



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1090297
OIL & GAS CONSERVATION DIVISION

Form ACO-1
August 2013

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

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

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

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

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

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

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

Spot Description: _____

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

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE NW SE SW

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

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite:

Operator Name: _____

Lease Name: _____ License #: _____

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

County: _____ Permit #: _____

AFFIDAVIT

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

Submitted Electronically

KCC Office Use ONLY

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

1090297

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

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

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

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

Drill Stem Tests Taken <i>(Attach Additional Sheets)</i>	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top	Datum
Cores Taken	<input type="checkbox"/> Yes <input type="checkbox"/> No			
Electric Log Run	<input type="checkbox"/> Yes <input type="checkbox"/> No			
List All E. Logs Run:				

CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

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

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

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

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

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

TUBING RECORD: Size: _____ Set At: _____ Packer At: _____ Liner Run: 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> <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Grand Mesa Operating Company
Well Name	PHILLIP 1-26
Doc ID	1090297

All Electric Logs Run

CPDCN Micro Log
AI Shallow Focused Elect Log
Comp. Sonic w/Integrated Transit Time
Micro Log
Dual Receiver Cmt Bond Log

Form	ACO1 - Well Completion
Operator	Grand Mesa Operating Company
Well Name	PHILLIP 1-26
Doc ID	1090297

Tops

Name	Top	Datum
Stone Corral	2332	+524
Bs/ Stone Corral	2357	+499
Heebner	3876	-1020
Lansing	3918	-1062
Muncie Creek	4073	-1217
Stark	4159	-1303
Marmaton	4263	-1407
Excello	4411	-1555
Mississippian	4532	-1676
LTD	4638	

ALLIED OIL & GAS SERVICES, LLC 056265

Federal Tax I.D.# 20-5975804

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

SERVICE POINT:

Oakley

DATE <u>5-23-12</u>	SEC <u>26</u>	TWP. <u>13</u>	RANGE <u>31</u>	CALLED OUT	ON LOCATION	JOB START <u>8:00 AM</u>	JOB FINISH <u>8:30 PM</u>
LEASE <u>Phillip</u>	WELL # <u>1-26</u>	LOCATION <u>Oakley 11s 5E 3S</u>		COUNTY <u>Gove</u>	STATE <u>Ks</u>		
OLD OR NEW (Circle one) <u>NEW</u>		IE 1/2s E into					

CONTRACTOR Murphy 24
 TYPE OF JOB Surface
 HOLE SIZE 12 1/4 T.D. 210'
 CASING SIZE 8 5/8 DEPTH 210'
 TUBING SIZE DEPTH
 DRILL PIPE DEPTH
 TOOL DEPTH
 PRES. MAX MINIMUM
 MEAS. LINE SHOE JOINT
 CEMENT LEFT IN CSG. 15'
 PERFS.
 DISPLACEMENT 12,42 BBL

OWNER Same

CEMENT
 AMOUNT ORDERED 165 sks com 32600
296.96L

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 178.255 cu/ft @ 2.10 374.33
 MILEAGE 2.35 ton/mile 8.14 420.83
 TOTAL 3888.83

EQUIPMENT

PUMP TRUCK CEMENTER Andrew
 # 423-281 HELPER Jerry
 BULK TRUCK
 # 347 DRIVER Ferry
 BULK TRUCK
 # DRIVER

REMARKS:

Cement Old circulate

thank you

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

SERVICE

DEPTH OF JOB	<u>210'</u>		
PUMP TRUCK CHARGE			<u>1125.00</u>
EXTRA FOOTAGE		@	
MILEAGE	<u>22 miles</u>	@	<u>7.00</u> <u>154.00</u>
MANIFOLD	<u>head</u>	@	<u>200.00</u>
<u>Light vehicle</u>		@	<u>4.00</u> <u>88.00</u>
		@	
			TOTAL <u>1562.00</u>

PLUG & FLOAT EQUIPMENT

	@	
	@	
	@	
	@	
	@	
TOTAL _____		

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

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

PRINTED NAME Anthony Martin
 SIGNATURE Anthony Martin

JOB LOG

SWIFT Services, Inc.

DATE Jun 12 PAGE NO. 1

CUSTOMER		WELL NO.		LEASE		JOB TYPE		TICKET NO.	
Grand Mesa		1-26		Phillip		2 stage cement log string		23110	
CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS	
				T	C	TUBING	CASING		
									175 sks EA-2 w/ 1/4" floccle 300 sk SMD w/ 1/4" floccle
									5 1/2 15.5" casing 111 jts RTD 4631'
									pipe = 4635' shoejt 26' plug back 4609'
									DV #54 2358' basket 2.54 100ft sandbars
									Cont. 2,4,6,8,10,12,14,16,53
	1000								on loc TRK 114
	1030								start 5 1/2 15.5" casing in well
	1235								Drop ball - circulate - ROTATE
	1300	4 3/4	12				200		Pump 500 gal mud flush
		4 3/4	26				200		Pump 20 bbl KCL flush
	1308	9 3/4	43				250		Mix EA-2 cement 175 sks @ 15.3 ppg
									Drop latch down plug (1st stage plug)
									wash out pump & line
	1315	6 3/4	54				250		Displace plug w/ H2O
			56						Displace w/ mud
	1330	6 3/4	110				1500		Land plug
									Release pressure to truck - dried up
	1335								Drop bomb
									wash truck
	1350						1000		Open DV tool
	1355								Circulate well
	1515 1527	4 3/4	20				250		Pump 20 bbl KCL flush
			7						Plug RH - MH 30 sks - 20 sks
	1550	4 3/4	160				250		MIX SMD cement 280 sks @ 11.2 ppg
									Drop 2nd stage plug
									Cement to
	1615	6 3/4					300		Displace plug
		6 3/4	40				450		- cement to surface - 30 sk to pit
	1630	6 3/4	56				1500		Land plug - close DV tool
									Release pressure to truck - dried up
	1635								wash truck
									Back up
	1700								job complete
									thanks
									Bob Doug Dave & Blaine

(2nd stage)
250 sk mixed
30 to pit

Pro-Stim Chemicals, LLC

P.O. Box 25
 Cheyenne Wells, CO 80810

JUL - 5 2012

Invoice

Date	Invoice #
6/28/2012	66595

Bill To
Grand Mesa Operating Co. 1700 N. Waterfront Pkwy - Bldg 600 Wichita, KS 67206-6614

Ship To

Requested By	Terms	Ship	Lease
	Net 30	6/20/2012	PHILLIPS #1-26

Quantity	Item Code	Description	Price Each	Amount
250	RWR-1 15%	GALLONS	2.82	705.00
30	KCL BIOCIDES - 2%	BRLS	3.16	94.80
1	DUMP JOB		158.00	158.00T
3.5	TRUCK TIME	HOURS	95.00	332.50T
		Sales Tax - GOVE CO.	8.05%	39.49

Total			\$1,329.79
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Phone #	Fax #	E-mail
719-767-8071	719-767-5925	prostim@hotmail.com

Pro-Stim Chemicals LLC

66608

Date 6/21/12

Acidizing Report

Customer Grand Mesa	Pro-Stim Chemical Yard Oighton	Pro-Stim Number
Well Name & Number Phillip	Field	Formation FT SCOTT
County Gove State KS	BHT	YD
		Interval 4398-08

Well Type: Completion Recompletion Workover Oil Gas Water Disposal Perf OH

Job Pumped Via: Tubing Casing Annulus CTU Combination Plug Depth

Casing Size: **5 1/2** GRD WT Depth Tubing Size: **2 7/8** GRD WT Spot **1 BBL 439**

Casing Vol. Tbg Vol Ann Vol OH Vol Total Displacement

Maximum Pressure Tubing Casing Proposed Pump Time AOL Leave Loc

Special Instructions:
 1250 Gals 15% with 25 S-3000 5-S-262
 30 BBLs 2% KCL 19 Re-Nob 3-API 150
 20 Bro Balls 5 Ac-307

Treatment Record

Time	Type Fluid	Rate BMP	Increment Vol Bbls	Cum Vol Bbls	Pressure		Observations
					Tubing	Casing	
							Safety Meeting
1	Acid	SPOTED		1			Prs Test to _____ psi
11	Acid	3.4		6	0	0	
15	Acid	3.5		19	0	0	
18	Acid	3.5		24	0	0	
19	Acid	0		24.1	300	0	Loaded
20	Acid	0		24.2	350	0	
25	Acid	0		24.5	450	0	
30	Acid	.25		24.7	600	0	
31	Acid	1		25.5	500	0	
32	Acid	1		28	250	0	
34	Acid	2		30	500	0	
38	Flush	3.4		35	230	0	
41	Flush	3.4		40	180	0	
45	Flush	3.4		45	160	0	
47	Flush	3.4		48	180	0	
52	Flush	3.4		52	200	0	
55	Flush	3.4		57	210	0	
57	Flush	3.4		60	210	0	

Ball Action

Treatment Synopsis

Avg Inj Rate	Fluid BPM 3.4	Total Injected	H2O 30	Acid 30	Oil
Treating Prs	Max 600	Final 210	Avg. 200	ISIP vac	5'SI 10'SI 15'SI

Customer Representative *Tale Anderson* Pro-Stim Supervisor *[Signature]*

Pro-Stim Chemicals, LLC

P.O. Box 25
Cheyenne Wells, CO 80810

Invoice

Date	Invoice #
6/28/2012	66608

Bill To
Grand Mesa Operating Co. 1700 N. Waterfront Pkwy - Bldg 600 Wichita, KS 67206-6614

Ship To

Requested By	Terms	Ship	Lease
	Net 30	6/21/2012	PHILLIPS #1-26

Quantity	Item Code	Description	Price Each	Amount
1,250	15% HCl ACID	GALLONS	1.78	2,225.00
25	S-3000	GALLONS	23.56	589.00
19	RENAB	GALLONS	17.89	339.91
5	AC-307	GALLONS	18.61	93.05
5	S-262	GALLONS	14.36	71.80
3	AI-150	GALLONS	20.15	60.45
20	BALLS - BIO-DEGRADEA...	EACH	7.00	140.00
1	BALL LAUNCHER		80.00	80.00
30	KCL BIOCIDE - 2%	BRLS	3.16	94.80
1	DUMP JOB		158.00	158.00T
3.5	TRUCK TIME	HOURS	95.00	332.50T
		Sales Tax - GOVE CO.	8.05%	39.49

			Total	\$4,224.00
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Phone #	Fax #	E-mail
719-767-8071	719-767-5925	prostim@hotmail.com



DRILL STEM TEST REPORT

Prepared For: **Grand Mesa Operating Co.**

1700 N. Waterfront Pkwy
Bldg #600
Wichita, KS 67206

ATTN: Bob Schreiber

Phillip #1-26

26-13s-31w Gove,KS

Start Date: 2012.05.27 @ 13:42:00

End Date: 2012.05.27 @ 20:30:45

Job Ticket #: 46611 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Printed: 2012.06.13 @ 13:10:14



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Grand Mesa Operating Co.

26-13s-31w Gove, KS

1700 N. Waterfront Pkwy
Bldg #600
Wichita, KS 67206
ATTN: Bob Schreiber

Phillip #1-26

Job Ticket: 46611

DST#: 1

Test Start: 2012.05.27 @ 13:42:00

GENERAL INFORMATION:

Formation: **LKC "C-D"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 15:42:30

Time Test Ended: 20:30:45

Test Type: Conventional Bottom Hole (Initial)

Tester: Bradley Walter

Unit No: 53

Interval: 3941.00 ft (KB) To 3973.00 ft (KB) (TVD)

Reference Elevations: 2869.00 ft (KB)

Total Depth: 3973.00 ft (KB) (TVD)

2864.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8677 Outside

Press @ Run Depth: 111.28 psig @ 3942.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.05.27

End Date: 2012.05.27

Last Calib.: 2012.05.27

Start Time: 13:42:05

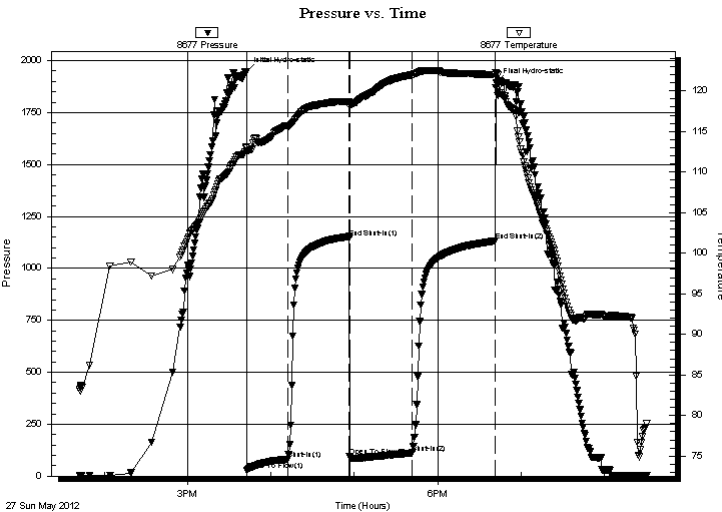
End Time: 20:30:44

Time On Btm: 2012.05.27 @ 15:42:15

Time Off Btm: 2012.05.27 @ 18:42:00

TEST COMMENT: IF: 6" blow
IS: No return
FF: 9" blow
FS: No return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1949.00	113.15	Initial Hydro-static
1	28.46	112.47	Open To Flow (1)
30	79.72	115.65	Shut-In(1)
74	1147.50	118.72	End Shut-In(1)
75	93.50	118.10	Open To Flow (2)
120	111.28	121.98	Shut-In(2)
180	1132.34	121.99	End Shut-In(2)
180	1893.25	122.19	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	omcw 10o 20m 70w	0.30
60.00	ow cm 10o 30w 60m	0.30
50.00	ocm 30o 70m	0.49
30.00	go 15g 85o	0.30
0.00	40' Gassy odor	0.00

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Grand Mesa Operating Co.
 1700 N. Waterfront Pkw y
 Bldg #600
 Wichita, KS 67206
 ATTN: Bob Schreiber

26-13s-31w Gove,KS

Phillip #1-26

Job Ticket: 46611

DST#: 1

Test Start: 2012.05.27 @ 13:42:00

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Total Depth: 3973.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Test Type: Conventional Bottom Hole (Initial)

Tester: Bradley Walter

Unit No: 53

Reference Elevations: 2869.00 ft (KB)

2864.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8522

Inside

Press @RunDepth: psig @ 3942.00 ft (KB)

Start Date: 2012.05.27

End Date: 2012.05.27

Start Time: 13:41:50

End Time: 20:31:44

Capacity: 8000.00 psig

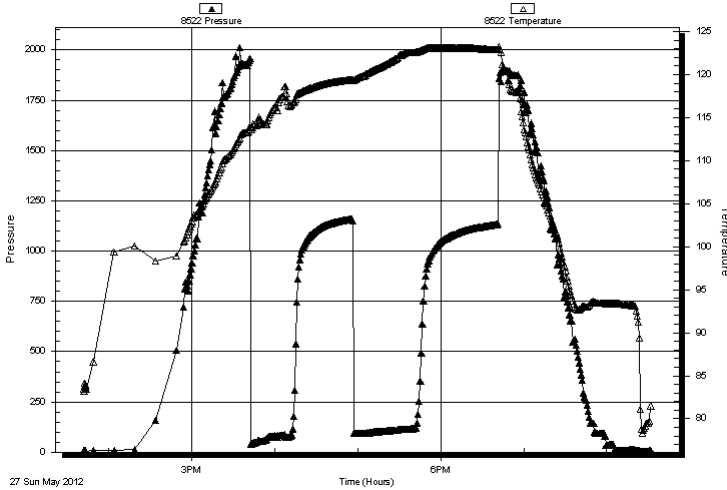
Last Calib.: 2012.05.27

Time On Btm:

Time Off Btm:

TEST COMMENT: IF: 6" blow
 IS: No return
 FF: 9" blow
 FS: No return

Pressure vs. Time



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
60.00	omcw 10o 20m 70w	0.30
60.00	ow cm 10o 30w 60m	0.30
50.00	ocm 30o 70m	0.49
30.00	go 15g 85o	0.30
0.00	40' Gassy odor	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Grand Mesa Operating Co.

26-13s-31w Gove,KS

1700 N. Waterfront Pkwy
Bldg #600
Wichita, KS 67206
ATTN: Bob Schreiber

Phillip #1-26

Job Ticket: 46611

DST#: 1

Test Start: 2012.05.27 @ 13:42:00

Tool Information

Drill Pipe:	Length: 3912.00 ft	Diameter: 3.20 inches	Volume: 38.91 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 121.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose: 75000.00 lb
			<u>Total Volume: 39.51 bbl</u>	Tool Chased 3.00 ft
Drill Pipe Above KB:	119.00 ft			String Weight: Initial 58000.00 lb
Depth to Top Packer:	3941.00 ft			Final 59000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	32.00 ft			
Tool Length:	59.00 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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Change Over Sub	1.00			3915.00	
Shut In Tool	5.00			3920.00	
Hydraulic tool	5.00			3925.00	
Jars	5.00			3930.00	
Safety Joint	2.00			3932.00	
Packer	5.00			3937.00	27.00 Bottom Of Top Packer
Packer	4.00			3941.00	
Stubb	1.00			3942.00	
Recorder	0.00	8677	Outside	3942.00	
Recorder	0.00	8522	Inside	3942.00	
Perforations	28.00			3970.00	
Bullnose	3.00			3973.00	32.00 Bottom Packers & Anchor

Total Tool Length: 59.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Grand Mesa Operating Co.
1700 N. Waterfront Pkwy
Bldg #600
Wichita, KS 67206
ATTN: Bob Schreiber

26-13s-31w Gove,KS

Phillip #1-26

Job Ticket: 46611

DST#: 1

Test Start: 2012.05.27 @ 13:42:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 51.00 sec/qt
Water Loss: 7.17 in³
Resistivity: ohm.m
Salinity: 2500.00 ppm
Filter Cake: 1.00 inches

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

Oil API: 32 deg API
Water Salinity: 52000 ppm

Recovery Information

Recovery Table

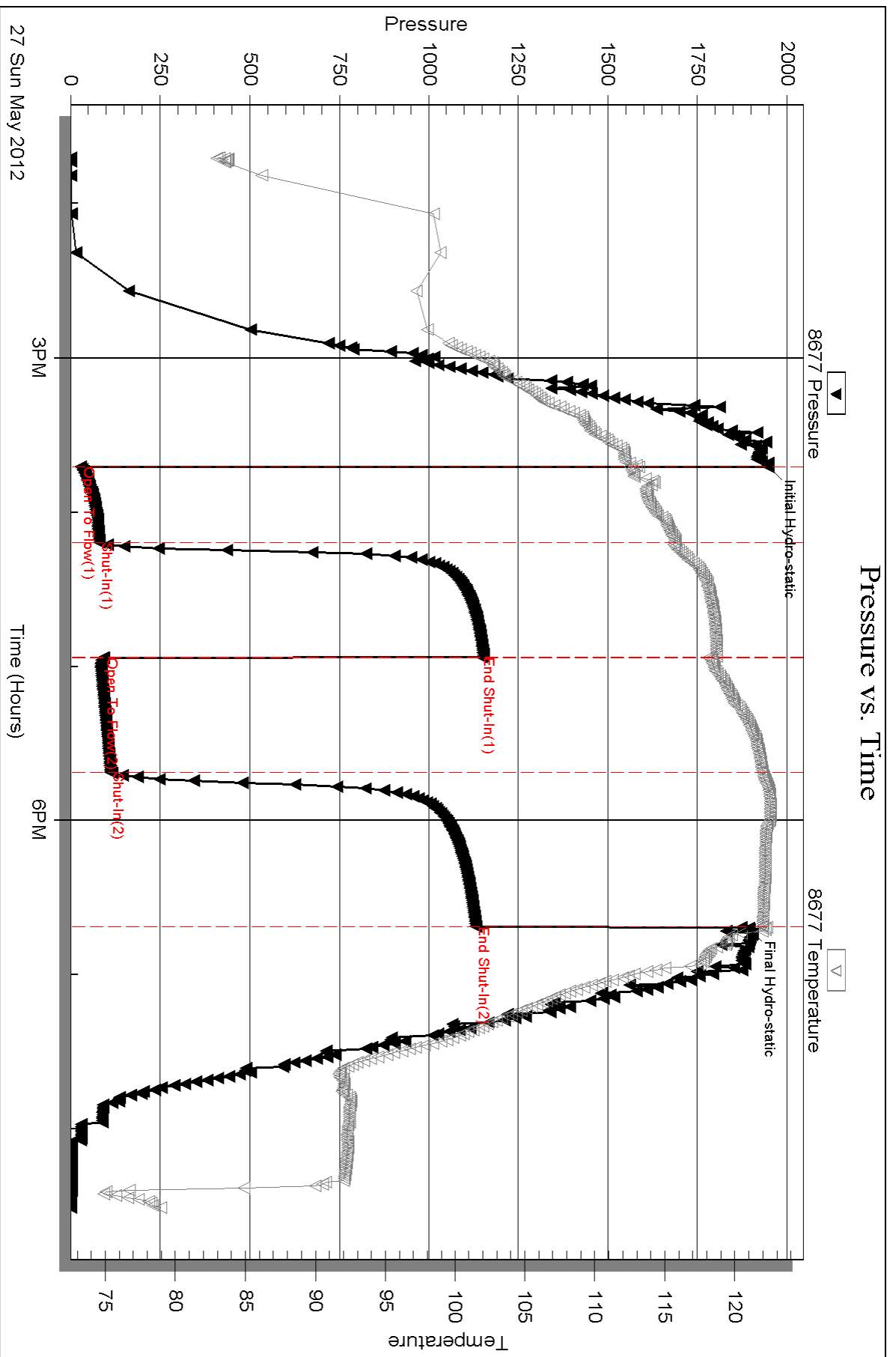
Length ft	Description	Volume bbl
60.00	omcw 10o 20m 70w	0.295
60.00	ow cm 10o 30w 60m	0.295
50.00	ocm 30o 70m	0.492
30.00	go 15g 85o	0.298
0.00	40' Gassy odor	0.000

Total Length: 200.00 ft Total Volume: 1.380 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments: rw is .130 @ 80 = 52000ppm



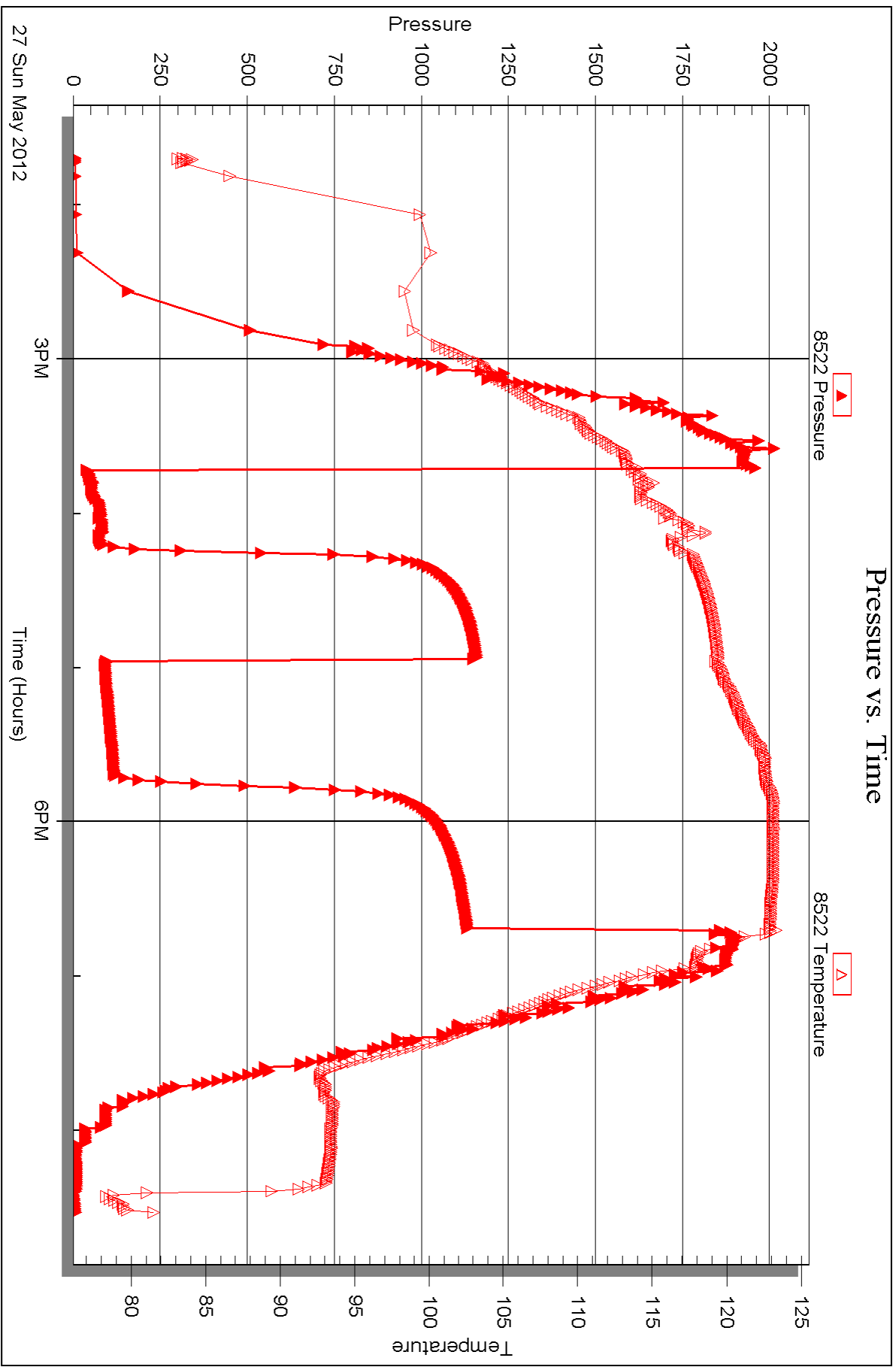
Serial #: 8522

Inside

Grand Mesa Operating Co.

Phillip #1-26

DST Test Number: 1





DRILL STEM TEST REPORT

Prepared For: **Grand Mesa Operating Co.**

1700 N. Waterfront Pkwy
Bldg #600
Wichita, KS 67206

ATTN: Bob Schreiber

Phillip #1-26

26-13s-31w Gove,KS

Start Date: 2012.05.28 @ 07:47:00

End Date: 2012.05.28 @ 17:25:45

Job Ticket #: 46613 DST #: 2

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2012.06.13 @ 13:09:32



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Grand Mesa Operating Co.

26-13s-31w Gove, KS

1700 N. Waterfront Pkwy
Bldg #600
Wichita, KS 67206
ATTN: Bob Schreiber

Phillip #1-26

Job Ticket: 46613

DST#: 2

Test Start: 2012.05.28 @ 07:47:00

GENERAL INFORMATION:

Formation: **LKC "E-F"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 09:46:15
 Time Test Ended: 17:25:45
 Interval: **3974.00 ft (KB) To 4008.00 ft (KB) (TVD)**
 Total Depth: 4008.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Bradley Walter
 Unit No: 53
 Reference Elevations: 2869.00 ft (KB)
 2864.00 ft (CF)
 KB to GR/CF: 5.00 ft

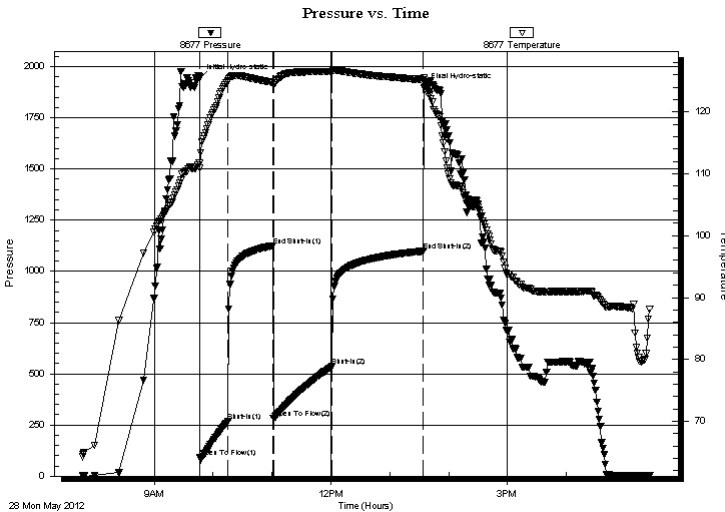
Serial #: 8677

Outside

Press @ Run Depth: 535.31 psig @ 3975.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2012.05.28 End Date: 2012.05.28 Last Calib.: 2012.05.28
 Start Time: 07:47:05 End Time: 17:25:45 Time On Btm: 2012.05.28 @ 09:45:45
 Time Off Btm: 2012.05.28 @ 13:34:45

TEST COMMENT: IF: BOB @ 2 1/2 Min.
 IS: BOB @ 28 min.
 FF: BOB @ 5 min.
 FS: 3" return.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1940.12	111.70	Initial Hydro-static
1	92.60	110.92	Open To Flow (1)
30	268.59	124.99	Shut-In(1)
76	1125.17	124.78	End Shut-In(1)
76	283.94	124.44	Open To Flow (2)
136	535.31	126.57	Shut-In(2)
229	1098.46	125.24	End Shut-In(2)
229	1895.95	125.46	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
160.00	mcw 40m 60w (oil spots)	0.98
1230.00	go 30g 70o	12.24
0.00	900' GIP	0.00

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Grand Mesa Operating Co.

26-13s-31w Gove,KS

1700 N. Waterfront Pkw y
Bldg #600
Wichita, KS 67206
ATTN: Bob Schreiber

Phillip #1-26

Job Ticket: 46613

DST#: 2

Test Start: 2012.05.28 @ 07:47:00

GENERAL INFORMATION:

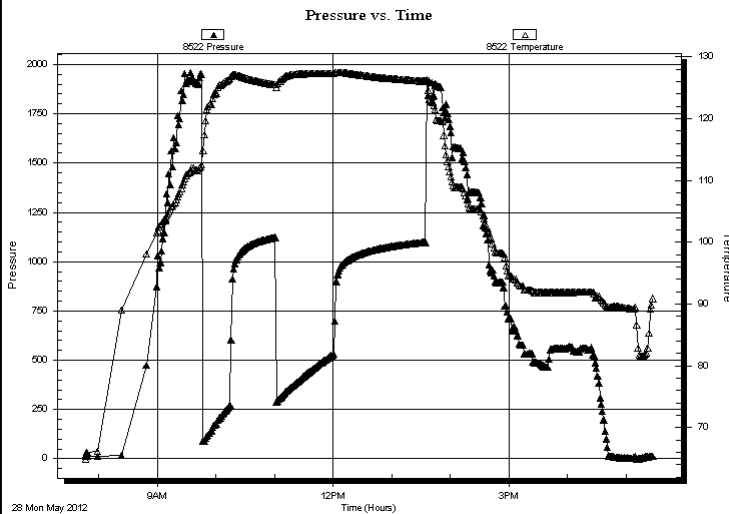
Formation:	LKC "E-F"			Test Type:	Conventional Bottom Hole (Reset)
Deviated:	No Whipstock:	ft (KB)		Tester:	Bradley Walter
Time Tool Opened:	09:46:15			Unit No:	53
Time Test Ended:	17:25:45			Reference Elevations:	2869.00 ft (KB) 2864.00 ft (CF)
Interval:	3974.00 ft (KB) To 4008.00 ft (KB) (TVD)			KB to GR/CF:	5.00 ft
Total Depth:	4008.00 ft (KB) (TVD)				
Hole Diameter:	7.88 inches	Hole Condition:	Good		

Serial #: 8522

Inside

Press @ Run Depth:	psig @	3975.00 ft (KB)	Capacity:	8000.00 psig	
Start Date:	2012.05.28	End Date:	2012.05.28	Last Calib.:	2012.05.28
Start Time:	07:46:50	End Time:	17:27:00	Time On Btm:	
				Time Off Btm:	

TEST COMMENT: IF: BOB @ 2 1/2 Min.
IS: BOB @ 28 min.
FF: BOB @ 5 min.
FS: 3" return.



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
160.00	mcw 40m 60w (oil spots)	0.98
1230.00	go 30g 70o	12.24
0.00	900' GIP	0.00

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Grand Mesa Operating Co.

26-13s-31w Gove, KS

1700 N. Waterfront Pkwy
Bldg #600
Wichita, KS 67206
ATTN: Bob Schreiber

Phillip #1-26

Job Ticket: 46613

DST#: 2

Test Start: 2012.05.28 @ 07:47:00

Tool Information

Drill Pipe:	Length: 3842.00 ft	Diameter: 3.20 inches	Volume: 38.22 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 121.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose: 73000.00 lb
			<u>Total Volume: 38.82 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	16.00 ft			String Weight: Initial 58000.00 lb
Depth to Top Packer:	3974.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	34.00 ft			
Tool Length:	61.00 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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Change Over Sub	1.00			3948.00	
Shut In Tool	5.00			3953.00	
Hydraulic tool	5.00			3958.00	
Jars	5.00			3963.00	
Safety Joint	2.00			3965.00	
Packer	5.00			3970.00	27.00 Bottom Of Top Packer
Packer	4.00			3974.00	
Stubb	1.00			3975.00	
Recorder	0.00	8677	Outside	3975.00	
Recorder	0.00	8522	Inside	3975.00	
Perforations	30.00			4005.00	
Bullnose	3.00			4008.00	34.00 Bottom Packers & Anchor

Total Tool Length: 61.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Grand Mesa Operating Co.

26-13s-31w Gove,KS

1700 N. Waterfront Pkw y
Bldg #600
Wichita, KS 67206
ATTN: Bob Schreiber

Phillip #1-26

Job Ticket: 46613

DST#: 2

Test Start: 2012.05.28 @ 07:47:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 58.00 sec/qt
Water Loss: 6.37 in³
Resistivity: ohm.m
Salinity: 3000.00 ppm
Filter Cake: 1.00 inches

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

Oil API: 36 deg API
Water Salinity: 60000 ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
160.00	mcw 40m 60w (oil spots)	0.983
1230.00	go 30g 70o	12.235
0.00	900' GIP	0.000

Total Length: 1390.00 ft Total Volume: 13.218 bbl

Num Fluid Samples: 0

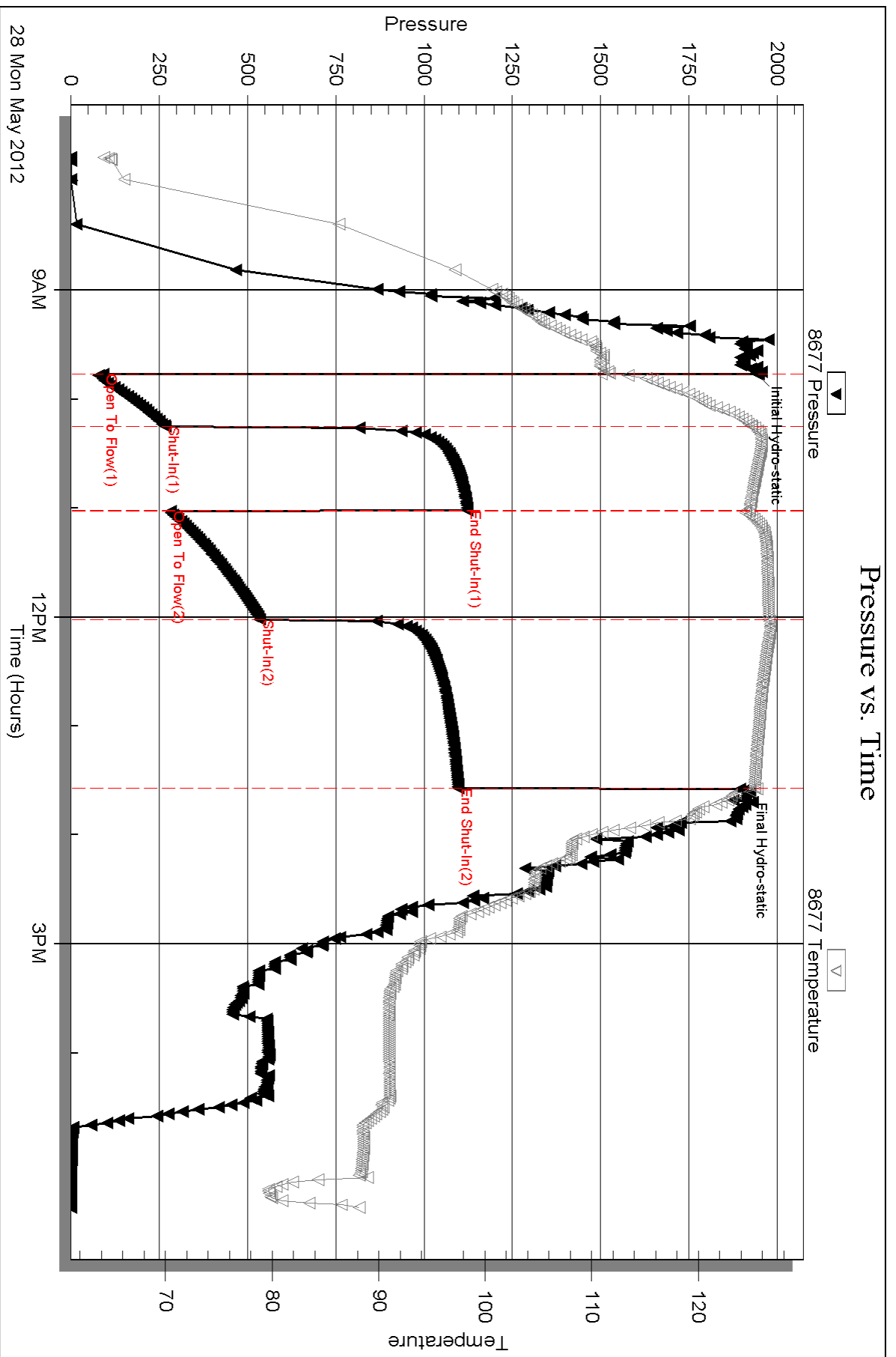
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: rw is .110 @ 78F = 60,000ppm



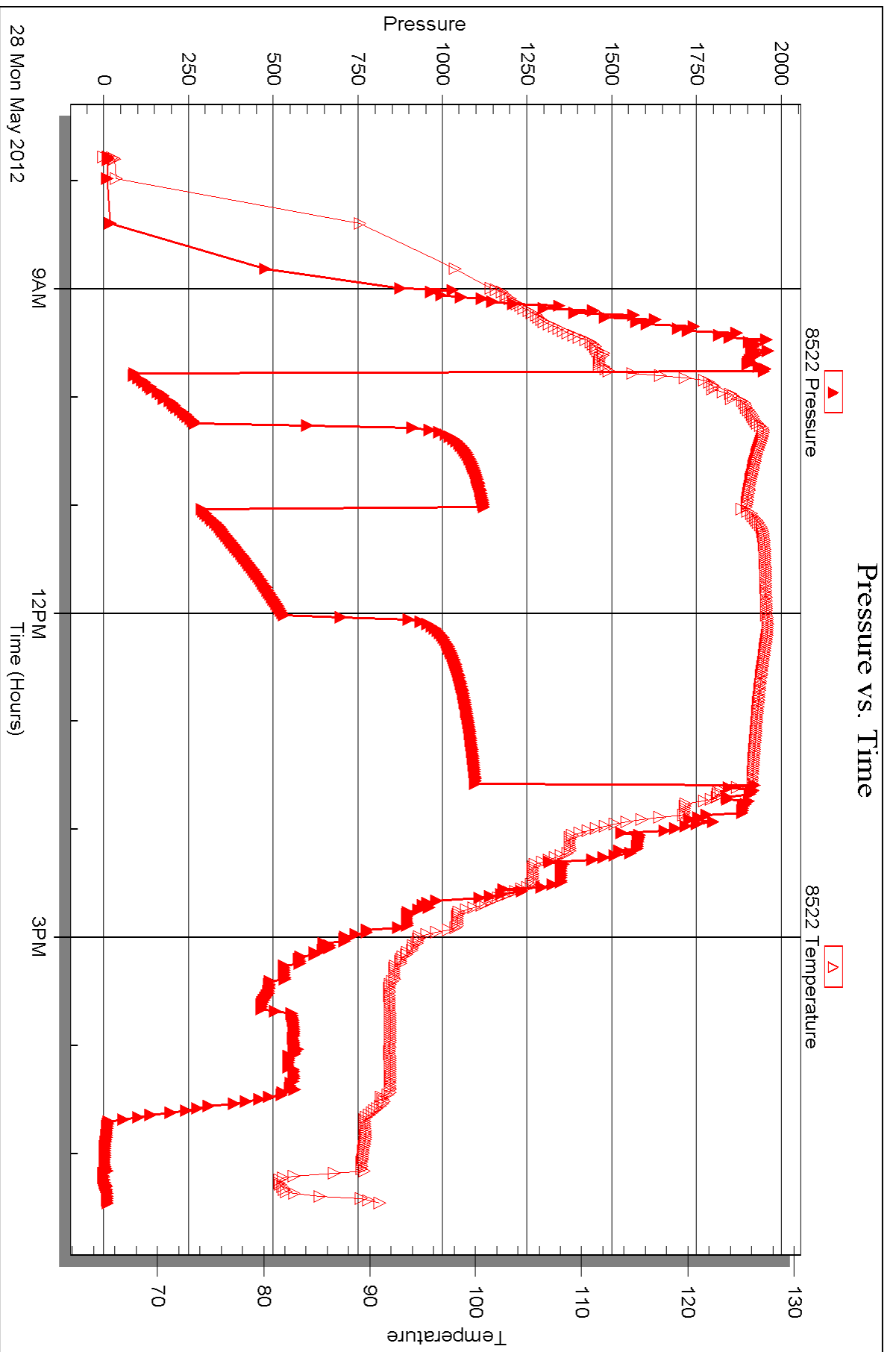
Serial #: 8522

Inside

Grand Mesa Operating Co.

Phillip #1-26

DST Test Number: 2





DRILL STEM TEST REPORT

Prepared For: **Grand Mesa Operating Co.**

1700 N. Waterfront Pkwy
Bldg #600
Wichita, KS 67206

ATTN: Bob Schreiber

Phillip #1-26

26-13s-31w Gove,KS

Start Date: 2012.05.29 @ 12:34:00

End Date: 2012.05.29 @ 20:14:00

Job Ticket #: 46614 DST #: 3

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2012.06.13 @ 13:08:54

Grand Mesa Operating Co. 26-13s-31w Gove,KS Phillip #1-26 DST # 3 LKC "H-I" 2012.05.29



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Grand Mesa Operating Co.
 1700 N. Waterfront Pkw y
 Bldg #600
 Wichita, KS 67206
 ATTN: Bob Schreiber

26-13s-31w Gove, KS

Phillip #1-26

Job Ticket: 46614

DST#: 3

Test Start: 2012.05.29 @ 12:34:00

GENERAL INFORMATION:

Formation: **LKC "H-I"**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Reset)
 Time Tool Opened: 14:29:15
 Tester: Bradley Walter
 Time Test Ended: 20:14:00
 Unit No: 53
 Interval: **4065.00 ft (KB) To 4126.00 ft (KB) (TVD)**
 Reference Elevations: 2869.00 ft (KB)
 Total Depth: 4126.00 ft (KB) (TVD)
 2864.00 ft (CF)
 Hole Diameter: 7.88 inches
 Hole Condition: Good
 KB to GR/CF: 5.00 ft

Serial #: 8677

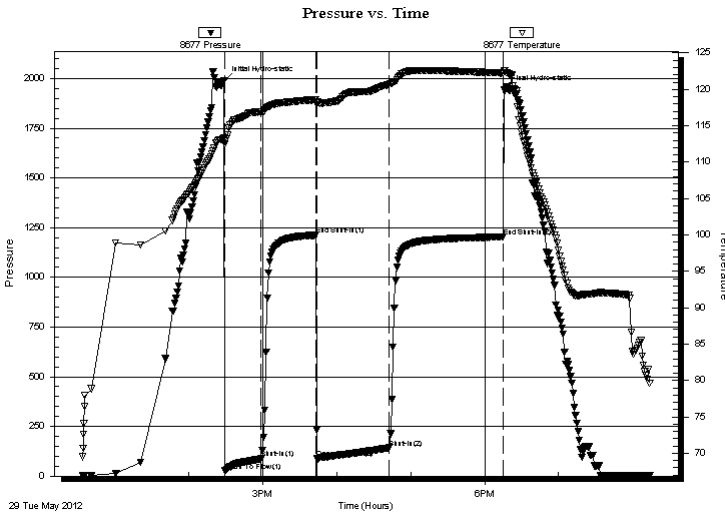
Outside

Press @ Run Depth: 141.94 psig @ 4066.00 ft (KB)
 Start Date: 2012.05.29 End Date: 2012.05.29
 Start Time: 12:34:05 End Time: 20:13:59

Capacity: 8000.00 psig
 Last Calib.: 2012.05.29
 Time On Btm: 2012.05.29 @ 14:29:00
 Time Off Btm: 2012.05.29 @ 18:15:45

TEST COMMENT: IF: BOB @ 17 min.
 IS: Surface blow, died @ 20 min.
 FF: BOB @ 10 min.
 FS: 1" return.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1988.36	113.39	Initial Hydro-static
1	26.02	112.46	Open To Flow (1)
30	89.10	116.92	Shut-In(1)
75	1212.36	118.58	End Shut-In(1)
76	89.04	118.25	Open To Flow (2)
134	141.94	120.67	Shut-In(2)
226	1203.30	122.25	End Shut-In(2)
227	1942.68	122.54	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
180.00	gmco 50g 20m 30o	1.18
145.00	gmco 20g 20m 60o	1.44
0.00	790 GIP	0.00

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Grand Mesa Operating Co.

26-13s-31w Gove, KS

1700 N. Waterfront Pkw y
Bldg #600
Wichita, KS 67206
ATTN: Bob Schreiber

Phillip #1-26

Job Ticket: 46614

DST#: 3

Test Start: 2012.05.29 @ 12:34:00

GENERAL INFORMATION:

Formation: **LKC "H-I"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:29:15

Time Test Ended: 20:14:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Bradley Walter

Unit No: 53

Interval: 4065.00 ft (KB) To 4126.00 ft (KB) (TVD)

Reference Elevations: 2869.00 ft (KB)

Total Depth: 4126.00 ft (KB) (TVD)

2864.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8522 Inside

Press @ Run Depth: psig @ 4066.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.05.29

End Date: 2012.05.29

Last Calib.: 2012.05.29

Start Time: 12:34:05

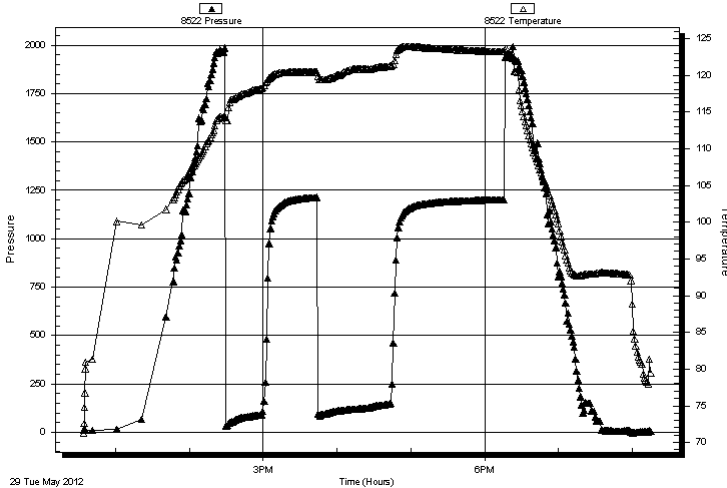
End Time: 20:15:14

Time On Btm:

Time Off Btm:

TEST COMMENT: IF: BOB @ 17 min.
IS: Surface blow, died @ 20 min.
FF: BOB @ 10 min.
FS: 1" return.

Pressure vs. Time



PRESSURE SUMMARY

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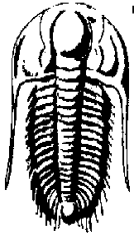
Recovery

Length (ft)	Description	Volume (bbl)
180.00	gmco 50g 20m 30o	1.18
145.00	gmco 20g 20m 60o	1.44
0.00	790 GIP	0.00

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Grand Mesa Operating Co.

26-13s-31w Gove,KS

1700 N. Waterfront Pkwy
Bldg #600
Wichita, KS 67206
ATTN: Bob Schreiber

Phillip #1-26

Job Ticket: 46614

DST#: 3

Test Start: 2012.05.29 @ 12:34:00

Tool Information

Drill Pipe:	Length: 3937.00 ft	Diameter: 3.20 inches	Volume: 39.16 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 121.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose: 72000.00 lb
			<u>Total Volume: 39.76 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	4065.00 ft			Final 61000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	61.00 ft			
Tool Length:	88.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4039.00	
Shut In Tool	5.00			4044.00	
Hydraulic tool	5.00			4049.00	
Jars	5.00			4054.00	
Safety Joint	2.00			4056.00	
Packer	5.00			4061.00	27.00 Bottom Of Top Packer
Packer	4.00			4065.00	
Stubb	1.00			4066.00	
Recorder	0.00	8677	Outside	4066.00	
Recorder	0.00	8522	Inside	4066.00	
Perforations	25.00			4091.00	
Change Over Sub	0.50			4091.50	
Drill Pipe	31.00			4122.50	
Change Over Sub	0.50			4123.00	
Bullnose	3.00			4126.00	61.00 Bottom Packers & Anchor

Total Tool Length: 88.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Grand Mesa Operating Co.

26-13s-31w Gove,KS

1700 N. Waterfront Pkw y
Bldg #600
Wichita, KS 67206
ATTN: Bob Schreiber

Phillip #1-26

Job Ticket: 46614

DST#: 3

Test Start: 2012.05.29 @ 12:34:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 53.00 sec/qt
Water Loss: 7.28 in³
Resistivity: ohm.m
Salinity: 3500.00 ppm
Filter Cake: 1.00 inches

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

Oil API: 0 deg API
Water Salinity: 0 ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
180.00	gmco 50g 20m 30o	1.182
145.00	gmco 20g 20m 60o	1.442
0.00	790 GIP	0.000

Total Length: 325.00 ft Total Volume: 2.624 bbl

Num Fluid Samples: 0

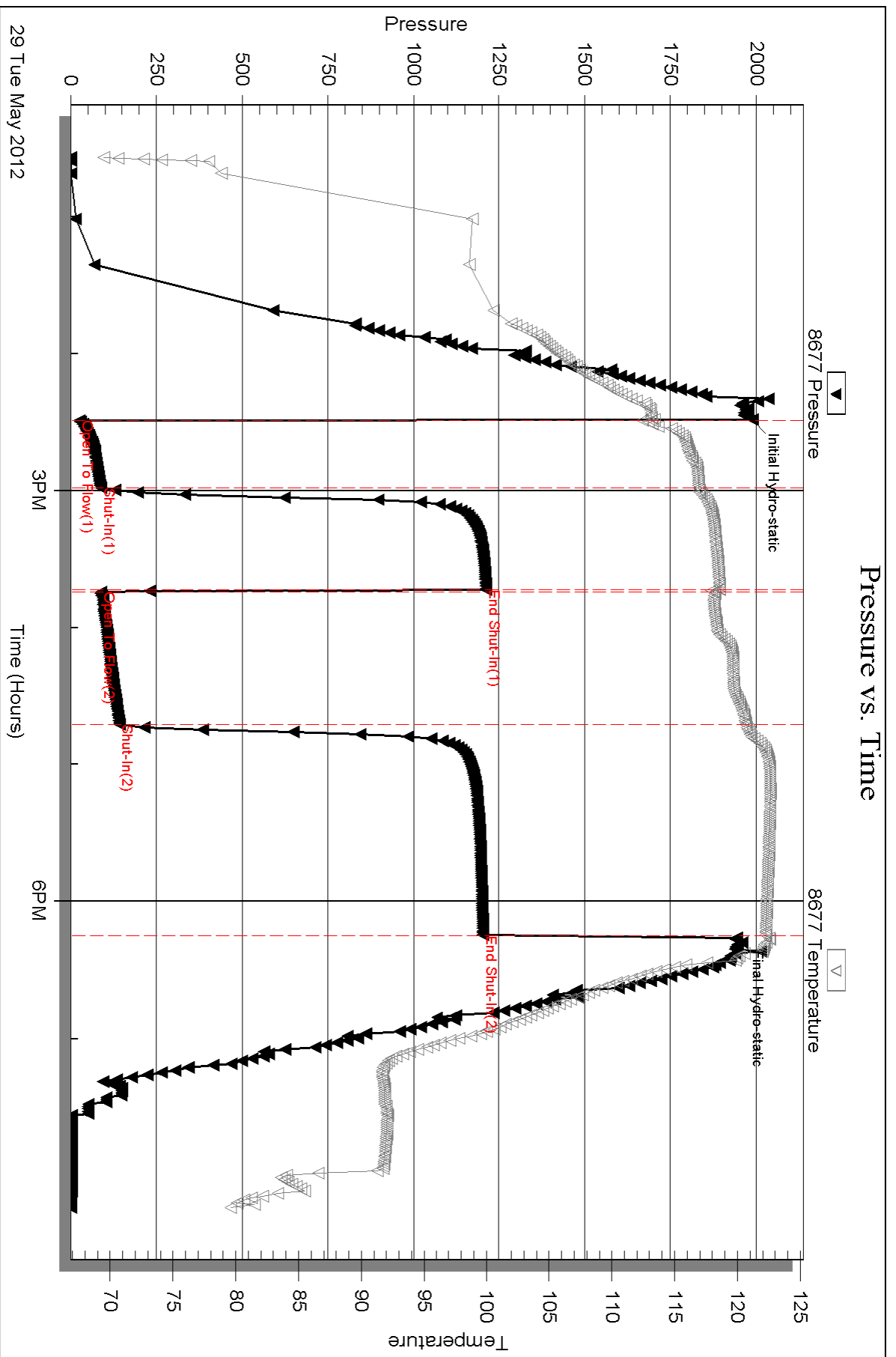
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



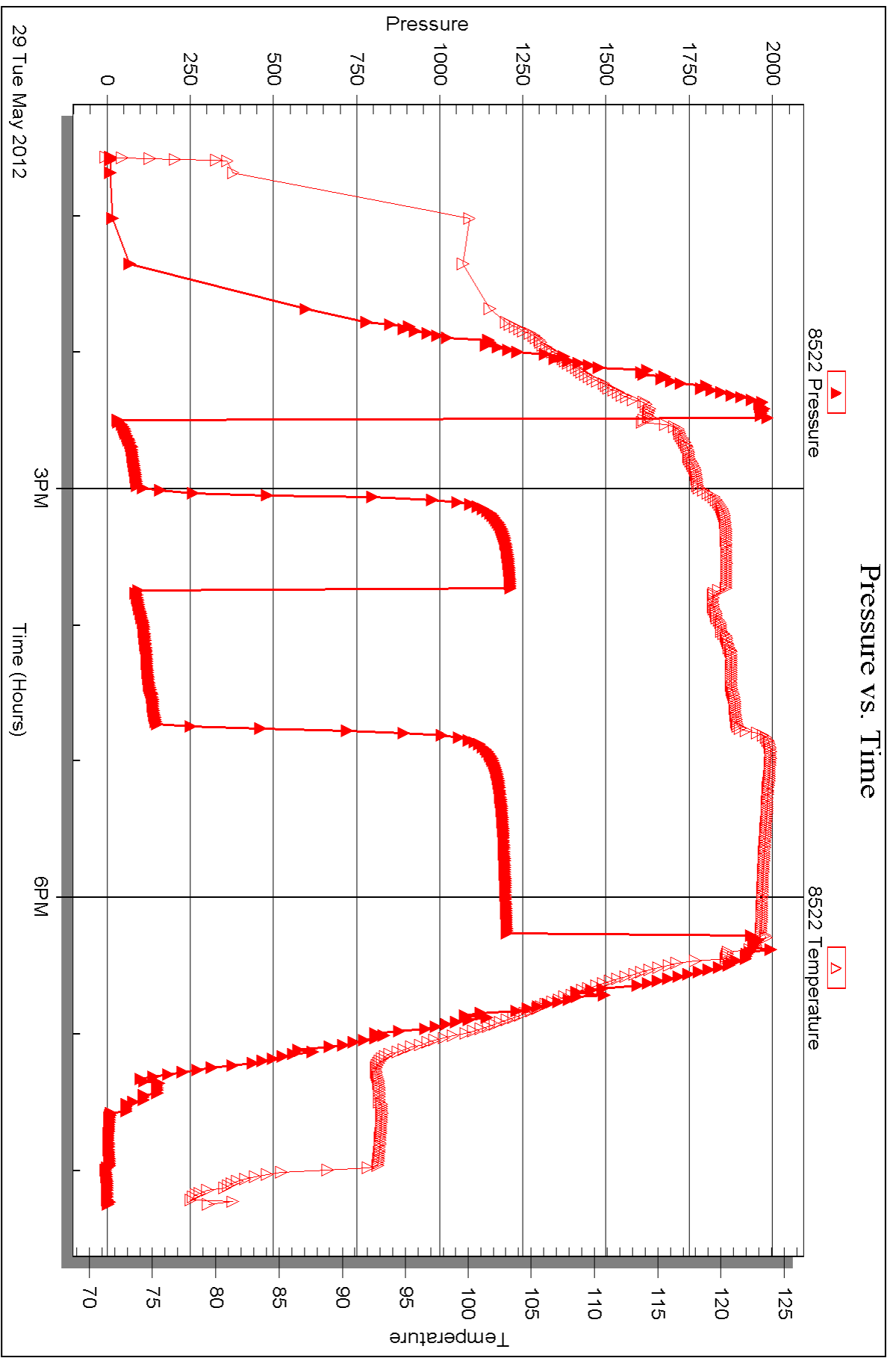
Serial #: 8522

Inside

Grand Mesa Operating Co.

Phillip #1-26

DST Test Number: 3



Triobite Testing, Inc

Ref. No: 46614

Printed: 2012.06.13 @ 13:08:57



DRILL STEM TEST REPORT

Prepared For: **Grand Mesa Operating Co.**

1700 N. Waterfront Pkwy
Bldg #600
Wichita, KS 67206

ATTN: Bob Schreiber

Phillip #1-26

26-13s-31w Gove,KS

Start Date: 2012.05.30 @ 04:55:00

End Date: 2012.05.30 @ 13:18:30

Job Ticket #: 46615 DST #: 4

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Printed: 2012.06.13 @ 13:08:03



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Grand Mesa Operating Co.

26-13s-31w Gove, KS

1700 N. Waterfront Pkwy
Bldg #600
Wichita, KS 67206
ATTN: Bob Schreiber

Phillip #1-26

Job Ticket: 46615

DST#: 4

Test Start: 2012.05.30 @ 04:55:00

GENERAL INFORMATION:

Formation: **LKC "J"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 06:34:00

Time Test Ended: 13:18:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Bradley Walter

Unit No: 53

Interval: 4127.00 ft (KB) To 4151.00 ft (KB) (TVD)

Total Depth: 4151.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2869.00 ft (KB)

2864.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8677 Outside

Press @ Run Depth: 808.37 psig @ 4128.00 ft (KB)

Start Date: 2012.05.30

End Date:

2012.05.30

Start Time: 04:55:05

End Time:

13:18:29

Capacity: 8000.00 psig

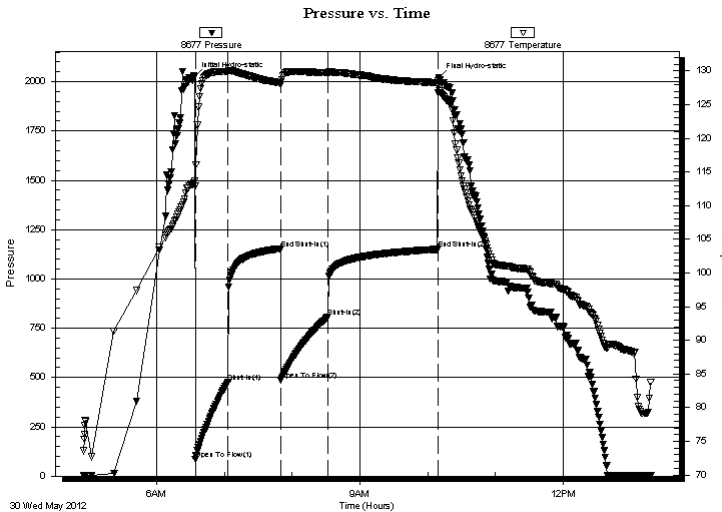
Last Calib.: 2012.05.30

Time On Btm: 2012.05.30 @ 06:33:45

Time Off Btm: 2012.05.30 @ 10:10:15

TEST COMMENT: IF: BOB @ 2 min.
IS: 3" return.
FF: BOB @ 3 min.
FSI BOB @ 29 min.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2025.82	113.63	Initial Hydro-static
1	85.22	112.95	Open To Flow (1)
30	477.64	129.92	Shut-In(1)
76	1153.82	128.24	End Shut-In(1)
76	487.46	127.97	Open To Flow (2)
118	808.37	129.75	Shut-In(2)
216	1150.50	128.27	End Shut-In(2)
217	2020.02	127.67	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1980.00	smcw 2m 98w (oil spots)	19.09
70.00	go 30g 70o	0.70
0.00	500' GIP	0.00

Gas Rates

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

* Recovery from multiple tests



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Grand Mesa Operating Co.
 1700 N. Waterfront Pkw y
 Bldg #600
 Wichita, KS 67206
 ATTN: Bob Schreiber

26-13s-31w Gove, KS

Phillip #1-26

Job Ticket: 46615

DST#: 4

Test Start: 2012.05.30 @ 04:55:00

GENERAL INFORMATION:

Formation: **LKC "J"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 06:34:00

Time Test Ended: 13:18:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Bradley Walter

Unit No: 53

Interval: 4127.00 ft (KB) To 4151.00 ft (KB) (TVD)

Total Depth: 4151.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2869.00 ft (KB)

2864.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8522 **Inside**

Press @RunDepth: psig @ 4128.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.05.30 End Date: 2012.05.30

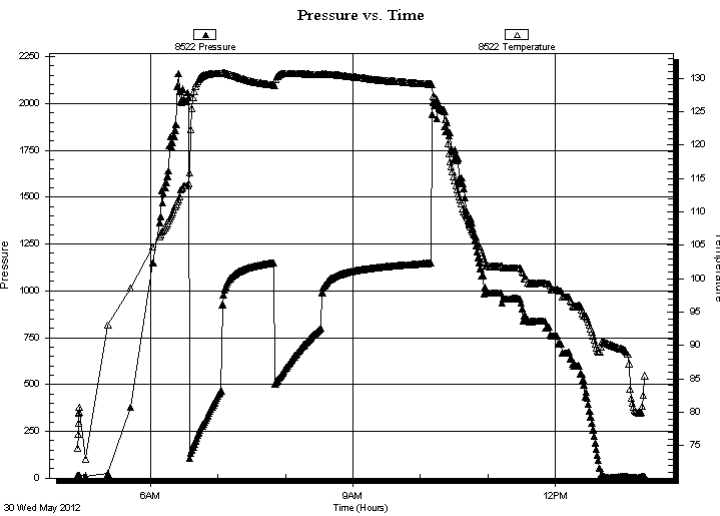
Last Calib.: 2012.05.30

Start Time: 04:55:05 End Time: 13:19:44

Time On Btm:

Time Off Btm:

TEST COMMENT: IF: BOB @ 2 min.
 IS: 3" return.
 FF: BOB @ 3 min.
 FSI BOB @ 29 min.



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
1980.00	smcw 2m 98w (oil spots)	19.09
70.00	go 30g 70o	0.70
0.00	500' GIP	0.00

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Grand Mesa Operating Co.

26-13s-31w Gove,KS

1700 N. Waterfront Pkwy
Bldg #600
Wichita, KS 67206
ATTN: Bob Schreiber

Phillip #1-26

Job Ticket: 46615

DST#: 4

Test Start: 2012.05.30 @ 04:55:00

Tool Information

Drill Pipe:	Length: 3999.00 ft	Diameter: 3.20 inches	Volume: 39.78 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 121.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 40.38 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	4127.00 ft			Final 62000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	24.00 ft			
Tool Length:	51.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

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

Change Over Sub	1.00			4101.00	
Shut In Tool	5.00			4106.00	
Hydraulic tool	5.00			4111.00	
Jars	5.00			4116.00	
Safety Joint	2.00			4118.00	
Packer	5.00			4123.00	27.00 Bottom Of Top Packer
Packer	4.00			4127.00	
Stubb	1.00			4128.00	
Recorder	0.00	8677	Outside	4128.00	
Recorder	0.00	8522	Inside	4128.00	
Perforations	20.00			4148.00	
Bullnose	3.00			4151.00	24.00 Bottom Packers & Anchor

Total Tool Length: 51.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Grand Mesa Operating Co.
1700 N. Waterfront Pkw y
Bldg #600
Wichita, KS 67206
ATTN: Bob Schreiber

26-13s-31w Gove,KS
Phillip #1-26
Job Ticket: 46615
Test Start: 2012.05.30 @ 04:55:00

DST#: 4

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API: 34 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: 74000 ppm
Viscosity: 52.00 sec/qt	Cushion Volume: bbl	
Water Loss: 8.78 in ³	Gas Cushion Type:	
Resistivity: ohm.m	Gas Cushion Pressure: psig	
Salinity: 3500.00 ppm		
Filter Cake: 1.00 inches		

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1980.00	smcw 2m 98w (oil spots)	19.087
70.00	go 30g 70o	0.696
0.00	500' GIP	0.000

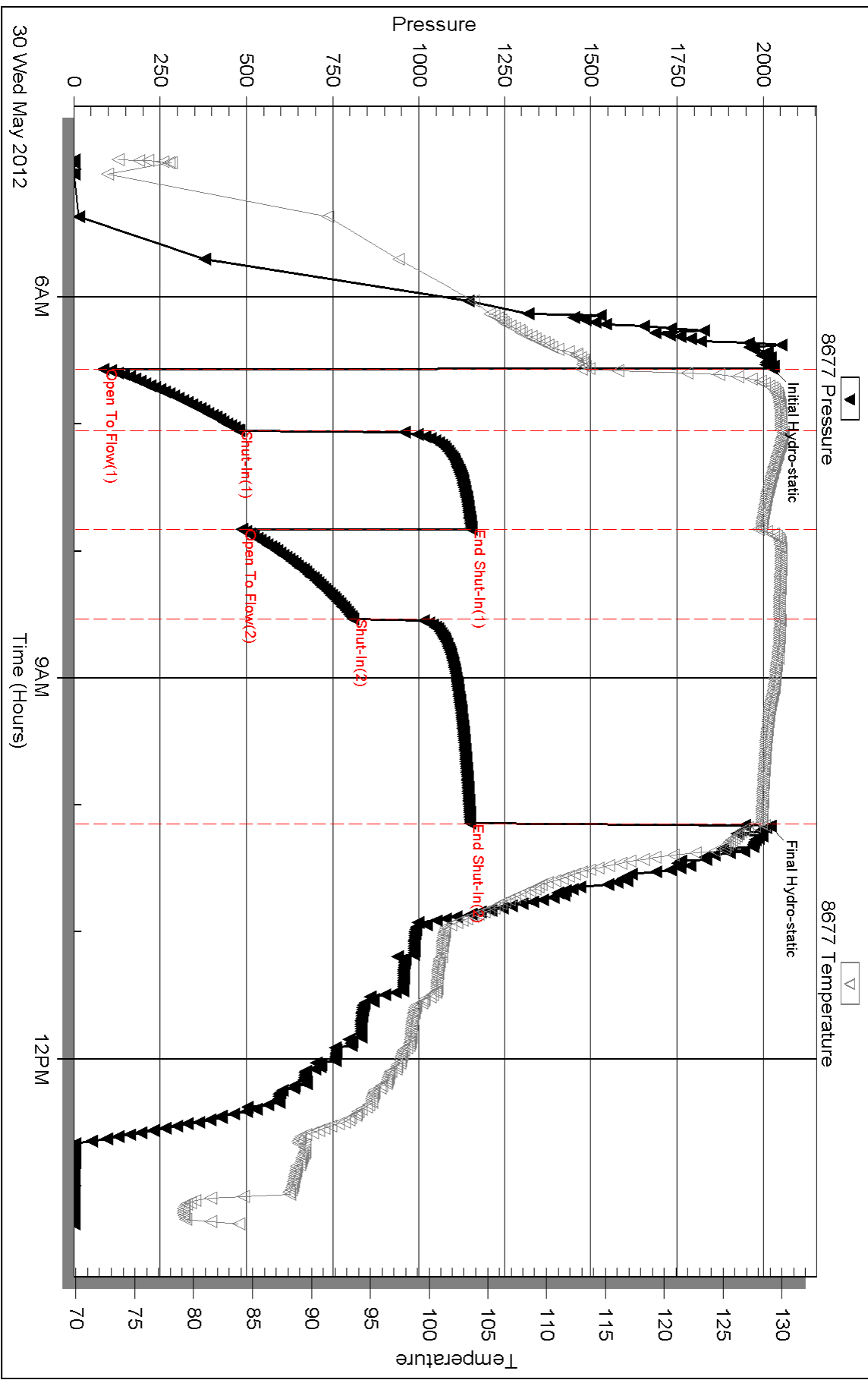
Total Length: 2050.00 ft Total Volume: 19.783 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments: rw is .090 @ 82F = 74,000ppm

Pressure vs. Time



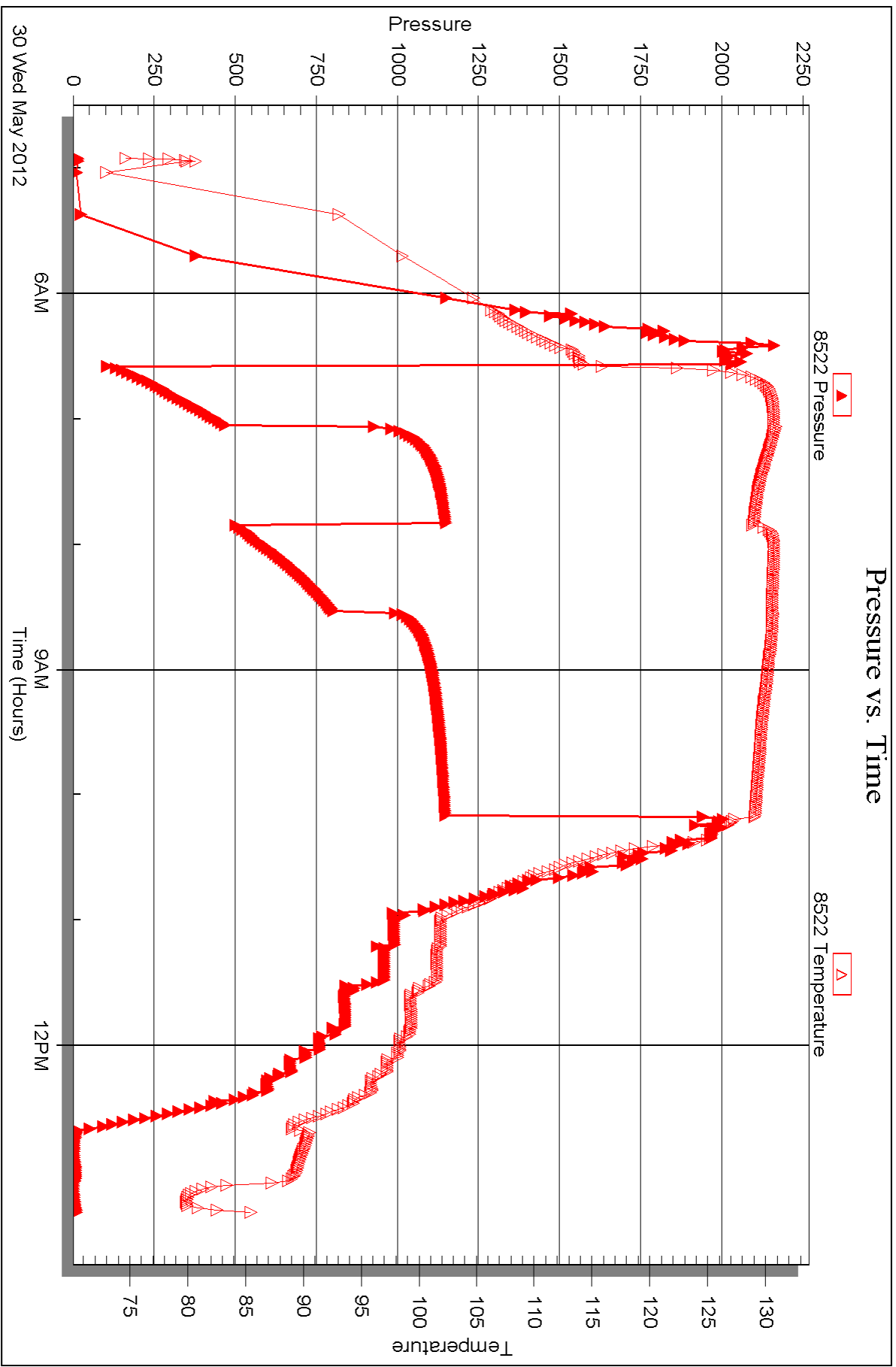
Serial #: 8522

Inside

Grand Mesa Operating Co.

Phillip #1-26

DST Test Number: 4



Triobite Testing, Inc

Ref. No: 46615

Printed: 2012.06.13 @ 13:08:06



DRILL STEM TEST REPORT

Prepared For: **Grand Mesa Operating Co.**

1700 N. Waterfront Pkwy
Bldg #600
Wichita, KS 67206

ATTN: Bob Schreiber

Phillip #1-26

26-13s-31w Gove,KS

Start Date: 2012.05.30 @ 21:23:00

End Date: 2012.05.31 @ 05:18:00

Job Ticket #: 46616 DST #: 5

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2012.06.13 @ 13:07:25

Grand Mesa Operating Co. 26-13s-31w Gove,KS Phillip #1-26 DST # 5 LKC "K" 2012.05.30



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Grand Mesa Operating Co.
 1700 N. Waterfront Pkwy
 Bldg #600
 Wichita, KS 67206
 ATTN: Bob Schreiber

26-13s-31w Gove, KS

Phillip #1-26

Job Ticket: 46616

DST#: 5

Test Start: 2012.05.30 @ 21:23:00

GENERAL INFORMATION:

Formation: **LKC "K"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 22:51:00
 Time Test Ended: 05:18:00
 Interval: **4150.00 ft (KB) To 4170.00 ft (KB) (TVD)**
 Total Depth: 4170.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Bradley Walter
 Unit No: 53
 Reference Elevations: 2869.00 ft (KB)
 2864.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 8677

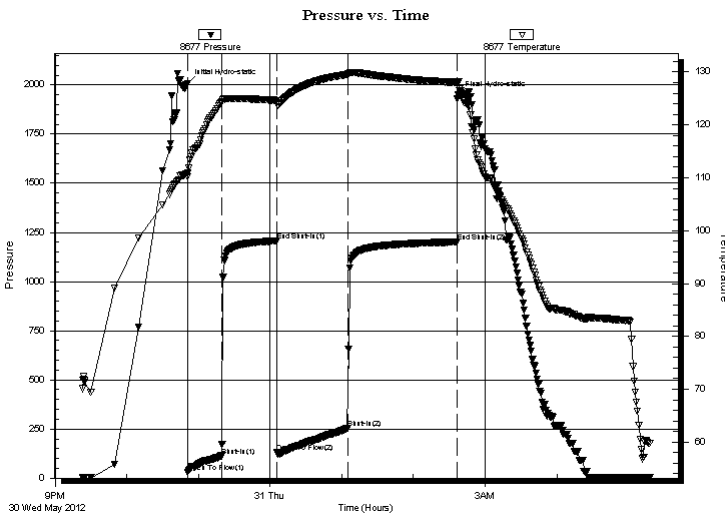
Outside

Press @ Run Depth: 254.88 psig @ 4151.00 ft (KB)
 Start Date: 2012.05.30 End Date: 2012.05.31
 Start Time: 21:23:05 End Time: 05:17:59

Capacity: 8000.00 psig
 Last Calib.: 2012.05.31
 Time On Btm: 2012.05.30 @ 22:50:45
 Time Off Btm: 2012.05.31 @ 02:37:15

TEST COMMENT: IF: BOB @ 5 min.
 IS: 7" return.
 FF: BOB @ 5 min.
 FS: BOB @ 10 min.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2007.83	110.87	Initial Hydro-static
1	29.61	110.15	Open To Flow (1)
29	113.37	124.23	Shut-In(1)
75	1206.45	124.63	End Shut-In(1)
75	130.25	123.98	Open To Flow (2)
135	254.88	129.52	Shut-In(2)
226	1200.73	128.02	End Shut-In(2)
227	1947.32	128.23	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
130.00	mcw 30m 70w (oil spots)	0.68
60.00	gw ocm 30g 20w 20o 30m	0.60
440.00	go 60g 40o	4.38
0.00	2550' GIP	0.00

* Recovery from multiple tests

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Grand Mesa Operating Co.
 1700 N. Waterfront Pkw y
 Bldg #600
 Wichita, KS 67206
 ATTN: Bob Schreiber

26-13s-31w Gove,KS

Phillip #1-26

Job Ticket: 46616

DST#: 5

Test Start: 2012.05.30 @ 21:23:00

GENERAL INFORMATION:

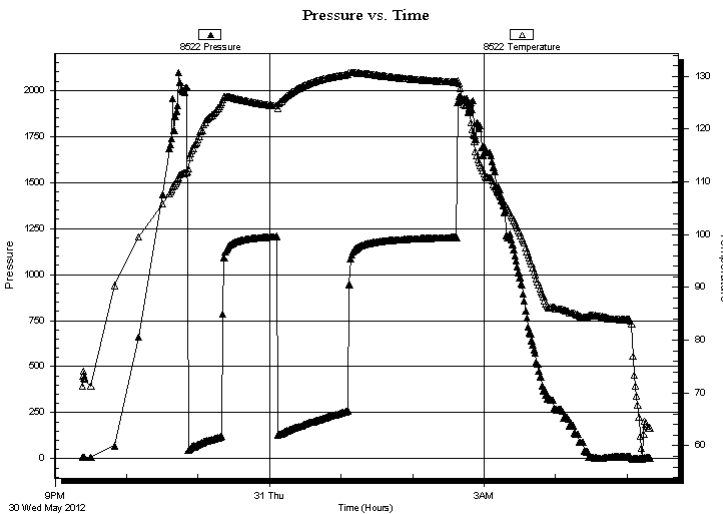
Formation: **LKC "K"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 22:51:00
 Time Test Ended: 05:18:00
 Interval: **4150.00 ft (KB) To 4170.00 ft (KB) (TVD)**
 Total Depth: 4170.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Bradley Walter
 Unit No: 53
 Reference Elevations: 2869.00 ft (KB)
 2864.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 8522 Inside

Press@RunDepth: psig @ 4151.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2012.05.30 End Date: 2012.05.31 Last Calib.: 2012.05.31
 Start Time: 21:23:05 End Time: 05:19:14 Time On Btm:
 Time Off Btm:

TEST COMMENT: IF : BOB @ 5 min.
 IS: 7" return.
 FF: BOB @ 5 min.
 FS: BOB @ 10 min.

PRESSURE SUMMARY



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

Recovery

Length (ft)	Description	Volume (bbl)
130.00	mcw 30m 70w (oil spots)	0.68
60.00	gw ocm 30g 20w 20o 30m	0.60
440.00	go 60g 40o	4.38
0.00	2550' GIP	0.00

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Grand Mesa Operating Co.

26-13s-31w Gove,KS

1700 N. Waterfront Pkwy
Bldg #600
Wichita, KS 67206
ATTN: Bob Schreiber

Phillip #1-26

Job Ticket: 46616

DST#: 5

Test Start: 2012.05.30 @ 21:23:00

Tool Information

Drill Pipe:	Length: 4029.00 ft	Diameter: 3.20 inches	Volume: 40.08 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 121.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose: 78000.00 lb
			<u>Total Volume: 40.68 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	27.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	4150.00 ft			Final 63000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	20.00 ft			
Tool Length:	47.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

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

Change Over Sub	1.00			4124.00	
Shut In Tool	5.00			4129.00	
Hydraulic tool	5.00			4134.00	
Jars	5.00			4139.00	
Safety Joint	2.00			4141.00	
Packer	5.00			4146.00	27.00 Bottom Of Top Packer
Packer	4.00			4150.00	
Stubb	1.00			4151.00	
Recorder	0.00	8677	Outside	4151.00	
Recorder	0.00	8522	Inside	4151.00	
Perforations	16.00			4167.00	
Bullnose	3.00			4170.00	20.00 Bottom Packers & Anchor

Total Tool Length: 47.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Grand Mesa Operating Co.

26-13s-31w Gove,KS

1700 N. Waterfront Pkw y
Bldg #600
Wichita, KS 67206
ATTN: Bob Schreiber

Phillip #1-26

Job Ticket: 46616

DST#: 5

Test Start: 2012.05.30 @ 21:23:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

37 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

69000 ppm

Viscosity: 52.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.78 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3500.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
130.00	mcw 30m 70w (oil spots)	0.685
60.00	gw ocm 30g 20w 20o 30m	0.597
440.00	go 60g 40o	4.377
0.00	2550' GIP	0.000

Total Length: 630.00 ft Total Volume: 5.659 bbl

Num Fluid Samples: 0

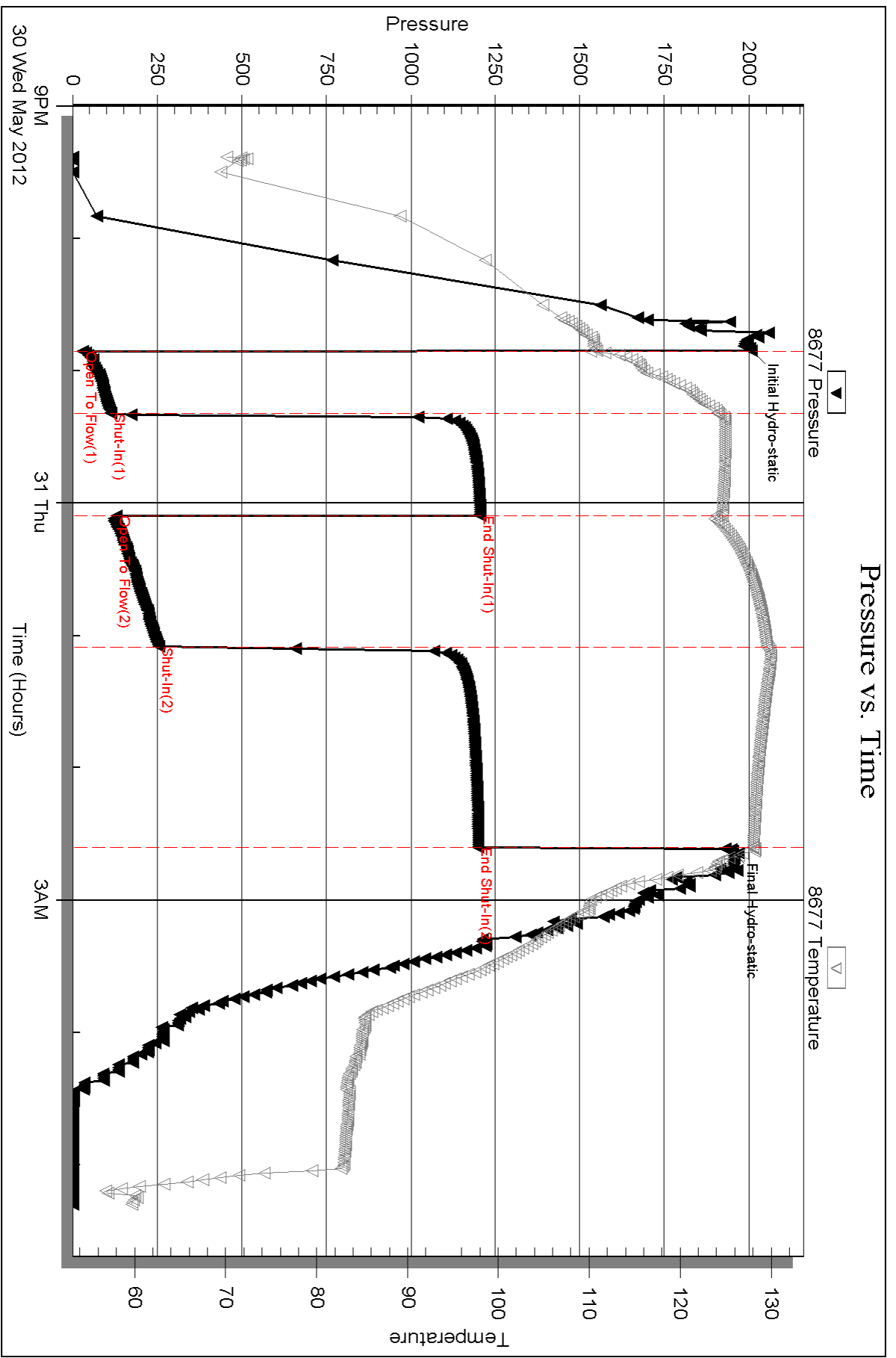
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: rw is .160 @ 49F = 69,000ppm



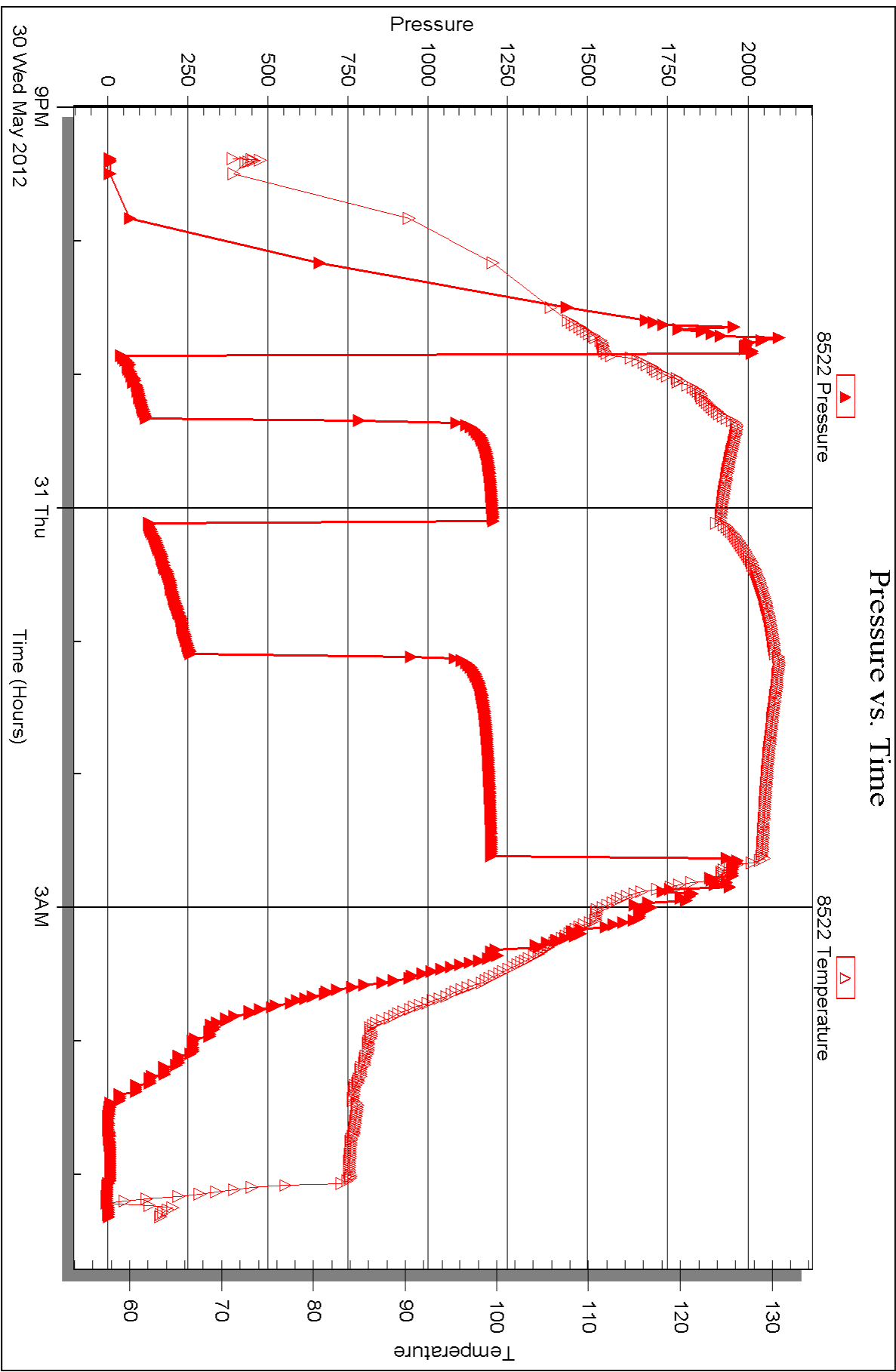
Serial #: 8522

Inside

Grand Mesa Operating Co.

Phillip #1-26

DST Test Number: 5





DRILL STEM TEST REPORT

Prepared For: **Grand Mesa Operating Co.**

1700 N. Waterfront Pkwy
Bldg #600
Wichita, KS 67206

ATTN: Bob Schreiber

Phillip #1-26

26-13s-31w Gove,KS

Start Date: 2012.06.01 @ 10:39:00

End Date: 2012.06.01 @ 19:04:00

Job Ticket #: 46617 DST #: 6

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2012.06.13 @ 13:06:45



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Grand Mesa Operating Co.

26-13s-31w Gove,KS

1700 N. Waterfront Pkw y
Bldg #600
Wichita, KS 67206
ATTN: Bob Schreiber

Phillip #1-26

Job Ticket: 46617

DST#: 6

Test Start: 2012.06.01 @ 10:39:00

GENERAL INFORMATION:

Formation: **Ft Scott**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 12:35:30

Time Test Ended: 19:04:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Bradley Walter

Unit No: 53

Interval: 4374.00 ft (KB) To 4404.00 ft (KB) (TVD)

Total Depth: 4404.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2869.00 ft (KB)

2864.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8677 Outside

Press @ Run Depth: 437.79 psig @ 4375.00 ft (KB)

Start Date: 2012.06.01

End Date:

2012.06.01

Start Time: 10:39:05

End Time:

19:03:59

Capacity: 8000.00 psig

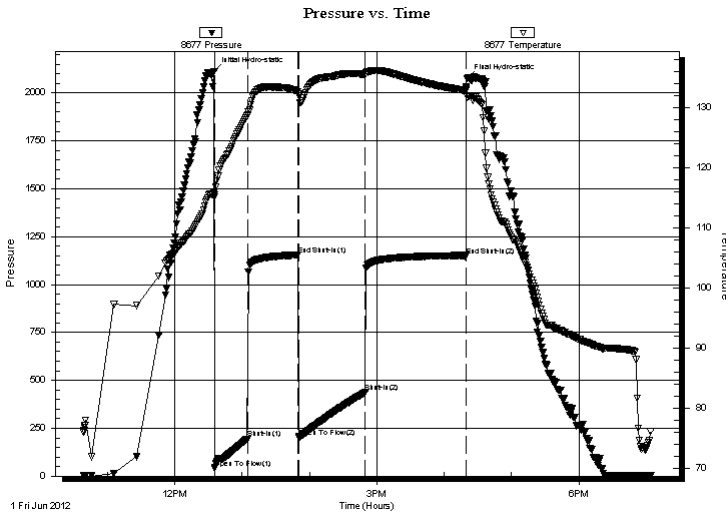
Last Calib.: 2012.06.01

Time On Btm: 2012.06.01 @ 12:35:15

Time Off Btm: 2012.06.01 @ 16:20:44

TEST COMMENT: IF:BOB @ 4 min.
IS:BOB @ 12 min.
FF:BOB @ 6 min.
FS:BOB @ 22 min.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2113.45	115.91	Initial Hydro-static
1	39.45	115.19	Open To Flow (1)
30	195.53	128.80	Shut-In(1)
75	1154.33	132.72	End Shut-In(1)
76	202.98	132.30	Open To Flow (2)
135	437.79	135.63	Shut-In(2)
225	1151.86	132.88	End Shut-In(2)
226	2076.56	131.80	Final Hydro-static

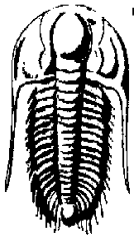
Recovery

Length (ft)	Description	Volume (bbl)
200.00	gocm 30g 30o 40m	1.38
950.00	go 40g 60o	9.45
0.00	1460' GIP	0.00

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Grand Mesa Operating Co.

26-13s-31w Gove,KS

1700 N. Waterfront Pkw y
Bldg #600
Wichita, KS 67206
ATTN: Bob Schreiber

Phillip #1-26

Job Ticket: 46617

DST#: 6

Test Start: 2012.06.01 @ 10:39:00

GENERAL INFORMATION:

Formation: **Ft Scott**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 12:35:30

Time Test Ended: 19:04:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Bradley Walter

Unit No: 53

Interval: **4374.00 ft (KB) To 4404.00 ft (KB) (TVD)**

Reference Elevations: 2869.00 ft (KB)

Total Depth: 4404.00 ft (KB) (TVD)

2864.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8522 **Inside**

Press@RunDepth: psig @ 4375.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.06.01

End Date:

2012.06.01

Last Calib.:

2012.06.01

Start Time: 10:39:05

End Time:

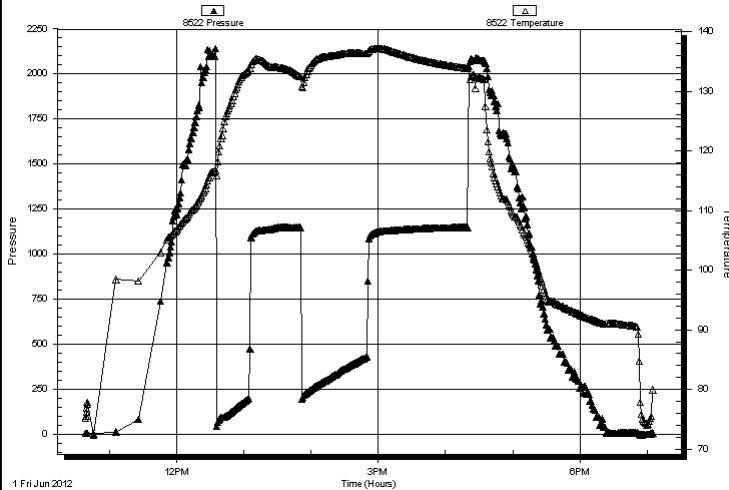
19:05:14

Time On Btm:

Time Off Btm:

TEST COMMENT: IF:BOB @ 4 min.
IS:BOB @ 12 min.
FF:BOB @ 6 min.
FS:BOB @ 22 min.

Pressure vs. Time



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
200.00	gocm 30g 30o 40m	1.38
950.00	go 40g 60o	9.45
0.00	1460' GIP	0.00

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Grand Mesa Operating Co.

26-13s-31w Gove,KS

1700 N. Waterfront Pkwy
Bldg #600
Wichita, KS 67206
ATTN: Bob Schreiber

Phillip #1-26

Job Ticket: 46617

DST#: 6

Test Start: 2012.06.01 @ 10:39:00

Tool Information

Drill Pipe:	Length: 4248.00 ft	Diameter: 3.20 inches	Volume: 42.26 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 121.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose: lb
			<u>Total Volume: 42.86 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	22.00 ft			String Weight: Initial 62000.00 lb
Depth to Top Packer:	4374.00 ft			Final 64000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	30.00 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
------------------	-------------	------------	----------	------------	----------------

Change Over Sub	1.00			4348.00	
Shut In Tool	5.00			4353.00	
Hydraulic tool	5.00			4358.00	
Jars	5.00			4363.00	
Safety Joint	2.00			4365.00	
Packer	5.00			4370.00	27.00 Bottom Of Top Packer
Packer	4.00			4374.00	
Stubb	1.00			4375.00	
Recorder	0.00	8677	Outside	4375.00	
Recorder	0.00	8522	Inside	4375.00	
Perforations	26.00			4401.00	
Bullnose	3.00			4404.00	30.00 Bottom Packers & Anchor

Total Tool Length: 57.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Grand Mesa Operating Co.

26-13s-31w Gove,KS

1700 N. Waterfront Pkw y
Bldg #600
Wichita, KS 67206
ATTN: Bob Schreiber

Phillip #1-26

Job Ticket: 46617

DST#: 6

Test Start: 2012.06.01 @ 10:39:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

34 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 47.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.39 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2800.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
200.00	gocm 30g 30o 40m	1.381
950.00	go 40g 60o	9.450
0.00	1460' GIP	0.000

Total Length: 1150.00 ft Total Volume: 10.831 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

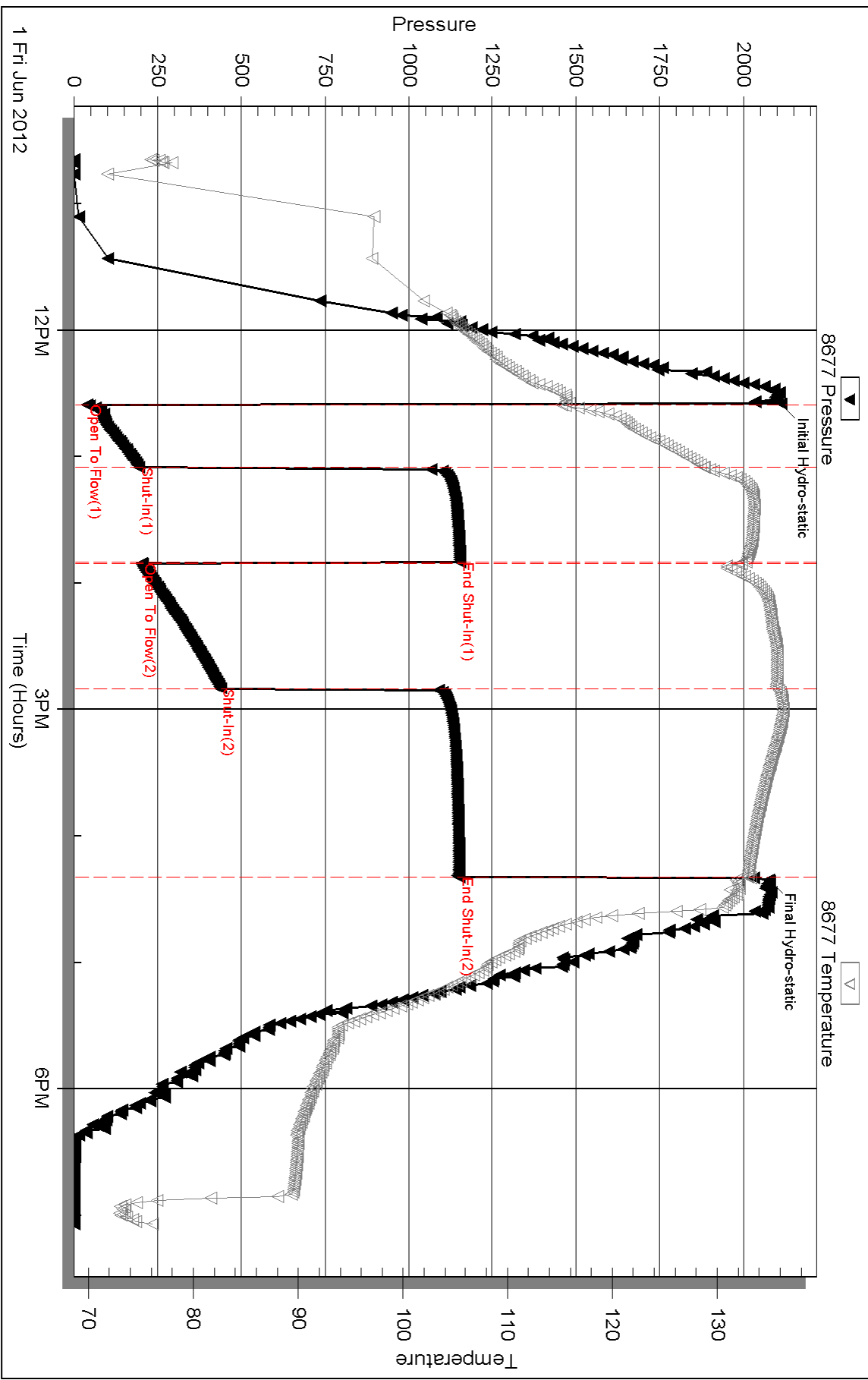
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time



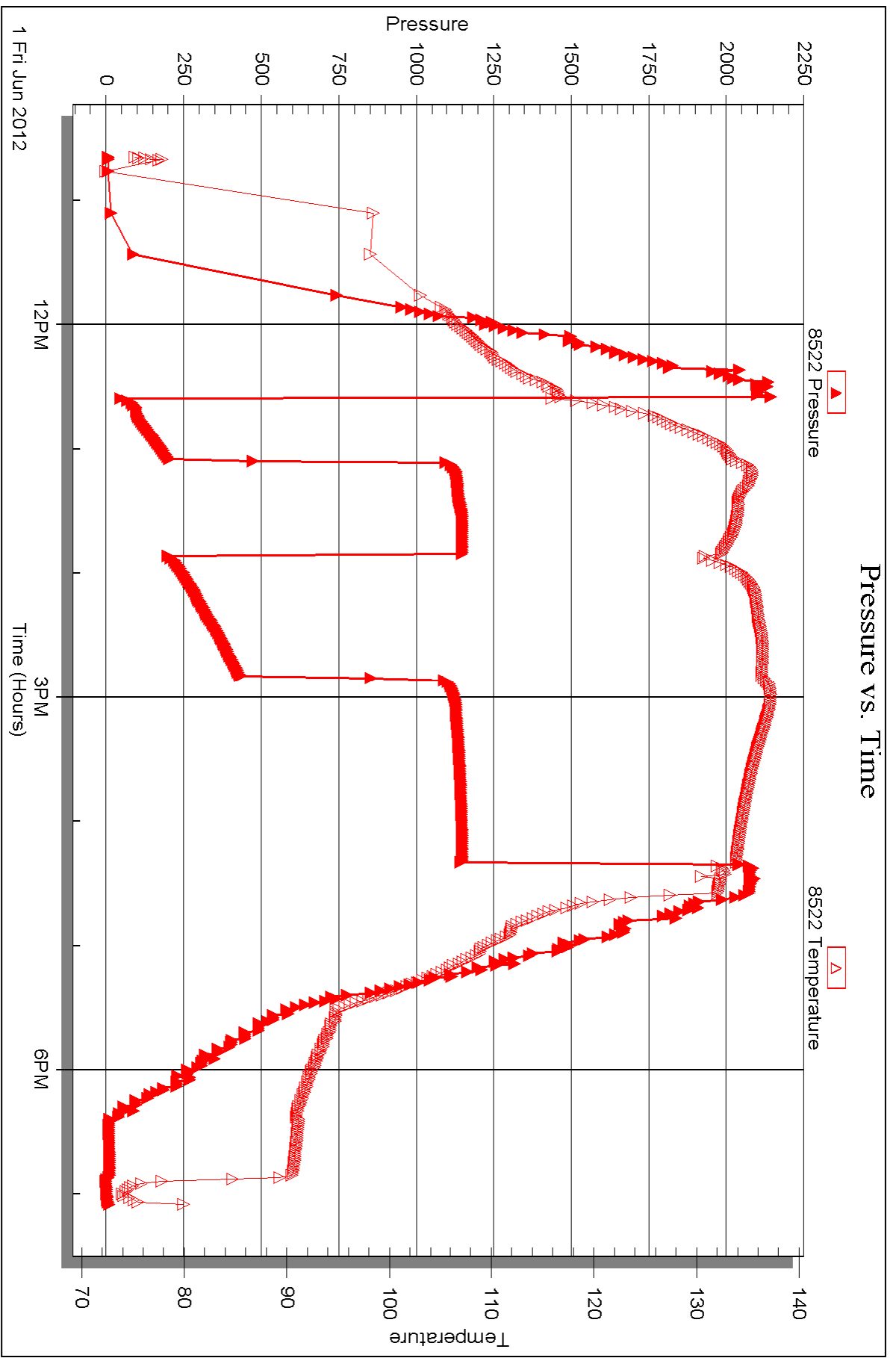
Serial #: 8522

Inside

Grand Mesa Operating Co.

Phillip #1-26

DST Test Number: 6



Triobite Testing, Inc

Ref. No: 46617

Printed: 2012.06.13 @ 13:06:48



DRILL STEM TEST REPORT

Prepared For: **Grand Mesa Operating Co.**

1700 N. Waterfront Pkwy
Bldg #600
Wichita, KS 67206

ATTN: Bob Schreiber

Phillip #1-26

26-13s-31w Gove,KS

Start Date: 2012.06.02 @ 21:38:00

End Date: 2012.06.03 @ 06:22:00

Job Ticket #: 46618 DST #: 7

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2012.06.13 @ 13:06:02

Grand Mesa Operating Co.
26-13s-31w Gove,KS
Phillip #1-26
DST # 7
Johnson
2012.06.02



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Grand Mesa Operating Co.
 1700 N. Waterfront Pkwy
 Bldg #600
 Wichita, KS 67206
 ATTN: Bob Schreiber

26-13s-31w Gove, KS

Phillip #1-26

Job Ticket: 46618

DST#: 7

Test Start: 2012.06.02 @ 21:38:00

GENERAL INFORMATION:

Formation: **Johnson**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 11:32:00
 Time Test Ended: 06:22:00
 Interval: **4459.00 ft (KB) To 4493.00 ft (KB) (TVD)**
 Total Depth: 4493.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Bradley Walter
 Unit No: 53
 Reference Elevations: 2869.00 ft (KB)
 2864.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 8677

Outside

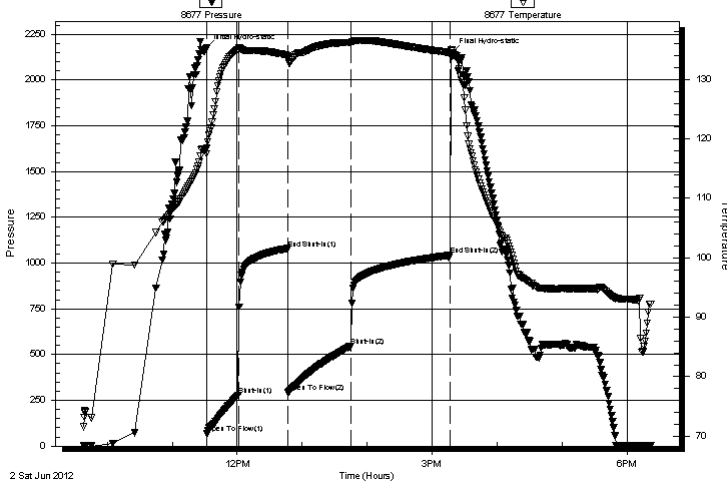
Press @ Run Depth: 547.27 psig @ 4460.00 ft (KB)
 Start Date: 2012.06.02 End Date: 2012.06.02
 Start Time: 09:38:05 End Time: 18:22:00
 Capacity: 8000.00 psig
 Last Calib.: 2012.06.02
 Time On Btm: 2012.06.02 @ 11:31:45
 Time Off Btm: 2012.06.02 @ 15:18:00

TEST COMMENT: IF: BOB @ 2 1/2 min.
 IS: BOB @ 15 min.
 FF: BOB @ 3 min.
 FS: BOB @ 22 min.

PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2174.55	118.44	Initial Hydro-static
1	68.08	117.47	Open To Flow (1)
30	279.89	135.06	Shut-In(1)
75	1075.35	134.03	End Shut-In(1)
75	293.47	133.69	Open To Flow (2)
134	547.27	136.23	Shut-In(2)
225	1042.57	134.50	End Shut-In(2)
227	2148.15	134.91	Final Hydro-static

Pressure vs. Time



Recovery

Length (ft)	Description	Volume (bbl)
120.00	gmco 5g 40m 55o	0.59
1280.00	go 30g 70o	12.73
0.00	1880 GIP	0.00

* Recovery from multiple tests

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Grand Mesa Operating Co.

26-13s-31w Gove, KS

1700 N. Waterfront Pkwy
Bldg #600
Wichita, KS 67206
ATTN: Bob Schreiber

Phillip #1-26

Job Ticket: 46618

DST#: 7

Test Start: 2012.06.02 @ 21:38:00

GENERAL INFORMATION:

Formation: **Johnson**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Reset)
 Time Tool Opened: 11:32:00 Tester: Bradley Walter
 Time Test Ended: 06:22:00 Unit No: 53
 Interval: **4459.00 ft (KB) To 4493.00 ft (KB) (TVD)** Reference Elevations: 2869.00 ft (KB)
 Total Depth: 4493.00 ft (KB) (TVD) 2864.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 5.00 ft

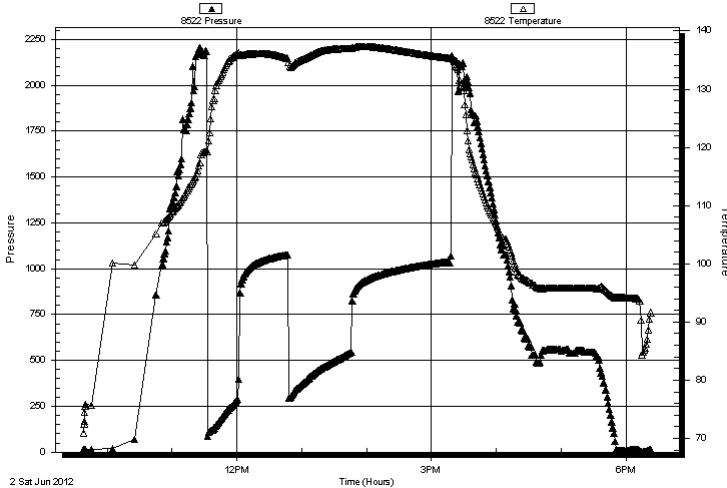
Serial #: 8522

Inside

Press@RunDepth: psig @ 4460.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2012.06.02 End Date: 2012.06.02 Last Calib.: 2012.06.02
 Start Time: 09:38:05 End Time: 18:23:30 Time On Btm:
 Time Off Btm:

TEST COMMENT: IF: BOB @ 2 1/2 min.
 IS: BOB @ 15 min.
 FF: BOB @ 3 min.
 FS: BOB @ 22 min.

Pressure vs. Time



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
120.00	gmco 5g 40m 55o	0.59
1280.00	go 30g 70o	12.73
0.00	1880 GIP	0.00

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Grand Mesa Operating Co.

26-13s-31w Gove,KS

1700 N. Waterfront Pkwy
Bldg #600
Wichita, KS 67206
ATTN: Bob Schreiber

Phillip #1-26

Job Ticket: 46618

DST#: 7

Test Start: 2012.06.02 @ 21:38:00

Tool Information

Drill Pipe:	Length: 4341.00 ft	Diameter: 3.20 inches	Volume: 43.18 bbl	Tool Weight: 2500.00 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: 82000.00 lb
			<u>Total Volume: 43.78 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 64000.00 lb
Depth to Top Packer:	4459.00 ft			Final 67000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	34.00 ft			
Tool Length:	61.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

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

Change Over Sub	1.00			4433.00	
Shut In Tool	5.00			4438.00	
Hydraulic tool	5.00			4443.00	
Jars	5.00			4448.00	
Safety Joint	2.00			4450.00	
Packer	5.00			4455.00	27.00 Bottom Of Top Packer
Packer	4.00			4459.00	
Stubb	1.00			4460.00	
Recorder	0.00	8677	Outside	4460.00	
Recorder	0.00	8522	Inside	4460.00	
Perforations	30.00			4490.00	
Bullnose	3.00			4493.00	34.00 Bottom Packers & Anchor

Total Tool Length: 61.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Grand Mesa Operating Co.

26-13s-31w Gove,KS

1700 N. Waterfront Pkwy
Bldg #600
Wichita, KS 67206
ATTN: Bob Schreiber

Phillip #1-26

Job Ticket: 46618

DST#: 7

Test Start: 2012.06.02 @ 21:38:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 54.00 sec/qt
Water Loss: 6.79 in³
Resistivity: ohm.m
Salinity: 3500.00 ppm
Filter Cake: 1.00 inches

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

Oil API: 30 deg API
Water Salinity: 0 ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
120.00	gmco 5g 40m 55o	0.590
1280.00	go 30g 70o	12.728
0.00	1880 GIP	0.000

Total Length: 1400.00 ft Total Volume: 13.318 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

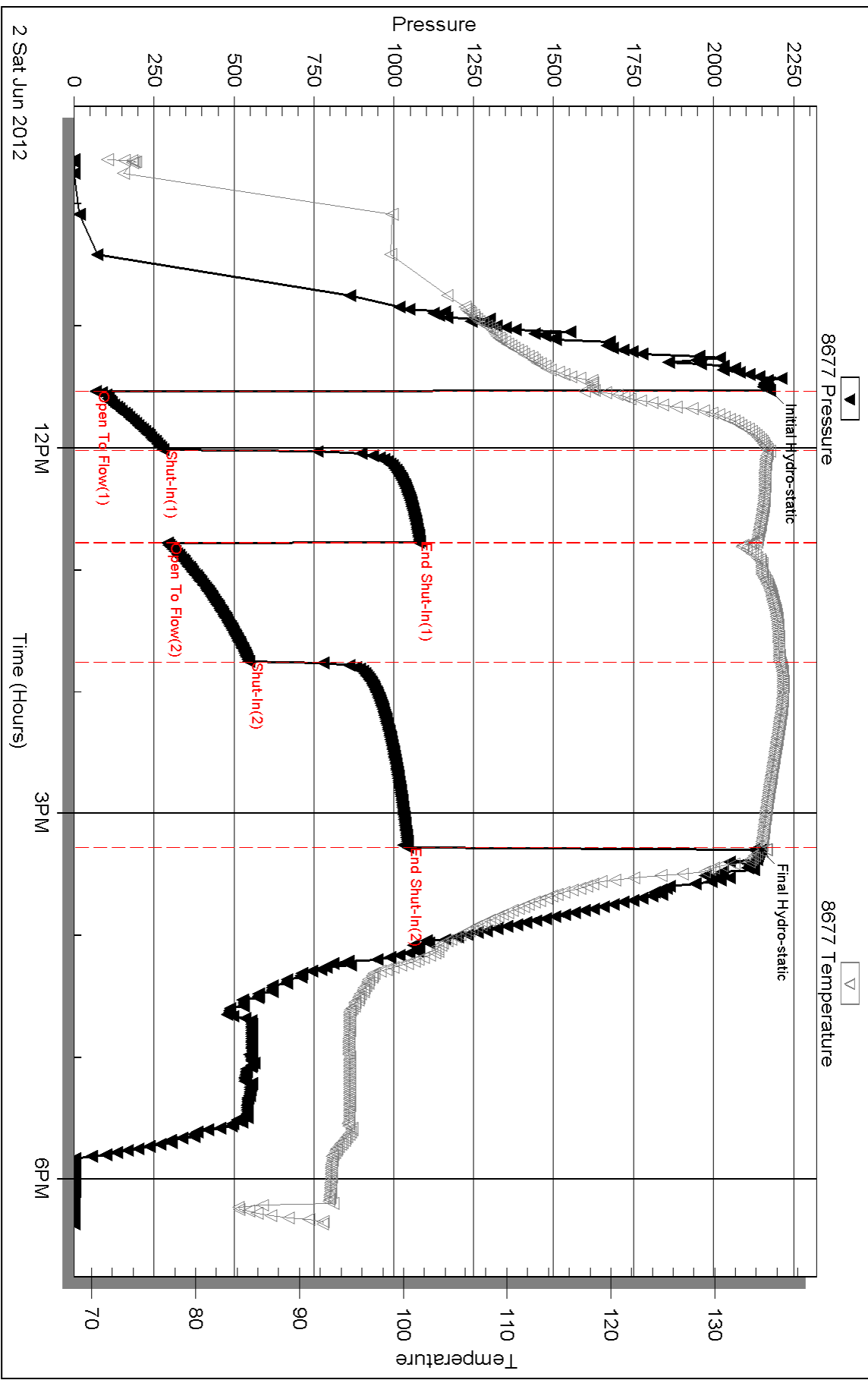
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time



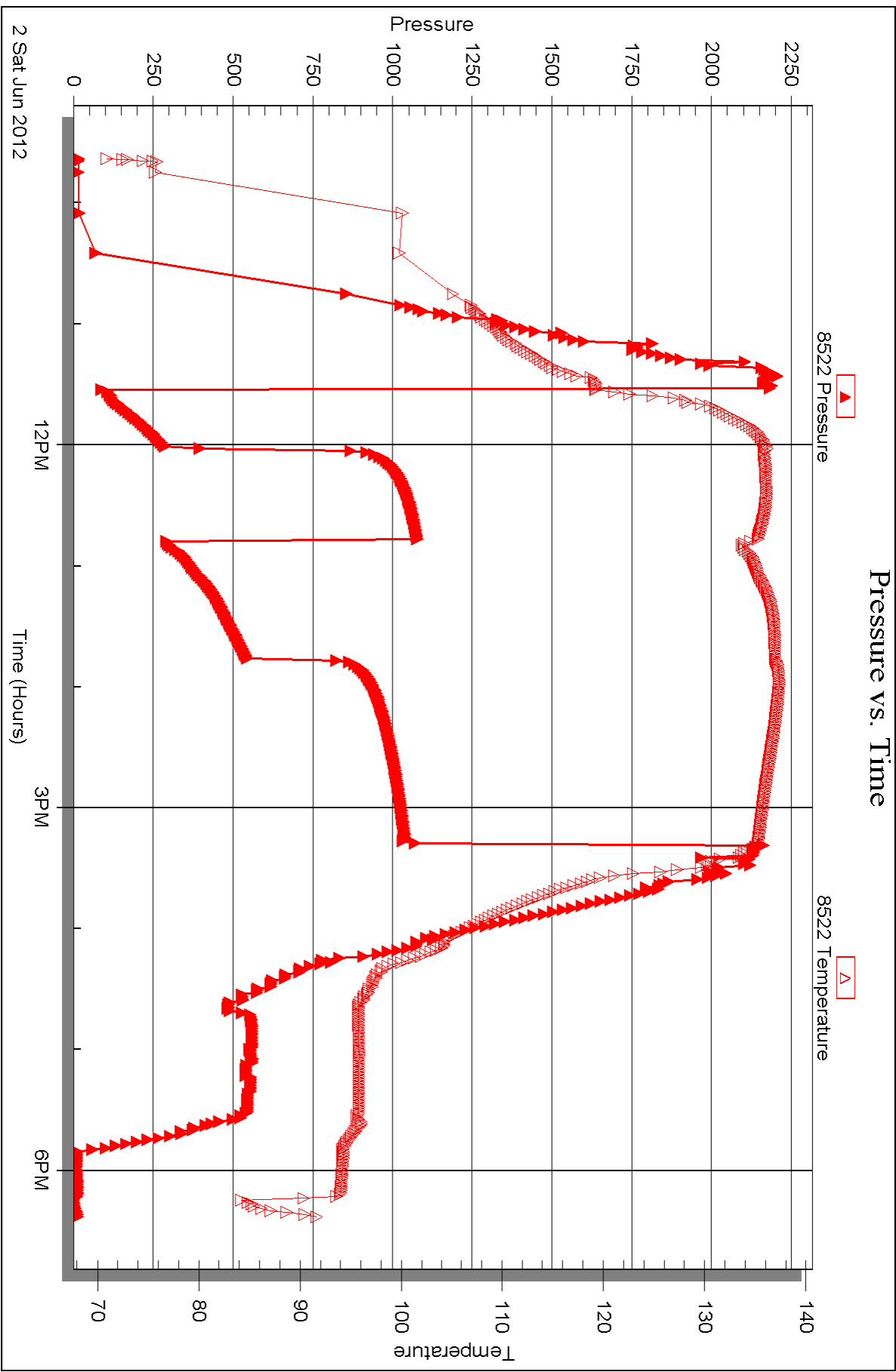
Serial #: 8522

Inside

Grand Mesa Operating Co.

Phillip #1-26

DST Test Number: 7





TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 46611

4/10

Well Name & No. Phillip # 1-26 Test No. 1 Date 3/27/12
 Company Grand Mesa Operating Co. Elevation 2869 KB 2864 GL
 Address 1700 N. Waterfront Pkwy Bldg #600 Wichita, Ks 67206
 Co. Rep / Geo. Bob Schrieber Rig Muffin #24
 Location: Sec. 26 Twp. 13s Rge. 31w Co. Gove State Ks

Interval Tested 3941 - 3973 Zone Tested LKC "C-D"
 Anchor Length 32' Drill Pipe Run 3912 Mud Wt. 9.2
 Top Packer Depth 3936 Drill Collars Run 121 Vis 51
 Bottom Packer Depth 3941 Wt. Pipe Run 0 WL 7.2
 Total Depth 3973 Chlorides 2500 ppm System LCM 5#
 Blow Description IF: 6" blow.
ISI: No return.
FF: 9" blow.
FSI: No return.

Rec	Feet of	IS	%gas	%oil	%water	%mud
50	60	15	85			
50	OCM		30			70
60	OWCM		10		30	60
60	OMCW		10		70	20
	40' Gassy Oder					
Rec Total	200	BHT 122	Gravity 32	API RW 130 @ 80 °F	Chlorides 52,000 ppm	

(A) Initial Hydrostatic 1949 Test 1150 T-On Location 1245
 (B) First Initial Flow 28 Jars 250 T-Started 1342
 (C) First Final Flow 80 Safety Joint 75 T-Open 1542
 (D) Initial Shut-In 1148 Circ Sub H/C T-Pulled 1842
 (E) Second Initial Flow 94 Hourly Standby _____ T-Out 2032
 (F) Second Final Flow 111 Mileage 90 RT 139.50 Comments _____
 (G) Final Shut-In 1132 Sampler _____
 (H) Final Hydrostatic 1893 Straddle _____
 Shale Packer _____ Ruined Shale Packer _____
 Extra Packer _____ Ruined Packer _____
 Extra Recorder _____
 Day Standby _____
 Accessibility _____
 Sub Total 1614.50 Sub Total 0
 Total 1614.50 MP/DST Disc't _____

Approved By Bob Schrieber Our Representative [Signature]

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TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 46613

4/10

Well Name & No. Phillip #1-26 Test No. 2 Date 5/28/12
 Company Grand Mesa Operating Co Elevation 2869 KB 2864 GL
 Address 1700 N Waterfront Pkwy Bldg #600 Wichita, Ks 67206
 Co. Rep / Geo. Bob Schrieber Rig Murfin #24
 Location: Sec. 26 Twp. 13s Rge. 31w Co. Gove State Ks

Interval Tested 3974 - 4008 Zone Tested LKC "E-F"
 Anchor Length 34 Drill Pipe Run 3842 Mud Wt. 9.1
 Top Packer Depth 3969 Drill Collars Run 121 Vis 58
 Bottom Packer Depth 3974 Wt. Pipe Run 0 WL 6.4
 Total Depth 4008 Chlorides 3000 ppm System LCM 4#

Blow Description IF: BOB @ 2 1/2 min.
ISF: BOB @ 28 min.
FF: BOB @ 5 min.
FSI: 3" return.

Rec	Feet of	%gas	%oil	%water	%mud
1230	60	30	70		
160	MCW (oil spots)			60	40
	900' GIP				

Rec Total 1390 BHT 127 Gravity 36 API RW .110 @ 76 °F Chlorides 60,000 ppm

(A) Initial Hydrostatic 1940 Test 1250 T-On Location 0735
 (B) First Initial Flow 93 Jars 250 T-Started 0747
 (C) First Final Flow 269 Safety Joint 75 T-Open 0947
 (D) Initial Shut-In 1125 Circ Sub T-Pulled 1332
 (E) Second Initial Flow 284 Hourly Standby T-Out 1726
 (F) Second Final Flow 535 Mileage 90 R/T 139.50 Comments _____
 (G) Final Shut-In 1098 Sampler _____
 (H) Final Hydrostatic 1896 Straddle _____
 Shale Packer _____
 Shale Packer _____
 Extra Packer _____
 Extra Recorder _____
 Day Standby _____
 Accessibility _____

Initial Open 30
 Initial Shut-In 45
 Final Flow 60
 Final Shut-In 90

Sub Total 1614.50

Sub Total 1614.50

MP/DST Disc't _____

Approved By Bob Schrieber Our Representative [Signature]

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TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 46614

4/10

Well Name & No. Phillip #1-26 Test No. 3 Date 5/29/12
 Company Grand Mesa Operating Co Elevation 2869 KB 2864 GL
 Address 1700 N Waterfront Pkwy Bldg #600 Wichita, KS 67206
 Co. Rep / Geo. Bob Schrieber Rig MuAn #24
 Location: Sec. 26 Twp. 13S Rge. 31W Co. Gove State KS

Interval Tested 4065-4126 Zone Tested LKC H-I
 Anchor Length 61 Drill Pipe Run 3937 Mud Wt. 9.1
 Top Packer Depth 4060 Drill Collars Run 121 Vis 53
 Bottom Packer Depth 4065 Wt. Pipe Run 0 WL 7.2
 Total Depth 4126 Chlorides 3500 ppm System LCM S#

Blow Description IF: BOB @ 17 min
ISI: Surface blow, Died @ 20 min.
FF: BOB @ 10 min.
FSI: 1" return.

Rec	Feet of	%gas	%oil	%water	%mud
145	gmco	20	60		20
180	gmco	50	30		20
	790' GIP				

Rec Total 325 BHT 123 Gravity - API RW - @ - °F Chlorides - ppm

(A) Initial Hydrostatic <u>1989</u>	<input checked="" type="checkbox"/> Test <u>1250</u>	T-On Location <u>1215</u>
(B) First Initial Flow <u>26</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>1234</u>
(C) First Final Flow <u>89</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>1429</u>
(D) Initial Shut-In <u>1212</u>	<input checked="" type="checkbox"/> Circ Sub <u>NC</u>	T-Pulled <u>1814</u>
(E) Second Initial Flow <u>89 442</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>2015</u>
(F) Second Final Flow <u>141 1203</u>	<input checked="" type="checkbox"/> Mileage <u>90 RT</u> <u>139.50</u>	Comments
(G) Final Shut-In <u>1203</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>1943</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer
	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Packer
Initial Open <u>30</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Extra Copies
Initial Shut-In <u>45</u>	<input type="checkbox"/> Extra Recorder	Sub Total <u>0</u>
Final Flow <u>60</u>	<input type="checkbox"/> Day Standby	Total <u>1614.50</u>
Final Shut-In <u>90</u>	<input type="checkbox"/> Accessibility	MP/DST Disc't
	Sub Total <u>1614.50</u>	

Approved By Bob Schrieber

Our Representative [Signature]

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TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. **46615**

4/10

Well Name & No. Phillip #1-26 Test No. 4 Date 5/30/12
 Company Grand Mesa Operating Co Elevation 2869 KB 2864 GL
 Address 1700 N. Waterfront Pkwy Bldg #600 Wichita, Ks 67206
 Co. Rep / Geo. Bob Schrieber Rig Murfin #24
 Location: Sec. 26 Twp. 135 Rge. 31W Co. Gove State Ks

Interval Tested 4127 - 4151 Zone Tested LTC "J"
 Anchor Length 24 Drill Pipe Run 3999 Mud Wt. 9.2
 Top Packer Depth 4122 Drill Collars Run 121 Vis 52
 Bottom Packer Depth 4127 Wt. Pipe Run 0 WL 9.8
 Total Depth 4151 Chlorides 3500 ppm System LCM 4#

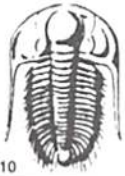
Blow Description IF: BOB@ 2 min.
IST: 3" return.
FF: BOB@ 3 min.
FSI: BOB@ 29 min.

Rec	Feet of	%gas	%oil	%water	%mud
<u>70</u>	<u>60</u>	<u>30</u>	<u>70</u>		
<u>1980</u>	<u>SncW (oil spots)</u>			<u>98</u>	<u>2</u>
	<u>500' GIP</u>				

Rec Total 2050 BHT 129 Gravity 34 API RW .090 @ 82 °F Chlorides 74,000 ppm
 (A) Initial Hydrostatic 2026 Test 1250 T-On Location 0440
 (B) First Initial Flow 85 Jars 250 T-Started 0455
 (C) First Final Flow 478 Safety Joint 75 T-Open 0634
 (D) Initial Shut-In 1154 Circ Sub used 50 T-Pulled 1004
 (E) Second Initial Flow 487 Hourly Standby _____ T-Out 1319
 (F) Second Final Flow 908 Mileage 90 R/T 139.50 Comments _____
 (G) Final Shut-In 1151 Sampler _____
 (H) Final Hydrostatic 2020 Straddle _____
 Shale Packer _____ Ruined Shale Packer _____
 Extra Packer _____ Ruined Packer _____
 Extra Recorder _____ Sub Total 0
 Day Standby _____ Total 1664.50
 Accessibility _____ MP/DST Disc't _____
 Sub Total 1664.50

Approved By _____ Our Representative

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TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 46616

4/10

Well Name & No. Phillip #1-26 Test No. 5 Date 5/3/12
 Company Grand Mesa Operating Co Elevation 2869 KB 2864 GL
 Address 1700 N. Waterfront Pkwy Bldg #602 Wichita, KS 67206
 Co. Rep / Geo. Bob Schriber Rig Murpin #24
 Location: Sec. 26 Twp. 13E Rge. 3W Co. Gove State KS

Interval Tested 4150 - 4170 Zone Tested LKC "K"
 Anchor Length 20 Drill Pipe Run 4029 Mud Wt. 9.2
 Top Packer Depth 4145 Drill Collars Run 121 Vis 52
 Bottom Packer Depth 4150 Wt. Pipe Run 0 WL 8.8
 Total Depth 4170 Chlorides 3500 ppm System LCM 4#
 Blow Description IF: BOB @ 5 min.
ISI: 7" return
FF: BOB @ 5 min.
FSI: BOB @ 10 min

Rec	Feet of	%gas	%oil	%water	%mud
440	90	60	40		
60	gwocm	30	20	20	30
130	mcw (OIL SPOTS)			20	30
	2550 GIP				

Rec Total 630 BHT 129 Gravity 37 API RW .160 @ 49 °F Chlorides 69,000 ppm

(A) Initial Hydrostatic 2008 Test 1250 T-On Location 21:00 5/30
 (B) First Initial Flow 30 Jars 250 T-Started 21:23 "
 (C) First Final Flow 113 Safety Joint 75 T-Open 22:51 "
 (D) Initial Shut-In 1206 Circ Sub NA T-Pulled 2:36 5/31
 (E) Second Initial Flow 130 Hourly Standby _____ T-Out 05:19 "
 (F) Second Final Flow 255 Mileage 90 R/T 139.50
 (G) Final Shut-In 1201 Sampler _____
 (H) Final Hydrostatic 1947 Straddle _____
 Shale Packer _____
 Shale Packer _____
 Extra Packer _____
 Extra Recorder _____
 Day Standby _____
 Accessibility _____
 Sub Total 1614.50

Ruined Shale Packer _____
 Ruined Packer _____
 Extra Copies _____
 Sub Total 0
 Total 1614.50
 MP/DST Disc't _____

Approved By Bob Schriber

Our Representative [Signature]

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TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 46617

4/10

Well Name & No. <u>Phillip #1-26</u>	Test No. <u>6</u>	Date <u>6/1/12</u>
Company <u>Grand Mesa Operating CO</u>	Elevation <u>2869</u>	KB <u>2864</u> GL
Address <u>1700 N Waterfront Pkwy Bldg #602 Wichita, KS 67206</u>		
Co. Rep / Geo. <u>Bob Schriber</u>	Rig <u>Murfin #24</u>	
Location: Sec. <u>26</u> Twp. <u>135</u> Rge. <u>31 W</u> Co. <u>Grove</u> State <u>KS</u>		

Interval Tested <u>4374-4404</u>	Zone Tested <u>Fort Scott</u>
Anchor Length <u>30</u>	Drill Pipe Run <u>4248</u> Mud Wt. <u>9.0</u>
Top Packer Depth <u>4369</u>	Drill Collars Run <u>121</u> Vis <u>47</u>
Bottom Packer Depth <u>4374</u>	Wt. Pipe Run <u>0</u> WL <u>6.40</u>
Total Depth <u>4404</u>	Chlorides <u>2800</u> ppm System LCM <u>4</u>
Blow Description <u>IF: Bob @ 4 min.</u>	
<u>ISI: Bob @ 12 min.</u>	
<u>FF: Bob @ 6 min.</u>	
<u>FSI: Bob @ 22 min.</u>	

Rec <u>200</u>	Feet of <u>90 CM</u>	<u>30</u> %gas	<u>30</u> %oil	%water	<u>40</u> %mud
Rec <u>950</u>	Feet of <u>90</u>	<u>40</u> %gas	<u>60</u> %oil	%water	%mud
Rec _____	Feet of <u>1460' GIP</u>	%gas	%oil	%water	%mud
Rec _____	Feet of _____	%gas	%oil	%water	%mud
Rec _____	Feet of _____	%gas	%oil	%water	%mud

Rec Total <u>1150</u>	BHT <u>129</u>	Gravity <u>34</u>	API RW <u>—</u> @ <u>—</u> °F	Chlorides <u>—</u> ppm
(A) Initial Hydrostatic <u>2113</u>	<input checked="" type="checkbox"/> Test <u>1250</u>	T-On Location <u>10:15</u>		
(B) First Initial Flow <u>39</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>10:39</u>		
(C) First Final Flow <u>196</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>12:36 pm</u>		
(D) Initial Shut-In <u>1154</u>	<input checked="" type="checkbox"/> Circ Sub <u>N/A</u>	T-Pulled <u>4:21 pm</u>		
(E) Second Initial Flow <u>203</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>7:05 pm</u>		
(F) Second Final Flow <u>438</u>	<input checked="" type="checkbox"/> Mileage <u>90 R/T</u> 139.50	Comments _____		
(G) Final Shut-In <u>1152</u>	<input type="checkbox"/> Sampler _____	<input type="checkbox"/> Ruined Shale Packer _____		
(H) Final Hydrostatic <u>2077</u>	<input type="checkbox"/> Straddle _____	<input type="checkbox"/> Ruined Packer _____		
Initial Open <u>30</u>	<input type="checkbox"/> Shale Packer _____	<input type="checkbox"/> Extra Copies _____		
Initial Shut-In <u>45</u>	<input type="checkbox"/> Extra Packer _____	Sub Total <u>0</u>		
Final Flow <u>60</u>	<input type="checkbox"/> Extra Recorder _____	Total <u>1614.50</u>		
Final Shut-In <u>90</u>	<input type="checkbox"/> Day Standby _____	MP/DST Disc't _____		
	<input type="checkbox"/> Accessibility _____			
	Sub Total <u>1614.50</u>			

Approved By Robert Schriber

Our Representative [Signature]

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TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 46618

Well Name & No. Phillip #1-26 Test No. 7 Date 6/2/12
 Company Grand Mesa Operating Co Elevation 2869 KB 2864 GL
 Address 1700 N Water front Pkwy Bldg #602 Wichita, KS 67206
 Co. Rep / Geo. Bob Schrieber Rig Martin #24
 Location: Sec. 26 Twp. 13S Rge. 31W Co. Grave State KS

Interval Tested 4459 - 4493 Zone Tested Johnson
 Anchor Length 34 Drill Pipe Run 4341 Mud Wt. 9.0
 Top Packer Depth 4454 Drill Collars Run 121 Vis 54
 Bottom Packer Depth 4459 Wt. Pipe Run 0 WL 6.8
 Total Depth 4493 Chlorides 3500 ppm System LCM 4

Blow Description IF: Bob @ 2 1/2 min.
ISI: Bob @ 15 min.
FF: Bob @ 3 min
FSI: Bob @ 22 min

Rec	Feet of	%gas	%oil	%water	%mud
120	Grave				
1880 1280	1880 GIP go	30	70		
120	SMCD	5	55		40
1880	1880' GIP				

Rec Total 1400 BHT 135 Gravity 30 API RW - @ - °F Chlorides - ppm

(A) Initial Hydrostatic <u>2175</u>	<input checked="" type="checkbox"/> Test <u>1250</u>	T-On Location <u>9:08</u>
(B) First Initial Flow <u>68</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>9:38</u>
(C) First Final Flow <u>280</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>11:02</u>
(D) Initial Shut-In <u>1075</u>	<input checked="" type="checkbox"/> Circ Sub <u>used</u> <u>50</u>	T-Pulled <u>14:47</u>
(E) Second Initial Flow <u>293</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>18:22</u>
(F) Second Final Flow <u>547</u>	<input checked="" type="checkbox"/> Mileage <u>90 N/T x 2</u> <u>279</u>	Comments
(G) Final Shut-In <u>1043</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>2148</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer
	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Packer
Initial Open <u>30</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Extra Copies
Initial Shut-In <u>45</u>	<input type="checkbox"/> Extra Recorder	Sub Total <u>0</u>
Final Flow <u>60</u>	<input type="checkbox"/> Day Standby	Total <u>1904</u>
Final Shut-In <u>90</u>	<input type="checkbox"/> Accessibility	MP/DST Disc't
	Sub Total <u>1904</u>	

Approved By Robert Schrieber Our Representative [Signature]

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

Well Name: #1-26 Phillip
Location: 2180' FNL, 1707' FWL, 26-13S-31W, Gove County, Kansas
License Number: API: 15-063-22000 Region: Wildcat
Spud Date: 5/23/12 Drilling Completed: 6/4/12
Surface Coordinates: Lat:38.8967534
Long:-100.7359446
Bottom Hole Coordinates: Vertical hole

Ground Elevation (ft): 2851' K.B. Elevation (ft): 2856'
Logged Interval (ft): 3600' To: RTD Total Depth (ft): 4631'
Formation: Mississippian at RTD
Type of Drilling Fluid: Chemical

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GEOLOGIST

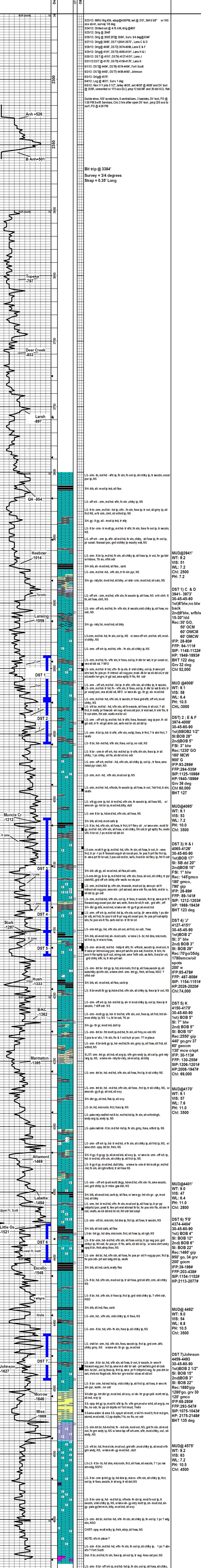
Name: Bob Schreiber
Company: Independent
Address: 268 NE 220 Rd
Holsington, KS 67544
620-786-9984

COMMENTS

Contractor: Murfin Drilling Company Rig #24
Pusher: Tony Martin
Surface Casing: 8 5/8" set at 210' w/165sx
Production Casing: 5 1/2" set at 4630',
Mud by: MudCo
DST's by: Trilobite Testing
Logs by: Weatherford (DL, CN-CD, ML)
RTD=4631'
LTD=4638'

FORMATION TOPS

FORMATION	SAMPLE TOPS		LOG TOPS	
	Depth	Datum	Depth	Datum
Stone Corral	2330'	+526	2332'	+524
B/Stone Corral	2355'	+501	2356'	+500
Heebner Shale	3870'	-1014	3877'	-1021
Lansing	3915'	-1059	3919'	-1063
Muncie Creek Shale	4068'	-1212	4074'	-1218
Stark Shale	4153'	-1297	4159'	-1303
Hushpuckney Shale	4189'	-1333	4195'	-1339
Marmaton	4251'	-1395	4263'	-1407
Upper Fort Scott	4354'	-1498	4364'	-1508
Little Osage Shale	4377'	-1521	4384'	-1528
Excello Shale	4404'	-1548	4411'	-1555
Johnson Zone	4483'	-1627	4480'	-1624
Morrow	4502'	-1646	4506'	-1650
Mississippian	4525'	-1669	4532'	-1676
RTD	4631'	-1775		
LTD			4638'	-1782



RTD 4631', -1775
LTD 4638', -1782

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
Thomas E. Wright, Commissioner

Sam Brownback, Governor

August 10, 2012

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

Re: ACO1
API 15-063-22000-00-00
PHILLIP 1-26
NW/4 Sec.26-13S-31W
Gove County, Kansas

Dear Production Department:

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

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

Respectfully,
Ronald N. Sinclair