



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

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: _____



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	HUND 2-9
Doc ID	1059461

Tops

Name	Top	Datum
Stone Corral	2413	+523
Bs/Stone Corral	2434	+502
Heebner	3954	-1018
Lansing	3993	-1057
Muncie Creek	4151	-1215
Hushpuckney	4279	-1343
Marmaton	4352	-1416
Little Osage	4464	-1528
Morrow	4585	-1649
Mississippian	4624	-1688
LTD	4740	

ALLIED CEMENTING CO., LLC. 043307

Federal Tax I.D.# 20-5975804

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

SERVICE POINT:
Oakley

DATE <u>5-3-11</u>	SEC <u>9</u>	TWP. <u>14</u>	RANGE <u>31</u>	CALLED OUT	ON LOCATION	JOB START <u>8:00pm</u>	JOB FINISH <u>8:30pm</u>
LEASE <u>Hand</u>	WELL # <u>2-9</u>	LOCATION <u>Oakley 20s 4E 1/2 N</u>			COUNTY <u>Gove</u>	STATE <u>KS</u>	
OLD OR (NEW) (Circle one)			<u>EINTO</u>				

CONTRACTOR Murfin Drilling Rig 24 OWNER same

TYPE OF JOB Surface
 HOLE SIZE 12 1/4 T.D. 222'
 CASING SIZE 8 7/8 DEPTH 222'
 TUBING SIZE _____ DEPTH _____
 DRILL PIPE _____ DEPTH _____
 TOOL _____ DEPTH _____
 PRES. MAX _____ MINIMUM _____
 MEAS. LINE _____ SHOE JOINT _____
 CEMENT LEFT IN CSG. 15
 PERFS. _____
 DISPLACEMENT 13.18 bbl

EQUIPMENT

PUMP TRUCK CEMENTER Andrew
 # 423-281 HELPER Jerry
 BULK TRUCK
 # 394 DRIVER Wes
 BULK TRUCK
 # _____ DRIVER _____

REMARKS:

Cement did circulate

Thank you

CHARGE TO: Grand mesa
 STREET _____
 CITY _____ STATE _____ ZIP _____

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

CEMENT
 AMOUNT ORDERED 165 sks com
3900 280 gal

COMMON	<u>165 sks</u>	@	<u>16.25</u>	<u>2681.25</u>
POZMIX		@		
GEL	<u>3 sks</u>	@	<u>21.25</u>	<u>63.75</u>
CHLORIDE	<u>6 sks</u>	@	<u>58.20</u>	<u>349.20</u>
ASC		@		
		@		
		@		
		@		
		@		
		@		
		@		
HANDLING	<u>174 sks</u>	@	<u>2.25</u>	<u>391.50</u>
MILEAGE	<u>11 1/2 sks/mile</u>			<u>478.50</u>
				TOTAL <u>3964.20</u>

SERVICE

DEPTH OF JOB 222'
 PUMP TRUCK CHARGE _____ 1125.00
 EXTRA FOOTAGE _____ @ _____
 MILEAGE 25 miles x 2 @ 7.00 350.00
 MANIFOLD head @ _____ 200.00
light vehicle @ 4.00 200.00

TOTAL 1875.00

PLUG & FLOAT EQUIPMENT

_____	@	_____
_____	@	_____
_____	@	_____
_____	@	_____
_____	@	_____
TOTAL _____		

SALES TAX (If Any) _____
 TOTAL CHARGES _____
 DISCOUNT _____ IF PAID IN 30 DAYS

JOB LOG

SWIFT Services, Inc.

DATE 12 MAY 11 PAGE NO. 1

CUSTOMER GRAND MESA WELL NO. LEASE HUND 2-9 JOB TYPE 5 1/2 LONGSTRING TICKET NO. 20790

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	2100							ON LOCATION
	2210							START PIPE. 5 1/2 - 15.5 #
								RTD 4744 SET @ 4740'
								SHOE ST. 11'
								CENTRALIZERS. 1, 3, 5, 7, 9, 11, 13, 15, 53
								BASKETS. 2, 54.
	0049							DROP BALL CIRCULATE
	0116	6	12		✓			500 Pump 500 gal MUD FLUSH
	0118	6	20		✓			500 Pump 20 BBL KCL FLUSH
	0122	4	42		✓			400 MIX 175 SX EA 2
	0136							WASH OUT PUMPING LINES.
	0139	6			✓			RELEASE PLUG START DISPLACEMENT
	0159	Ø	113		✓			1500 PLUG DOWN PRESSURE UP LATCH PLUG IN.
	0201							RELEASE PRESSURE DRY
	0202							DROP BOMB
	0216							1200 OPEN DV TOOL
	0217							CIRCULATE
	0330	6	20		✓			Pump 20 BBL KCL FLUSH
	0335		7.5		✓			PLUG RH-MH (30 SX - 20 SX)
	0342	4	138		✓			MIX 250 SX SMD
	0411							WASH OUT PUMPING LINES.
	0414	6			✓			RELEASE PLUG START DISPLACEMENT
	0425		57 1/2		✓			1700 PLUG DOWN PRESSURE UP CLOSE DV TOOL
	0427							RELEASE PRESSURE DRY
								CIRCULATE 40 SX TO PIT
	0430							WASH TRUCK.
	0500							JOB COMPLETE
								THANKS # 110
								JASON JEFF DAVID JOE.

JOB LOG

SWIFT Services, Inc.

DATE 8/21/11 PAGE NO.

CUSTOMER Grand Mesa WELL NO. 2-9 LEASE Hund JOB TYPE acidize perf's TICKET NO. 20830

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
								500 MCA 15% 2 7/8 x 5 1/2 packer 4525 perf's 45666-71
	1300							on loc TR114
	1410							scrubbed dry - no spit start down hole w/ 12 bbl acid
	1415		27			200		staging
						30		go to 300
	1430					700		staging @ 700 psi
	1445		27 1/2			1200		staging @ 1200 psi
	1515		28			1400		staging @ 1400 psi
	1545		28 1/2			1400		staging
	1550							Release packer pull 8 stands (approx 500)
								- Set packer - pressure to 1400 psi -
	1605		26.6					pump H2O to release tubing lead tubing pump up to 1400 - falls off immediately
	1645	14	39			1000		pumping into tubing shut down instant vac - pull packer - job complete
								Plunk Pave & Plunk

JOB LOG

SWIFT Services, Inc.

DATE 060911 PAGE NO. 1

CUSTOMER GRAND MESA WELL NO. 2-9 LEASE HUND JOB TYPE ACIDIZE FORMATION TICKET NO. 20861

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1533							ON LOCATION GONZALEZ SWABING,
								TRAIL 4200' PERFS. 4566'-71'
								FED. HT. 387' SPOT 4587' 3.04 Bbl
								2 7/8 x 5 1/2 TREAT 4463'
								500 gals 2090 MCACS. 108' 2.5 704 Bbl
								Tb. 4463' 25.84077 Bbl
								TOTAL 28.41117 Bbl
	1605	3.0	5	✓		0-VAC		SPOTTED ACID
	1618	3.75	5.25	✓		0		START PUMPING
	1621	2	12	✓		0		ON FLUSH
	1624	3.5	28.5	✓		0		ACID STARTING INTO FORMATION
	1628	2.5	32	✓		300		LOADED 4 Bbl LATE PSI INCREASING
	1629	1.25	34	✓		700		TREATING ADJUST RATE TO PSI
	1632	1	36	✓		700		"
	1633	.86	37	✓		700		"
	1634	.5	38	✓		700		"
	1636	.5	39	✓		700		"
	1637	.75	40	✓		700		"
	1639	.70	40.5	✓		700		ON OPEN FLUSH
	1640	.70-0	42	✓		700		TRIP INSTANT FALL
				✓		VAC		2 MIN
								REW DOWN
								TICKET
	1715							Job Completed
								THANK YOU DUSTY & RUSSELL

JOB LOG

SWIFT Services, Inc.

DATE 06/14/11 PAGE NO. 1

CUSTOMER GRAND MESA WELL NO. 2-9 LEASE HUND JOB TYPE ACIDIZE FORMATION TICKET NO. 20846

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	0815							DN LOCATION GONZALES SWAB TESTER, 1,000 Gals 1590 MCA
								TAIL SEATED PERFS 4477'-87'
								FED HT DRY SPOT 4487' 1 Bbl
								2 7/8 x 5 1/2 TREAT 4433'
								CS. 54' 1.2852 Bbl
								Tb. 25.46707 Bbl
								TOTAL 26.95227 Bbl
	0828	2-0	1	✓		0-VAC		SPOTTED ACID
	0840	3	1.1	✓		0		START PUMPING
	0847	3-75	24	✓		0		DN FLUSH
	0848	3-0	26	✓		0-VAC		SHUT DOWN LST LOAD
	0849	0	29	✓		VAC		2 Bbl OUT
	0850	.67	31	✓		400		TREATING
	0852	1.97	32	✓		700		"
	0853	1.03	33	✓		700		"
	0854	1	34.5	✓		700		"
	0858	1	37	✓		700		"
	0901	.80	40	✓		700		"
	0902	1.18	41	✓		700		" RATE INCREASE 1.5 Bbl OUT
	0903	1.19	42	✓		700		"
	0907	1.11	46	✓		700		"
	0911	1.00	49.5	✓		700		"
	0911	1.34	57	✓		700		" BREAK @ DOPR FLUSH
	0912	1.60-0	52	✓		700		ISIP
						VAC		3 MEN SLEWT
								REU DOWN
								TEST
	0940							Job Completed
								THANK YOU DUSTY RUSSELL



DRILL STEM TEST REPORT

Prepared For: **Grand Mesa Operating**

1700 North Waterfront Parkway Building 600
Wichita Kansas 67206

ATTN: Steve Carl

9/14S/31W Gove Co.

Hund # 2-9

Start Date: 2011.05.07 @ 00:00:00

End Date: 2011.05.07 @ 00:00:00

Job Ticket #: 16529 DST #: 1

Superior Testers Enterprises LLC
PO Box 138 Great Bend KS 67530
1-800-792-6902

Printed: 2011.05.07 @ 22:28:41

Grand Mesa Operating

Hund # 2-9

9/14S/31W Gove Co.

DST # 1

Lansing "C-D" Zone

2011.05.07



DRILL STEM TEST REPORT

Grand Mesa Operating

Hund # 2-9

1700 North Waterfront Parkway Building 600
Wichita Kansas 67206

9/14S/31W Gove Co.

Job Ticket: 16529

DST#: 1

ATTN: Steve Carl

Test Start: 2011.05.07 @ 00:00:00

GENERAL INFORMATION:

Formation: **Lansing " C-D" Zone**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:00:00

Time Test Ended: 00:00:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Dylan E Ellis

Unit No: 3345/Great Bend/356

Interval: 4012.00 ft (KB) To 4057.00 ft (KB) (TVD)

Reference Elevations: 2936.00 ft (KB)

Total Depth: 4057.00 ft (KB) (TVD)

2931.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8400 Outside

Press @ Run Depth: 942.79 psia @ 4053.84 ft (KB)

Capacity: 5000.00 psia

Start Date: 2011.05.07

End Date: 2011.05.07

Last Calib.: 2011.05.07

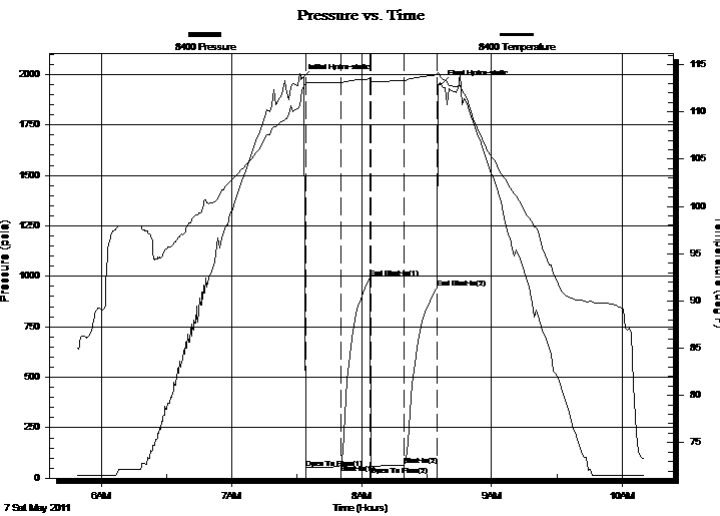
Start Time: 05:49:00

End Time: 10:10:30

Time On Btm: 2011.05.07 @ 07:32:30

Time Off Btm: 2011.05.07 @ 08:36:30

TEST COMMENT: 1ST Opening 15 Minutes very weak surface blow /blow blew just under surface
 1ST Shut-In 15 Minutes no blow blow back
 2ND Opening 15 Minutes opened tool dead/blow blew at surface after 10 minutes/didn't build
 2ND Shut-In 15 Minutes n blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1977.64	112.28	Initial Hydro-static
2	50.92	113.04	Open To Flow (1)
18	65.96	113.12	Shut-In(1)
32	989.85	113.51	End Shut-In(1)
32	59.16	113.25	Open To Flow (2)
47	63.82	113.35	Shut-In(2)
63	942.79	113.95	End Shut-In(2)
64	1950.52	113.64	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Lightly Oil Spotted Mud 100%/Mud	0.02

Gas Rates

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



DRILL STEM TEST REPORT

Grand Mesa Operating

Hund # 2-9

1700 North Waterfront Parkway Building 600
Wichita Kansas 67206

9/14S/31W Gove Co.

Job Ticket: 16529

DST#: 1

ATTN: Steve Carl

Test Start: 2011.05.07 @ 00:00:00

GENERAL INFORMATION:

Formation: **Lansing " C-D" Zone**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:00:00

Time Test Ended: 00:00:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Dylan E Ellis

Unit No: 3345/Great Bend/356

Interval: 4012.00 ft (KB) To 4057.00 ft (KB) (TVD)

Reference Elevations: 2936.00 ft (KB)

Total Depth: 4057.00 ft (KB) (TVD)

2931.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8405

Inside

Press @ Run Depth: 938.15 psia @ 4052.84 ft (KB)

Capacity: 5000.00 psia

Start Date: 2011.05.07

End Date:

2011.05.07

Last Calib.:

2011.05.07

Start Time: 05:49:00

End Time:

10:09:30

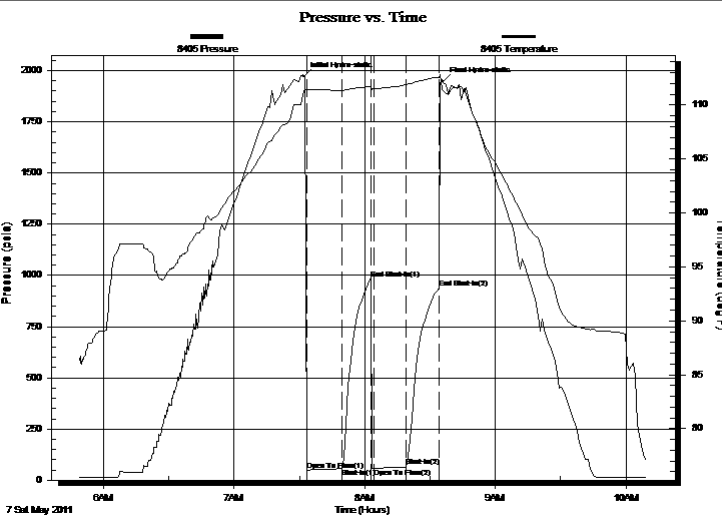
Time On Btm:

2011.05.07 @ 07:32:00

Time Off Btm:

2011.05.07 @ 08:36:00

TEST COMMENT: 1ST Opening 15 Minutes very weak surface blow /blow blew just under surface
 1ST Shut-In 15 Minutes no blow blow back
 2ND Opening 15 Minutes opened tool dead/blow blew at surface after 10 minutes/didn't build
 2ND Shut-In 15 Minutes n blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1972.64	111.26	Initial Hydro-static
2	49.30	111.37	Open To Flow (1)
18	59.18	111.34	Shut-In(1)
31	984.96	111.73	End Shut-In(1)
32	57.83	111.55	Open To Flow (2)
47	67.53	111.87	Shut-In(2)
62	938.15	112.60	End Shut-In(2)
64	1946.77	111.30	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Lightly Oil Spotted Mud 100%/Mud	0.02

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

Grand Mesa Operating

Hund # 2-9

1700 North Waterfront Parkway Building 600
Wichita Kansas 67206

9/14S/31W Gove Co.

Job Ticket: 16529

DST#: 1

ATTN: Steve Carl

Test Start: 2011.05.07 @ 00:00:00

Tool Information

Drill Pipe:	Length: 3876.00 ft	Diameter: 3.80 inches	Volume: 54.37 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 119.12 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 27000.00 lb
			<u>Total Volume: 54.96 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	11.12 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	4012.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	44.84 ft			
Tool Length:	72.84 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut-In Tool	5.00			3989.00	
Hydraulic Tool	5.00			3994.00	
Jars	6.00			4000.00	
Safety Joint	2.00			4002.00	
Packer	5.00			4007.00	28.00 Bottom Of Top Packer
Packer	5.00			4012.00	
Perforations	5.00			4017.00	
Change Over Sub	0.75			4017.75	
Drill Pipe	31.34			4049.09	
Change Over Sub	0.75			4049.84	
Perforations	2.00			4051.84	
Recorder	1.00	8405	Inside	4052.84	
Recorder	1.00	8400	Outside	4053.84	
Bull Plug	3.00			4056.84	44.84 Bottom Packers & Anchor

Total Tool Length: 72.84



DRILL STEM TEST REPORT

FLUID SUMMARY

Grand Mesa Operating

Hund # 2-9

1700 North Waterfront Parkway Building 600
Wichita Kansas 67206

9/14S/31W Gove Co.

Job Ticket: 16529

DST#: 1

ATTN: Steve Carl

Test Start: 2011.05.07 @ 00:00:00

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: 54.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.40 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psia

Salinity: 3800.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	Lightly Oil Spotted Mud 100%/Mud	0.025

Total Length: 5.00 ft Total Volume: 0.025 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

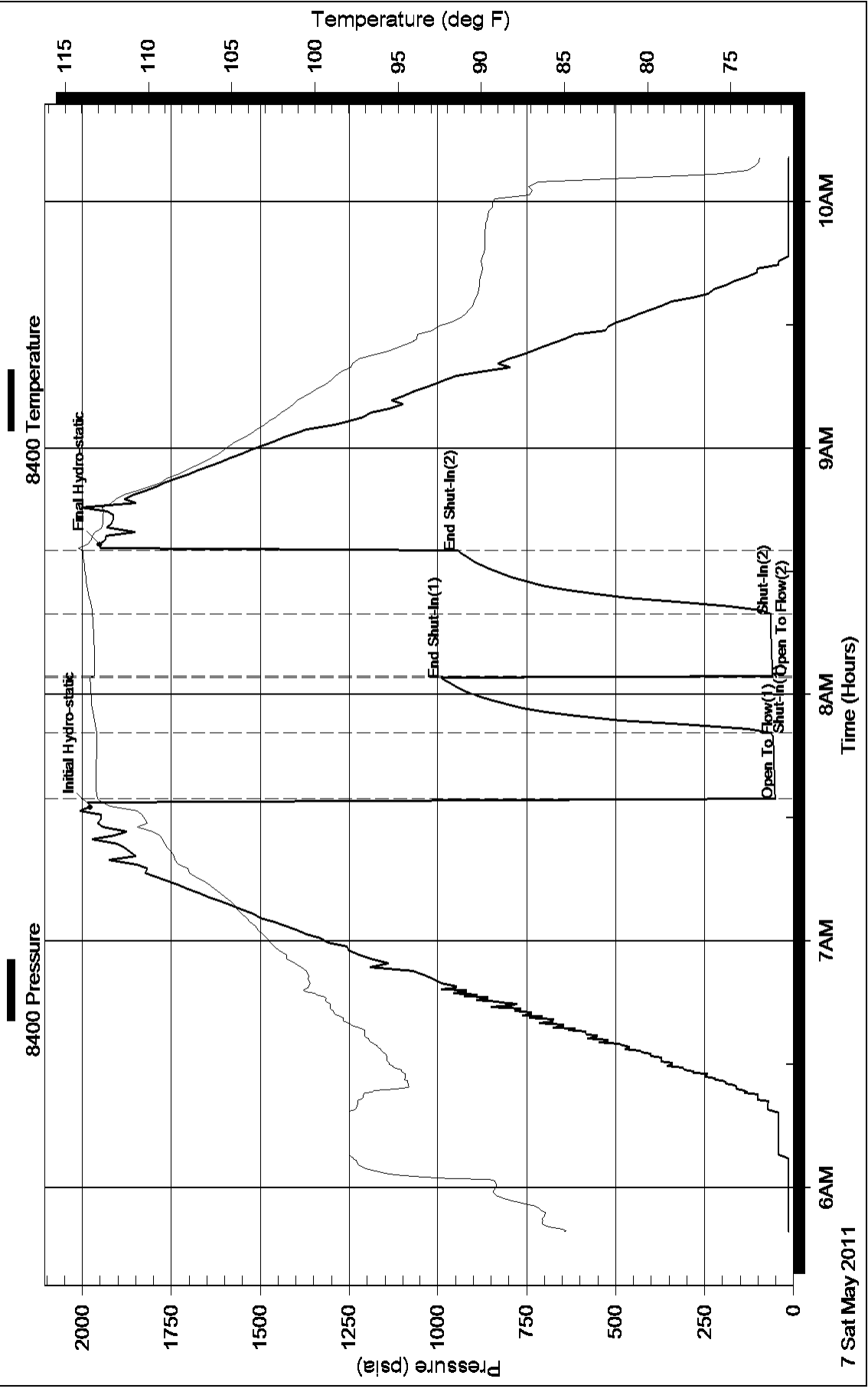
Serial #:

Laboratory Name:

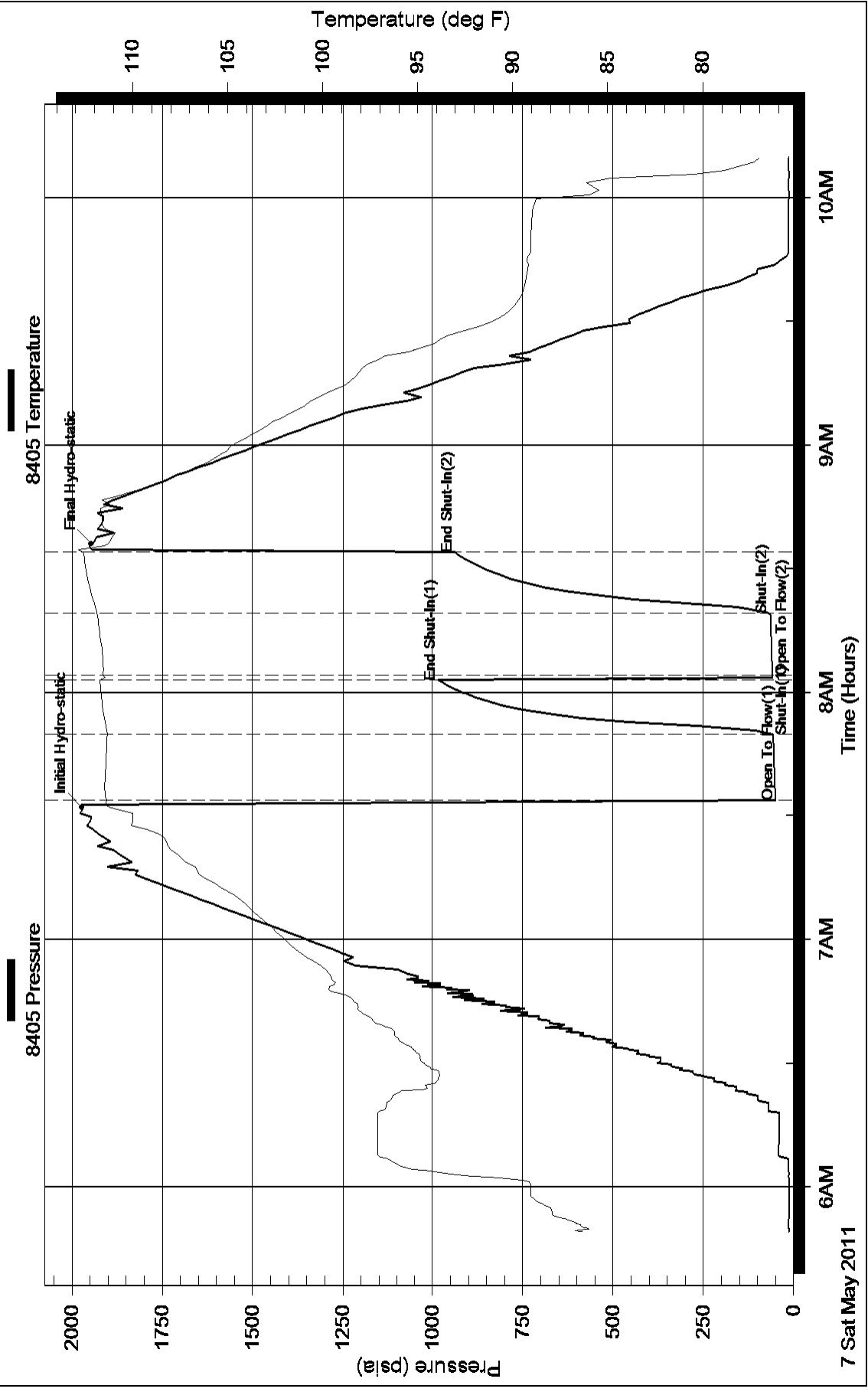
Laboratory Location:

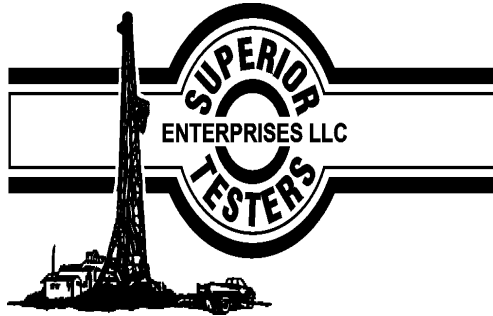
Recovery Comments:

Pressure vs. Time



Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Grand Mesa Operating**

1700 North Waterfront Parkway Building 600
Wichita Kansas 67206

ATTN: Steve Carl

9/14S/31W Gove Co.

Hund # 2-9

Start Date: 2011.05.09 @ 01:33:00

End Date: 2011.05.09 @ 08:07:00

Job Ticket #: 16530 DST #: 2

Superior Testers Enterprises LLC
PO Box 138 Great Bend KS 67530
1-800-792-6902

Printed: 2011.05.09 @ 08:38:49

Grand Mesa Operating

Hund # 2-9

9/14S/31W Gove Co.

DST # 2

Kansas City " L " Zo

2011.05.09



DRILL STEM TEST REPORT

Grand Mesa Operating

Hund # 2-9

1700 North Waterfront Parkway Building 600
Wichita Kansas 67206

9/14S/31W Gove Co.

Job Ticket: 16530

DST#: 2

ATTN: Steve Carl

Test Start: 2011.05.09 @ 01:33:00

GENERAL INFORMATION:

Formation: **Kansas City " L " Zo**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:19:00

Time Test Ended: 08:07:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Dylan E Ellis

Unit No: 3345/Scott City/ 94

Interval: 4278.00 ft (KB) To 4320.00 ft (KB) (TVD)

Reference Elevations: 2936.00 ft (KB)

Total Depth: 4320.00 ft (KB) (TVD)

2931.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8405

Inside

Press @ Run Depth: 256.76 psia @ 4316.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2011.05.09

End Date:

2011.05.09

Last Calib.:

2011.05.09

Start Time: 01:33:00

End Time:

08:07:00

Time On Btm:

2011.05.09 @ 03:18:00

Time Off Btm:

2011.05.09 @ 05:53:00

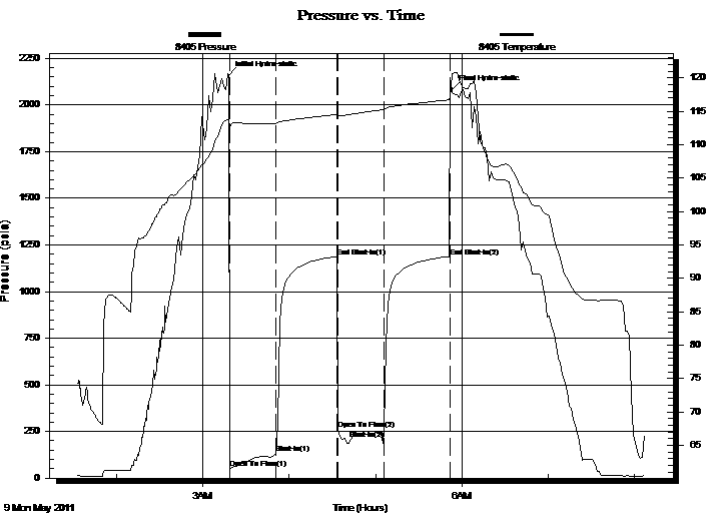
TEST COMMENT:

1ST Opening 30 Minutes fair building blow /blow built to 7 inches into bucket of water

1ST Shut-In 45 Minutes no blow back

2ND Opening 30 Minutes open tool/dead/after 4 minutes very weak building blow /3 inches into water

2ND Shut-In 45 Minutes no blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	2160.26	113.71	Initial Hydro-static
1	52.84	112.70	Open To Flow (1)
33	134.73	113.20	Shut-In(1)
75	1188.36	114.58	End Shut-In(1)
76	264.49	114.42	Open To Flow (2)
108	256.76	115.30	Shut-In(2)
154	1188.05	116.75	End Shut-In(2)
155	2084.80	120.57	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
3.00	Clean Oil	0.01
42.00	Slightly Oil cut Watery Mud	0.21
0.00	10% Oil 20% Water 70% Mud	0.00
189.00	Slightly Oil cut Muddy Water	1.98
0.00	10% Oil 40% Water 50% Mud	0.00
0.00	Chlorides were 41,000.0	0.00

Gas Rates

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



DRILL STEM TEST REPORT

Grand Mesa Operating

Hund # 2-9

1700 North Waterfront Parkway Building 600
Wichita Kansas 67206

9/14S/31W Gove Co.

Job Ticket: 16530

DST#: 2

ATTN: Steve Carl

Test Start: 2011.05.09 @ 01:33:00

GENERAL INFORMATION:

Formation: **Kansas City " L " Zo**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:19:00

Time Test Ended: 08:07:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Dylan E Ellis

Unit No: 3345/Scott City/ 94

Interval: 4278.00 ft (KB) To 4320.00 ft (KB) (TVD)

Reference Elevations: 2936.00 ft (KB)

Total Depth: 4320.00 ft (KB) (TVD)

2931.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8400 Outside

Press @ Run Depth: 1189.14 psia @ 4317.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2011.05.09

End Date: 2011.05.09

Last Calib.: 2011.05.09

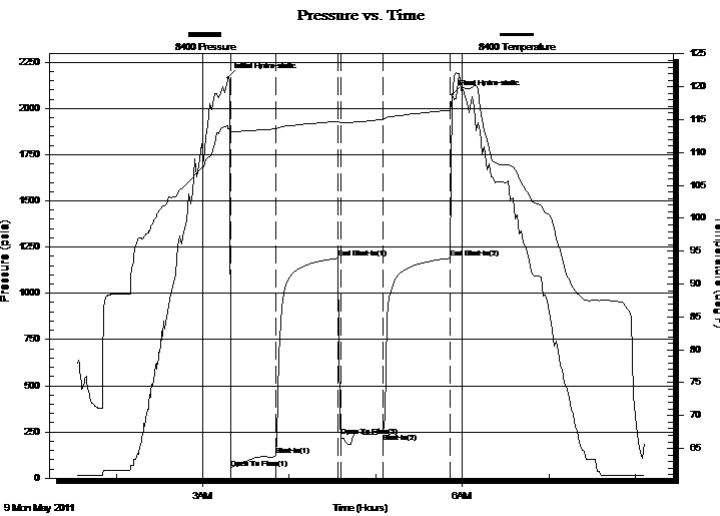
Start Time: 01:33:00

End Time: 08:07:00

Time On Btm: 2011.05.09 @ 03:17:30

Time Off Btm: 2011.05.09 @ 05:53:00

TEST COMMENT: 1ST Opening 30 Minutes fair building blow /blow built to 7 inches into bucket of water
1ST Shut-In 45 Minutes no blow back
2ND Opening 30 Minutes open tool/dead/after 4 minutes very weak building blow /3 inches into water
2ND Shut-In 45 Minutes no blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	2164.32	113.69	Initial Hydro-static
2	54.37	113.09	Open To Flow (1)
33	121.84	113.58	Shut-In(1)
76	1189.53	114.75	End Shut-In(1)
78	227.05	114.47	Open To Flow (2)
108	240.84	115.04	Shut-In(2)
154	1189.14	116.45	End Shut-In(2)
156	2072.88	118.18	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
3.00	Clean Oil	0.01
42.00	Slightly Oil cut Watery Mud	0.21
0.00	10% Oil 20% Water 70% Mud	0.00
189.00	Slightly Oil cut Muddy Water	1.98
0.00	10% Oil 40% Water 50% Mud	0.00
0.00	Chlorides were 41,000.0	0.00

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

Grand Mesa Operating

Hund # 2-9

1700 North Waterfront Parkway Building 600
Wichita Kansas 67206

9/14S/31W Gove Co.

Job Ticket: 16530

DST#: 2

ATTN: Steve Carl

Test Start: 2011.05.09 @ 01:33:00

Tool Information

Drill Pipe:	Length: 4155.00 ft	Diameter: 3.80 inches	Volume: 58.28 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 119.12 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 27000.00 lb
			<u>Total Volume: 58.87 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	24.12 ft			String Weight: Initial 59000.00 lb
Depth to Top Packer:	4278.00 ft			Final 61000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	42.00 ft			
Tool Length:	70.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut-In Tool	5.00			4255.00	
Hydraulic Tool	5.00			4260.00	
Jars	6.00			4266.00	
Safety Joint	2.00			4268.00	
Packer	5.00			4273.00	28.00 Bottom Of Top Packer
Packer	5.00			4278.00	
Perforations	37.00			4315.00	
Recorder	1.00	8405	Inside	4316.00	
Recorder	1.00	8400	Outside	4317.00	
Bull Plug	3.00			4320.00	42.00 Bottom Packers & Anchor
Total Tool Length:	70.00				



DRILL STEM TEST REPORT

FLUID SUMMARY

Grand Mesa Operating

Hund # 2-9

1700 North Waterfront Parkway Building 600
Wichita Kansas 67206

9/14S/31W Gove Co.

Job Ticket: 16530

DST#: 2

ATTN: Steve Carl

Test Start: 2011.05.09 @ 01:33:00

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:

bbbl

Water Loss: 6.80 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psia

Salinity: 3800.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
3.00	Clean Oil	0.015
42.00	Slightly Oil cut Watery Mud	0.207
0.00	10% Oil 20% Water 70% Mud	0.000
189.00	Slightly Oil cut Muddy Water	1.976
0.00	10% Oil 40% Water 50%Mud	0.000
0.00	Chlorides were 41,000.0	0.000
0.00	Resistivity was .28 @ 56 degrees	0.000

Total Length: 234.00 ft Total Volume: 2.198 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

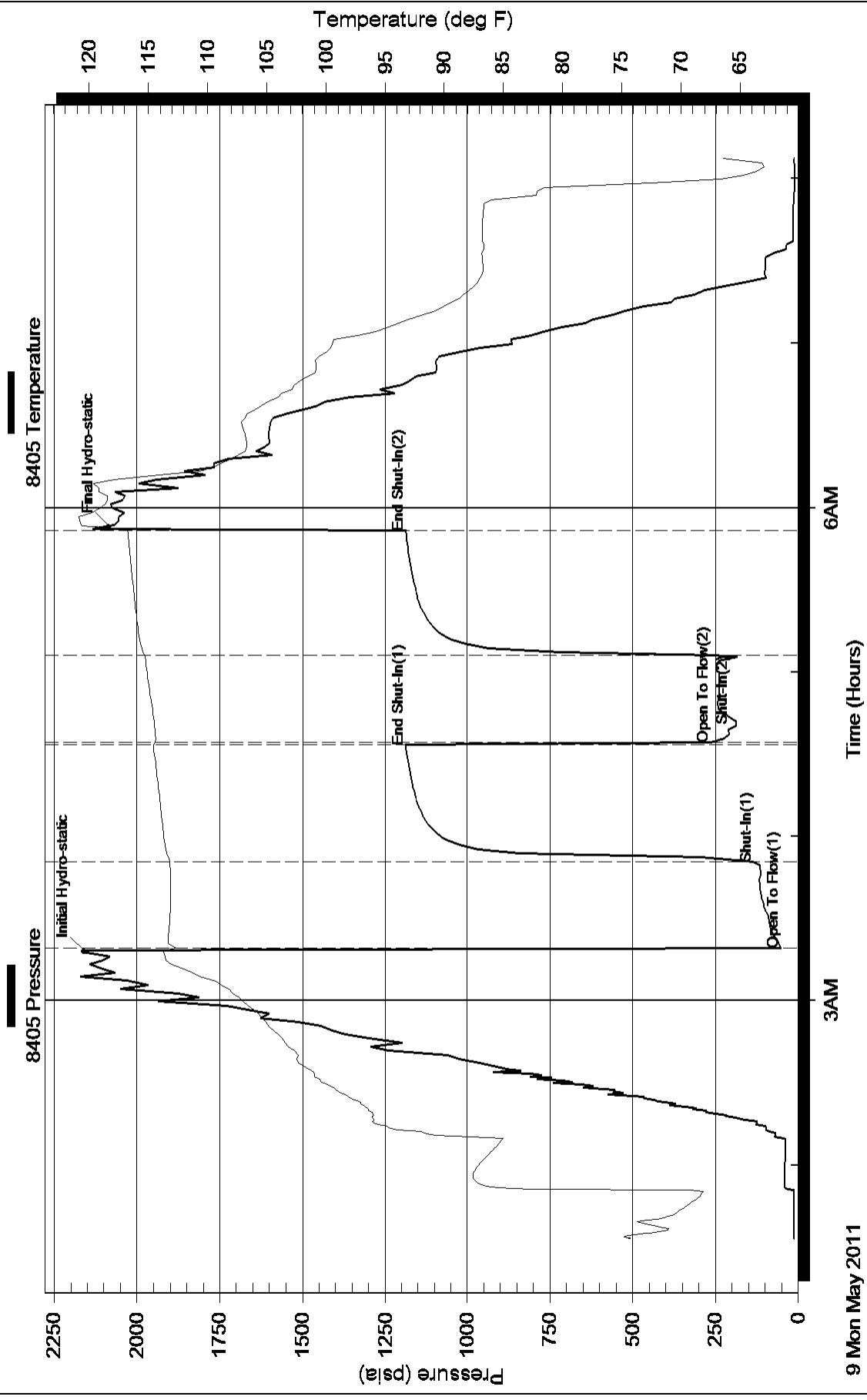
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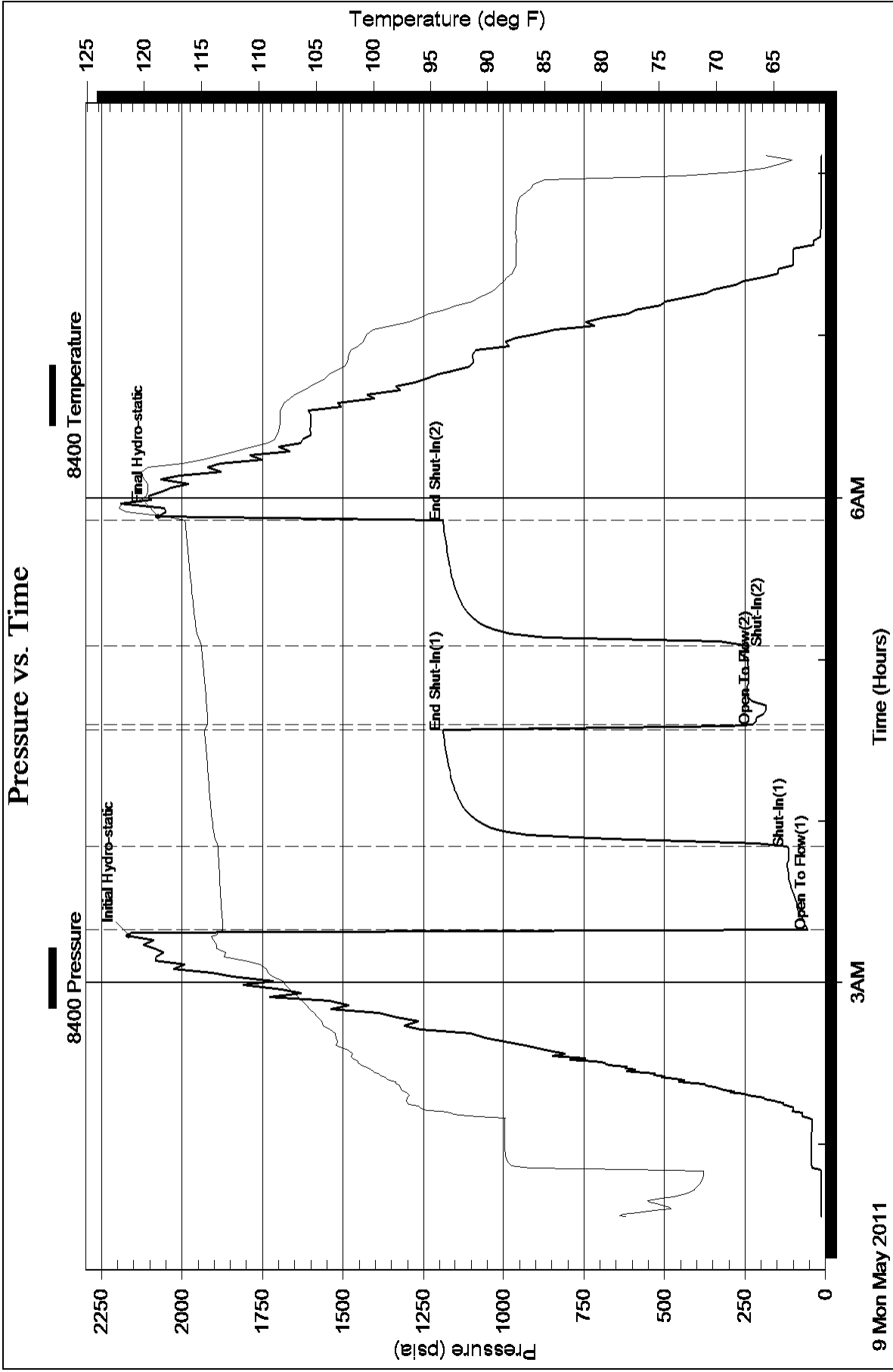
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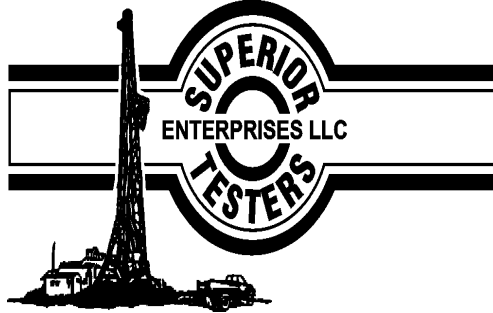
Laboratory Location:

Recovery Comments: Thank you for the work! Dylan

Pressure vs. Time







DRILL STEM TEST REPORT

Prepared For: **Grand Mesa Operating**

1700 North Waterfront Parkway Building 600
Wichita Kansas 67206

ATTN: Steve Carl

9/14S/31W Gove Co.

Hund # 2-9

Start Date: 2011.05.10 @ 08:30:00

End Date: 2011.05.10 @ 17:13:30

Job Ticket #: 16531 DST #: 3

Superior Testers Enterprises LLC
PO Box 138 Great Bend KS 67530
1-800-792-6902

Printed: 2011.05.10 @ 17:45:10

Grand Mesa Operating

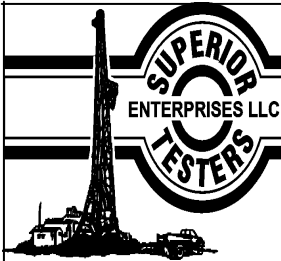
Hund # 2-9

9/14S/31W Gove Co.

DST # 3

Fl.Scott,Vertigris,K

2011.05.10



DRILL STEM TEST REPORT

Grand Mesa Operating

Hund # 2-9

1700 North Waterfront Parkway Building 600
Wichita Kansas 67206

9/14S/31W Gove Co.

Job Ticket: 16531

DST#: 3

ATTN: Steve Carl

Test Start: 2011.05.10 @ 08:30:00

GENERAL INFORMATION:

Formation: **Ft.Scott,Vertigris,K**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 10:46:00

Time Test Ended: 17:13:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Dylan E Ellis

Unit No: 3345/Scott City/94

Interval: 4466.00 ft (KB) To 4546.00 ft (KB) (TVD)

Reference Elevations: 2936.00 ft (KB)

Total Depth: 4546.00 ft (KB) (TVD)

2931.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8400 Outside

Press @ Run Depth: 212.81 psia @ 4542.73 ft (KB)

Capacity: 5000.00 psia

Start Date: 2011.05.10

End Date: 2011.05.10

Last Calib.: 2011.05.10

Start Time: 08:30:00

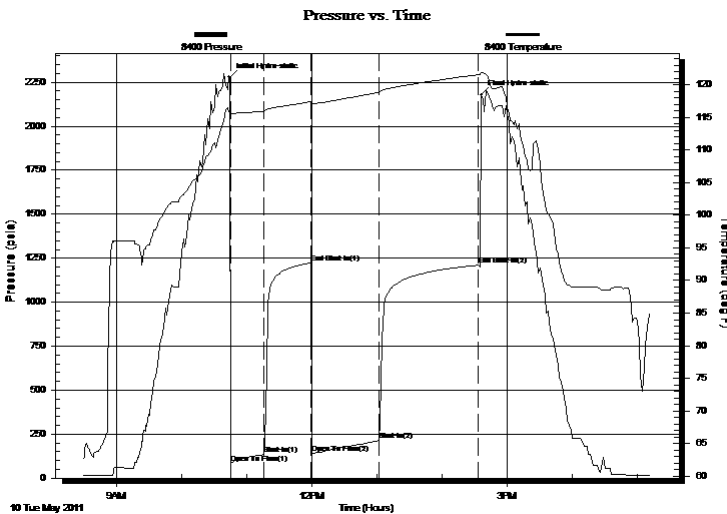
End Time: 17:13:30

Time On Btm: 2011.05.10 @ 10:44:30

Time Off Btm: 2011.05.10 @ 14:36:30

TEST COMMENT: 1ST Opening 30 Minutes fair blow /blow blew to bottom of bucket in 12 minutes
1ST Shut-In 45 Minutes yes blow back/ 1.50 inches
2ND Opening 45 Minutes good blow /blow blew to bottom of bucket in 7 minutes
2ND Shut-In 60 Minutes yes blow back/2.25 inches

PRESSURE SUMMARY



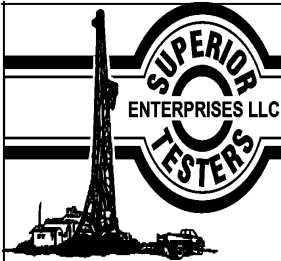
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	2278.28	115.68	Initial Hydro-static
2	81.43	115.41	Open To Flow (1)
32	134.60	115.93	Shut-In(1)
75	1224.20	117.40	End Shut-In(1)
76	141.15	117.12	Open To Flow (2)
138	212.81	118.83	Shut-In(2)
230	1210.04	121.55	End Shut-In(2)
232	2179.73	121.89	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
166.00	Clean Gassy Oil	1.24
0.00	20% Gas 80% Oil	0.00
126.00	Slightly Gassy Mud cut Oil	1.77
0.00	10% Gas 20% Mud 70% Oil	0.00
126.00	Gassy Mud cut Oil	1.77
0.00	30% Gas 30% Mud 40% Oil	0.00

Gas Rates

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



DRILL STEM TEST REPORT

Grand Mesa Operating

Hund # 2-9

1700 North Waterfront Parkway Building 600
Wichita Kansas 67206

9/14S/31W Gove Co.

Job Ticket: 16531

DST#: 3

ATTN: Steve Carl

Test Start: 2011.05.10 @ 08:30:00

GENERAL INFORMATION:

Formation: **Ft.Scott,Vertigris,K**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 10:46:00

Time Test Ended: 17:13:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Dylan E Ellis

Unit No: 3345/Scott City/94

Interval: 4466.00 ft (KB) To 4546.00 ft (KB) (TVD)

Reference Elevations: 2936.00 ft (KB)

Total Depth: 4546.00 ft (KB) (TVD)

2931.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8405

Inside

Press @ Run Depth: 1208.90 psia @ 4541.73 ft (KB)

Capacity: 5000.00 psia

Start Date: 2011.05.10

End Date: 2011.05.10

Last Calib.: 2011.05.10

Start Time: 08:30:00

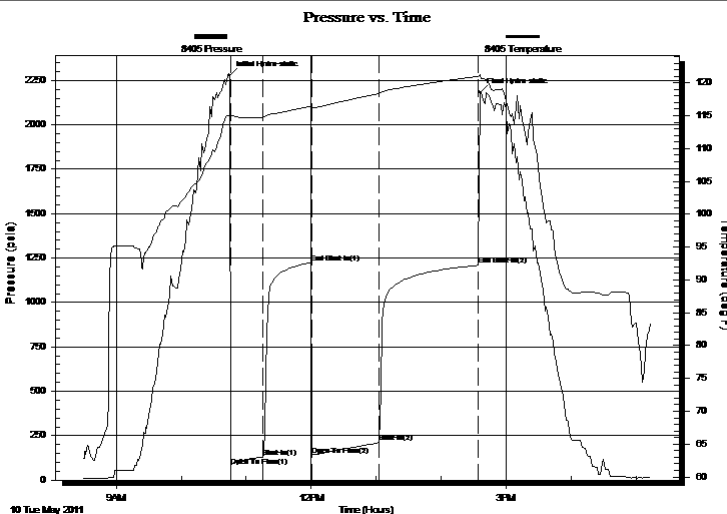
End Time: 17:13:30

Time On Btm: 2011.05.10 @ 10:44:30

Time Off Btm: 2011.05.10 @ 14:35:30

TEST COMMENT: 1ST Opening 30 Minutes fair blow /blow blew to bottom of bucket in 12 minutes
1ST Shut-In 45 Minutes yes blow back/ 1.50 inches
2ND Opening 45 Minutes good blow /blow blew to bottom of bucket in 7 minutes
2ND Shut-In 60 Minutes yes blow back/2.25 inches

PRESSURE SUMMARY



Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	2278.86	115.02	Initial Hydro-static
1	78.14	114.81	Open To Flow (1)
31	131.54	114.75	Shut-In(1)
75	1223.29	116.43	End Shut-In(1)
76	142.53	116.20	Open To Flow (2)
138	211.14	118.33	Shut-In(2)
230	1208.90	121.00	End Shut-In(2)
231	2181.92	121.29	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
166.00	Clean Gassy Oil	1.24
0.00	20% Gas 80% Oil	0.00
126.00	Slightly Gassy Mud cut Oil	1.77
0.00	10% Gas 20% Mud 70% Oil	0.00
126.00	Gassy Mud cut Oil	1.77
0.00	30% Gas 30% Mud 40% Oil	0.00

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

Grand Mesa Operating

Hund # 2-9

1700 North Waterfront Parkway Building 600
Wichita Kansas 67206

9/14S/31W Gove Co.

Job Ticket: 16531

DST#: 3

ATTN: Steve Carl

Test Start: 2011.05.10 @ 08:30:00

Tool Information

Drill Pipe:	Length: 4349.00 ft	Diameter: 3.80 inches	Volume: 61.01 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 119.12 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 28000.00 lb
			<u>Total Volume: 61.60 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	30.12 ft			String Weight: Initial 62000.00 lb
Depth to Top Packer:	4466.00 ft			Final 68000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	79.73 ft			
Tool Length:	107.73 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut-In Tool	5.00			4443.00	
Hydraulic Tool	5.00			4448.00	
Jars	6.00			4454.00	
Safety Joint	2.00			4456.00	
Packer	5.00			4461.00	28.00 Bottom Of Top Packer
Packer	5.00			4466.00	
Perforations	5.00			4471.00	
Change Over Sub	0.75			4471.75	
Drill Pipe	62.23			4533.98	
Change Over Sub	0.75			4534.73	
Perforations	6.00			4540.73	
Recorder	1.00	8405	Inside	4541.73	
Recorder	1.00	8400	Outside	4542.73	
Bull Plug	3.00			4545.73	79.73 Bottom Packers & Anchor

Total Tool Length: 107.73



DRILL STEM TEST REPORT

FLUID SUMMARY

Grand Mesa Operating

Hund # 2-9

1700 North Waterfront Parkway Building 600
Wichita Kansas 67206

9/14S/31W Gove Co.

Job Ticket: 16531

DST#: 3

ATTN: Steve Carl

Test Start: 2011.05.10 @ 08:30:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 51.00 sec/qt
Water Loss: 7.20 in³
Resistivity: ohm.m
Salinity: 3900.00 ppm
Filter Cake: 1.00 inches

Cushion Type:
Cushion Length: ft
Cushion Volume: bbl
Gas Cushion Type:
Gas Cushion Pressure: psia

Oil API: deg API
Water Salinity: ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
166.00	Clean Gassy Oil	1.243
0.00	20% Gas 80% Oil	0.000
126.00	Slightly Gassy Mud cut Oil	1.767
0.00	10% Gas 20% Mud 70% Oil	0.000
126.00	Gassy Mud cut Oil	1.767
0.00	30% Gas 30% Mud 40% Oil	0.000
0.00	1290 feet of Gas in the pipe	0.000
0.00	Gravity of oil corrected w as 41	0.000

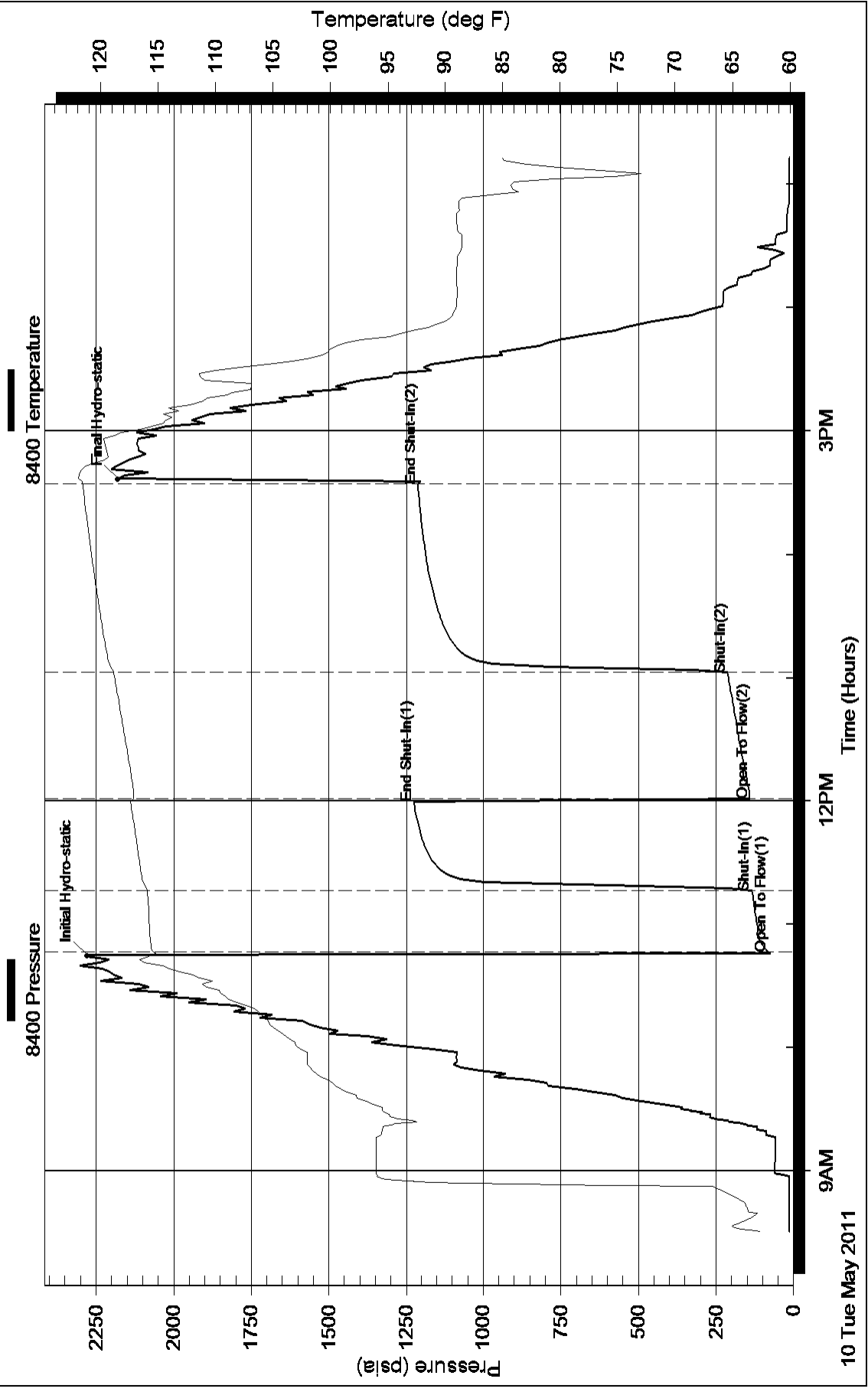
Total Length: 418.00 ft Total Volume: 4.777 bbl

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

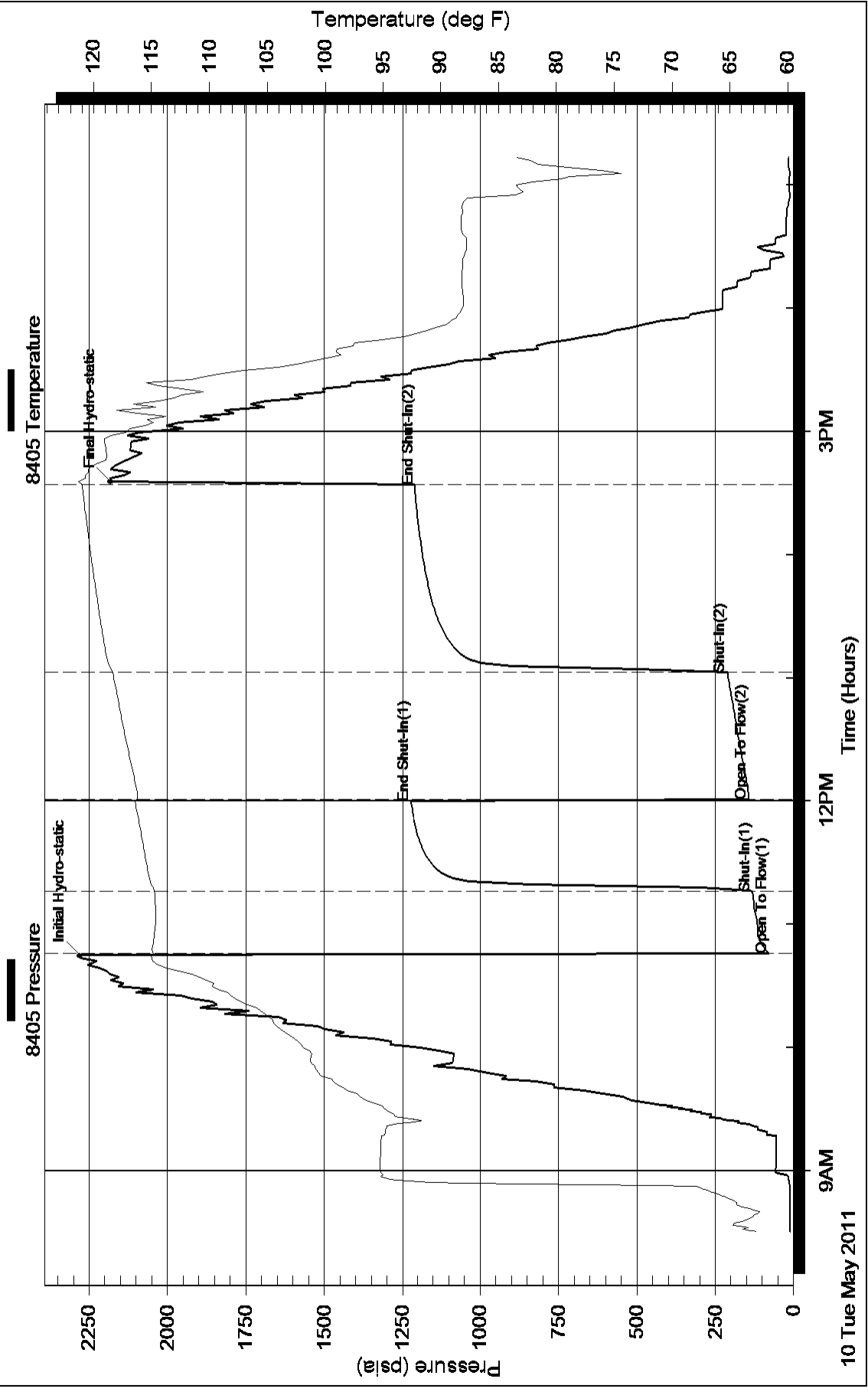
Laboratory Name: Laboratory Location:

Recovery Comments:

Pressure vs. Time



Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Grand Mesa Operating**

1700 North Waterfront Parkway Building 600
Wichita Kansas 67206

ATTN: Steve Carl

9/14S/31W Gove Co.

Hund # 2-9

Start Date: 2011.05.11 @ 04:10:00

End Date: 2011.05.11 @ 12:53:00

Job Ticket #: 16532 DST #: 4

Superior Testers Enterprises LLC
PO Box 138 Great Bend KS 67530
1-800-792-6902

Printed: 2011.05.12 @ 09:33:04



DRILL STEM TEST REPORT

Grand Mesa Operating

Hund # 2-9

1700 North Waterfront Parkway Building 600
Wichita Kansas 67206

9/14S/31W Gove Co.

Job Ticket: 16532

DST#: 4

ATTN: Steve Carl

Test Start: 2011.05.11 @ 04:10:00

GENERAL INFORMATION:

Formation: **Johnson Zone**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 06:23:30

Time Test Ended: 12:53:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Dylan E Ellis

Unit No: 3345/Scott City/94

Interval: 4544.00 ft (KB) To 4592.00 ft (KB) (TVD)

Reference Elevations: 2936.00 ft (KB)

Total Depth: 4592.00 ft (KB) (TVD)

2931.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8400 Outside

Press @ Run Depth: 191.86 psia @ 4588.73 ft (KB)

Capacity: 5000.00 psia

Start Date: 2011.05.11

End Date: 2011.05.11

Last Calib.: 2011.05.11

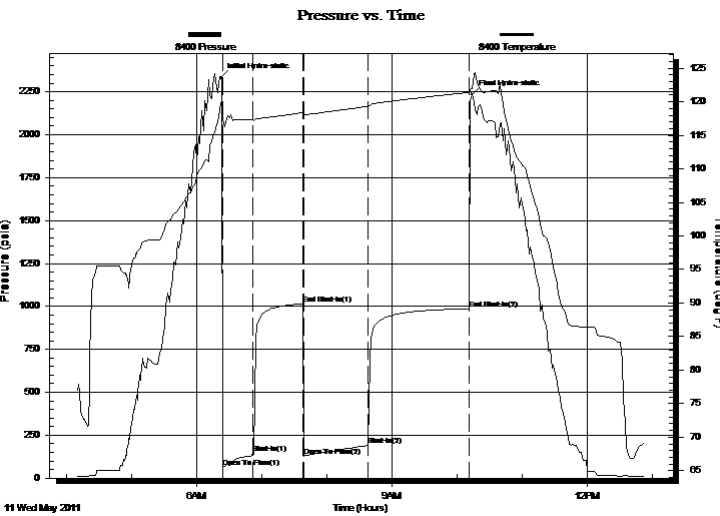
Start Time: 04:10:10

End Time: 12:52:59

Time On Btm: 2011.05.11 @ 06:22:00

Time Off Btm: 2011.05.11 @ 10:13:30

TEST COMMENT: 1ST Opening 30 Minutes Fair blow built to 7 inches into the water
1ST Shut-In 45 Minutes no blow back
2ND Opening 60 Minutes Fair blow built to the bottom of a 5 gallon bucket in 56 minutes
2ND Shut-In 90 Minutes no blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	2332.09	119.90	Initial Hydro-static
2	60.91	117.81	Open To Flow (1)
29	143.08	117.36	Shut-In(1)
76	1015.03	118.39	End Shut-In(1)
77	130.15	118.14	Open To Flow (2)
136	191.86	119.30	Shut-In(2)
229	987.63	121.39	End Shut-In(2)
232	2234.54	121.93	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
3.00	Clean Oil // Oil 100%	0.01
126.00	Oil cut Watery Mud	0.71
0.00	10% Oil 20% Water 70% Mud	0.00
63.00	Oil Spotted Mud/100% Mud	0.88
63.00	Mud cut Water with skim of Oil on top	0.88
0.00	20% Mud 80% Water	0.00

Gas Rates

Choke (inches)	Pressure (psia)	Gas Rate (Mcf/d)
----------------	-----------------	------------------



DRILL STEM TEST REPORT

Grand Mesa Operating

Hund # 2-9

1700 North Waterfront Parkway Building 600
Wichita Kansas 67206

9/14S/31W Gove Co.

Job Ticket: 16532

DST#: 4

ATTN: Steve Carl

Test Start: 2011.05.11 @ 04:10:00

GENERAL INFORMATION:

Formation: **Johnson Zone**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 06:23:30

Time Test Ended: 12:53:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Dylan E Ellis

Unit No: 3345/Scott City/94

Interval: 4544.00 ft (KB) To 4592.00 ft (KB) (TVD)

Reference Elevations: 2936.00 ft (KB)

Total Depth: 4592.00 ft (KB) (TVD)

2931.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8405

Inside

Press @ Run Depth: 987.12 psia @ 4587.73 ft (KB)

Capacity: 5000.00 psia

Start Date: 2011.05.11

End Date:

2011.05.11

Last Calib.:

2011.05.11

Start Time: 04:10:01

End Time:

12:53:00

Time On Btm:

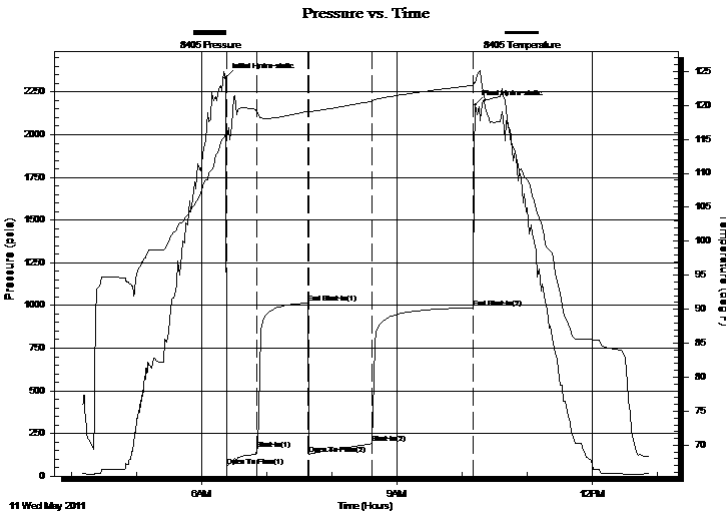
2011.05.11 @ 06:21:30

Time Off Btm:

2011.05.11 @ 10:12:00

TEST COMMENT: 1ST Opening 30 Minutes Fair blow built to 7 inches into the water
1ST Shut-In 45 Minutes no blow back
2ND Opening 60 Minutes Fair blow built to the bottom of a 5 gallon bucket in 56 minutes
2ND Shut-In 90 Minutes no blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	2334.61	115.72	Initial Hydro-static
2	58.73	115.29	Open To Flow (1)
30	156.82	119.12	Shut-In(1)
76	1014.39	119.11	End Shut-In(1)
78	130.48	119.07	Open To Flow (2)
136	190.55	120.59	Shut-In(2)
229	987.12	122.93	End Shut-In(2)
231	2174.12	123.27	Final Hydro-static

Recovery

Gas Rates

Length (ft)	Description	Volume (bbl)
3.00	Clean Oil // Oil 100%	0.01
126.00	Oil cut Watery Mud	0.71
0.00	10% Oil 20% Water 70% Mud	0.00
63.00	Oil Spotted Mud/100% Mud	0.88
63.00	Mud cut Water with skim of Oil on top	0.88
0.00	20% Mud 80% Water	0.00

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

Grand Mesa Operating

Hund # 2-9

1700 North Waterfront Parkway Building 600
Wichita Kansas 67206

9/14S/31W Gove Co.

Job Ticket: 16532

DST#: 4

ATTN: Steve Carl

Test Start: 2011.05.11 @ 04:10:00

Tool Information

Drill Pipe:	Length: 4412.00 ft	Diameter: 3.80 inches	Volume: 61.89 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	20000.00 lb
Drill Collar:	Length: 119.12 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose:	46000.00 lb
			<u>Total Volume: 62.48 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	15.12 ft			String Weight: Initial	62000.00 lb
Depth to Top Packer:	4544.00 ft			Final	62000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	47.73 ft				
Tool Length:	75.73 ft				
Number of Packers:	2	Diameter:	6.75 inches		
Tool Comments:					

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
------------------	-------------	------------	----------	------------	----------------

Shut-In Tool	5.00			4521.00	
Hydraulic Tool	5.00			4526.00	
Jars	6.00			4532.00	
Safety Joint	2.00			4534.00	
Packer	5.00			4539.00	28.00 Bottom Of Top Packer
Packer	5.00			4544.00	
Perforations	5.00			4549.00	
Change Over Sub	0.75			4549.75	
Drill Pipe	31.23			4580.98	
Change Over Sub	0.75			4581.73	
Perforations	5.00			4586.73	
Recorder	1.00	8405	Inside	4587.73	
Recorder	1.00	8400	Outside	4588.73	
Bull Plug	3.00			4591.73	47.73 Bottom Packers & Anchor

Total Tool Length: 75.73



DRILL STEM TEST REPORT

FLUID SUMMARY

Grand Mesa Operating

Hund # 2-9

1700 North Waterfront Parkway Building 600
Wichita Kansas 67206

9/14S/31W Gove Co.

Job Ticket: 16532

DST#: 4

ATTN: Steve Carl

Test Start: 2011.05.11 @ 04:10:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 54.00 sec/qt
Water Loss: 9.59 in³
Resistivity: ohm.m
Salinity: 4400.00 ppm
Filter Cake: 1.00 inches

Cushion Type:
Cushion Length: ft
Cushion Volume: bbl
Gas Cushion Type:
Gas Cushion Pressure: psia

Oil API: deg API
Water Salinity: ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
3.00	Clean Oil // Oil 100%	0.015
126.00	Oil cut Watery Mud	0.710
0.00	10% Oil 20% Water 70% Mud	0.000
63.00	Oil Spotted Mud/100% Mud	0.884
63.00	Mud cut Water with skim of Oil on top	0.884
0.00	20% Mud 80% Water	0.000
63.00	Oil spotted Mud/100% Mud	0.884
0.00	Chlorides were 62,000	0.000
0.00	Resistivity was .22@ 52 degrees	0.000

Total Length: 318.00 ft Total Volume: 3.377 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

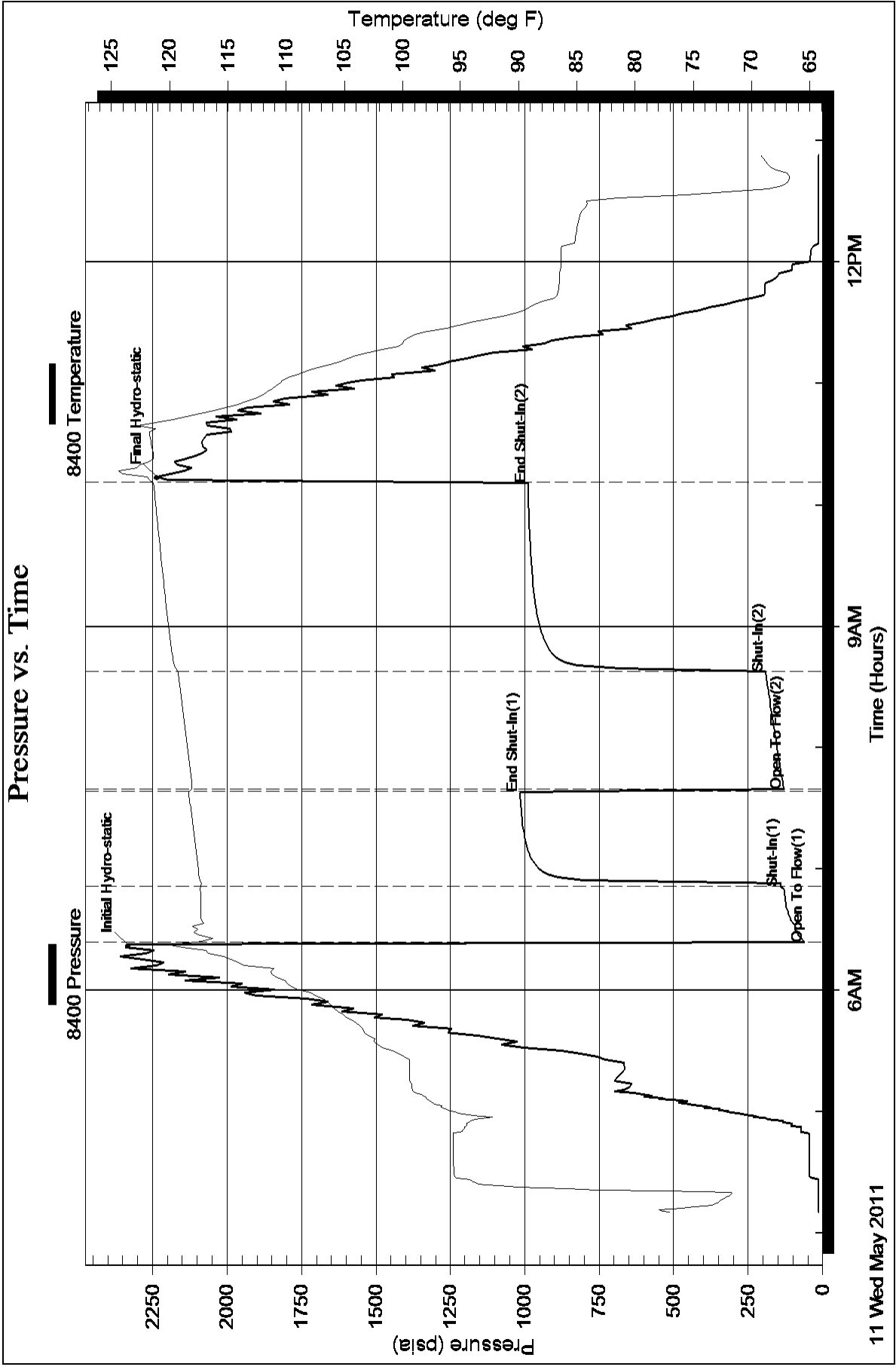
Serial #:

Laboratory Name:

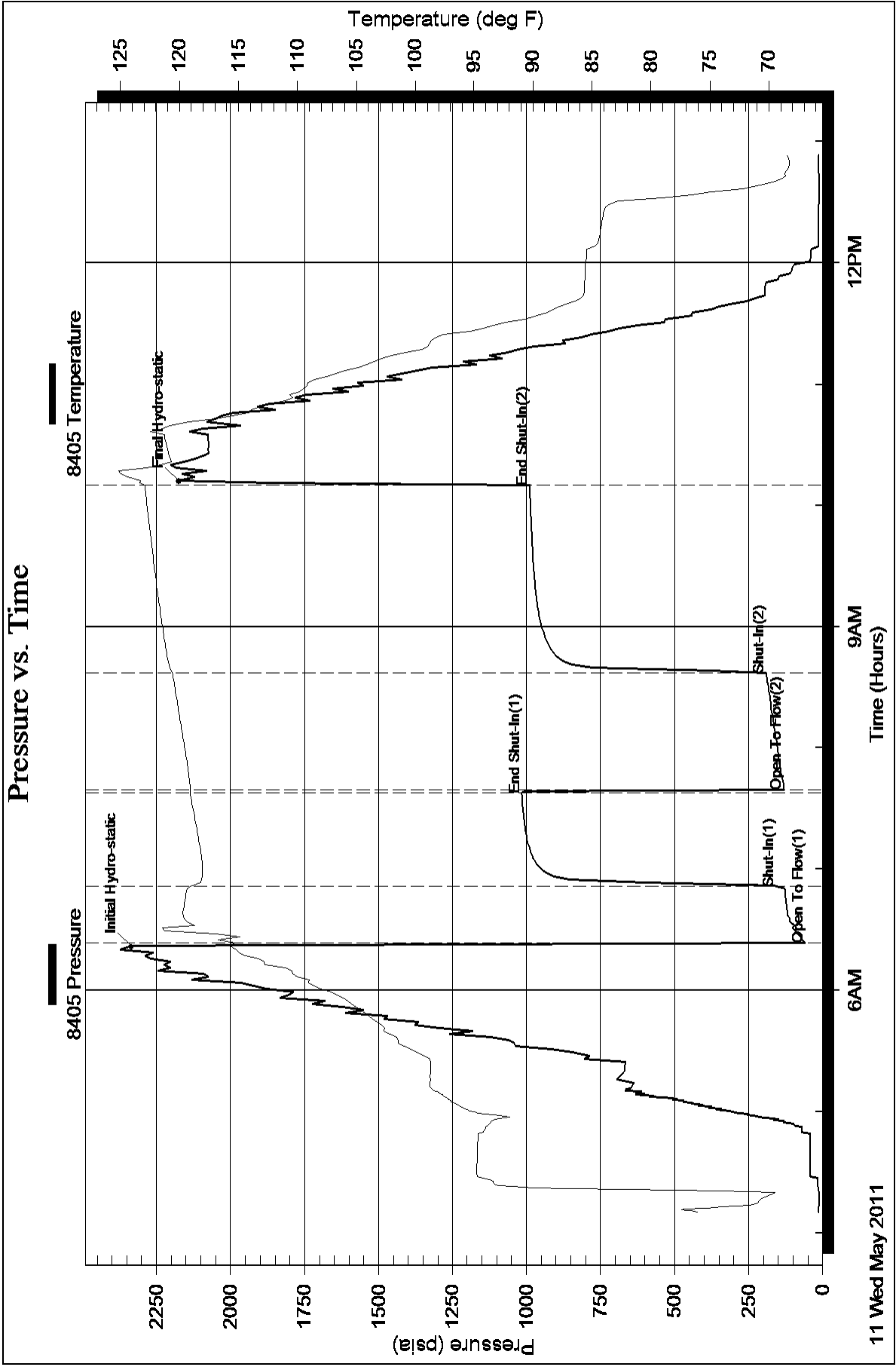
Laboratory Location:

Recovery Comments:

Pressure vs. Time



Pressure vs. Time



GRAND MESA

OPERATING COMPANY

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

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

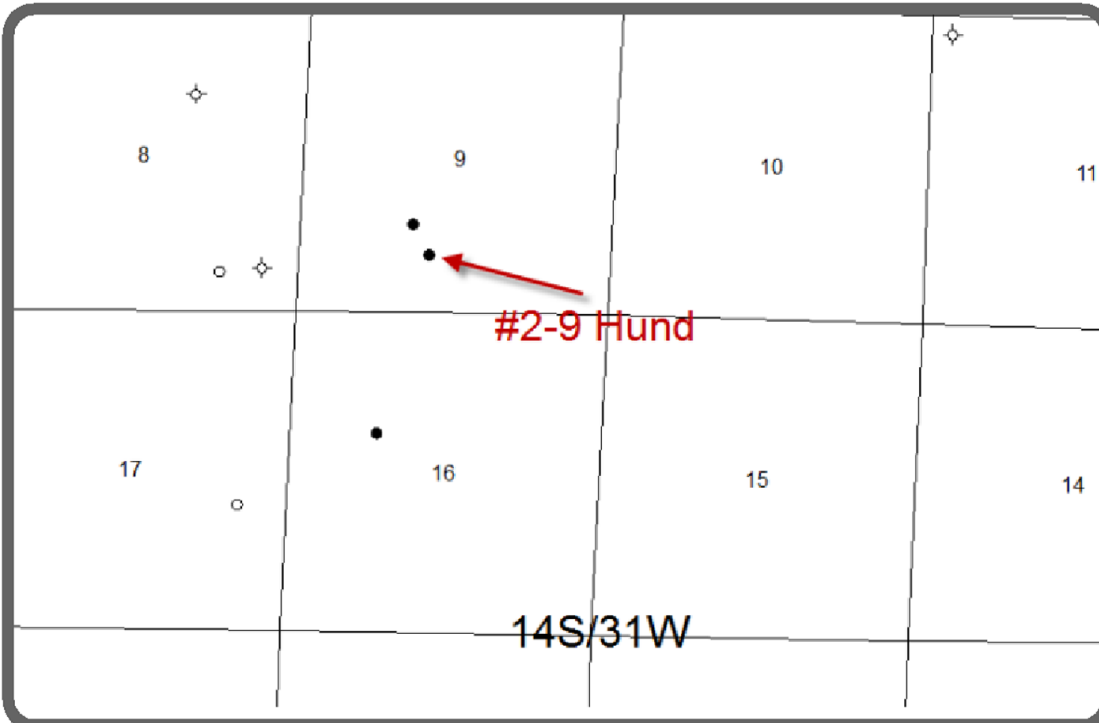
Scale 1:240 (5"=100') Imperial
Measured Depth Log

Well Name: #2-9 Hund
Location: 977'FSL, 2188'FWL Sec 9-14s-31w Gove County Kansas
License Number: API: 15-063-21908 Region: Wildcat
Spud Date: 5-3-2011 Drilling Completed: 5-12-2011
Surface Coordinates: Lat: 38.8475961
Long: -100.7722526
Bottom Hole Vertical hole
Coordinates:
Ground Elevation (ft): 2931 K.B. Elevation (ft): 2936
Logged Interval (ft): 3600' To: RTD Total Depth (ft): 4744'
Formation: Mississippian 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 Parkway, Bldg 600
Wichita, Kansas 67206
316-256-3000



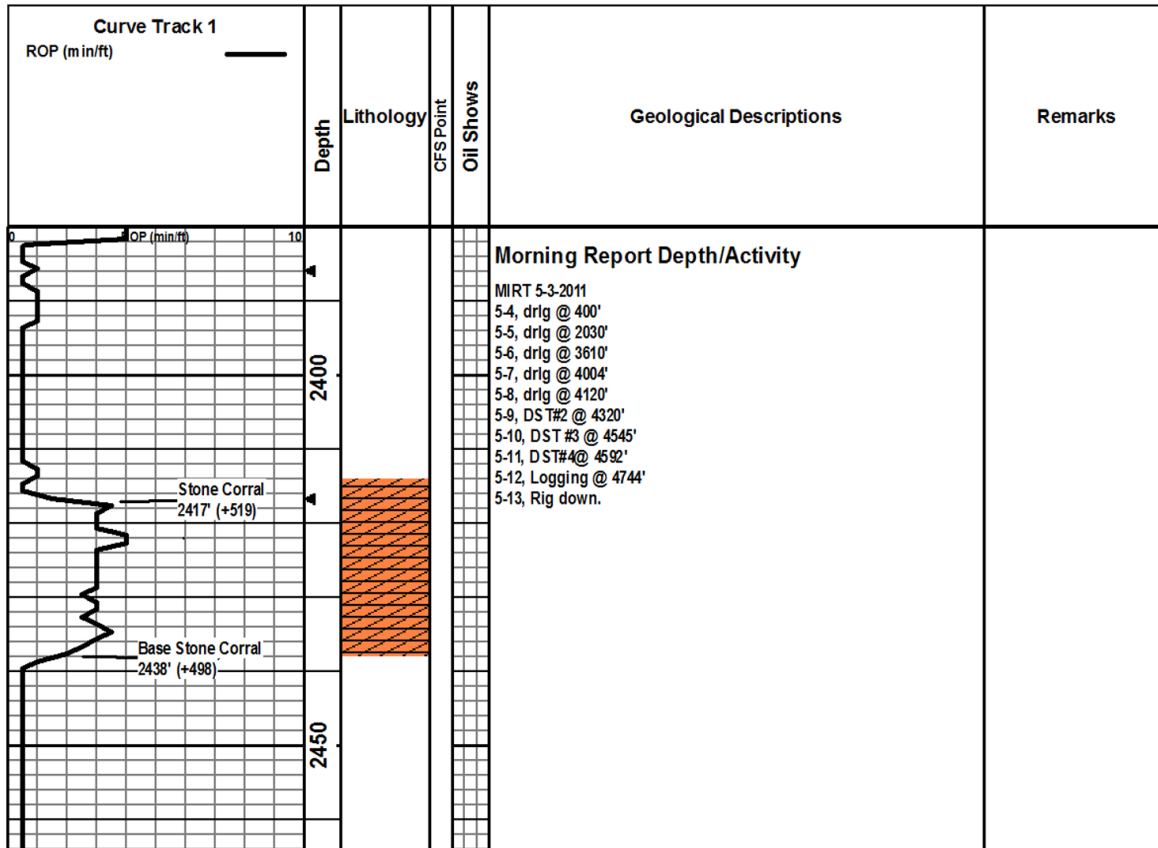
COMMENTS

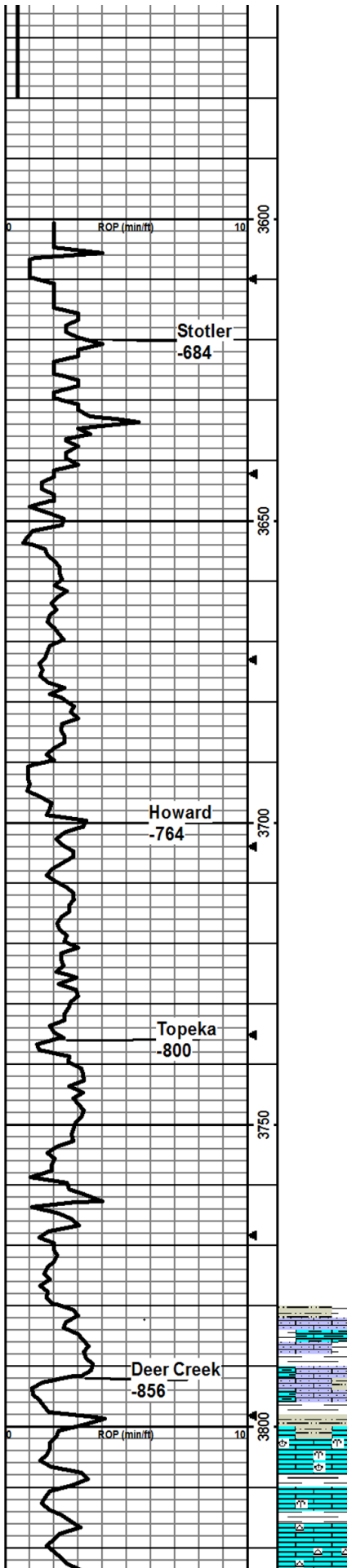
Contractor: Murfin Drilling Company Rig #24
Pusher: Tony Martin
Surface Casing: 8 5/8" set at 222' w/165sx
Production Casing: 5 1/2" set at 4740', to further test the Ft. Scott and Johnson zones.
Mud by: MudCo
DST's by: Superior Testing

Logs by: Weatherford (DIL, CN-CD, ML)
 RTD=4744'
 LTD=4740'

FORMATION TOPS

	Sample Tops		Log Tops	
Stone Corral	2417	519	2413	523
B/Stone Corral	2438	498	2434	502
Heebner	3953	-1017	3954	-1018
Lansing	3997	-1061	3993	-1057
Muncie Creek	4154	-1218	4151	-1215
Stark	4247	-1311	4243	-1307
Hushpuckney	4282	-1346	4279	-1343
Marmaton	4352	-1416	4352	-1416
Little Osage	4468	-1532	4464	-1528
Excello	4495	-1559	4489	-1553
Johnson	4567	-1631	4564	-1628
Morrow	4590	-1654	4585	-1649
Mississippian	4630	-1694	4624	-1688
St. Gen	4630	-1694	4624	-1688





Bit trip @ 3610'
 Survey = 3/4 degrees
 Too windy for strap.

Strap at 4058 yeilds 1.60' short to board.

ROP Data begins @ 3600'

Geologist on location 3640' @1:10pm Friday 5/6/2011

10ft Samples begin at 3800ft.

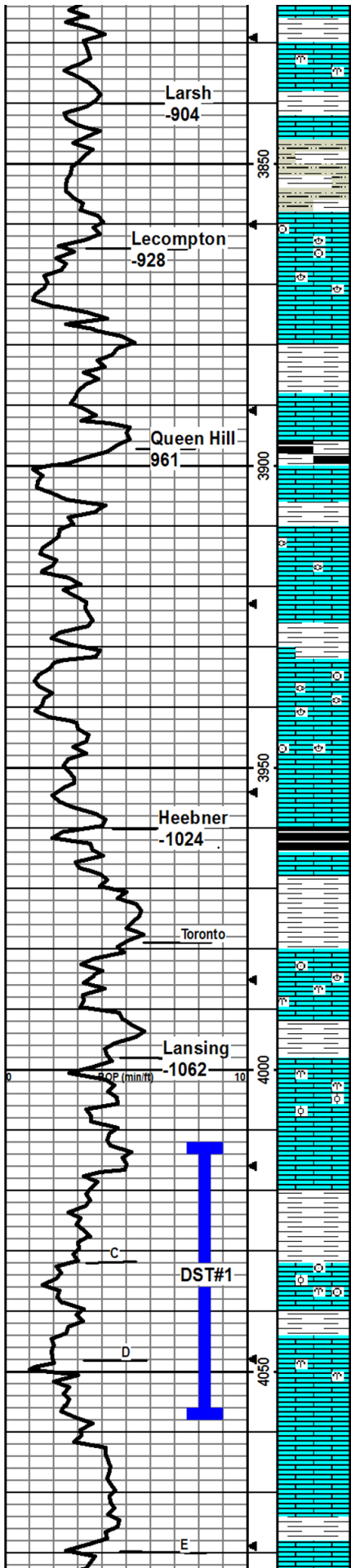
LS-med gry, med xln, grainy, shaley, easy crush, foss-crin, flecks of blk, flakey gilsonite, gd fluor when cut, nvp, no odr, abund SH-gry, silty, nsfo.

LS-ft tan, fn xln, brittle, dense, med crush, foss-crin, nvp, no odr, SH as above, ns.

LS-ft tan/crm, med-crs xln, profus foss-various, mealy, med crush, abund chalk, fr int foss por, no odr, scat m in fluor, ns.

LS-ft tan/crm, mostly fn xln, dense, hard, uniform, sm foss as above, abund chert-ft tan, foss, op, abund chalk, nvp, no odr, ns.

LS-shale abund chert as above, SH-gry, med waxy, med silty,



LS-as above, abund chert-as above, sm-gry, sm waxy, sm silty.

LS-med tan, fn-med xln, grainy, foss-crin/bryz, med crush, scat pr int xln por, abund chert-gry, op, no cup odr, no fluor, ns.

LS-med gry, vfn xln, dense hard, brittle, no por, ns.

SS-lt gry, vfn grn, argil, muddy, v soft, sticky, chalky, no cup odr, ns.

LS-med tan, med xln, foss-brach/crin/various, chalky, easy to med crush, nvp, no cup odr, ns.

LS-med-lt gry, med xln, foss, mostly dense, med-diff crush, nvp, no odr, ns.

SH-mostly gry, firm fiss, waxy, sm brn/red, soft, silty, no cup odr, cup water dirty red/brn, ns.

SH-lt tan, med xln, foss-various, brittle, sm chalk, scat int foss/xln por, no odr, no fluor, ns.

LS-lt gry/tan, fn xln, dense, med-diff crush, mostly void of foss, micritic, nvp, no cup odr, ns.

SH-med-drk gry, few carb.

LS-lt tan/crm, fn xln, mostly uniform, few foss-fus, sm chalk, mostly dense, w/nvp, few pcs chert-gry, transl, foss, no cup odr, no fluor, ns.

SH-gry/blk, foss.

LS-lt gry/tan, med xln, profus foss-fus/brach/bryz/crin, mealy/grainy, abundant chalk, cup water chalky gry, scat int xln/foss por, no odr, ns.

LS-med tan, med xln, foss as above, chalky, few pcs chert, dense, nvp, no cup odr, no fluor, ns.

SH-blk, carb, fissile, waxy, few pcs in 3970 smpl, flood in 3980 sm pl.

SH-gry/lt grn/brn/red, sm silty, all soft, rounded.

LS-crm, fn xln, dense, med-diff crush, mostly uniform, sm foss-crin/brach/fus, sm chalk, few pcs ool, abund chert-gry, transl, nvp, no odr, ns.

MUDSTN-red, v soft, sm pl cup water dirty red.

LS-crm, fn xln matrix, ool/foss-various, mostly dense, sm chalky, one pc per tray w/spotty fair int ool por, fair show drk fo, no cup odr, no fluor.

LS-crm, fn xln, ool as above, dense, brittle, nvp, no cup odr, ns.

SH-predom gry, firm, sm silty.

SH-as above, waxy.

LS-crm-lt tan, fn xln matrix, mostly dense, uniform, few ool/foss-bryz/crin, 4-5pcs per tray w/scat fr int foss por, pale blu stream ing cut, ssfo, bleed on break, fnt cup odr,

SH-red/brn, soft, cup water dirty red.

LS-crm, fn xln matrix, mostly dense/uniform, sm v foss-various, few pcs per tray w fr in foss por w/vssfo, few pcs w/chalky matrix, patchy lt brn stn, cuts weak-pale blu, no cup odr.

4070smpl mostly trip trash, sm LS-as above, mostly dense, nvp, no cup odr, ns.

LS-lt tan, micro xln, sm sparry, vit luster, rare foss, rare ool, dense, hard, diff crush, sm chalk, nvp, no odr, spotty m in fluor, ns.

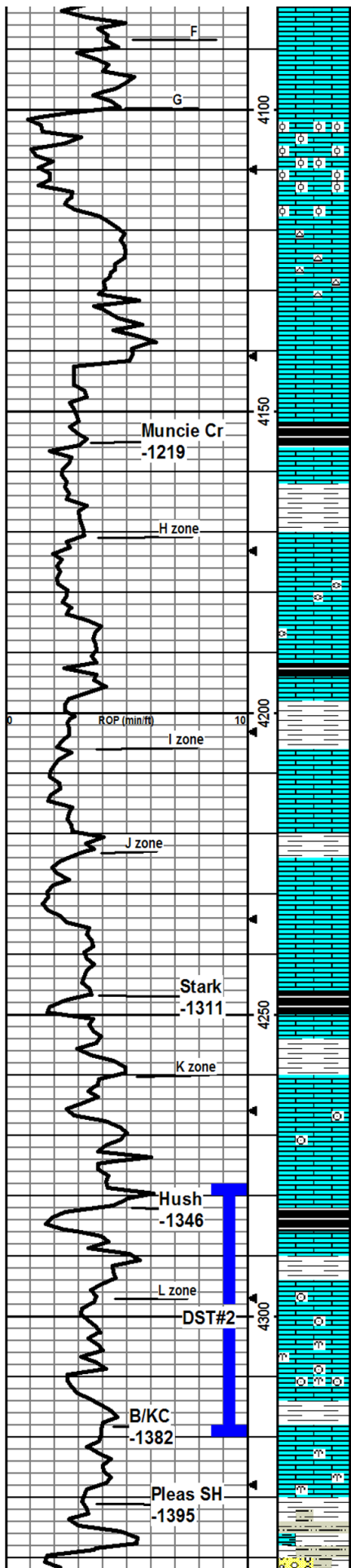
SH-gry, brittle, fissile

LS-lt tan/crm, mostly fn xln matrix, sm crs/sparry, rare foss, dense

DST#1
Lansing C-D
4012'-4057'
15-15-15-15
Rec: 5' OSM
IFP: 51-66#
FFP: 59-64#
ISIP: 990#
FSIP: 943#

Strap on DS T#1
 1.60' Short

Mudco: 4040'
 wt: 8.8
 vis: 54
 yp: 23
 pH: 11.0
 flt: 6.4
 chl: 3800
 lcm: 2



hard, med-diff crush, few pcs chalk, abund chert-wht, opaque, no cup odr, scat min fluor, ns.

LS-t tan, micro xln, sparry, hard, brittle, foss-various, rare ool-densely packed w/nvp, few pcs chert-wht, op, nvp, no cup odr, ns.

LS-med-t tan, micro xln, profus ooc, foss, easy crush, min fluor from spar, no cup odr, ns.

LS-crm, micro xln, sparry, dense ool/foss, nvp, chert-wht, milky, abund SH??-blk, not carb, fissile, brittle, no cup odr, spotty min fluor, ns.

LS-as above, smple predom SH as above, working on mud properties.

LS-gry, fn xln, uniform, rare foss, dense, hard, nvp, no cup odr, ns.

SH-blk, carb, present in 4170 sample.

LS-tan/gry, mottled, fn xln, mostly dense/hard, sm easy-med crush, chalky matrix, sm sparry, abund frags faces stn'd w/dead oil, cuts pale blu, scat dul fluor, vssfo in pr fr int xln por, will not break out, no cup odr.

SH-red/gry/purple/grn, waxy.

4184 30min-LS-t tan/gry, sm med tan, fn xln, mostly uniform, chalky, sm med xln/sparry, rare foss, rare pisolitic, rare pr int xln por, no cup odr, ns.

60m-LS-t gry, fn xln, mostly uniform, rare foss-various/fus, mostly dense/hard, med crush, sm chalky/flakey matrix, easy crush w/pr int xln por, sm chert-gry op, foss-fus, no cup odr, scat min fluor, ns.

LS-med-drk tan, fn xln, micritic, foss, vdense/hard, nvp, no cup odr, ns.

SH-predom gry, sm red/brn, rare silty.

LS-gry, fn xln, mostly uniform, chalky, pr int xln por, spotty brn stn, pale blu wicking cut, no cup odr, nsfo.

LS-as above, nvp, no odr, ns.

SH-gry/brt red/orn, few SS clusters, pyritic.

LS-crm, vfn xln, sm sparry, sm chalky matrix, mostly uniform, rare foss, dense w/nvp, no cup odr, ns. Sm pl predom SH sluff. Running tank of mud to improve vis.

SH-blk, carb, present in 4260spl.

SH-predom red/brn.

LS-t gry, fn xln, uniform, dense, brittle, rare foss, nvp, no cup odr, no fluor, rare (one pc in 3 trays) por int xln por, vssfo, will not break out of por.

LS-t gry-wht, fn xln, chalky, drk gry min indus, sm LS-gry, crs xln, foss-crin, few pcs chert-gry, transl, nvp, no cup odr, ns.

SH-blk, carb, flood in 4300 spl.

LS-brn/tan, micro xln, dense, hard, foss, sparry, nvp, ns.

SH-gry.

LS-med-t tan, fn xln, foss, sparry, sm crs xln w/lrg calc spar, all dense, few pcs chalk, nvp, no cup odr, no fluor, ns.

LS-tan/gry, fn xln, uniform, vdense/hard, nvp, ns. LS-drk tan/brn, micro xln, sparry, foss, nvp, ns. LS-gry, med-crs xln, foss, silty chalky, rare pr int xln por, no cup odr, scat min fluor, ns.

LS-t tan, crs xln, profus foss, spar filled int foss por, several pcs per tray w/pr int foss por, ssfo in al l por, fnt cup odr, odr on break, brt yel fluor and streaming cut.

LS-gry-tan, med xln, drk min inclus, chalky, foss, dense, nvp, no cup odr, ns.

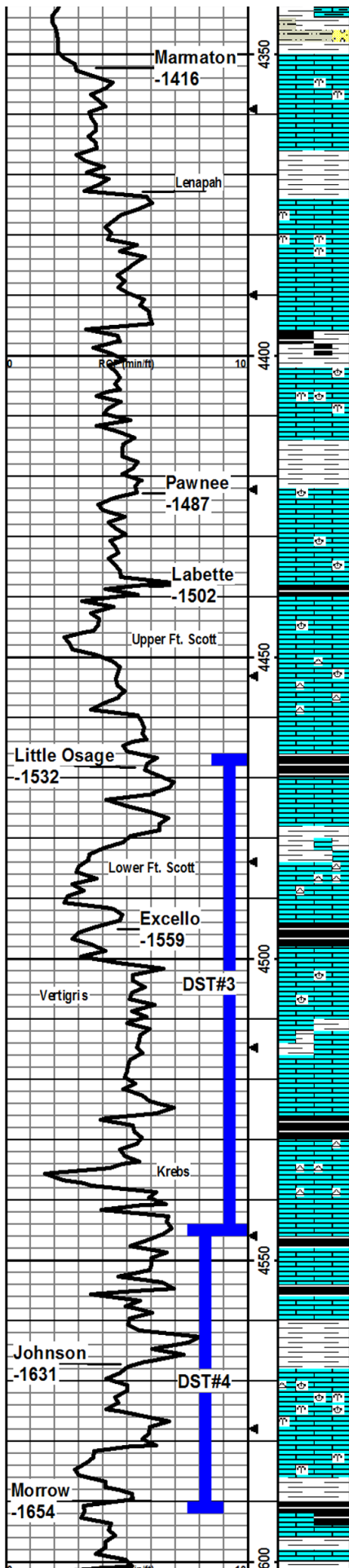
SS/SLTS TN CONG-t blu/gry, vfn grn, firm clusters, arg, clay cement, sm v soft/muddy/sticky, no cup odr, ns.

Mudco: 4173'
wt: 9.2
vis: 55
yp: 20
pH: 10.5
filt: 6.8
chl: 3900
lcm: 2

Samples are still predom shale. Circ 45m ins at 4270 to run in tank of new mud.

Samples much improved at 4280'

DST#2
Lansing L
4278'-4320'
30-45-30-45
Rec:
3' Cln Oil
42'SOCWM
189'SOCMW
IFP: 53-135#
FFP: 264-256#
ISIP: 1188#
FSIP: 1188#



SS-as above, SH=gry/red/brn, soft, muddy/sticky.

LS-gry/tan, fn xln, foss-bryz/brach/spic, dense/hard, sm sparry, nvp, no odr, ns.

LS-as above, mostly uniform, decr foss, no odr, ns.

SH-gry/red/brn, sm silty.

LS-lt tan, micro xln, sparry, foss-brach/ bryz/fus, dense, hard, nvp, no fluor, no odr, ns.

LS-med-lt tan, fn xln, mostly uniform, sm chalk, sm sparry/foss-brach-spir/various, dense, hard, nvp, no odr, no fluor, ns.

SH-predom gry, sm blk, carb, LS-as above

LS-gry, fn xln, uniform, chalky, dense, med-diff crush, nvp, ns.
LS-med tan, fn xln, foss-various, v dense, diff crush, int foss por filled w/calcite, nvp, ns.

LS-gry as above, LS-drk tan/brn, crs xln, foss, v dense, hard, nvp, no odr, ns, SH-med-drk gry, silty, cong.

LS-tan, micro xln, foss-various, v dense, hard, nvp, no odr, no fluor, ns.

LS-tan, fn-med xln, foss as above-coral/brach, nvp, ns.

SH-few pcs blk, carb.

LS-much as above, gry, fn xln, uniform, rare foss-fus/brach, rare densely packed ool, all dense/hard, influx chert-wht, opaque, nvp, no odr, ns.

LS-gry, fn xln, dense hard, uniform, few pcs LS-tan, crs xln, abund chert-lt gry/wht, opaque, few foss, nvp, ns.

LS-tan/gry, m ostly fn xln, m ostly uniform, sm grainy, sm foss, all dense, hard, nvp, no cup odr, ns. SH-blk carb.

SH-predom gry/red/brn, few pcs blk, carb, no cup odr, ns.

LS-gry, micro-fn xln, v hard, dense, uniform, rare chalk, sm chert-wht, opaque, few pcs per tray w/scat pr-fr vug por (difficult to see in wets), rare calcite rhombs in vugs, ss lt brn fo in vugs, odr on break, fnt cup odr, scat brt yel fluor along faces, lt brn stn in drys.

SH-blk carb, flood in 4510 sample.

LS-med-lt tan, micro xln, dense, hard, sm foss-brach/spic/ fus, rare ool, sm pyritic inclus, chert-wht, milky, nvp, no cup odr, ns.

LS-tan, m icro xln, as above, foss-as above, v dense, nvp, ns.

SH-blk carb.

LS-tan, micro xln, much as above, abund chert as above, sm LS-mottled tan, profus ool, chalky matrix fill int ool por, no cup odr, ns.

4546-60m in-LS-mostly as above, decr ool, nvp, no fluor, no odr, ns.

LS-gry/lt tan, fn xln, v dense, uniform, sm chert, predom SH-med-drk gry, flecks of mica, sm red, silty, abund blk, carb, no cup odr, ns.

LS-med tan matrix, mottled w/drck calcite pis/ool, micro xln, foss-brach-derbia/crin, v dense/hard, nvp, no odr, ns, SH-m ix as above.

LS-med tan, micro xln, foss-various, matrix dense w/nvp, many pcs per try w/good vug por, good sat, bleed med-drk brn fo & gas bub, strng cup odr, v dul to no fluor, gd streaming cut.

LS-lt-med tan, fn-med xln, mostly dense/hard, foss- as above, abund int foss/vug por as above, gsfo on break, strng cup odr, no fluor, gd streaming cut.

Mix, LS-tan, micro-fn xln, dense, hard, nvp, ns. SH-med gry, silty, red/brn, no cup odr, ns.

LS-tan, fn xln, uniform, dense, hard, few pcs chert-gry, milky, nvp, ns. LS-drk brn, fn

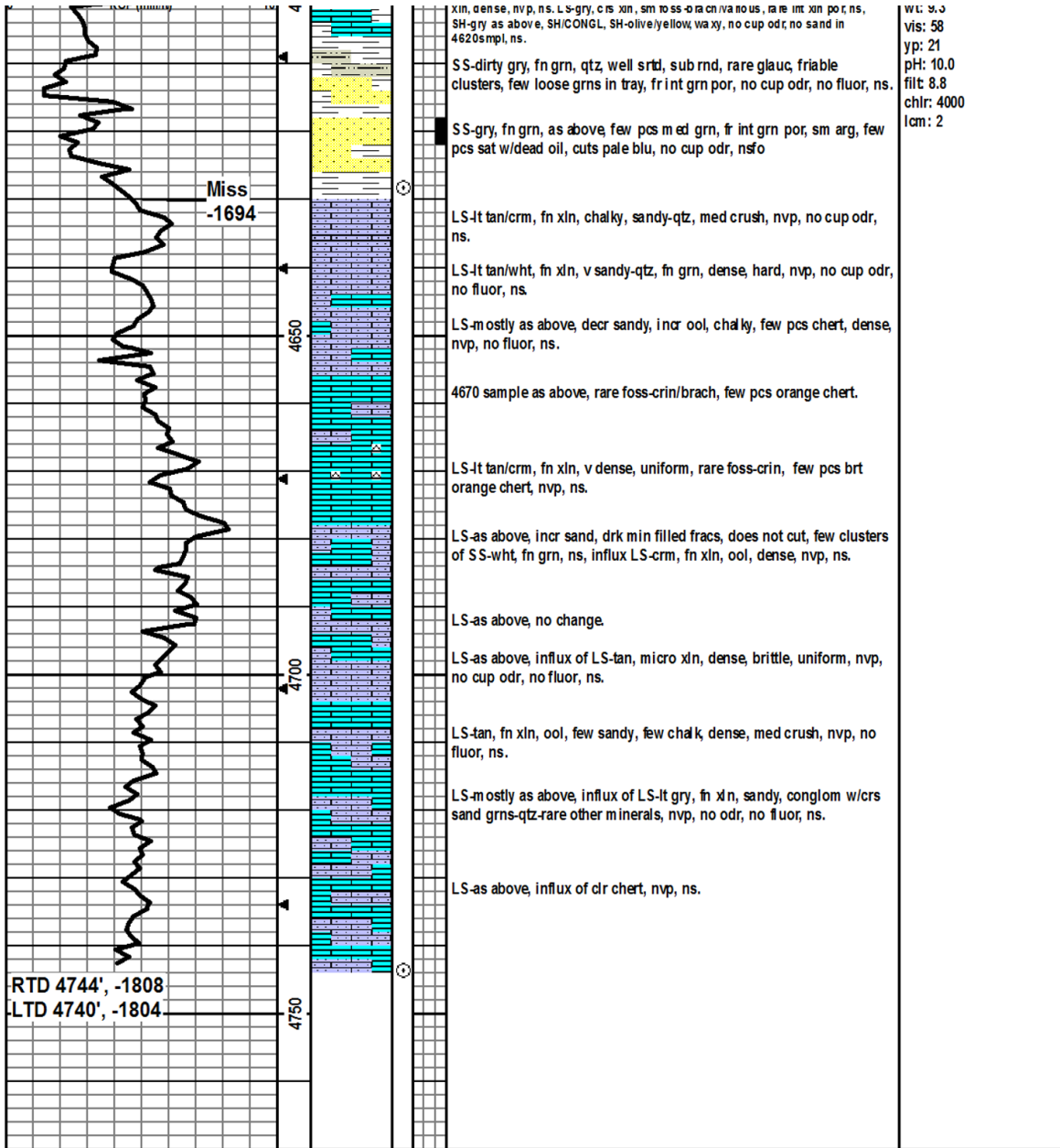
Mudco: 4351'
wt: 9.3
vis: 51
yp: 21
pH: 10.5
flt: 7.2
chr: 3900
lcm: 2

Mudco: 4546'
wt: 9.3
vis: 54
yp: 19
pH: 10.5
flt: 9.6
chr: 4400
lcm: 2

DST#3
Lower Ft. Scott
Vertigris
Krebs
4466'-4546'
30-45-60-90
Rec:
418' Total Fluid
1290' GIP
166' CO
grav:41 deg
126' GMCO
128' SGMCO
IFP: 81-134#
FFP: 141-212#
ISIP: 1224#
FSIP: 1210#

DST#4
Johnson
4544'-4592'
30-45-60-90
Rec:
318' Total Fluid
3' CO
126' OCWM
126' OSM
63' MCW sso
chlor: 62k ppm
IFP: 60-143#
FFP: 130-191#
ISIP: 1015#
FSIP: 987#

Mudco: 4592'



Conservation Division
Finney State Office Building
130 S. Market, Rm. 2078
Wichita, KS 67202-3802



Phone: 316-337-6200
Fax: 316-337-6211
<http://kcc.ks.gov/>

Mark Sievers, Chairman
Ward Loyd, Commissioner
Thomas E. Wright, Commissioner

Sam Brownback, Governor

July 12, 2011

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

Re: ACO1
API 15-063-21908-00-00
HUND 2-9
SW/4 Sec.09-14S-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