



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1077669
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: _____

1077669

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

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Grand Mesa Operating Company
Well Name	G & M 1-25
Doc ID	1077669

All Electric Logs Run

CPDCN Micro Log
AI Shallow Focused Elect. Log
Micro Log
Dual Receiver Cmt Bond Log

Form	ACO1 - Well Completion
Operator	Grand Mesa Operating Company
Well Name	G & M 1-25
Doc ID	1077669

Tops

Name	Top	Datum
Stone Corral	2522	+487
Bs/Stone Corral	2543	+466
Heebner	3998	-989
Lansing	4043	-1034
Muncie Creek	4188	-1179
Stark	4267	-1258
Marmaton	4364	-1355
Excello	4516	-1507
Mississippian	4627	-1618
LTD	4709	

JOB LOG

SWIFT Services, Inc.

DATE 2-16-12 PAGE NO. 7

CUSTOMER *Grand Mesa* WELL NO. *#1-25* LEASE *GM* JOB TYPE *2-stage* TICKET NO. *21407*

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	0500							on loc w/FE
								RTD 4709'
								5" x 15.5" x 4707' x 20'
								Cent. 1, 3, 5, 7, 9, 11, 13, 15, 51
								Bank 4, 52
								D.V. 52 @ 2529'
								Scratchers on 4-5
								Last 5jts out
	0600							start FE.
	0820							Break Circ.
	0840	5	0			200		start Preflush ^{500 gal Mud Flush} 20 bbl KCL flush
	0846	6	32/0			250		Start 175 sks EA-2 Cement
	0853		42					End Cement
								Wash Pk / Drop LD Plug
	0857	6	0			200		start Displacement (water)
	0907	6	60			200		(mud)
	0909	5	71			250		catch Cement
	0917		112			750 1100		Land Plug
								Release Pressure / Flout Held
	0920							Drop opening Plug
	0935					1100		Open D.V.
								Circ 2 hrs
	1150	2.5	7/5					Plug RH+MH 30/15 sks SMD
	1200	5	0			150		start KCL flush
	1205	6	20/0			150		Start Cement 255 sks SMD
	1230		150					End Cement
								Drop Closing Plug
	1234	6	0			150		start displacement
	1237	6	18			200		catch Cement
	1239	5	27			250		Circ Cement
	1245		60			450 1500		Land Plug
								closed D.V.
								Release Pressure (closed)

Thank you Nick, Josh F, Doug & Blaine

Acidizing Report

PRO-STIM CHEMICALS

631162

Date 3-5-12

Customer: <i>Grand Mesa</i>	Pro-Stim Chemical Yard: <i>Dighton</i>	Pro-Stim Number: <i>AG</i>
Well Name & Number: <i>GM 1-25</i>	Field:	Formation: <i>Spot</i> 7.5 barrel
County: <i>Goose</i> State: <i>KS</i>	BHT: YD	Interval:

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

Job Pumped Via: Tubing <input type="checkbox"/> Casing <input type="checkbox"/> Annulus <input type="checkbox"/> CTU <input type="checkbox"/> Combination <input type="checkbox"/>	Plug Depth	Packer Depth
Casing Size: GRD WT Depth	Tubing Size: GRD WT Spot	
Casing Vol. Tbg Vol	Ann Vol OH Vol	Total Displacement
Maximum Pressure Tubing	Casing Proposed Pump Time	AOL Leave Loc

Special Instructions:

Treatment Record

Time	Type Fluid	Rate BMP	Increment Vol Bbls	Cum Vol Bbls	Pressure		Observations
					Tubing	Casing	
							Safety Meeting
<i>minutes</i>							Prs Test to _____ psi
<i>1</i>	<i>Acid</i>		<i>Spot</i>	<i>7.5</i>			<i>spot</i>
<i>15</i>	<i>Acid</i>	<i>2.6</i>		<i>8.8</i>	<i>40</i>		<i>start to load</i>
<i>17</i>	<i>Acid</i>	<i>2.6</i>		<i>12</i>	<i>40</i>		<i>Acid gone</i>
<i>24</i>	<i>Flush</i>	<i>1</i>		<i>29.1</i>	<i>40</i>		<i>tried to load</i>
<i>26</i>	<i>Flush</i>	<i>1.5</i>		<i>31.6</i>	<i>250</i>		
<i>29</i>	<i>Flush</i>	<i>1.7</i>		<i>37.4</i>	<i>300</i>		<i>max</i>
<i>31</i>	<i>Flush</i>	<i>1.7</i>		<i>40</i>	<i>300</i>		<i>done</i>

Treatment Synopsis

Avg Inj Rate: Fluid BPM	Total Injected: H2O <i>28</i> Acid <i>12</i> Oil
Treating Prs: Max <i>300</i> Final Avg.	ISIP <i>6AC</i> 5'SI 10'SI 15'SI
Customer Representative	Pro-Stim Supervisor: <i>Shannon M.</i>

Pro-Stim Chemicals, LLC

P.O. Box 25
Cheyenne Wells, CO 80810

MAR 19 2012

Invoice

Date	Invoice #
3/12/2012	63162

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

Ship To

Requested By	Terms	Sales Rep.	Ship	Lease
	Net 30	T P	3/5/2012	G & M 1-25

Quantity	Item Code	Description	Price Each	Amount
500	15% HCl ACID	GALLONS	[REDACTED]	[REDACTED]
10	RENAB	GALLONS		
16	S-3000	GALLONS		
2	S-262	GALLONS		
2	AC-307	GALLONS		
1.5	AI-150	GALLONS		
30	KCL BIOCID - 2%	BRLS		
1	DUMP JOB			
4	TRUCK TIME	HOURS		
		Sales Tax - GOVE CO.		

			Total	[REDACTED]
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Phone #	Fax #	E-mail
719-767-8071	719-767-5925	prostim@hotmail.com

**GRAND
MESA****OPERATING COMPANY**

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

1700 N. WATERFRONT PARKWAY
BLDG. 600
WICHITA, KANSAS 67208-5514

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

Well Name: #1-25 G & M
Location: 1050'FNL, 1290' FWL, 25-12S-32W, Logan County, Kansas
License Number: API: 15-109-21074 Region: Wildcat
Spud Date: 2-7-12 Drilling Completed: 2-15-2012
Surface Coordinates: Lat: 38.98656
Long: -100.8274152
Bottom Hole Coordinates: Vertical hole
Ground Elevation (ft): 3004 K.B. Elevation (ft): 3009
Logged Interval (ft): 3600' To: RTD Total Depth (ft): 4710'
Formation: Mississippian at RTD
Type of Drilling Fluid: Chemical

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

GEOLOGIST

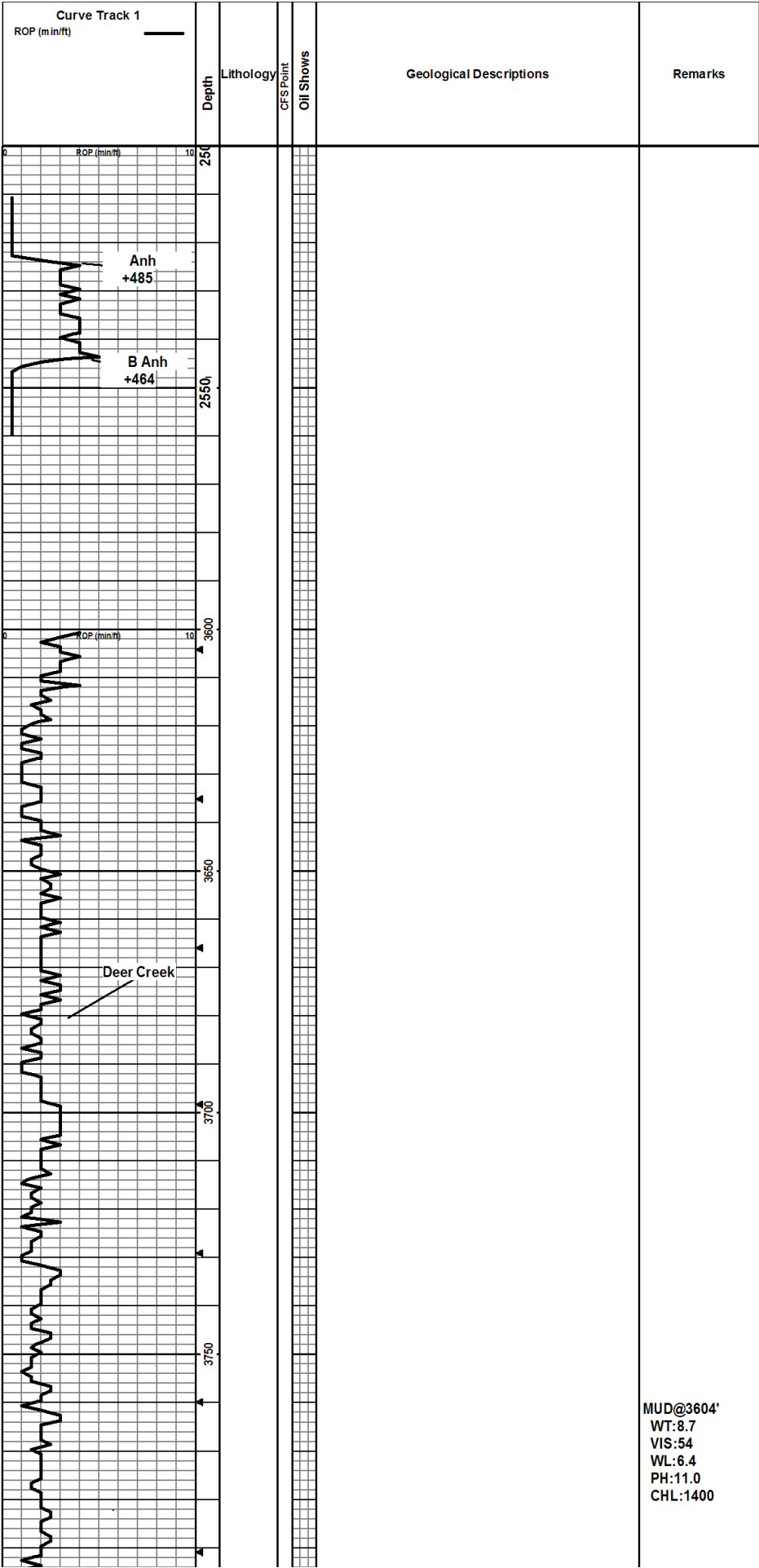
Name: Bob Schreiber
Company: independent
Address: 268 NE 220 Rd
Hoisington, KS 67544
620-653-7691

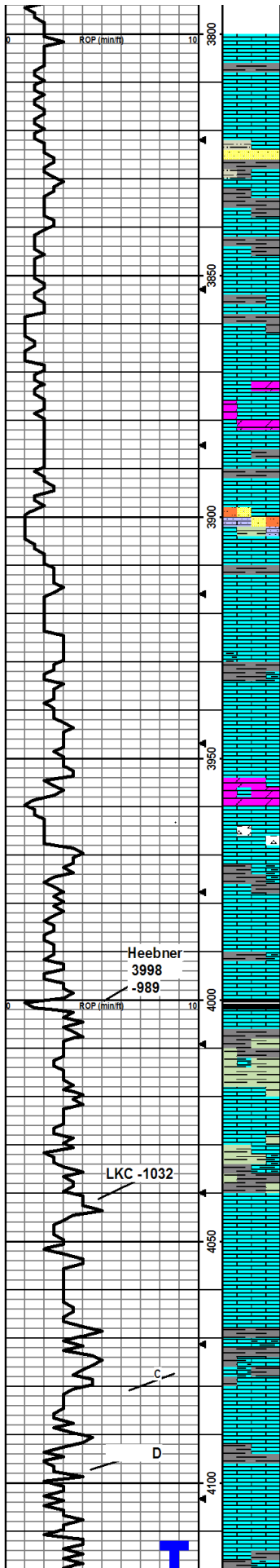
COMMENTS

Contractor: Murfin Drilling Company Rig #24
Pusher: Tony Martin
Surface Casing: 8 5/8" set at 224' w/165sx
Production Casing: .5 1/2" set @ 4707'
Mud by: MudCo
DST's by: Testing Trilobite
Logs by: Weatherford (DIL, CN-CD, ML,SONIC)
RTD=4710'
LTD=4709'

FORMATION TOPS

FORMATION	SAMPLE TOPS		LOG TOPS	
	Depth	Datum	Depth	Datum
Stone Corral	2524'	+485'	2522'	+487'
B/Stone Corral	2545'	+464'	2543'	+466'
Heebner Shale	4000'	-989'	3998'	-989'
Lansing	4041'	-1032'	4043'	-1034'
Muncie Creek Shale	4190'	-1181'	4188'	-1179'
Stark Shale	4271'	-1262'	4267'	-1258'
Hushpuckney Shale	4303'	-1294'	4302'	-1293'
BKC	4328'	-1319'	4328'	-1319'
Marmaton	4360'	-1351'	4364'	-1355'
Little Osage Shale	4493'	-1484'	4392'	-1483'
Excello Shale	4518'	-1509'	4516'	-1507'
Johnson Zone	4492'	-1583'	4490'	-1581'
Morrow	4513'	-1604'	4614'	-1605'
Mississippian	4627'	-1618'	4710'	-1618'
RTD	4710'	-1701'		
LTD			4709'	-1700'





LS- crm - off wh, md hd -tr hd, fn xln, grny, foss(foram), ool ip, grd sfr
mod chiky, tr ool, NS

SH- dkr gy, mod ind, sli blkly

LS- crm - lt br, md hd- hd, vfn - fn xln, foss, ool ip, sli chiky ip, NS

SS- lt gy- crm, mod - sli ind, fn- vfn grn, stly ip, sli arg ip, tr sli foss/ sli
calc, NS

SH- gy- dkr gy, sli - m od ind, sli fss, sli foss w/ sme LS- tn- crm ip, m d
hd, vfn -fn xln, mod ool ip, tr foss ip, grd off wh, sft, v/ chiky, NS

SH- lt gy- gy, sli- mod ind, sli blkly

LS- crm - off wh, md hd, v/ fn- fn xln, ool ip, sli chiky, grd sfr, chiky, tr
gs bbl, NSO

LS- off wh, sft v/ chiky, NS

LS- lt br, m d hd, fn xln, foss ip, tr secxln, mod dol ip, NS

SH- blk- tr dk gy, sli - m od ind sli carb

LS- crm - tnt br- tr tnt gy, m d hd - hd ip, vfn xln, sme fn- m d secxln, sli
foss, tr ool, tr gas bbl, NSO

SS- v lt gy, mod ind, vfn grn, stly ip, sli calc, sli arg ip, NS

SH- lt rst/ br, sli ind, sli- mod sndy, fn- vfn grn, stly ip, NS

LS- crm - tr off wh, md hd- tr sfr, ool sli foss, sli chiky, tr pr vug-
foss cst por, tr spty/ prt stn md br, vsfo, fw pcs w/ sli dd- ddoil, md br
-dkr br o

LS- crm - off wh ip, m d hd- hd, vfn- fn xln ip, tr ool, foss, sli dol, tr
secxln, tr pyr incl, NS

LS- crm - tnt br ip, md hd -tr hd, vfn - fn- tr m d xln, foss ip, sli ool, tr
blk res stn, NSO, w/ sme ls- off wh- crm, sfr- m d hd, fn xln, NS

LS- lt br- tr br, hd- m d md hd ip, tr sli frct, sli foss, tr secxln, NS

DOL- crm- lt br, m d hd- hd ip, fn xln, grd calc ip, sli foss ip, ool, dol, NS

LS- lt br - crm, hd - m d hd, v/ fn xln, foss ip, grd sfr ip, chiky, tr foss &
ool, NS, w/ sme chrt- crm, frct sli foss NS

LS- crm - tnt br, hd- m d hd, v/ fn xln, foss ip, grd sfr ip chiky tr foss &
ool, NS

LS- crm - off wh, md hd- sfr ip, v/ fn xln, ool ip, grd mod chiky, sli arg
ip NS

SH- blk, sli- mod ind, sli fss, mod carb

LS- crm - lt br- tnt gy, m d hd, fn xln, sli foss, sli arg ip NS

SH- lt gy- rsty/ orng- tr m rn- tnt gr, sli- mod ind, mshy wet ip, w/ tr fn
grn sndy ls, lt gy, ls NS

LS- crm - off wh, m d hd, fn xln, ool ip foss ip, tr secxln, tr intrprtcl por,
tr prt sat, 1 pc sat, sme grd off wh, sft chiky/ cly, ssfo, m d- m st dk br o,
sli dd- ddp, tr orng ool, tr foss, chrt, mott opq, tr stn on edg, no odr,
no flo

LS- crm, md hd- sli sfr ip, v/ fn xln, ool, grd off wh, v/ chiky sft, LS
NS

LS- crm, m d hd - tr hd, vfn xln, sli ool ip, sli chiky ip NS

LS- crm, m d hd- hd ip, vfn xln tr secxln, sli foss, tr ool ip, NS

SH- dk gy- rsty/ br, mod ind sli blkly, dull

SH- gy- rsty, sli- mod ip,

LS- crm - off wh ip, m d hd- sli sfr ip, vfn xln, ool ip, tr foss, secxln ip,
tr intrprtcl por, 1 pc stn/ vsfo, no odr

SH- lt gy -lt gr, mod - sli ind, sli wxy ip

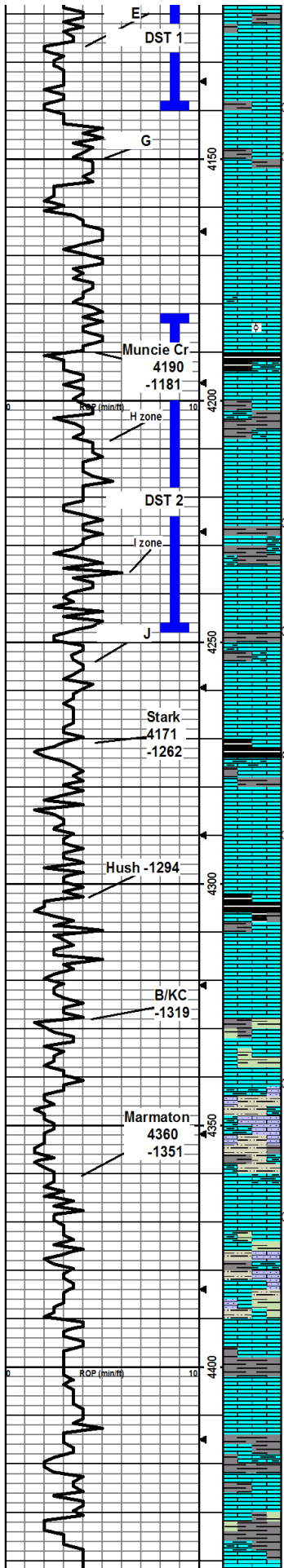
LS- off wh- crm, md hd- tr hd, ool ip, sli chiky, grd sfr, mod chiky, NS

LS- crm, m d hd - hd ip, vfn xln, ool ip, foss ip (frmn), sli frct ip, NS,
grd off wh, sfr, chiky ip NS

STRAP
board 4165.58
strap 4166.87
strap long 1.29

MUD@4075'
WT:8.9
VIS:67
WL:5.6
PH:10.5
CHL:1500

DST 1) E
4113-4139'
30-45-45-60
1) 2" bl,
2) 2 1/2"
Rec:170' MCW
O top tool
IFP:21-65#
FFP:68-97#
SIP:1278-1260#
HP:2046-2025#



LS- crm - tnt br, md hd- hd-tr sfrtr, vfn xln, fn secxln ip, sli frct ip, fw pcs pr- fr vug por, sso, ft- md br o, sli dd- flky ip, tr wk flo, sli slw fr-sli gd cut, fr- mod gd odr

LS- crm - tnt br ip, md hd- hd ip- tr sfrtr, vfn xln, sli frct ip, sli foss ip, tr sli ool, 2 pcs stn- prt sat, 1 pc so, sli flmy, w/ pr vug por

SH- gy- dkr gy, sli ind, sli wxy ip, v/ sli wxy ip

LS- crm - tnt br ip, md hd- hd ip, vfn- fn xln, sli grny ip, ool, sli foss ip, sli chky ip, NS, grd LS- of wh, mod chky, sfrtr, NS

LS- LS- crm - off wh ip, hd - md hd ip, vfn xln, sli frct, NS

LS- crm - tnt gy, md hd -hd, vfn xln, tr sli frct, tr sli chky NS

Sh- blk, sli- mod ind, carb, sli fess ip

LS- crm- lt br, vfn- fn xln, sli ool, tr pr oocst- vug por, fr odr, 3-4 pcs flmy ltr oil, ? vsso, tr wk flo LS- crm, md hd, fn xln, fn ool, grny, pr introol por, fr- gd odr, vsso lt br- tr md br lwr grv ool, tr wk flo, tr wk- fr sli slw cut

SH- dk gy- blk ip, sli- mod ind, sli carb ip

LS- crm- off wh, md hd- tr hd-tr sfrtr, vfn xln, sli- mod chky ip, foss ip, tr secxln, tr stn- prt sat, (2 pcs, chky, so lwr grv, (3 pcs no chlk, lt br stn -mst sat, introol por, wk- fr cut, sso)

LS- crm, md hd, sli chky ip, tr prt stn, ?nso, wisme ls- lt br- tnt gy, hd -dms ip, tr frct, NS

SH- gy- tnt gr, sli- mod ind, stly/ sndy ip

LS- crm, md hd- hd ip, vfn xln, tr frct, fn ool, tr frm n, 1 pc sfo, no vis por, grd sli chky, off wh, sli ool ip, 2 pc edg stn, vsso, sli lwr grv no odr

LS- crm - off wh, md hd- tr hd- tr sfrtr, vfn xln, sli chky ip, ool ip, NS

SH- lt gy- gy- tnt gr, sli- mod ind, sli blk, stly- sli wxy ip

LS- crm - tr lt br, md hd- hd, vfn xln, tr foss, fn secxln ip, sli ool ip, tr frct, v/ sli chky ip, tr edg stn, ? fo, tr pr vug- sli oocst- intrprct por, tr stn- prt sat, vsso, md br, sli lwr grv, vs sli dd o, no odr/ fr odr bst smpl w/ sme ls- grd off wh sli sfrtr, sli chky, 1 pc so ? abv

SH- blk, sli- mod ind, blk- sli fess, sli- mod ind

LS- lt br- br, hd, vfn xln, foss ip, NS

LS- crm - off wh, md hd, vfn xln, v/ sli chky, fn ool ip, tr introol por, tr stn- intrprct sli sat, vsso lwr grv, tr flky sli dd ool, / 1 pc sli shky sli oocst wk cut, wk- fr flo, sli ddo, grd off wh, sfrtr, chky, is NS

LS- 2-3 pcs, v/ lt gy, md hd, vfn xln, ool, oocst por, sfo, sli lwr grv, 2 pcs lt br sli grny, lt o, no flo,

LS- crm- off wh, md hd- hd ip, vfn xln, ool ip, grd sfrtr chky, 1-2 pcs, fr flo, flmy o, sli vug por

SH- blk, sli- mod ind, carb, sli fess ip

LS- lt br- br, md hd- hd, vfn xln, tr sli chky, tr frct, ool ip NS

LS- crm - tnt br & gy ip, md hd- hd ip, tr sfrtr, vfn xln- fn xln, tr frct, mod ool ip, sli foss, grd sli chky ip, NS

LS- crm - tnt gy, hd md hd, vfn xln, fn ool ip, frct ip, NS

SH- gy- dkr gy, mod ind, & sme sh- lt gy- lt gr- lt br- rsty- mott ip, sft wet ip, sli ind

LS- crm, md hd, vfn xln, tr ool, chky ip, grd stly/ sndy ip NS

LS- rsty- crm- tnt gy, md hd, vfn xln, tr ool, sli chky, grd sh- pale rsty, mod hd- sfrtr ip, stly/ sndy, sli calc w/ sme sh- lt gr- gy, sli ind, wxy ip

SH- lt gy- gy- tnt gr- rst, mod ind, blk- splntry ip, sli dull, grd to pale rst, sli mod calc, stly ip

LS- crm - mott lt br ip, md hd- hd ip, vfn xln, frct ip, sli chky ip, tr ool, sli foss NS

LS- crm - tnt br ip, hd, vfn xln, sli subchky, foss, sli secxln ip, ool ip, NS

LS- crm - tnt br, hd, vfn xln, tr ool, grd off wh, sfrtr chky is NS, w/ sme sh- rsty- tnt org ip, mod ind sli stly ip

LS- rsty, hd fn xln, sli frct, arg, grd calc, mod ind, blk rsty sh, w/ intrbd, ls- crm, hd, bl/ fn xln, frct ip, ool ip NS

LS- crm - tnt gy - mott/veins rsty/ m rn, md hd- hd, fn xln, sli frct sli arg ip, tr gs bbl, sme yel hd fn xln is, NS

SH- gy - tnt prpl ip, mod ind blk, w/ tr blk carb, sli fess sh

LS- crm, md hd- hd, vfn xln, sli chky ip, sli foss, sli frct ip, NS

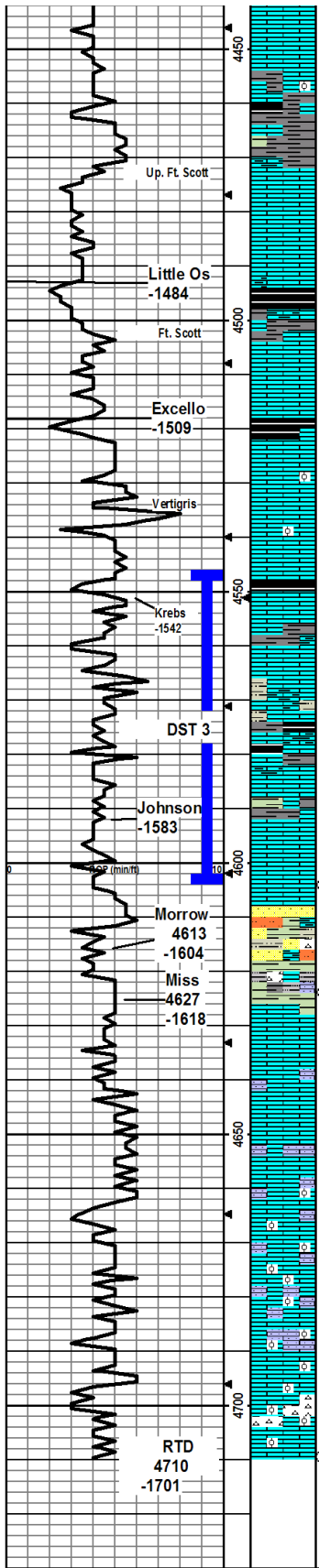
SH- gy- lt gy- tnt gr ip, mod ind, sli grny ip, sli- mod lmy ip, tr frct, tr arg gy ls, NS

CHL: 63,000
BHT: 115 deg

MUD@4149
WT: 9.1
VIS: 58
WL: 6.4
PH: 10.5
CHL: 2500

DST 2) H & I
4182-4248'
1) 2" blw, no bb
2) 4.5" blw, srf bb
Rec: 110' GIP
190' OCM
15% g, 35% o
.50% m
IFP 40-88#
FFP 91-116#
SIP 1336-1329#
HP 2053-2026#
BHT 111 deg

MUD@ 4270'
WT: 9.2
VIS: 54
WL: 7.2
PH: 10.0
CHL: 2400



LS- lt br - crm, hd- md hd, v fn xln, mod ool ip, sli foss, tr pr introol por, fnt odr, tr prt stn, vsso md - dk br oil, sli dd ip, grd to crm, sli sfr, sli chky sli foss ip, NS

SH- gy- lt gy ip w/ tnt gr ip, sli - mod ind, sli fiss ip

LS- crm - tnt br, md hd- hd, v fn xln, oo ip tr frct, 3 pc mod tt, vsso, sli dd p, lwr grv dkr br oil, w/ sme chrt

LS- crm - lt br, md hd- hd, sli frct, sli chky ip, tr ool, NS

SH- blk, sli- mod ind, carb ip sli fiss ip

LS- lt br - crm ip- tr mott ip, hd, v fn xln, foss ip sli ool ip, NS

LS- crm - tnt gy & br ip, hd- md hd ip, micro xln, mod ool ip, tr imbd pyr, grd v sli - sli chky ip, crm ls, NS

SH- blk, mod- sli ind ip, sli carb, sli blk- fiss ip

LS- crm - tnt gy ip, hd, micro xln tr sli foss, tr sli frct NS, w/ tr lt br - gy chrt, micro foss frsh, NS

LS- lt br - crm ip, hd, vfn xln, grd to off wh sfr, sli chky ls, NS, w/ sme lt br- br, frsh, shrp, chrt, NS

LS- lt br - lt gy - gy- mott crm ip, hd, v fn xln, sli frct ip, foss ip, fnt odr, NSO w/ 1 pc lt br, ool sfo, sli shwr, no flo, fr odr bst smpl, ? in place

LS- lt - crm, hd, v fn xln, sli foss NS, grd off wh, sli- mod chky sfr, NS

LS- lt br - crm, md hd- hd, vfn xln, sli foss, sli chky ip NS

SH- dk gy- gy- tr blk, sli- mod ind, sli wxy- sli vit, sli fiss ip

LS- lt br, hd dns, vfn xln, fn foss ip, sli frct NS

SH- lt gy- gy- tnt gr, sli- mod ind, sly ip

LS- lt br - br, hd -tr md hd, microxin sli frct, tr foss tr msty pr -(1-2 pcs) fossct- vug por, fw pcs prt dk brn stn- 2 pcs dk br- br sat, no flo, fnt odr, vs- sfo sli dd, prt dd oil, tr fr- gd cut, grd crm - off wh, sfr sli chky, tr stn ls

LS- lt br, hd, vfn xln sli foss, frct ip tr secxln, 1-2 pcs sfo

SS- off wh, mod ind, fn- vfn grn, w srt, no flo, tr gs bbl, NSO, w/ sme sh- yel- lt gr- tr mrr, sli mod ind, blk ip, wxy ip ?

SH- yel- mott gr ip, sli- mod ind, fn grn sndy ip w/ sme ss- mod chn, mod ind, fn grn, ? fn semi clr drpits oil, no flo, fo odr

LS- crm - tn, hd- dns, microxin, tr sli frct ip, sm th, grd yel/ sli arg, grd sli- mod calc, well ind sh, w/ tr off wh- crm, md hd- hd, sli chky, sli ool fn grn sndy NS

LS- crm - tn- tnt yel, hd, micro- vfn xln, frct ip, w/ intrbd off wh ip, sli chky, md hd- hd, fn xln, NS

LS- lt br, hd dns, microxin, tr fn secxln, tr ool tr grd crm, mod ool ip, tr sli sndy, sli chky ip, ls, NS

LS- lt br, hd, v fn xln, mod- vool ip, tr glauc, grd crm, md hd, fn xln ool, tr fn grn snd, sli tr mod chky, no odr, no flo, tr gs bbl, NS

LS- crm - tnt br- off wh, md hd- hd, vfn- fn ip xln, sli chky ip, tr mod - sme v sli- sli fn grn sndy, mod- tr vool, NS

LS- crm - off whip, hd- md hd ip, vfn- fn xln, subchky ip sndy, sli- mod ool no flo, tr gs bbl, NSO w/ sme sh- gy- dkr gy ip tr tnt gr, mod- w/ ind, blk, dull ip

LS- v lt br, hd- tr md hd, v fn xln ool ip, sli foss, NS w/ sme chrt- off wh - crm, mott ip, sli foss, ool, shrp, frct NS

MUD @4572'
 WT:9.2
 VIS:53
 WL: 4.8
 PH: 11.0
 CHL: 2000

DST5) Johnson
 4547-4604
 30-45-60-90
 1st) BOB 4"
 Sl) BOB 34
 2nd) BOB 4"
 Sl) 5" blw Rec:
 820' gip
 1770' gsmco
 30% g, 65% o
 120' gmco
 25% g, 40% o
 IFP: 96-411#
 FFP: 418-747#
 SIP: 113-1094#
 HP: 2286-2236#
 BHT: 129deg

MUD @4624'
 WT:9.3
 VIS:53
 WL: 6.4
 PH: 10.5
 CHL: 3000



DRILL STEM TEST REPORT

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

1700 N Waterfront Pkwy
Bldg 600
Wichita KS 67206

ATTN: Bob Schrieber

G&M #1-25

25-12s-32w Logan,KS

Start Date: 2012.02.11 @ 15:27:00

End Date: 2012.02.11 @ 22:52:45

Job Ticket #: 44421 DST #: 1

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

Printed: 2012.02.23 @ 16:04:52



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

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

25-12s-32w Logan,KS

G&M #1-25

Job Ticket: 44421

DST#: 1

Test Start: 2012.02.11 @ 15:27:00

GENERAL INFORMATION:

Formation: **LKC E**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 17:48:15

Time Test Ended: 22:52:45

Test Type: Conventional Bottom Hole (Initial)

Tester: Bradley Walter

Unit No: 53

Interval: 4113.00 ft (KB) To 4139.00 ft (KB) (TVD)

Reference Elevations: 3009.00 ft (KB)

Total Depth: 4139.00 ft (KB) (TVD)

3004.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8677

Inside

Press @ Run Depth: 96.77 psig @ 4116.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.02.11

End Date:

2012.02.11

Last Calib.:

2012.02.11

Start Time: 15:27:15

End Time:

22:52:45

Time On Btm:

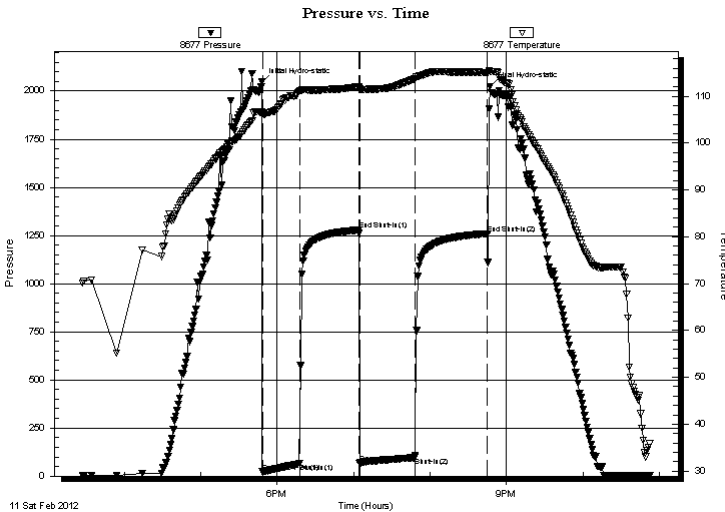
2012.02.11 @ 17:48:00

Time Off Btm:

2012.02.11 @ 20:47:15

TEST COMMENT: IF: 2" blow.
 IS: No retrun.
 FF: 2 1/2" blow.
 FS: No return.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2046.29	106.69	Initial Hydro-static
1	21.44	106.14	Open To Flow (1)
30	64.86	110.90	Shut-In(1)
76	1278.44	111.94	End Shut-In(1)
77	68.15	111.53	Open To Flow (2)
120	96.77	113.71	Shut-In(2)
177	1260.04	115.10	End Shut-In(2)
180	2024.90	115.28	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
170.00	mcw 20m 80w (oil puddle in tool)	1.07

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

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

25-12s-32w Logan,KS

G&M #1-25

Job Ticket: 44421

DST#: 1

Test Start: 2012.02.11 @ 15:27:00

Tool Information

Drill Pipe:	Length: 3991.00 ft	Diameter: 3.20 inches	Volume: 39.70 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: 124.00 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose: 64000.00 lb
			<u>Total Volume: 40.31 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	29.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	4113.00 ft			Final 51000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	26.00 ft			
Tool Length:	53.00 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			4087.00	
Shut In Tool	5.00			4092.00	
Hydraulic tool	5.00			4097.00	
Jars	5.00			4102.00	
Safety Joint	2.00			4104.00	
Packer	5.00			4109.00	27.00 Bottom Of Top Packer
Packer	4.00			4113.00	
Stubb	1.00			4114.00	
Perforations	2.00			4116.00	
Recorder	0.00	8677	Inside	4116.00	
Recorder	0.00	8522	Inside	4116.00	
Perforations	20.00			4136.00	
Bullnose	3.00			4139.00	26.00 Bottom Packers & Anchor

Total Tool Length: 53.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Grand Mesa Operating Co.

25-12s-32w Logan,KS

1700 N Waterfront Pkwy
Bldg 600
Wichita KS 67206
ATTN: Bob Schrieber

G&M #1-25

Job Ticket: 44421

DST#: 1

Test Start: 2012.02.11 @ 15:27:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

63000 ppm

Viscosity: 67.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.58 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1500.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
170.00	mcw 20m 80w (oil puddle in tool)	1.067

Total Length: 170.00 ft Total Volume: 1.067 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

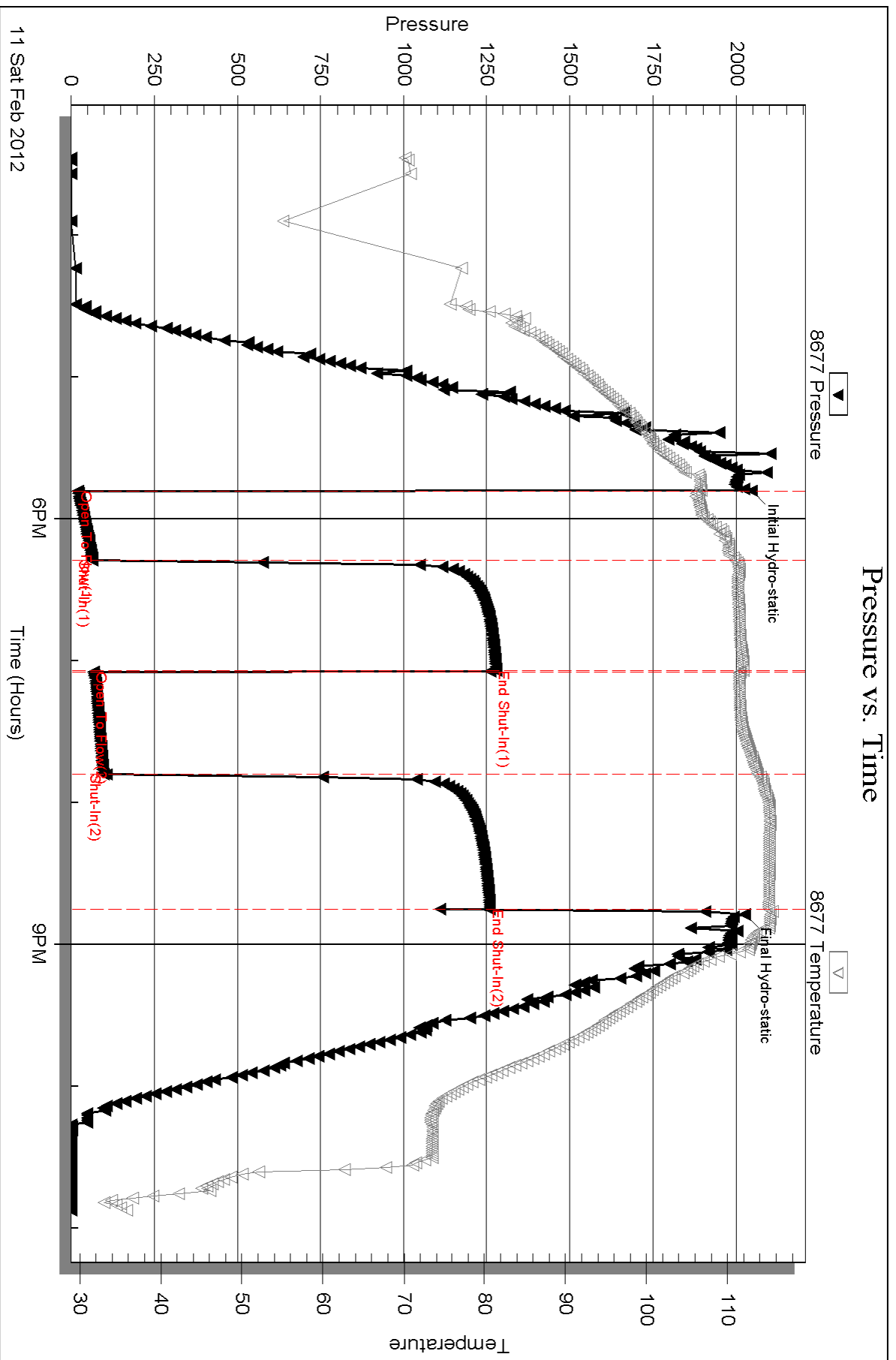
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: rw is .130 @ 59F = 63000ppm

Pressure vs. Time



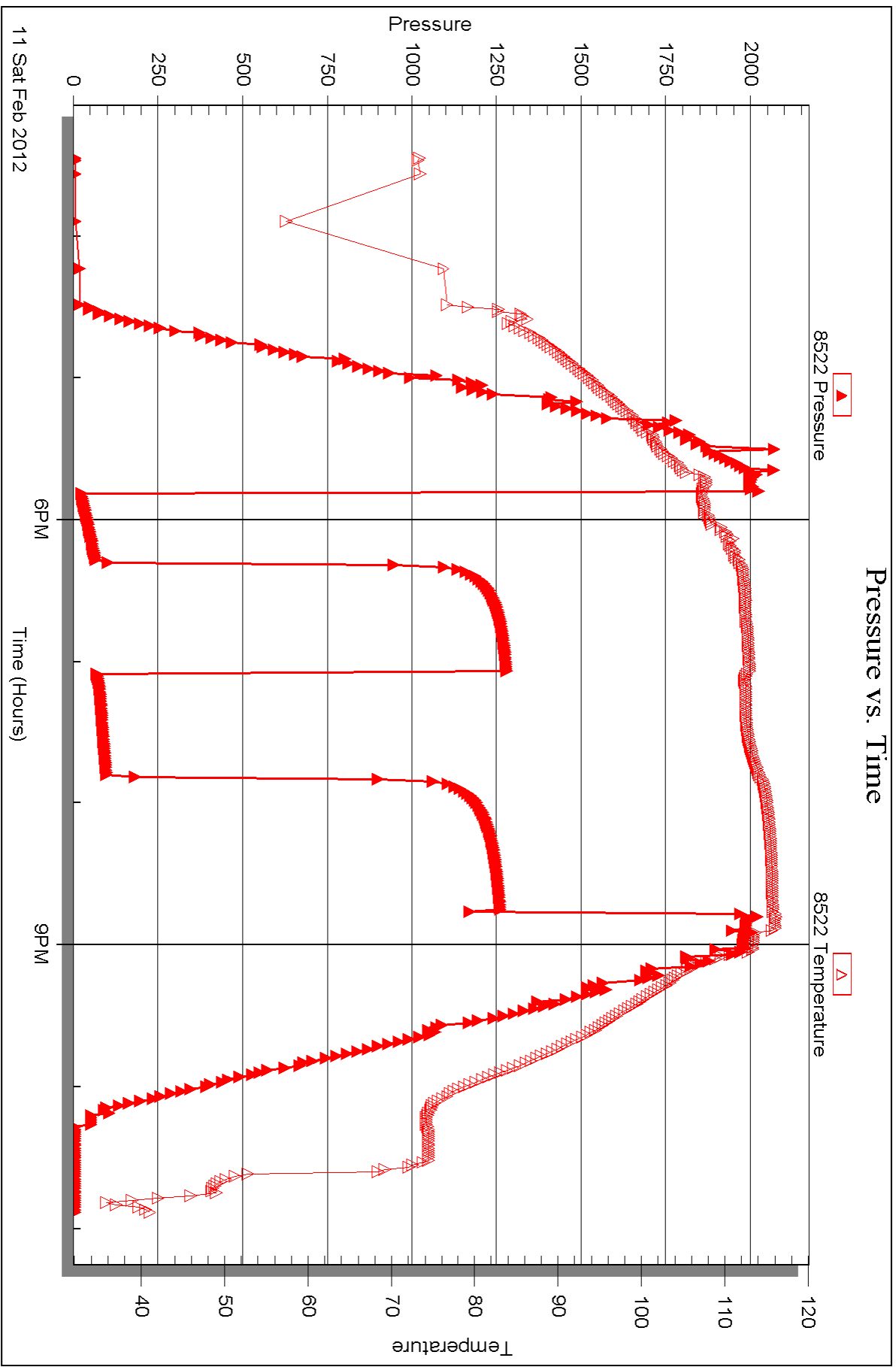
Serial #: 8522

Inside

Grand Mesa Operating Co.

G&M#1-25

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 Schrieber

G&M #1-25

25-12s-32w Logan,KS

Start Date: 2012.02.12 @ 16:18:00

End Date: 2012.02.12 @ 23:52:45

Job Ticket #: 44422 DST #: 2

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

Printed: 2012.02.23 @ 16:04:16



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

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

25-12s-32w Logan,KS

G&M #1-25

Job Ticket: 44422

DST#: 2

Test Start: 2012.02.12 @ 16:18:00

GENERAL INFORMATION:

Formation: **LKC H-I**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Reset)
 Time Tool Opened: 18:20:30
 Tester: Bradley Walter
 Time Test Ended: 23:52:45
 Unit No: 53
 Interval: **4182.00 ft (KB) To 4248.00 ft (KB) (TVD)**
 Reference Elevations: 3009.00 ft (KB)
 Total Depth: 4248.00 ft (KB) (TVD)
 3004.00 ft (CF)
 Hole Diameter: 7.88 inches
 Hole Condition: Good
 KB to GR/CF: 5.00 ft

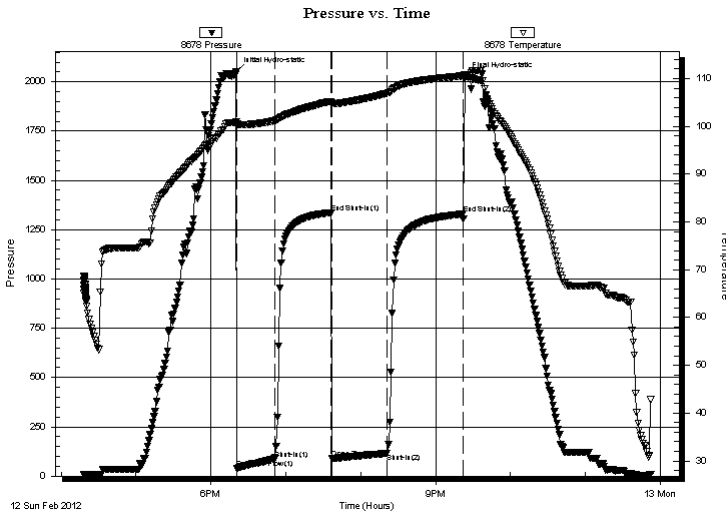
Serial #: 8678

Inside

Press @ Run Depth: 115.90 psig @ 4185.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2012.02.12 End Date: 2012.02.12 Last Calib.: 2012.02.12
 Start Time: 16:18:01 End Time: 23:52:45 Time On Btm: 2012.02.12 @ 18:20:15
 Time Off Btm: 2012.02.12 @ 21:23:45

TEST COMMENT: IF: 2 " blow .
 IS: No return.
 FF: 4 1/2 " blow .
 FS: No return.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2053.25	100.91	Initial Hydro-static
1	40.04	100.09	Open To Flow (1)
31	87.67	101.17	Shut-In(1)
76	1336.48	105.23	End Shut-In(1)
77	90.58	104.83	Open To Flow (2)
121	115.90	106.91	Shut-In(2)
182	1328.98	110.59	End Shut-In(2)
184	2026.23	110.85	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
190.00	gocm 15g 35o 50m	1.27
0.00	190' 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.

25-12s-32w Logan,KS

1700 N Waterfront Pkwy
Bldg 600
Wichita KS 67206
ATTN: Bob Schrieber

G&M #1-25

Job Ticket: 44422

DST#: 2

Test Start: 2012.02.12 @ 16:18:00

Tool Information

Drill Pipe:	Length: 4051.00 ft	Diameter: 3.20 inches	Volume: 40.30 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: 124.00 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose: 67000.00 lb
			<u>Total Volume: 40.91 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	4182.00 ft			Final 51000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	66.00 ft			
Tool Length:	93.00 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			4156.00	
Shut In Tool	5.00			4161.00	
Hydraulic tool	5.00			4166.00	
Jars	5.00			4171.00	
Safety Joint	2.00			4173.00	
Packer	5.00			4178.00	27.00 Bottom Of Top Packer
Packer	4.00			4182.00	
Stubb	1.00			4183.00	
Perforations	2.00			4185.00	
Recorder	0.00	8677	Inside	4185.00	
Recorder	0.00	8678	Inside	4185.00	
Perforations	26.00			4211.00	
Change Over Sub	1.00			4212.00	
Drill Pipe	32.00			4244.00	
Change Over Sub	1.00			4245.00	
Bullnose	3.00			4248.00	66.00 Bottom Packers & Anchor
Total Tool Length:	93.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Grand Mesa Operating Co.

25-12s-32w Logan,KS

1700 N Waterfront Pkwy
Bldg 600
Wichita KS 67206
ATTN: Bob Schrieber

G&M #1-25

Job Ticket: 44422

DST#: 2

Test Start: 2012.02.12 @ 16:18:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 58.00 sec/qt

Water Loss: 6.38 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:

0 deg API

Water Salinity: 0 ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
190.00	gocm 15g 35o 50m	1.266
0.00	190' GIP	0.000

Total Length: 190.00 ft Total Volume: 1.266 bbl

Num Fluid Samples: 0

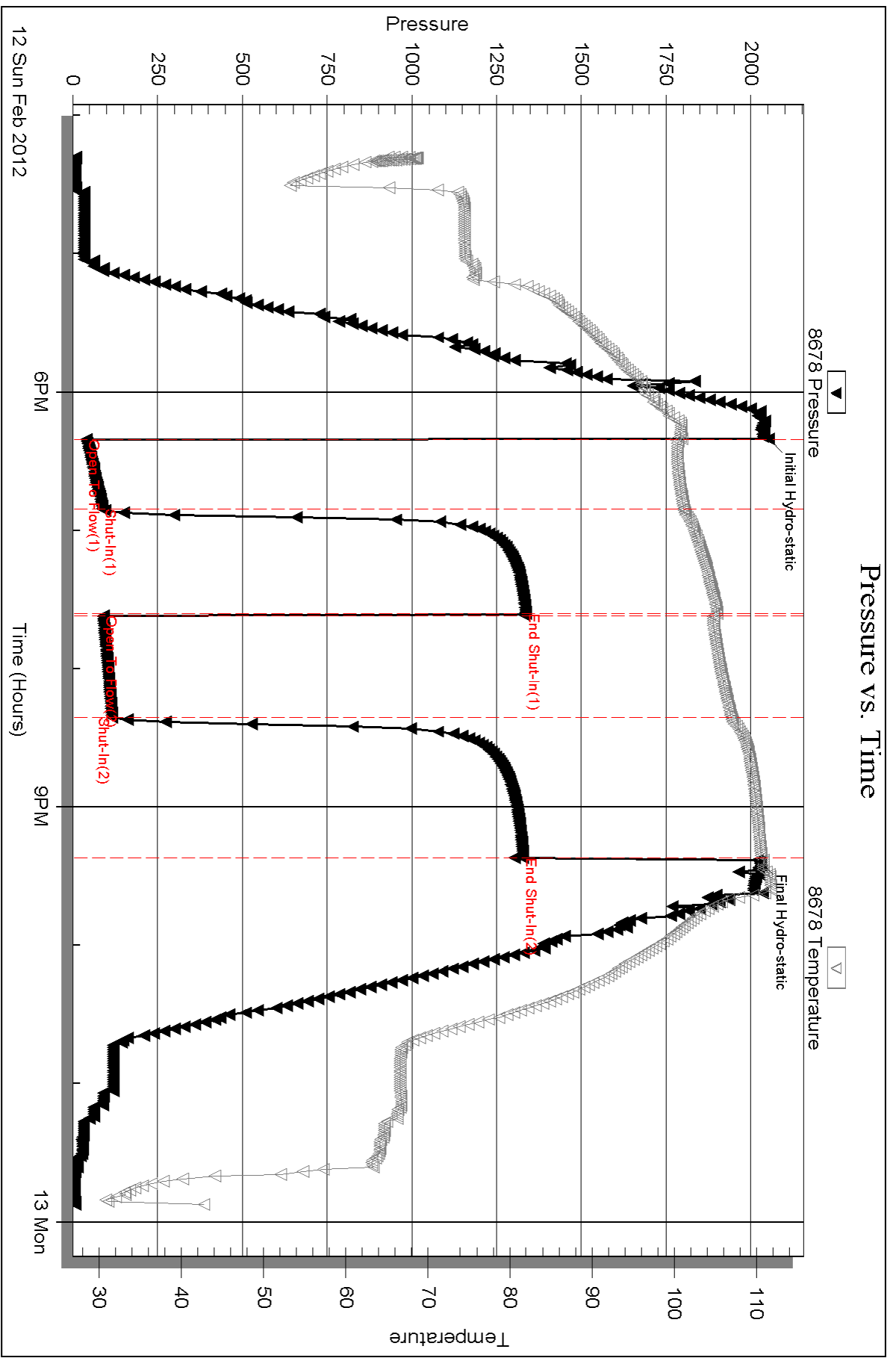
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



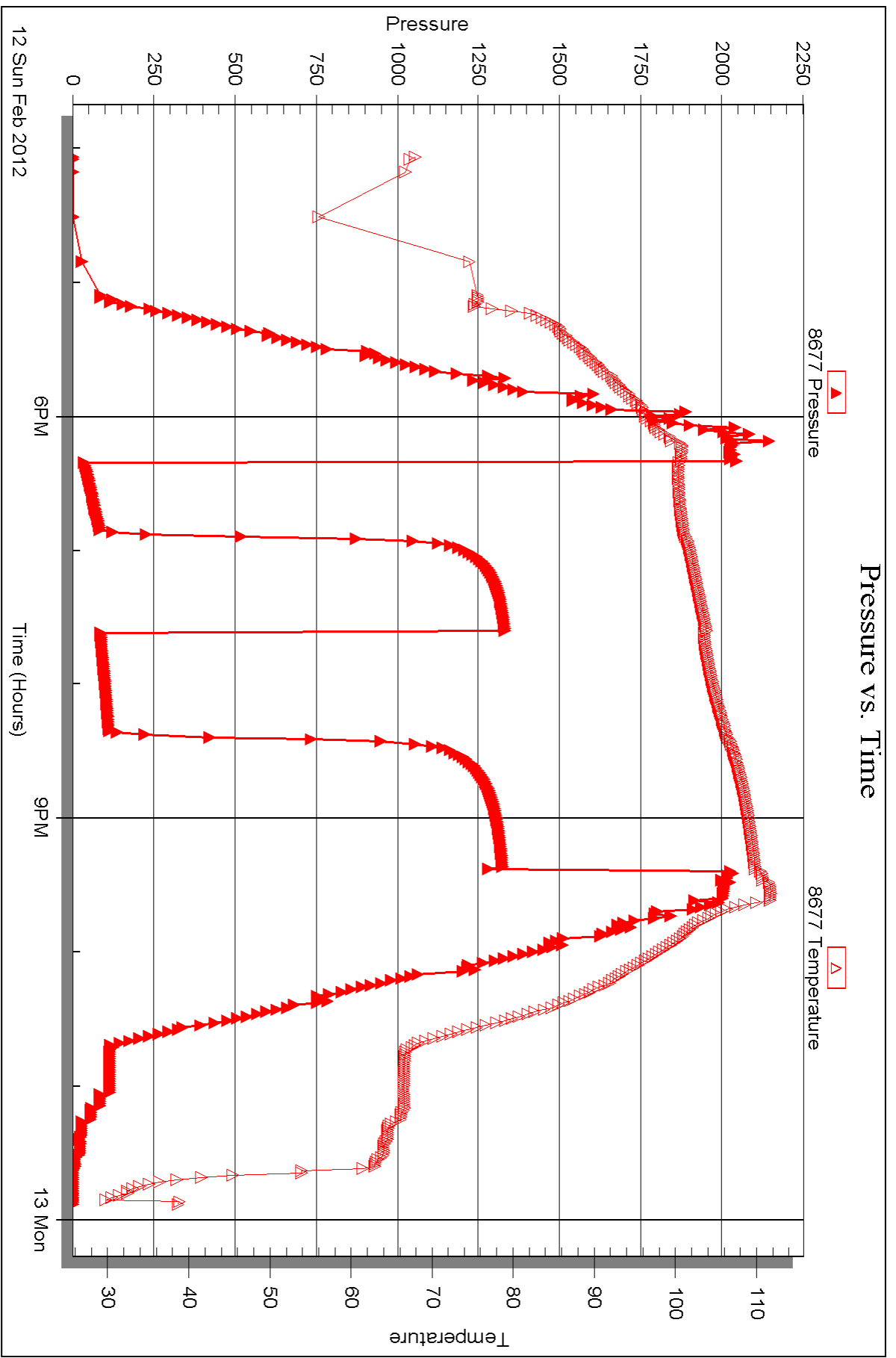
Serial #: 8677

Inside

Grand Mesa Operating Co.

G&M#1-25

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 Schrieber

G&M #1-25

25-12s-32w Logan,KS

Start Date: 2012.02.14 @ 11:58:00

End Date: 2012.02.14 @ 21:39:30

Job Ticket #: 44423 DST #: 3

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

Printed: 2012.02.23 @ 16:03:34



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

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

25-12s-32w Logan,KS

G&M #1-25

Job Ticket: 44423

DST#: 3

Test Start: 2012.02.14 @ 11:58:00

GENERAL INFORMATION:

Formation: **Johnson**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Reset)
 Time Tool Opened: 14:03:30
 Tester: Bradley Walter
 Time Test Ended: 21:39:30
 Unit No: 53
 Interval: **4547.00 ft (KB) To 4604.00 ft (KB) (TVD)**
 Reference Elevations: 3009.00 ft (KB)
 Total Depth: 4604.00 ft (KB) (TVD)
 3004.00 ft (CF)
 Hole Diameter: 7.88 inches
 Hole Condition: Good
 KB to GR/CF: 5.00 ft

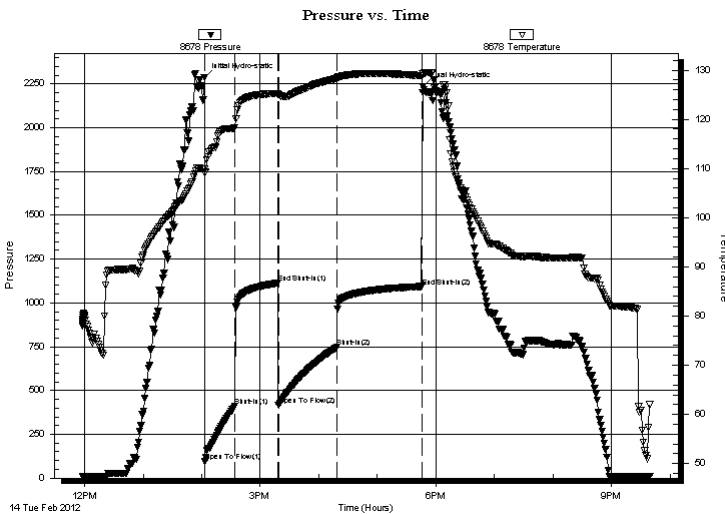
Serial #: 8678

Inside

Press @ Run Depth: 747.00 psig @ 4550.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2012.02.14 End Date: 2012.02.14 Last Calib.: 2012.02.14
 Start Time: 11:58:01 End Time: 21:39:30 Time On Btm: 2012.02.14 @ 14:03:15
 Time Off Btm: 2012.02.14 @ 17:47:00

TEST COMMENT: IF: BOB @ 4 min.
 IS: BOB @ 34 mn.
 FF: BOB @ 4min.
 FS: 5" return.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2286.38	109.85	Initial Hydro-static
1	96.11	109.09	Open To Flow (1)
31	410.73	118.25	Shut-In(1)
75	1113.20	125.20	End Shut-In(1)
76	418.12	124.95	Open To Flow (2)
136	747.00	128.31	Shut-In(2)
223	1094.12	128.85	End Shut-In(2)
224	2235.96	129.31	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	gmco 25g 35m 40o	0.59
1770.00	gsmco 30g 5m 65o	17.59
0.00	820' 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.
1700 N Waterfront Pkwy
Bldg 600
Wichita KS 67206
ATTN: Bob Schrieber

25-12s-32w Logan,KS

G&M #1-25

Job Ticket: 44423

DST#: 3

Test Start: 2012.02.14 @ 11:58:00

Tool Information

Drill Pipe:	Length: 4427.00 ft	Diameter: 3.20 inches	Volume: 44.04 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: 124.00 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose: 72000.00 lb
			<u>Total Volume: 44.65 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	31.00 ft			String Weight: Initial 56000.00 lb
Depth to Top Packer:	4547.00 ft			Final 59000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	57.00 ft			
Tool Length:	84.00 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			4521.00	
Shut In Tool	5.00			4526.00	
Hydraulic tool	5.00			4531.00	
Jars	5.00			4536.00	
Safety Joint	2.00			4538.00	
Packer	5.00			4543.00	27.00 Bottom Of Top Packer
Packer	4.00			4547.00	
Stubb	1.00			4548.00	
Perforations	2.00			4550.00	
Recorder	0.00	8677	Inside	4550.00	
Recorder	0.00	8678	Inside	4550.00	
Perforations	18.00			4568.00	
Change Over Sub	1.00			4569.00	
Drill Pipe	31.00			4600.00	
Change Over Sub	1.00			4601.00	
Bullnose	3.00			4604.00	57.00 Bottom Packers & Anchor
Total Tool Length:	84.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Grand Mesa Operating Co.

25-12s-32w Logan,KS

1700 N Waterfront Pkwy
Bldg 600
Wichita KS 67206
ATTN: Bob Schrieber

G&M #1-25

Job Ticket: 44423

DST#: 3

Test Start: 2012.02.14 @ 11:58:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 53.00 sec/qt

Water Loss: 4.79 in³

Resistivity: ohm.m

Salinity: 2000.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API:

27 deg API

Water Salinity: 0 ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
120.00	gmco 25g 35m 40o	0.590
1770.00	gsmco 30g 5m 65o	17.587
0.00	820' GIP	0.000

Total Length: 1890.00 ft Total Volume: 18.177 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

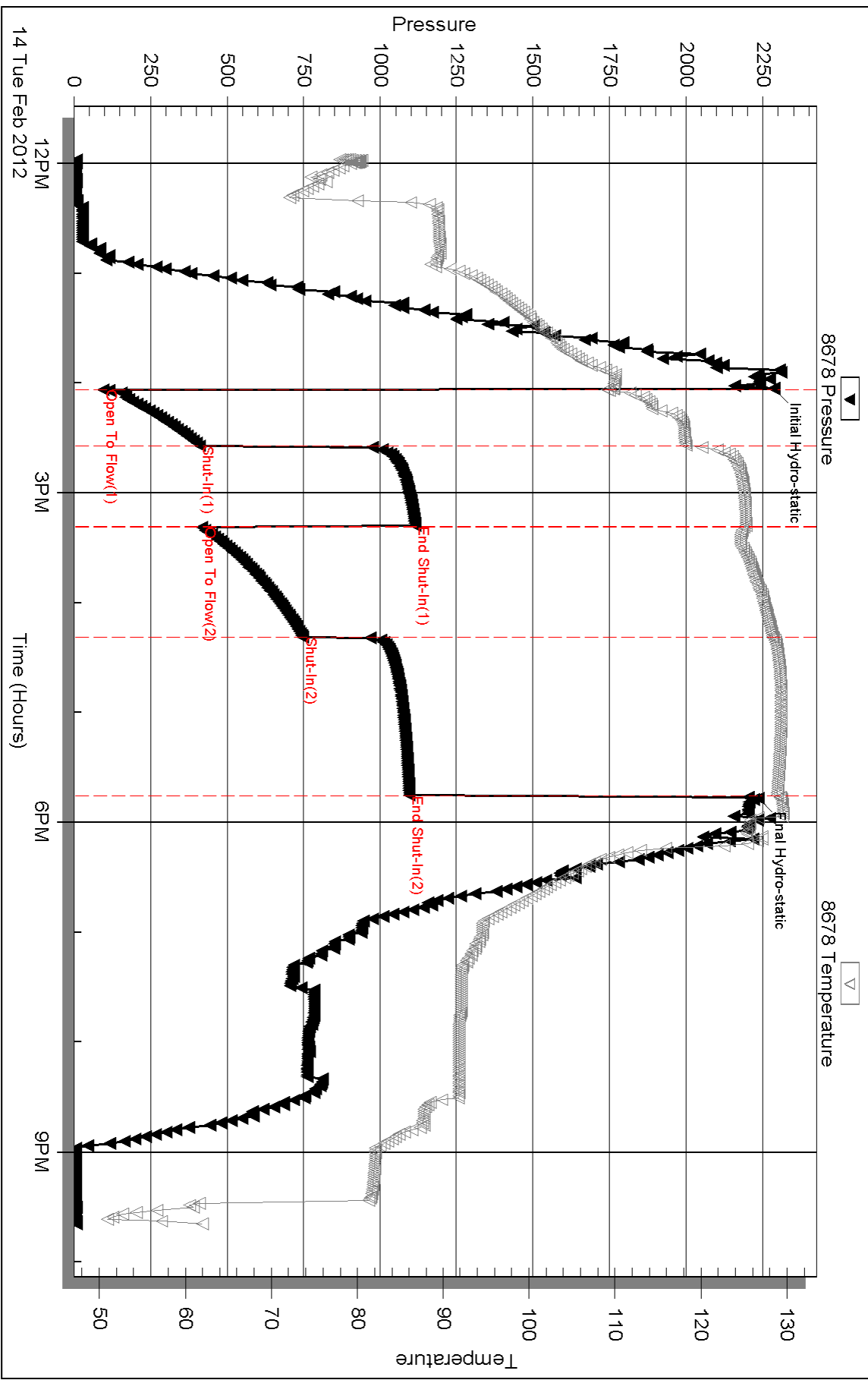
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time



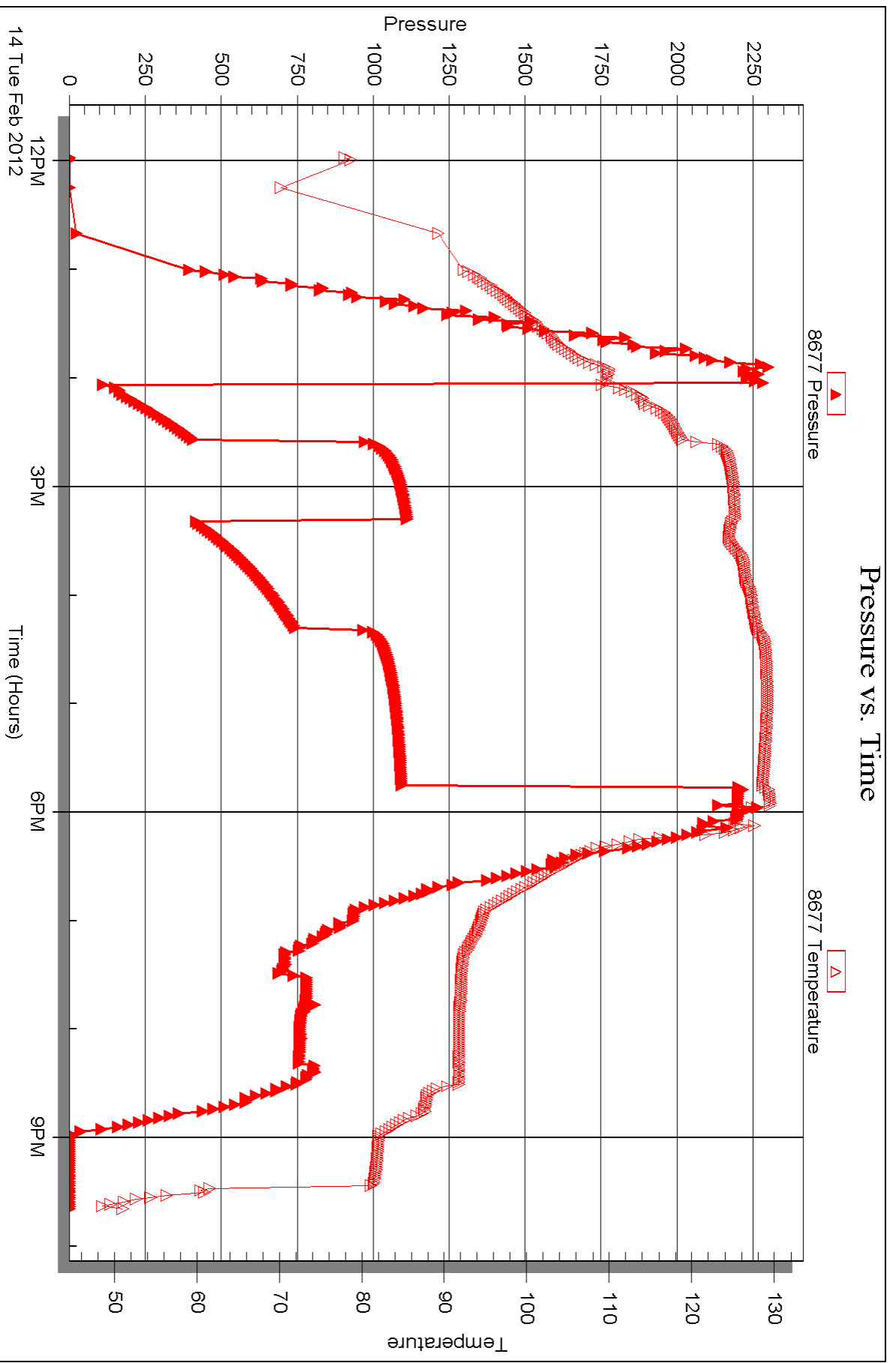
Serial #: 8677

Inside

Grand Mesa Operating Co.

G&M#1-25

DST Test Number: 3





TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

RECEIVED
FEB 23 2012
BY: _____

Test Ticket

NO. 44421

Well Name & No. G & M # 1-25 Test No. 1 Date 2-11-12
 Company Grand Mesa Operating Co. Elevation 3009 KB 3004 GL
 Address 1700 N Waterfront Pkwy Bldg 600 Wichita, KS 67206
 Co. Rep / Geo. Bob Schrieber Rig Martin 24
 Location: Sec. #25 Twp. 12S Rge. 32W Co. Logan State Ks

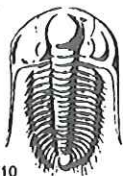
Interval Tested 4113 4139 Zone Tested LKC
 Anchor Length 26' Drill Pipe Run 3991 Mud Wt. 8.9
 Top Packer Depth 4108 Drill Collars Run 124 Vis 5.6 67
 Bottom Packer Depth 4113 Wt. Pipe Run 0 WL 5.6
 Total Depth 4139 Chlorides 1500 ppm System LCM 6#
 Blow Description IF: 2" blow
IST: No return.
FF: 2 1/2" blow.
FST: No return

Rec	Feet of	%gas	%oil	%water	%mud
<u>170</u>	<u>MCW (0.71 PUDDLE INTAL)</u>			<u>80</u>	<u>20</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 170 BHT 115 Gravity — API RW 130 @ 59 °F Chlorides 63,000 ppm
 (A) Initial Hydrostatic 2046 Test 1225' T-On Location 1330
 (B) First Initial Flow 21 Jars 250' T-Started 1527
 (C) First Final Flow 65 Safety Joint 75' T-Open 1748
 (D) Initial Shut-In 1278 Circ Sub N/C T-Pulled 2048
 (E) Second Initial Flow 68 Hourly Standby _____ T-Out 2253
 (F) Second Final Flow 87 Mileage 76 RT 36.40 Comments _____
 (G) Final Shut-In 1260 Sampler _____
 (H) Final Hydrostatic 2025 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Initial Open 30 Extra Recorder _____ Sub Total 0
 Initial Shut-In 45 Day Standby _____ Total 1586.40
 Final Flow 45 Accessibility _____ MP/DST Disc't _____
 Final Shut-In 60 Sub Total 1586.40

Approved By Bob Schrieber Our Representative [Signature]

TriLOBite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

RECEIVED
FEB 23 2012
BY: _____

Test Ticket

NO. 44422

Well Name & No. G&M #1-25 Test No. 2 Date 2-12-12
 Company Grand Mesa Operating Co. Elevation 3009 KB 3004 GL
 Address 1700 N Waterfront Pkwy Bldg 600 Wichita, Ks 67206
 Co. Rep / Geo. Bob Schrieber Rig Martin 24
 Location: Sec. 25 Twp. 12s Rge. 32w Co. Logan State Ks

Interval Tested 4182 4248 Zone Tested LKC Hd I
 Anchor Length 66' Drill Pipe Run 4051 Mud Wt. 9.1
 Top Packer Depth 4177 Drill Collars Run 119 Vis 58
 Bottom Packer Depth 4182 Wt. Pipe Run Ø WL 6.4
 Total Depth 4248 Chlorides 2500 ppm System LCM 5#
 Blow Description IF: 2" blow
IST: No return
FF: 4 1/2 inches blow
FSI: surface blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>190</u>	<u>60cm</u>	<u>15</u>	<u>35</u>	<u>50</u>	
	<u>110 BIT</u>				

Rec Total 190 BHT III Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic <u>2053</u>	<input checked="" type="checkbox"/> Test <u>1225</u>	T-On Location <u>1530</u>
(B) First Initial Flow <u>40</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>1615</u>
(C) First Final Flow <u>88</u>	<input checked="" type="checkbox"/> Safety Joint <u>75'</u>	T-Open <u>1820</u>
(D) Initial Shut-In <u>1336</u>	<input checked="" type="checkbox"/> Circ Sub <u>NK</u>	T-Pulled <u>2120</u>
(E) Second Initial Flow <u>91</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>2353</u>
(F) Second Final Flow <u>116</u>	<input type="checkbox"/> Mileage <u>76.25 106.40</u>	Comments _____
(G) Final Shut-In <u>1329</u>	<input type="checkbox"/> Sampler _____	
(H) Final Hydrostatic <u>2026</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>Ø</u>
Final Flow <u>45</u>	<input type="checkbox"/> Day Standby _____	Total <u>1656.40</u>
Final Shut-In <u>60</u>	<input type="checkbox"/> Accessibility _____	MP/DST Disc't _____
	Sub Total <u>1656.40</u>	

Approved By Bob Schrieber Our Representative [Signature]

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TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

RECEIVED
FEB 23 2012

Test Ticket

NO. 44423

4/10

BY: _____

Well Name & No. G & M #1-25 Test No. 3 Date 2-4
 Company Grand Mesa Operating Co. Elevation 3009 KB 3004 GL
 Address 1700 N Waterfront Pkwy Bldg 600 Wichita, KS 67206
 Co. Rep / Geo. Bob Schrieber Rig Murphy 24
 Location: Sec. 25 Twp. 12s Rge. 32 w Co. Logan State Ks

Interval Tested 4547 4604 Zone Tested Sanson
 Anchor Length 57' Drill Pipe Run _____ Mud Wt. 9.2
 Top Packer Depth 4542 Drill Collars Run 119 Vis 53
 Bottom Packer Depth 4547 Wt. Pipe Run 0 WL 4.8
 Total Depth 4604 Chlorides 2500 ppm System LCM 5#
 Blow Description IF: BOB @ 4 min.
IS: BOB @ 34 min
FF: BOB @ 4 min
FS: 5" return.

Rec	Feet of	%gas	%oil	%water	%mud
1770	GSMCO	30	65	50	
120	G MCO	25	40	35	
	820' GIO				

Rec Total 1890 BHT 129 Gravity 27 API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic <u>2286</u>	<input checked="" type="checkbox"/> Test <u>1225'</u>	T-On Location <u>1100</u>
(B) First Initial Flow <u>96</u>	<input checked="" type="checkbox"/> Jars <u>250'</u>	T-Started <u>1158</u>
(C) First Final Flow <u>411</u>	<input checked="" type="checkbox"/> Safety Joint <u>75'</u>	T-Open <u>1403</u>
(D) Initial Shut-In <u>1113</u>	<input checked="" type="checkbox"/> Circ Sub <u>USED 50'</u>	T-Pulled <u>1748</u>
(E) Second Initial Flow <u>416</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>2139</u>
(F) Second Final Flow <u>747</u>	<input type="checkbox"/> Mileage <u>76 RT 100.40</u>	Comments _____
(G) Final Shut-In <u>1094</u>	<input type="checkbox"/> Sampler _____	
(H) Final Hydrostatic <u>2236</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>375.08</u>
Final Flow <u>60</u>	<input checked="" type="checkbox"/> Day Standby <u>1 day + 11 1/4 hrs</u>	Total <u>2081.48</u>
Final Shut-In <u>90</u>	<input type="checkbox"/> Accessibility _____	MP/DST Disc't _____
	Sub Total <u>1706.40</u>	

Approved By Bob Schrieber Our Representative [Signature]

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



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

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

Sam Brownback, Governor

April 03, 2012

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

Re: ACO1
API 15-109-21074-00-00
G & M 1-25
NW/4 Sec.25-12S-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