



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: _____

1050481



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
---	---

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				

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> _____
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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> <input type="checkbox"/> Other <i>(Specify)</i> _____ <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Grand Mesa Operating Company
Well Name	Smith 1-34
Doc ID	1050481

Tops

Name	Top	Datum
Stone Corral	2489	+494
Bs/Stone Corral	2511	+472
Heebner	3942	-959
Muncie Creek	4137	-1154
Stark	4219	-1236
Marmaton	4322	-1339
Little Osage	4445	-1462
Johnson	4548	-1565
Morrow	4583	-1600
Mississippian	4593	-1610
LTD	4667	



CONSOLIDATED
Oil Well Services, LLC

PO Box 884, Chanute, KS 66720
620-431-9210 or 800-467-8676

TICKET NUMBER 28656

LOCATION Oakley, KS

FOREMAN Russ McCoy

FIELD TICKET & TREATMENT REPORT
CEMENT

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
11-9-10	3372	Smith 1-34	34	12S	32"	Logan
CUSTOMER <u>Grand Mesa</u>			TRUCK #	DRIVER	TRUCK #	DRIVER
MAILING ADDRESS <u>1700 N. Water Front Pkwy Bldg 600</u>			463	Allen B		
CITY <u>Wichita</u>			558	Chad		
STATE <u>Kan</u>						
ZIP CODE <u>67206</u>						
JOB TYPE	HOLE SIZE	HOLE DEPTH	CASING SIZE & WEIGHT			
<u>Surface-0</u>	<u>12 1/4</u>	<u>210'</u>	<u>8 5/8-23 #</u>			
CASING DEPTH	DRILL PIPE	TUBING	OTHER			
<u>210</u>						
SLURRY WEIGHT	SLURRY VOL	WATER gal/sk	CEMENT LEFT in CASING			
			<u>20'</u>			
DISPLACEMENT	DISPLACEMENT PSI	MIX PSI	RATE			
			<u>5</u>			

REMARKS: Safety meeting, Rig up to circ.
Mix 165 sks cement, 3% CaCl₂ - 2% bent, Displace 12 BBL H₂O
Slut in
Circ 2 BBL to Pit

*Thank You
Russ + Crew*

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
54015	1	PUMP CHARGE		985 ⁰⁰
5406	10	MILEAGE	450	4500
11045	165	Class A cement	1600	264000
1102	465 #	Calcium Chloride	88	40920
1118B	310 #	Bentonite (w)	120	6200
5407	7.75	Tax mileage Delivery	150	390 ⁰⁰
				4,531 ²⁰
		less Disc		906 ²⁴
				3,624 ⁹⁶
			SALES TAX	242 ⁰⁰
			ESTIMATED TOTAL	3,867 ⁶⁰

237979

Revin 3737
AUTHORIZATION Anthony [Signature] TITLE Pusher DATE 11-9-10

I acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the customer's account records, at our office, and conditions of service on the back of this form are in effect for services identified on this for

JOB LOG

SWIFT Services, Inc.

DATE 11-18-10 PAGE NO. 1

CUSTOMER		WELL NO.		LEASE		JOB TYPE		TICKET NO.	
<u>GRAND MESA OPERATING</u>		<u>1-34</u>		<u>SMITH</u>		<u>LONG STRIKE - 2 STAGE</u>		<u>19240</u>	
CHART NO.	TIME	RATE (BPM)	VOLUME (BBLS) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS	
				T	C	TUBING	CASING		
	2030								ON LOCATION CMT: Bottom 175 SWS EA-2 TOP 300 SWS SMD R/D 4668, SOD P. 4668 ST 10.0 JAS 07 4668 5 1/2 DIA ON TOP #51, 2531 CMT 2.3, 4.5, 8.11, 14.51 BARRET 2.51 SCARIFERS 50 FT JOINTS 3.4
	2145								START CS 6 & FEEDER
2340	1140								TAG BOTTOM - DROP BACK
2345	1145								BREAK CIRC & ROTATE PLUG
	0015	5.2	12		-		200		500 GAL MWD FLUSH
			20		-				20 WGS 2 1/2 INCL FLUSH
			42 1/2		-				42 1/2 WGS EA-2 CMT, 175 SWS DROP DRUG, WASH W/ PL
	0030	7.2	0		✓		200		START DRUG W/ H2O
			50.6		✓		300		" " W/ MWD
			100.0		-		700		
			105.0		-		800		
	0045	5.0	110.9		-		1500		LAND PLUG RELEASE - DRY, DROP DV OPENING DART
	0055				-		850		OPEN D.V., CIRC W/ RIG, 2 HRS
	0315		7.5						PLUG PH 30, MH 15
	0330	5.5	20		-		300		20 WGS 2 1/2 INCL FLUSH
			142		-		5		142 WGS SMD @ 11.2" 255 SWS DROP DV CLOSING PLUG
	0350	6.5	0		-		300		START DRUG W/ ADD
			30.0		-		500		CIRC CMT TO PIT! 50 SWS
			50.0		-		500		
	0400		60.3		-		1500		LAND PLUG, CLOSE D.V. RELEASE - DRY
									<i>John A. [Signature]</i> <i>Anthony [Signature]</i>
	0500								JOB COMPLETE THANK YOU! Dave, Josh, B. Rob, Joe

JOB LOG

SWIFT Services, Inc.

DATE 12-6-10 PAGE NO. 1

CUSTOMER *Grand Mesa* WELL NO. *#1-34* LEASE *Smith* JOB TYPE *acidize perfs* TICKET NO. *19356*

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1415							on loc setup Trk
								2 7/8" x 5 1/2"
								pk to spot 4566'
								to treat 4513
	1425	2.5	1					spot 1 bbl acid
								set pk to treat
	1439	3	1			0		cont. Acid
	1441	3	7.5			0		start flush
	1447	2	27			0		Hold loaded
	1448		27			200		stage 2 200-0
	1450		27.5			300		inc pres. stage 300-0
	1452		28			400		inc pres. stage 400-100
	1453	.5	28.5			300		Brck & back
	1454	.5	29			300		feeding 1/2 bpm @ 300
	1500	.5	31			300		Acid flushed
						200		151P
								Valuum in 6.5 min

Thank you
Nick & Josh F

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/>

Thomas E. Wright, Chairman
Ward Loyd, Commissioner

Corporation Commission

Sam Brownback, Governor

February 07, 2011

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

Re: ACO1
API 15-109-20959-00-00
Smith 1-34
NW/4 Sec.34-12S-32W
Logan 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



DRILL STEM TEST REPORT

Prepared For: **GRAND MESA OPERATING**

1700 N WATERFRONT
PKWY BLDG 600
WICHITA KS 67206

ATTN: BOB PETERSON

34-12S-32W

SMITH 1-34

Start Date: 2010.11.13 @ 11:00:00

End Date: 2010.11.13 @ 18:20:00

Job Ticket #: 1047 DST #: 1

Eagle Testers LLC.

P.O.Box 1011, Great Bend, KS 67530

620-617-7548

Printed: 2010.11.13 @ 11:45:56

GRAND MESA OPERATING
SMITH 1-34
34-12S-32W
DST # 1
TORONTO-LKC-A-
2010.11.13



DRILL STEM TEST REPORT

GRAND MESA OPERATING

SMITH 1-34

1700 N WATERFRONT
 PKWY BLDG 600
 WICHITA KS 67206
 ATTN: BOB PETERSON

34-12S-32W

Job Ticket: 1047

DST#: 1

Test Start: 2010.11.13 @ 11:00:00

GENERAL INFORMATION:

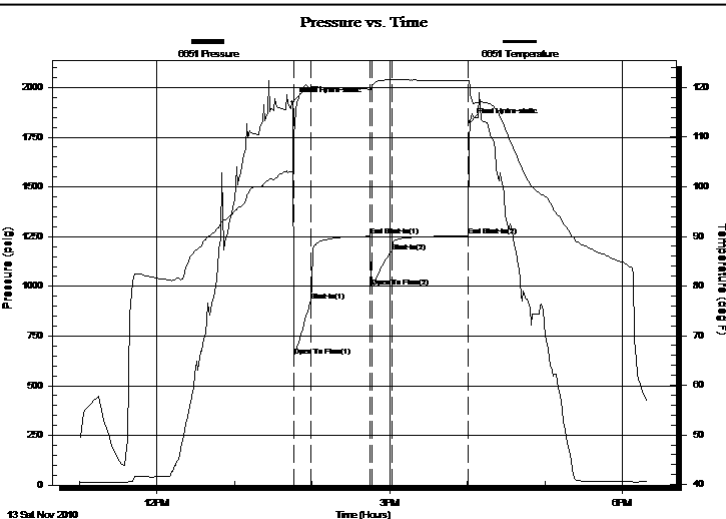
Formation: **TORONTO-LKC -A-**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 13:46:00
 Time Test Ended: 18:20:00
 Interval: **3943.00 ft (KB) To 3995.00 ft (KB) (TVD)**
 Total Depth: 3995.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: DAVID NICHOLS
 Unit No: 15
 Reference Elevations: 2984.00 ft (KB)
 2978.00 ft (CF)
 KB to GR/CF: 6.00 ft

Serial #: 6651

Inside

Press @ Run Depth: 1173.65 psig @ 3991.00 ft (KB) Capacity: 5000.00 psig
 Start Date: 2010.11.13 End Date: 2010.11.13 Last Calib.: 2010.11.13
 Start Time: 11:00:00 End Time: 18:20:00 Time On Btm: 2010.11.13 @ 13:45:00
 Time Off Btm: 2010.11.13 @ 16:02:00

TEST COMMENT: 15-INITIAL OPENING GOOD BLOW BOTTOM BUCKET IN 30 SEC
 45-INITIAL SHUT IN VERY WEAK BLOW BACK
 15-FINAL OPENING GOOD BLOW BOTTOM BUCKET IN 30 SEC
 60-FINAL SHUT IN NO BLOW BACK



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1928.13	103.11	Initial Hydro-static
1	650.03	110.55	Open To Flow (1)
14	926.42	120.09	Shut-In(1)
60	1252.13	119.64	End Shut-In(1)
62	995.59	120.37	Open To Flow (2)
77	1173.65	121.58	Shut-In(2)
136	1255.18	121.39	End Shut-In(2)
137	1825.61	119.89	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
2420.00	MUDDY WATER 10%M 90%WATER	34.21

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

GRAND MESA OPERATING

SMITH 1-34

1700 N WATERFRONT
 PKWY BLDG 600
 WICHITA KS 67206
 ATTN: BOB PETERSON

34-12S-32W

Job Ticket: 1047

DST#: 1

Test Start: 2010.11.13 @ 11:00:00

Tool Information

Drill Pipe:	Length: 3799.00 ft	Diameter: 3.88 inches	Volume: 55.56 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: 122.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose:	70000.00 lb
			<u>Total Volume: 56.16 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	1.00 ft			String Weight: Initial	44000.00 lb
Depth to Top Packer:	3943.00 ft			Final	60000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	52.00 ft				
Tool Length:	75.00 ft				
Number of Packers:	2	Diameter:	6.75 inches		
Tool Comments:					

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
SHUT IN TOOL	5.00			3925.00	
HYD S.I. Tool	5.00			3930.00	
jars	6.00			3936.00	
safty joint	2.00			3938.00	
TRAVEL COLER	2.00			3940.00	
Packer	3.00			3943.00	23.00 Bottom Of Top Packer
travel collar	2.00			3945.00	52.00 Tool Interval
Packer	3.00			3948.00	
change over sub	0.75			3948.75	
drill pipe	31.50			3980.25	
change over sub	0.75			3981.00	
Perforations	9.00			3990.00	
Recorder	1.00	6651	Inside	3991.00	
Recorder	1.00	13772	Outside	3992.00	
bull plug	3.00			3995.00	1000074.00 Bottom Packers & Anchor

Total Tool Length: 75.00



DRILL STEM TEST REPORT

FLUID SUMMARY

GRAND MESA OPERATING

SMITH 1-34

1700 N WATERFRONT
PKWY BLDG 600
WICHITA KS 67206
ATTN: BOB PETERSON

34-12S-32W

Job Ticket: 1047

DST#: 1

Test Start: 2010.11.13 @ 11:00:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 52.00 sec/qt

Water Loss: 8.80 in³

Resistivity: ohm.m

Salinity: 2500.00 ppm

Filter Cake: inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API: deg API

Water Salinity: ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
2420.00	MUDDY WATER 10%M 90%WATER	34.206

Total Length: 2420.00 ft Total Volume: 34.206 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

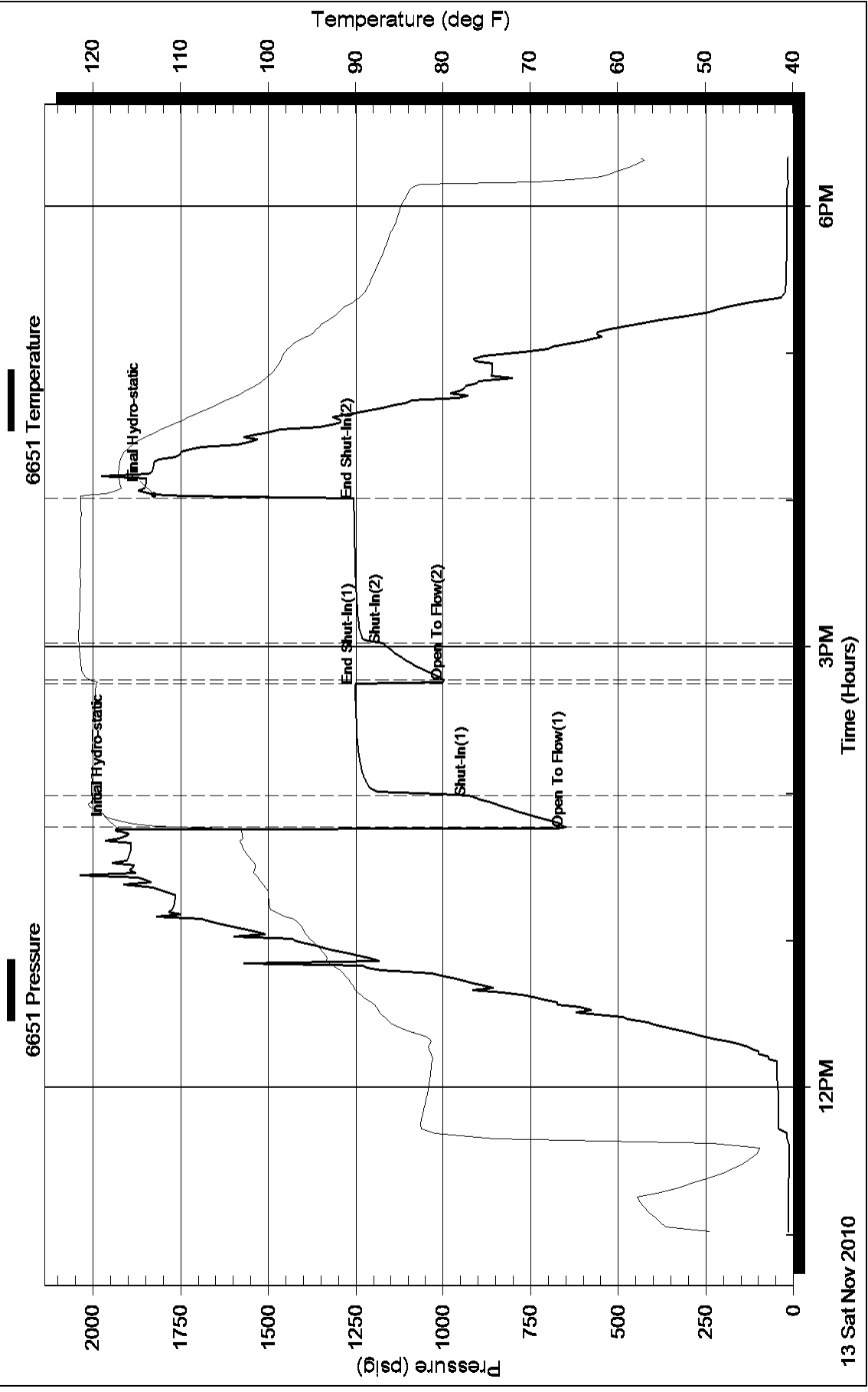
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RECOVERY CHLORIDES 34,000 PPM

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **GRAND MESA OPERATING**

1700 N WATERFRONT
PKWY BLDG 600
WICHITA KS 67206

ATTN: BOB PETERSON

34-12S-32W

SMITH 1-34

Start Date: 2010.11.14 @ 09:00:00

End Date: 2010.11.14 @ 17:11:00

Job Ticket #: 1048 DST #: 2

Eagle Testers LLC.

P.O.Box 1011, Great Bend, KS 67530

620-617-7548

Printed: 2010.11.14 @ 09:11:24

GRAND MESA OPERATING
SMITH 1-34
34-12S-32W
DST # 2
LKC-E-F
2010.11.14



DRILL STEM TEST REPORT

GRAND MESA OPERATING

SMITH 1-34

1700 N WATERFRONT
PKWY BLDG 600
WICHITA KS 67206
ATTN: BOB PETERSON

34-12S-32W

Job Ticket: 1048

DST#: 2

Test Start: 2010.11.14 @ 09:00:00

GENERAL INFORMATION:

Formation: **LKC -E-F**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 10:52:00

Time Test Ended: 17:11:00

Test Type: Conventional Bottom Hole (Initial)

Tester: DAVID NICHOLS

Unit No: 15

Interval: 4054.00 ft (KB) To 4094.00 ft (KB) (TVD)

Reference Elevations: 2984.00 ft (KB)

Total Depth: 4094.00 ft (KB) (TVD)

2978.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 6.00 ft

Serial #: 6651

Inside

Press @ Run Depth: 470.33 psig @ 4090.00 ft (KB)

Capacity: 5000.00 psig

Start Date: 2010.11.14

End Date: 2010.11.14

Last Calib.: 2010.11.14

Start Time: 09:00:00

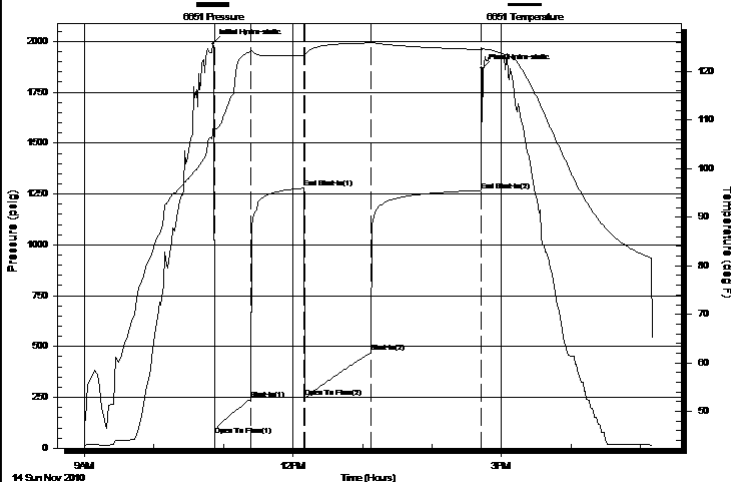
End Time: 17:11:00

Time On Btm: 2010.11.14 @ 10:51:00

Time Off Btm: 2010.11.14 @ 14:43:00

TEST COMMENT: 30-INITIAL OPENING FAIR BLOW BOTTOM BUCKET IN 10 MINS
45-INITIAL SHUT IN VERY WEAK BLOW BACK
60-FINAL OPENING FAIR BLOW BOTTOM BUCKET IN 12 MINS
90-FINAL SHUT IN NO BLOW BACK

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1987.85	108.28	Initial Hydro-static
1	64.95	108.09	Open To Flow (1)
33	241.06	124.19	Shut-In(1)
79	1278.69	123.17	End Shut-In(1)
79	247.84	122.54	Open To Flow (2)
137	470.33	125.86	Shut-In(2)
231	1267.68	124.55	End Shut-In(2)
232	1867.84	124.68	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
840.00	MUDDY WATER 15%MUD 85%WATER	11.10

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

GRAND MESA OPERATING

SMITH 1-34

1700 N WATERFRONT
 PKWY BLDG 600
 WICHITA KS 67206
 ATTN: BOB PETERSON

34-12S-32W

Job Ticket: 1048

DST#: 2

Test Start: 2010.11.14 @ 09:00:00

Tool Information

Drill Pipe:	Length: 3910.00 ft	Diameter: 3.88 inches	Volume: 57.18 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 122.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose: 65000.00 lb
			<u>Total Volume: 57.78 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	1.00 ft			String Weight: Initial 46000.00 lb
Depth to Top Packer:	4054.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	40.00 ft			
Tool Length:	63.00 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			4036.00	
HYD S.I. Tool	5.00			4041.00	
jars	6.00			4047.00	
safty joint	2.00			4049.00	
T.C.	2.00			4051.00	
Packer	3.00			4054.00	23.00 Bottom Of Top Packer
T.C.	2.00			4056.00	40.00 Tool Interval
Packer	3.00			4059.00	
Perforations	30.00			4089.00	
Recorder	1.00	6651	Inside	4090.00	
Recorder	1.00	13772	Outside	4091.00	
BULL PLUG	3.00			4094.00	1000062.00 Bottom Packers & Anchor

Total Tool Length: 63.00



DRILL STEM TEST REPORT

FLUID SUMMARY

GRAND MESA OPERATING

SMITH 1-34

1700 N WATERFRONT
PKWY BLDG 600
WICHITA KS 67206
ATTN: BOB PETERSON

34-12S-32W

Job Ticket: 1048

DST#: 2

Test Start: 2010.11.14 @ 09:00:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 52.00 sec/qt

Water Loss: 8.80 in³

Resistivity: ohm.m

Salinity: 2500.00 ppm

Filter Cake: inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API:

Water Salinity: deg API

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
840.00	MUDDY WATER 15%MUD 85%WATER	11.100

Total Length: 840.00 ft Total Volume: 11.100 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

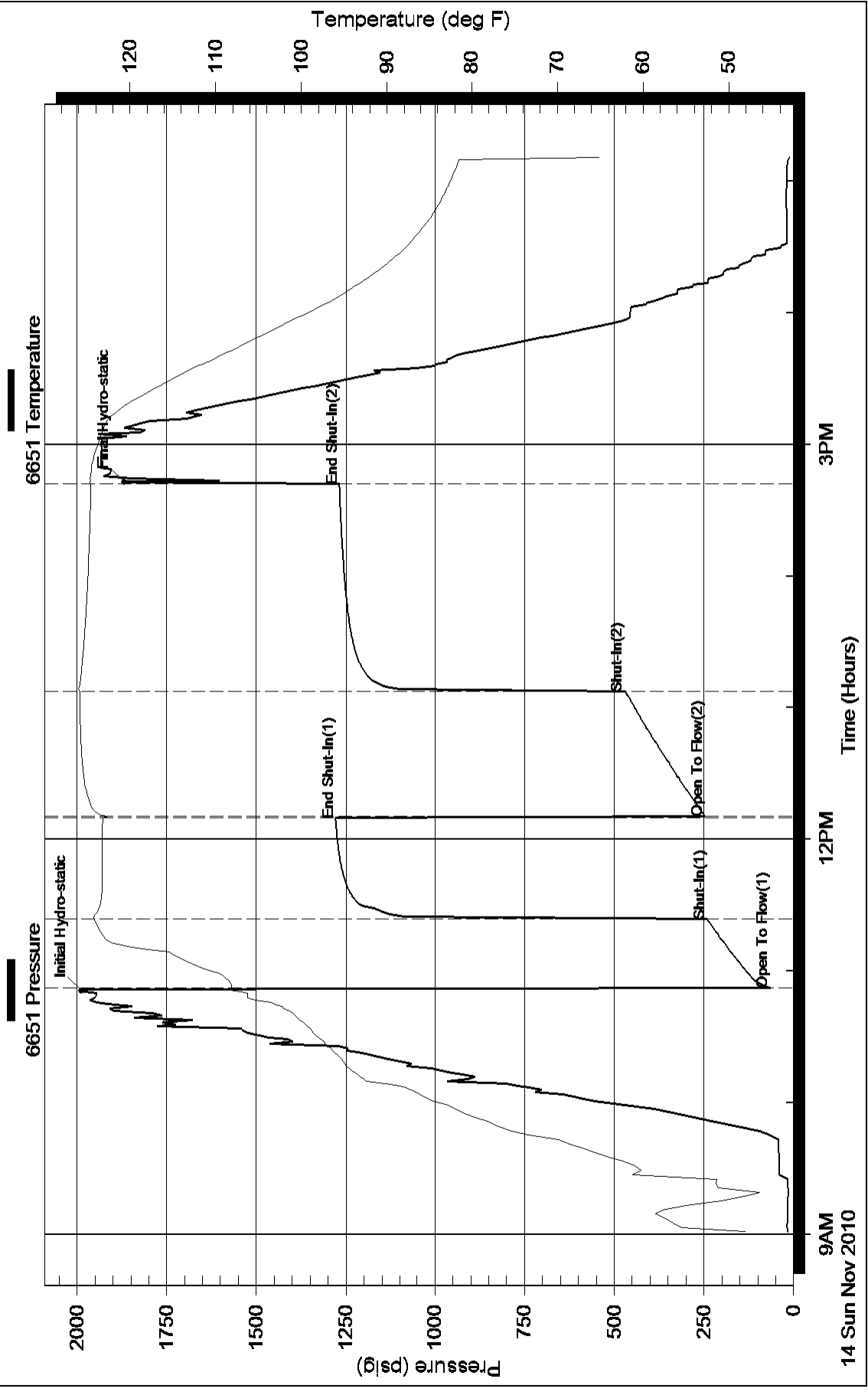
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RECOVERY CHLORIDES 35,000 PPM

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **GRAND MESA OPERATING**

1700 N WATERFRONT
PKWY BLDG 600
WICHITA KS 67206

ATTN: BOB PETERSON

34-12S-32W LOGAN

SMITH 1-34

Start Date: 2010.11.15 @ 10:00:00

End Date: 2010.11.15 @ 17:43:30

Job Ticket #: 1049 DST #: 3

Eagle Testers LLC.

P.O.Box 1011, Great Bend, KS 67530

620-617-7548

Printed: 2010.11.15 @ 10:58:03

GRAND MESA OPERATING
SMITH 1-34
34-12S-32W LOGAN
DST # 3
LKC -J-
2010.11.15



DRILL STEM TEST REPORT

GRAND MESA OPERATING

SMITH 1-34

1700 N WATERFRONT
PKWY BLDG 600
WICHITA KS 67206
ATTN: BOB PETERSON

34-12S-32W LOGAN

Job Ticket: 1049 **DST#: 3**
Test Start: 2010.11.15 @ 10:00:00

GENERAL INFORMATION:

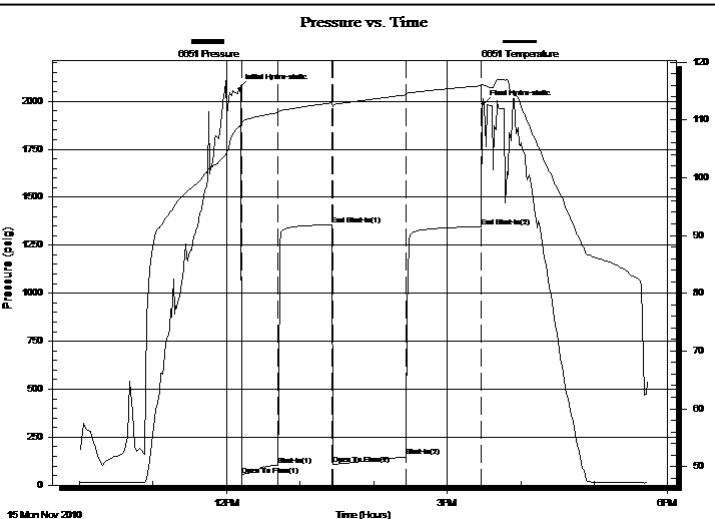
Formation: **LKC -J-**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 12:12:30
 Time Test Ended: 17:43:30
 Interval: **4193.00 ft (KB) To 4225.00 ft (KB) (TVD)**
 Total Depth: 4225.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Poor
 Test Type: Conventional Bottom Hole (Initial)
 Tester: DAVID NICHOLS
 Unit No: 15
 Reference Elevations: 2984.00 ft (KB)
 2978.00 ft (CF)
 KB to GR/CF: 6.00 ft

Serial #: 6651

Inside

Press @ Run Depth: 149.34 psig @ 4221.00 ft (KB) Capacity: 5000.00 psig
 Start Date: 2010.11.15 End Date: 2010.11.15 Last Calib.: 2010.11.15
 Start Time: 10:00:00 End Time: 17:43:30 Time On Btm: 2010.11.15 @ 12:10:00
 Time Off Btm: 2010.11.15 @ 15:29:00

TEST COMMENT: 30-INITIAL OPENING WEAK BLOW BUILT TO 2 1/2 INCHES INTO WATER
 45-INITIAL SHUT IN NO BLOW BACK
 60-FINAL OPENING WEAK BLOW BUILT TO 5 INCHES INTO WATER
 60-FINAL SHUT IN NO BLOW BACK



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2063.67	108.81	Initial Hydro-static
3	53.00	109.30	Open To Flow (1)
32	104.63	111.22	Shut-In(1)
76	1356.80	112.97	End Shut-In(1)
77	109.22	112.23	Open To Flow (2)
136	149.34	114.30	Shut-In(2)
198	1346.50	115.92	End Shut-In(2)
199	1983.32	116.09	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	WATER CUT MUD 40%WATER 60%MUD	0.59
90.00	MUDDY WATER SKIM OF OIL	1.32
0.00	20%MUD 80%WATER	0.00

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

GRAND MESA OPERATING

SMITH 1-34

1700 N WATERFRONT
 PKWY BLDG 600
 WICHITA KS 67206
 ATTN: BOB PETERSON

34-12S-32W LOGAN

Job Ticket: 1049 **DST#: 3**
 Test Start: 2010.11.15 @ 10:00:00

Tool Information

Drill Pipe:	Length: 4050.00 ft	Diameter: 3.88 inches	Volume: 59.23 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: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 59.82 bbl</u>	Tool Chased 240.00 ft
Drill Pipe Above KB:	0.00 ft			String Weight: Initial 48000.00 lb
Depth to Top Packer:	4193.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	32.00 ft			
Tool Length:	55.00 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			4175.00	
HYD S.I. Tool	5.00			4180.00	
jars	6.00			4186.00	
safty joint	2.00			4188.00	
TRAVEL COLER	2.00			4190.00	
Packer	3.00			4193.00	23.00 Bottom Of Top Packer
travel collar	2.00			4195.00	32.00 Tool Interval
Packer	3.00			4198.00	
Anchor	22.00			4220.00	
Recorder	1.00	6651	Inside	4221.00	
Recorder	1.00	13772	Outside	4222.00	
BULL PLUG	3.00			4225.00	1000054.00 Bottom Packers & Anchor

Total Tool Length: 55.00



DRILL STEM TEST REPORT

FLUID SUMMARY

GRAND MESA OPERATING

SMITH 1-34

1700 N WATERFRONT
PKWY BLDG 600
WICHITA KS 67206
ATTN: BOB PETERSON

34-12S-32W LOGAN

Job Ticket: 1049

DST#: 3

Test Start: 2010.11.15 @ 10:00:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 48.00 sec/qt
Water Loss: 9.20 in³
Resistivity: ohm.m
Salinity: 3000.00 ppm
Filter Cake: inches

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

Oil API: deg API
Water Salinity: ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
120.00	WATER CUT MUD 40%WATER 60%MUD	0.590
90.00	MUDDY WATER SKIM OF OIL	1.316
0.00	20%MUD 80%WATER	0.000

Total Length: 210.00 ft Total Volume: 1.906 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

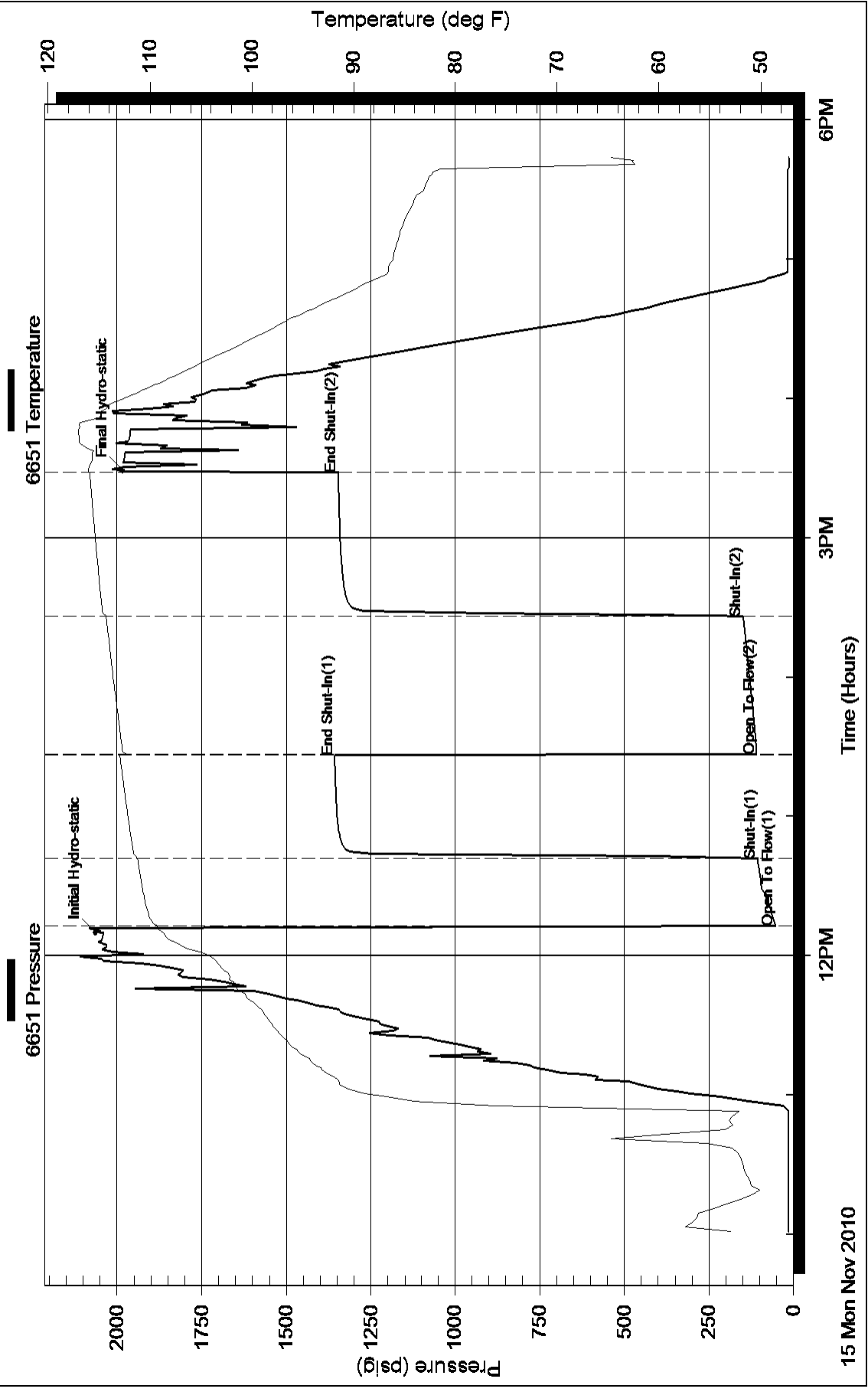
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RECOVERY CHOLORIDES 36,000

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **GRAND MESA OPERATING**

1700 N WATERFRONT
PKWY BLDG 600
WICHITA KS 67206

ATTN: BOB PETERSON

34-12S-32W LOGAN

SMITH 1-34

Start Date: 2010.11.16 @ 03:00:00

End Date: 2010.11.16 @ 10:25:00

Job Ticket #: 1050 DST #: 4

Eagle Testers LLC.

P.O.Box 1011, Great Bend, KS 67530

620-617-7548

Printed: 2010.11.16 @ 03:14:21

GRAND MESA OPERATING
SMITH 1-34
34-12S-32W LOGAN
DST # 4
LKC-K-
2010.11.16



DRILL STEM TEST REPORT

GRAND MESA OPERATING

SMITH 1-34

1700 N WATERFRONT
PKWY BLDG 600
WICHITA KS 67206
ATTN: BOB PETERSON

34-12S-32W LOGAN

Job Ticket: 1050 **DST#: 4**
Test Start: 2010.11.16 @ 03:00:00

GENERAL INFORMATION:

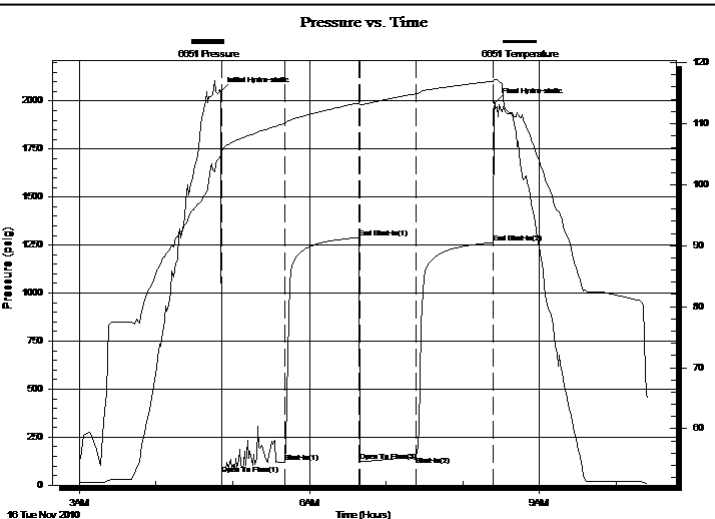
Formation: **LKC-K-**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 04:51:00
 Time Test Ended: 10:25:00
 Interval: **4218.00 ft (KB) To 4252.00 ft (KB) (TVD)**
 Total Depth: 4252.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: DAVID NICHOLS
 Unit No: 15
 Reference Elevations: 2984.00 ft (KB)
 2978.00 ft (CF)
 KB to GR/CF: 6.00 ft

Serial #: 6651

Inside

Press @ Run Depth: 148.53 psig @ 4248.00 ft (KB) Capacity: 14000.00 psig
 Start Date: 2010.11.16 End Date: 2010.11.16 Last Calib.: 2010.11.16
 Start Time: 03:00:00 End Time: 10:25:00 Time On Btm: 2010.11.16 @ 04:50:30
 Time Off Btm: 2010.11.16 @ 08:25:00

TEST COMMENT: 45-INITIAL OPENING WEAK BLOW BUILT TO 1 1/2 INTO WATER
 60-INITIAL SHUT IN NO BLOW BACK
 45-FINAL OPENING WEAK BLOW BUILT TO 6 INCHES INTO WATER
 60-FINAL SHUT IN NO BLOW BACK



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2050.48	104.69	Initial Hydro-static
1	56.70	103.77	Open To Flow (1)
50	121.43	110.02	Shut-In(1)
108	1288.92	113.39	End Shut-In(1)
109	123.27	113.12	Open To Flow (2)
154	148.53	114.90	Shut-In(2)
213	1263.66	116.95	End Shut-In(2)
215	1991.51	117.21	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
100.00	MUD WITH A SKIM OF OIL 100%MUD	0.49
60.00	MUD CUT WATER 30%MUD 70%WATER	0.68
60.00	MUDDY WATER 20%MUD 80%WATER	0.88

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

GRAND MESA OPERATING

SMITH 1-34

1700 N WATERFRONT
 PKWY BLDG 600
 WICHITA KS 67206
 ATTN: BOB PETERSON

34-12S-32W LOGAN

Job Ticket: 1050 **DST#: 4**
 Test Start: 2010.11.16 @ 03:00:00

Tool Information

Drill Pipe:	Length: 4075.00 ft	Diameter: 3.88 inches	Volume: 59.59 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 75000.00 lb
			<u>Total Volume: 60.18 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	0.00 ft			String Weight: Initial 46000.00 lb
Depth to Top Packer:	4218.00 ft			Final 48000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	34.00 ft			
Tool Length:	57.00 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			4200.00	
HYD S.I. Tool	5.00			4205.00	
jars	6.00			4211.00	
safty joint	2.00			4213.00	
TRAVEL COLER	2.00			4215.00	
Packer	3.00			4218.00	23.00 Bottom Of Top Packer
travel collar	2.00			4220.00	34.00 Tool Interval
Packer	3.00			4223.00	
Anchor	24.00			4247.00	
Recorder	1.00	6651	Inside	4248.00	
Recorder	1.00	13772	Outside	4249.00	
BULL PLUG	3.00			4252.00	1000056.00 Bottom Packers & Anchor

Total Tool Length: 57.00



DRILL STEM TEST REPORT

FLUID SUMMARY

GRAND MESA OPERATING

SMITH 1-34

1700 N WATERFRONT
PKWY BLDG 600
WICHITA KS 67206
ATTN: BOB PETERSON

34-12S-32W LOGAN

Job Ticket: 1050

DST#: 4

Test Start: 2010.11.16 @ 03:00:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 48.00 sec/qt
Water Loss: 9.20 in³
Resistivity: ohm.m
Salinity: 3000.00 ppm
Filter Cake: inches

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

Oil API: deg API
Water Salinity: ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
100.00	MUD WITH A SKIM OF OIL 100%MUD	0.492
60.00	MUD CUT WATER 30%MUD 70%WATER	0.683
60.00	MUDDY WATER 20%MUD 80%WATER	0.877

Total Length: 220.00 ft Total Volume: 2.052 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

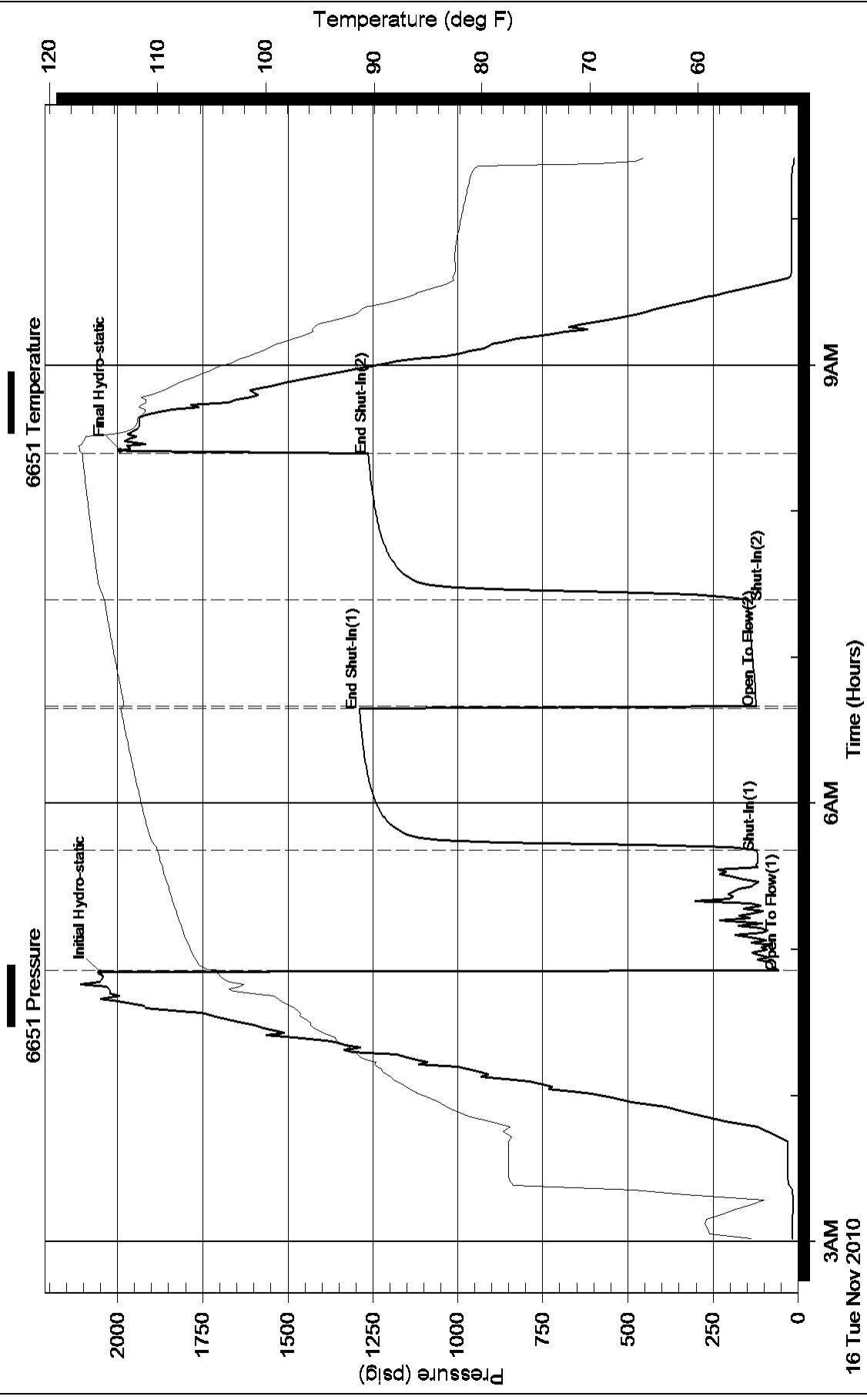
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **GRAND MESA OPERATING**

1700 N WATERFRONT
PKWY BLDG 600
WICHITA KS 67206

ATTN: BOB PETERSON

34-12S-32W LOGAN

SMITH 1-34

Start Date: 2010.11.17 @ 19:00:00

End Date: 2010.11.18 @ 03:28:00

Job Ticket #: 1051 DST #: 5

Eagle Testers LLC.

P.O.Box 1011, Great Bend, KS 67530

620-617-7548

Printed: 2010.11.17 @ 19:55:16

GRAND MESA OPERATING
SMITH 1-34
34-12S-32W LOGAN
DST # 5
JOHNSON
2010.11.17



DRILL STEM TEST REPORT

GRAND MESA OPERATING

SMITH 1-34

1700 N WATERFRONT
PKWY BLDG 600
WICHITA KS 67206
ATTN: BOB PETERSON

34-12S-32W LOGAN

Job Ticket: 1051 **DST#: 5**
Test Start: 2010.11.17 @ 19:00:00

GENERAL INFORMATION:

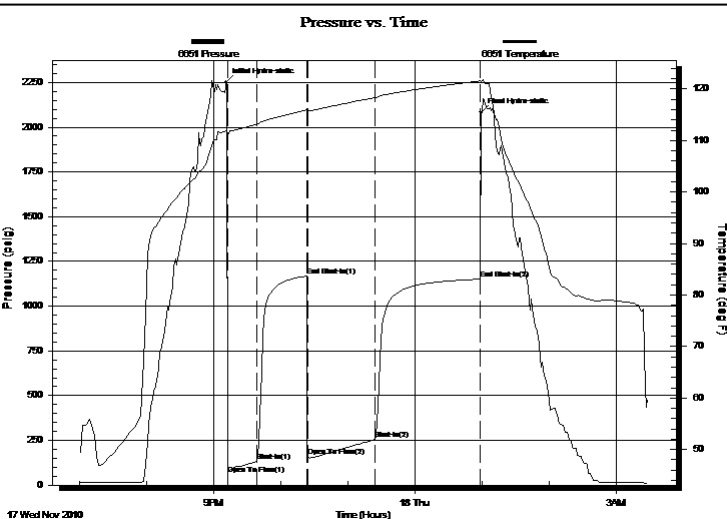
Formation: **JOHNSON**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 21:12:00
 Time Test Ended: 03:28:00
 Interval: **4531.00 ft (KB) To 4564.00 ft (KB) (TVD)**
 Total Depth: 4564.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: DAVID NICHOLS
 Unit No: 15
 Reference Elevations: 2984.00 ft (KB)
 2978.00 ft (CF)
 KB to GR/CF: 6.00 ft

Serial #: 6651

Inside

Press @ Run Depth: 255.02 psig @ 4560.00 ft (KB) Capacity: 5000.00 psig
 Start Date: 2010.11.17 End Date: 2010.11.18 Last Calib.: 2010.11.17
 Start Time: 19:00:00 End Time: 03:28:00 Time On Btm: 2010.11.17 @ 21:11:00
 Time Off Btm: 2010.11.18 @ 00:58:30

TEST COMMENT: 30-INITIAL OPENING FAIR BLOW BOTTOM BUCKET IN 9 MINS
 45-INITIAL SHUT IN VERY WEAK BLOW BACK
 60-FINAL OPENING WEAK BLOW BUILT TO BOTTOM BUCKET IN 20 MINS
 90-FINAL SHUT VERY WEAK BLOW BACK



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2250.69	111.95	Initial Hydro-static
1	59.89	111.09	Open To Flow (1)
28	133.47	113.19	Shut-In(1)
72	1167.92	115.93	End Shut-In(1)
73	161.17	115.72	Open To Flow (2)
133	255.02	118.32	Shut-In(2)
227	1150.57	121.57	End Shut-In(2)
228	2081.28	121.52	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
590.00	GASSY OIL 10%GAS90%OIL	7.45
60.00	MUD CUT OIL 20%MUD80%OIL	0.88
1000.00	GAS IN PIPE 100%GAS	14.62

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

GRAND MESA OPERATING

SMITH 1-34

1700 N WATERFRONT
 PKWY BLDG 600
 WICHITA KS 67206
 ATTN: BOB PETERSON

34-12S-32W LOGAN

Job Ticket: 1051 **DST#: 5**
 Test Start: 2010.11.17 @ 19:00:00

Tool Information

Drill Pipe:	Length: 4388.00 ft	Diameter: 3.88 inches	Volume: 64.17 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: 121.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose: 55000.00 lb
			<u>Total Volume: 64.77 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	1.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	4531.00 ft			Final 51000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	33.00 ft			
Tool Length:	56.00 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			4513.00	
HYD S.I. Tool	5.00			4518.00	
jars	6.00			4524.00	
safty joint	2.00			4526.00	
TRAVEL COLER	2.00			4528.00	
Packer	3.00			4531.00	23.00 Bottom Of Top Packer
travel collar	2.00			4533.00	33.00 Tool Interval
Packer	3.00			4536.00	
Anchor	23.00			4559.00	
Recorder	1.00	6651	Inside	4560.00	
Recorder	1.00		Outside	4561.00	
BULL PLUG	3.00			4564.00	1000055.00 Bottom Packers & Anchor
Total Tool Length:	56.00				



DRILL STEM TEST REPORT

FLUID SUMMARY

GRAND MESA OPERATING

SMITH 1-34

1700 N WATERFRONT
PKWY BLDG 600
WICHITA KS 67206
ATTN: BOB PETERSON

34-12S-32W LOGAN

Job Ticket: 1051

DST#: 5

Test Start: 2010.11.17 @ 19:00:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

30 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 54.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.00 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3800.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
590.00	GASSY OIL 10%GAS90%OIL	7.454
60.00	MUD CUT OIL 20%MUD80%OIL	0.877
1000.00	GAS IN PIPE 100%GAS	14.624

Total Length: 1650.00 ft Total Volume: 22.955 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

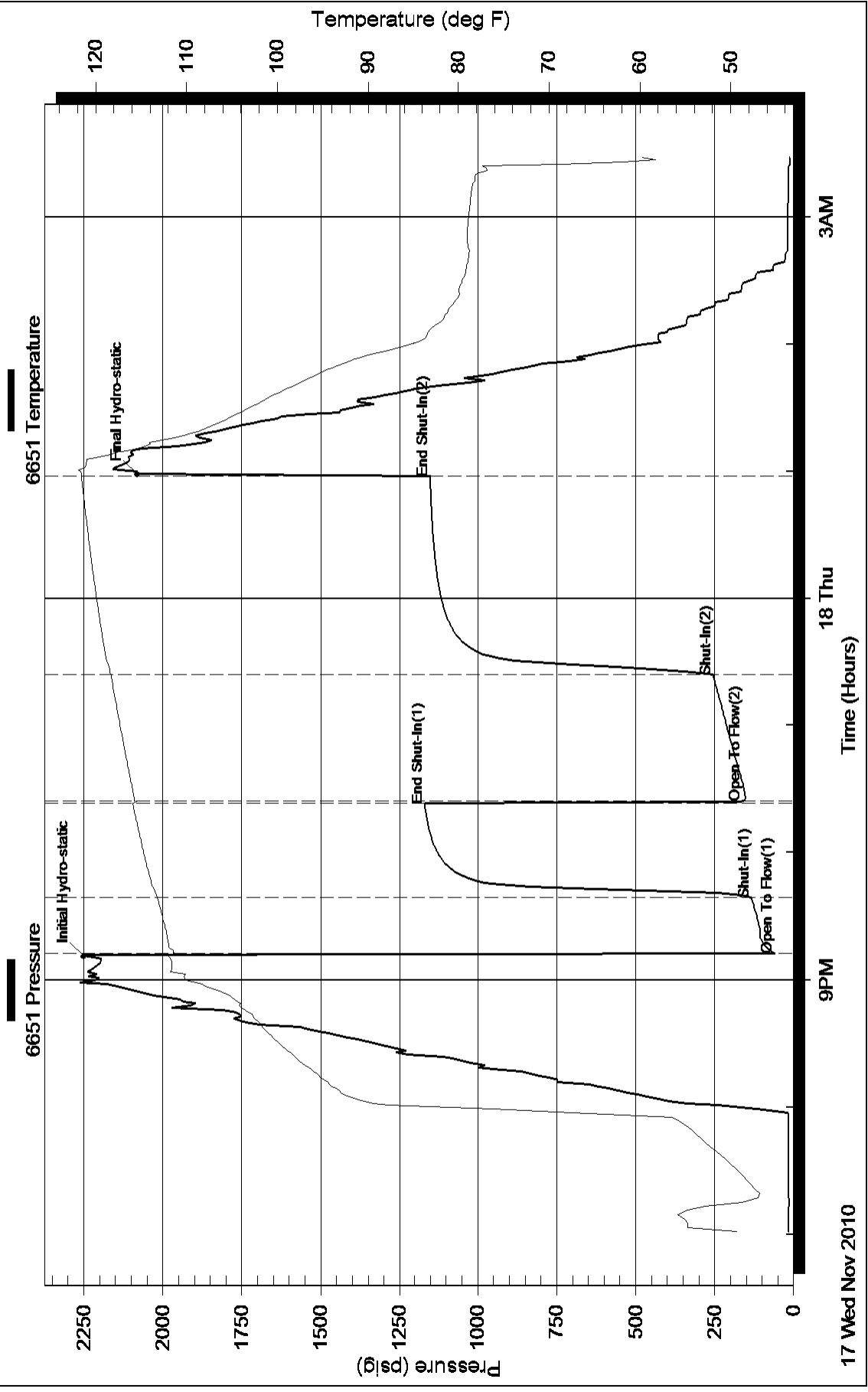
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: GRAVITY OF OIL 30

Pressure vs. Time



GEOLOGIST'S REPORT

DRILLING TIME AND SAMPLE LOG

GRAND MESA OPERATING CO.

WELL: SMITH #1-34

LOC.: 1896' FNL & 2374' FWL
 SEC. 34-12-32W
 LOGAN COUNTY, KANSAS
 API: 15-109-20959-00-00

DRILLING CONTR.: MURFIN RIG #24
 SPUD: 11-09-10 COMP: 11-19-10
 MUD UP: 3500' TYPE MUD: CHEM.
 DRILL TIME: 3600-RTD
 RTD: 4670' LTD: 4667'
 SAMPLES SAVED: 3800-RTD
 GEOLOGIST: ROBERT J. PETERSEN

ELEVATION

KB: 2983'

GL: 2978'

LOG MEASURED FROM: KB

SURFACE CASING

2 3/8" 8 5/8" surface csg.
 Set @210' KB.
 Cem: w/165sx Common,
 3% CC, 2% Gel.

PRODUCTION CASING

5 1/2", 15.5#
 casing set @4666'
 cem w/175sx
 DV tool @ 2531'
 cem to surf. w/255sx

WELL LOG SURVEYS

DIL/CDL w/micro

FORMATION TOPS

Formation	Sample Top	Datum	E-Log Top	Datum	Position
Stone Corral	2493	490	2489	494	#4
Bs/Stone Corral	2516	467	2511	472	#4
Heebner	3944	-961	3942	-959	#17
Muncie Creek	4139	-1156	4137	-1154	#18
Stark	4222	-1239	4219	-1236	#16
Marmaton	4325	-1342	4322	-1339	#12
Little Osage	4449	-1466	4443	-1462	#19
Johnson	4555	-1572	4548	-1565	#21
Morrow	4576	-1593	4583	-1600	#19
Mississippi	4604	-1621	4593	-1610	#34
RTD/LTD	4670		4667		

REFERENCE WELL:

1-27 Janova - GMOOC
 NE/NE/SE Sec. 27-125-32W
 KB: 3012'

REMARKS AND RECOMMENDATIONS

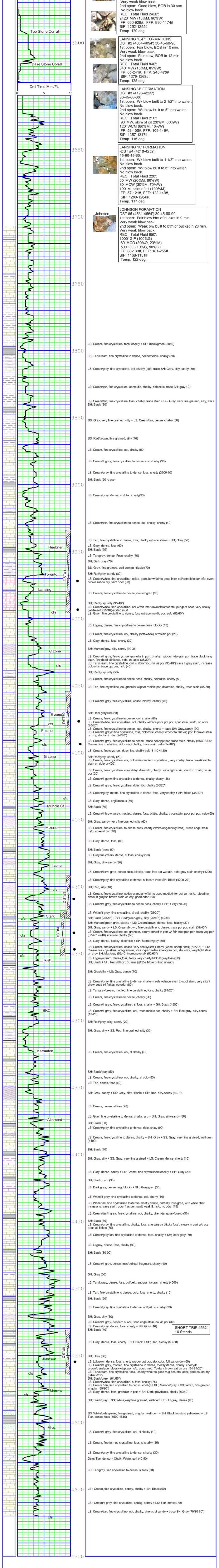
The operator has run production casing in order to further test the Johnson Zone in this well.

Robert J. Petersen
 Robert J. Petersen

DAILY REPORT

@7:00 A.M.

11-09-10: M/R/U
 11-10-10: 461' DRILLING
 11-11-10: 2620' DRILLING
 11-12-10: 3640' DRILLING
 11-13-10: 3995' DST#2
 11-14-10: 4094' DST#1
 11-15-10: 4225' DST#3
 11-16-10: 4268' DST#4
 11-17-10: 4555' DRILLING
 11-18-10: 4670' RTD CIRC. FOR LOG
 11-19-10: CASING RUN RIG RELEASED



TORONTO/LANSING "A" FORMATION
 DST #1 (3943-3995')
 15-45-15-60:
 1st open: Good blow, BOB in 30 sec.
 Very weak blow back.
 2nd open: Good blow, BOB in 30 sec.
 No blow back.
 REC: Total Fluid 2420':
 2420' MW (10%M, 90%W)
 IFP: 650-926#, FFP: 996-1174#
 SIP: 1252-1255#
 Temp. 120 deg.

LANSING "E-F" FORMATIONS
 DST #2 (4054-4094') 30-45-60-90:
 1st open: Fair blow, BOB in 10 min.
 Very weak blow back.
 2nd open: Fair blow, BOB in 12 min.
 No blow back.
 REC: Total Fluid 840':
 840' MW (15%M, 85%W)
 IFP: 65-241#, FFP: 248-470#
 SIP: 1279-1268#
 Temp. 125 deg.

LANSING "J" FORMATION
 DST #3 (4193-4225')
 30-45-60-60:
 1st open: Wk blow built to 2 1/2" into water.
 No blow back.
 2nd open: Wk blow built to 5" into water.
 No blow back.
 REC: Total Fluid 210':
 90' MW, skim of oil (20%M, 80%W)
 120' WCM (60%M, 40%W)
 IFP: 53-105#, FFP: 109-149#
 SIP: 1357-1347#
 Temp. 116 deg.

LANSING "K" FORMATION
 DST #4 (4218-4252')
 45-60-45-60:
 1st open: Wk blow built to 1 1/2" into water.
 No blow back.
 2nd open: Wk blow built to 6" into water.
 No blow back.
 REC: Total Fluid 220':
 60' MW (20%M, 80%W)
 60' MCW (30%M, 70%W)
 100' M, skim of oil (100%#)
 IFP: 57-121#, FFP: 123-149#
 SIP: 1289-1264#
 Temp. 117 deg.

JOHNSON FORMATION
 DST #5 (4531-4564') 30-45-60-90:
 1st open: Fair blow btm of bucket in 9 min.
 Very weak blow back.
 2nd open: Weak blw built to btm of bucket in 20 min.
 Very weak blow back.
 REC: Total Fluid 650':
 1000' GIP (100%G)
 60' MCO (80%O, 20%M)
 590' GO (10%G, 90%O)
 IFP: 60-133#, FFP: 161-255#
 SIP: 1168-1151#
 Temp. 122 deg.

LS: Cream, fine crystalline, foss, chalky + SH; Black/green (3810)
 LS: Tan/cream, fine crystalline to dense, ool/oolomoldic, chalky (20)
 LS: Cream/gray, fine crystalline, ool, chalky (soft) trace SH; Gray, silty-sandy (30)
 LS: Cream/tan, fine crystalline, oolomoldic, chalky, dolomitic, trace SH; gray (40)
 LS: Cream/tan, fine crystalline, foss, chalky, trace stain + SS; Gray, very fine grained, silty, trace SH; Black (50)
 SS: Gray, very fine grained, silty + LS; Cream/tan, dense, chalky (60)
 SS: Red/brown, fine grained, silty (70)
 LS: Cream, fine crystalline, ool, chalky (80)
 LS: Cream/lt gray, fine crystalline to dense, ool, chalky (90)
 LS: Cream/gray, fine crystalline to dense, foss, cherty (3900-10)
 SH: Black (20-trace)
 LS: Cream/gray, dense, sl dolo, cherty(30)
 LS: Cream/tan, fine crystalline to dense, ool, chalky, cherty (40)
 LS: Tan, fine crystalline to dense, foss, chalky w/trace stain + SH; Gray (50)
 LS: Gray, dense, foss (60)
 SH: Black (60)
 LS: Tan/gray, dense, Foss, chalky (70)
 SH: Dark gray (70)
 SS: Gray, fine grained, well-cem to friable (70)
 SH: Red/gray, sandy (80)
 LS: Cream/white, fine crystalline, oolitic-granular w/fair to good inter-ool/oolomoldic por, sfo, even brown sat on dry, faint odor (80)
 LS: Cream, fine crystalline to dense, ool-subgran (90)
 SH: Red/gray, silty (95/40')
 LS: Cream/white, fine crystalline, ool w/fair inter ool/moldic/por sfo, pungent odor, very chalky (white-soft)(95/40)-added mud
 LS: Gray, fine crystalline to dense, foss w/trace moldic por, sfo (95/60')
 LS: Lt gray, dense, fine crystalline to dense, foss, blocky (15)
 LS: Cream, fine crystalline, ool, chalky (soft-white) w/moldic por (20)
 LS: Gray, dense, foss, cherty (30)
 SH: Maroon/gray, silty-sandy (30-35)
 LS: Cream/lt gray, fine crys, ool-granular in part, chalky, w/por intergran por, trace black larry stain, few dead oil flakes, nsfo, no odor (35/20')
 LS: Cream, fine crystalline, ool-granular, foss, dolomitic, no vis por (35/40') trace lt gray stain, increase dolomitic, trace ppt por, nsfo (40)
 SH: Red/gray, silty (50)
 LS: Cream, fine crystalline to dense, foss, chalky, dolomitic, cherty (50)
 LS: Tan, fine crystalline, ool-granular w/por moldic por, dolomitic, chalky, trace stain (55-60)
 LS: Cream/lt gray, fine crystalline, oolitic, blocky, chalky (70)
 SH: Dark gray/red (80)
 LS: Cream, fine crystalline to dense, ool, chalky (80)
 LS: Cream/white, fine crystalline, ool, chalky w/trace por ppt por, spot stain, vssfo, no odor (80/20')
 LS: Cream, fine crystalline to dense, ool, chalky, cherty + trace SH; Gray, sandy (90)
 LS: Cream/lt gray, fine crystalline, ool-granular, foss, dolomitic, chalky w/por to fair w/intergran por, trace vug por on dry, sfo, faint odor (94/20')
 LS: Cream/lt gray, fine crystalline to dense, trace por ppt por, trace stain, chalky (94/40') LS: Cream, fine crystalline, ool, very chalky, trace stain, sfo (94/40')
 LS: Cream, fine crys, ool, dolomitic, chalky-soft (4110-4120)
 SH: Red/gray, sandy (20)
 LS: Cream, fine crystalline, ool, dolomitic-medium crystalline, very chalky, trace questionable stain on dolo-dry(20)
 LS: Cream, fine crystalline, ool-chalky, dolomitic, cherty, trace light stain, vssfo in chalk, no vis por (30)
 LS: Cream/lt gray, fine crystalline to dense, chalky-cherty (36)
 LS: Cream/lt gray, fine crystalline, dolomitic, chalky (36/20')
 LS: Cream/gray, mottle, fine crystalline to dense, foss, very chalky + SH; Black (36/40')
 LS: Gray, dense, argillaceous (50)
 SH: Black (50)
 LS: Cream/lt brown/gray, mottled, dense, foss, brittle, chalky, trace stain, poor ppt por, nsfo (60)
 SH: Gray, sandy (very fine grained) silty (60)
 LS: Cream, fine crystalline, to dense, foss, cherty (white-ang-blocky-foss), trace edge stain, nsfo, no evid por (70)
 LS: Gray, dense, foss, (80)
 SH: Black (trace 80)
 LS: Gray/tan/cream, dense, sl foss, chalky (90)
 SH: Gray, silty-sandy (90)
 LS: Cream/tan/lt gray, dense, foss, blocky, trace frac por w/stain, nsfo-gray stain on dry (4200)
 LS: Cream/gray, fine crystalline to dense, sl foss + trace SH; Black (4200-20')
 SH: Red, silty (10)
 LS: Cream, fine crystalline, oolitic-granular w/fair to good modic/inter ool por, gsfo, bleeding show, lt grayish brown stain on dry, good odor (20)
 LS: Cream/lt gray, fine crystalline to dense, foss, chalky + SH; Gray (20-25)
 LS: White/lt gray, fine crystalline, sl ool, chalky (25/20')
 SH: Black (25/20') + SH; Red/green-gray, silty (25/40') (4230)
 SH: Maroon/green-gray, blocky + LS; Cream/brown, dense, foss, blocky (37)
 SH: Gray, sandy + LS; Cream/brown, fine crystalline to dense, trace ppt por, stain (37/40')
 LS: Cream, fine crystalline, ool-granular, poorly sorted in part w/ fair intergran por, trace vug por (37/40') (4240) increase chalk (50)
 LS: Gray, dense, blocky, dolomitic + SH; Maroon/gray (50)
 LS: Cream, fine crystalline, oolitic, very chalky(soft)Cherty (white, sharp, foss) (52/20') + LS: Cream fine crystalline, ool-granular, foss in-part w/fair inter-gran por, sfo, odor, very light stain on dry+ SH; Mar/gray (52/40) increase chalk (52/60')
 LS: Lt gray/cream, dense, foss, blocky very cherty(black/lt gray/foss)(60)
 SH: Black + SH: Red (60 circ 30 min @4252 before drilling ahead)
 SH: Gray/silty + LS; Gray, dense (70)
 LS: Cream/gray, fine crystalline to dense, chalky-mealy w/trace even to spot stain, very slight show dead oil flakes, no odor (80)
 LS: Tan/gray/cream, mottled, fine crystalline, foss, chalky (84/20')
 LS: Cream, fine crystalline to dense, chalky (90)
 LS: Cream/lt gray, fine crystalline, sl foss, chalky + SH; Black (4300)
 LS: Cream/lt gray, fine crystalline, ool, trace moldic por, black + SH; Red/gray, silty-sandy (10-20)
 SH: Red/gray, silty, sandy (20)
 SH: Gray, silty + SS; Red, fine grained, silty (30)
 LS: Cream, fine crystalline, ool, sl chalky (40)
 SH: Black/gray (50)
 LS: Cream, fine crystalline, ool, chalky, sl dolo (50)
 LS: Tan, dense, foss (60)
 SH: Gray, sandy + SS; Gray, silty, friable + SH; Red, silty-sandy (60-70)
 LS: Cream, dense, sl foss (70)
 LS: Gray, fine crystalline to dense, chalky, arg + SH; Gray, silty-sandy (80)
 SH: Black (90)
 LS: Cream/gray, fine crystalline to dense, dolo, clay (90)
 LS: Cream, fine crystalline to dense, chalky + SH; Gray + SS; Gray, very fine grained, well-cem (4400)
 SH: Black (10)
 SH: Gray, silty + SS; Gray, very fine grained + LS; Cream, dense, cherty (10)
 LS: Gray, dense, sandy + LS; Cream, fine crystalline chalky + SH; Gray (20)
 SH: Black, carb (30)
 LS: Dark gray, dense, arg, blocky + SH; Gray/gren (30)
 LS: White/lt gray, fine crystalline to dense, ool, cherty (40)
 LS: White/tan, fine crystalline to dense-mostly dense, partially foss-gran, with white chert inclusions, trace stain, poor frac por, scall, weak fl, nsfo, no odor (45)
 LS: Cream/tan/lt gray, fine crystalline, ool, chalky, cherty/angular-fossso (50)
 SH: Black (60)
 LS: Cream/gray, fine crystalline, chalky, foss, cherty(gray blocky foss), mealy in part w/trace dead oil flakes (60)
 LS: Cream/gray/tan, fine crystalline to dense, foss, chalky + SH; Dark gray (70)
 LS: Lt gray, dense, foss, chalky (80)
 SH: Black (80-90)
 LS: Cream/lt gray, dense, foss/pelletal-fragment, cherty (90)
 SH: Gray (00)
 LS: Tan/lt gray, dense, foss, ool/pell., subgran to gran, cherty (4500)
 LS: Tan, fine crystalline to dense, dolo, foss, cherty, chalky (10)
 SH: Black (20)
 LS: Cream/gray, fine crystalline to dense, ool/pell, sl chalky (20)
 SH: Gray, silty (30)
 LS: Cream/lt gray, dense, sl ool, trace edge stain, no vis por (30)
 LS: Cream/gray, dense, foss, cherty + SS; Gray (40)
 SH: Black (40)
 LS: Gray, dense, foss, cherty + SH; Black + SH; Red, blocky (50-60)
 SH: Gray (60)
 LS: Lt brown, dense, foss, cherty w/por ppt por, sfo, odor, full sat on dry (60)
 LS: Cream/lt gray, mottled, fine crystalline to dense, mostly dense, chalky, cherty/lt brown/translucent/foss) w/por ppt por, sfo, odor, med. To dark brown sat on dry (64-64/20')
 LS: Tan/cream, fine crystalline, foss, cherty w/fair to good vug por, sfo, odor, dark sat on dry (64/40-20')
 SH: Black/green (64/60')
 LS: Cream/white, fine crystalline, sl foss, chalky (75)
 LS: Cream /tan, fine crystalline to dense, chalky + SH; Maroon/gray (80/40') + SS; White, fine grained, angular (80/20')
 LS: Gray, dense, foss, granular in part + SH; Dark gray/black, blocky (80/40')
 SH: Black/gray + SS; White, very fine grained, well-cem+ LS; Lt gray, dense (90)
 SS: White/pale green, fine grained, angular, well-cem + SH; Black/mustard yellow/red + LS; Tan, dense, foss (4600-4610)
 LS: Cream/lt gray, fine crystalline, ool, sl chalky (10)
 LS: Cream, fine to med crystalline, foss, sl chalky (20)
 LS: Cream/gray, fine crystalline to dense, c halty (30)
 Dolo: Tan, dense + Chalk; White, soft (40-50)
 LS: Tan/gray, fine crystalline to dense, sl foss (50)
 LS: Cream, fine crystalline, sandy, chalky + SH; Black (60)
 LS: Cream/lt gray, fine crystalline, chalky, sandy + LS; Tan, dense (70)
 LS: Cream/tan, fine crystalline, ool, chalky, cherty, sl sandy + trace SH; Gray (70/30-60')

SHORT TRIP 4532'
10 Stands