn as above, no odr, no fluor, ns.
	SS-wht, vfn grn, clean qtz grns, well strtd, sub rnded, sltly calc (mod eff), semi friable, easy to med crush, abund glauc, abund pr-fr sat blk flakey dead oil (average 10%sat) cuts pale gry, nsfo, no cup odr, no fluor.
4700	4703 60min smp: SS-wht, as above, abund flakey, dead oil stn, sample is predom drk gry/blk shale, silty/sandy, no cup odr, no fluor, nsfo.
	SH-med to drk gry/blk, decr sandy/silty, block/firm, fissile, abund coalified plant remains, decr sand clusters as above, no cup odr, no fluor, ns.

Rig check @ 4491 add
-25min to 4500 lag

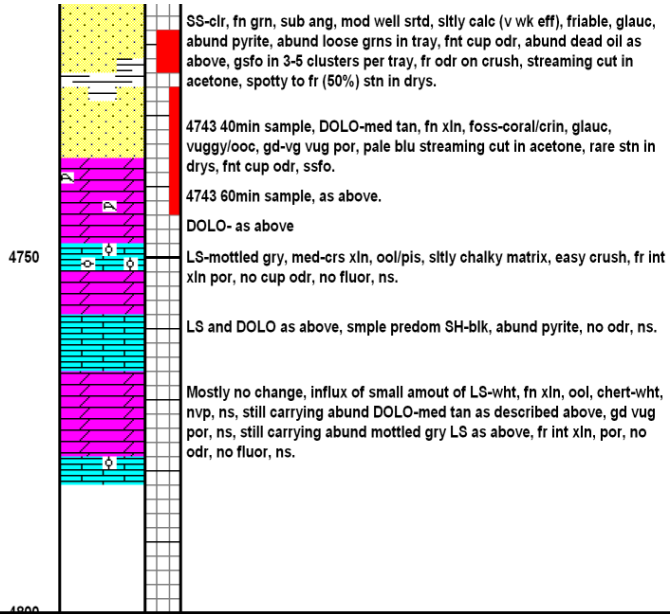
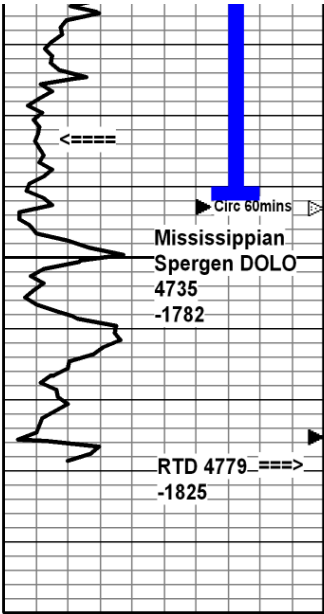
Mudco: 4504'
Wt: 9.2
Vis: 66
Yield: 23
pH: 10
Filt: 8.8
Chlor: 4,400
LCM: 1

DST#2- Morrow
4610' - 4693'
30-30-5-OUT
Rec: 15'Mud
IFP: 39-63#
FFP: N/A
ISIP: 973#
FSIP: N/A
BHT: 114deg.
Tool plugged during 2nd
open period.

Mudco: 4693'
Wt: 9.3
Vis: 50
Yield: 17
pH: 10
Filt: 8.0
Chlor: 4000
LCM: 1

4680' Repair mud pump.
Down 51 mins.

DST#3-Morrow
Miss
4608'-4743'
30-45-60-90
Rec:
120' SOCWCM
300' WCM, Scum O
105' SWCM



IFP: 81-266#
 FFP: 334-305#
 ISIP: 1201#
 FSIP: 1205#
 BHT: 120deg
 Chlor: 21,000ppm
 Tool plugged during 2nd open period.

Mudco: 4779'
 Wt: 8.9
 Vis: 73
 Yield: 30
 pH: 10
 Filt: 8.0
 Chlor: 4,200
 LCM: 8#

Lost Circ @ 4779'



*Mark Parkinson, Governor
Thomas E. Wright, Chairman
Joseph F. Harkins, Commissioner
Ward Loyd, Commissioner*

October 27, 2010

Ronald N. Sinclair
Grand Mesa Operating Company
1700 N WATERFRONT PKWY BLDG 600
WICHITA, KS 67206-5514

Re: ACO1
API 15-063-21871-00-00
Phelps 7-31
SW/4 Sec.31-13S-31W
Gove County, Kansas

Dear Production Department:

We are herewith requesting that the Well Completion Form ACO-1 and attached information for the subject well be held confidential for a period of two years.

Should you have any questions or need additional information regarding subject well, please contact our office.

Respectfully,
Ronald N. Sinclair