



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1070349
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: _____

1070349

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 <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No List All E. Logs Run: _____	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum
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CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<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: <input type="checkbox"/> Yes <input type="checkbox"/> No
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Date of First, Resumed Production, SWD or ENHR.	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____
---	--

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> <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Grand Mesa Operating Company
Well Name	DOORNBOS 1-15
Doc ID	1070349

All Electric Logs Run

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

Form	ACO1 - Well Completion
Operator	Grand Mesa Operating Company
Well Name	DOORNBOS 1-15
Doc ID	1070349

Tops

Name	Top	Datum
Stone Corral	2409	+634
Bs/Stone Corral	2428	+615
Heeber	3957	-914
Lansing	3999	-956
Muncie Creek	4176	-1133
Stark	4262	-1219
Hushpuckney	4309	-1266
Marmaton	4385	-1342
Little Osage	4513	-1470
Morrow	4664	-1621
Mississippian	4709	-1666
LTD	4853	

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

December 15, 2011

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

Re: ACO1
API 15-171-20834-00-00
DOORNBOS 1-15
NE/4 Sec.15-16S-33W
Scott 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

GRAND MESA

OPERATING COMPANY

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

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

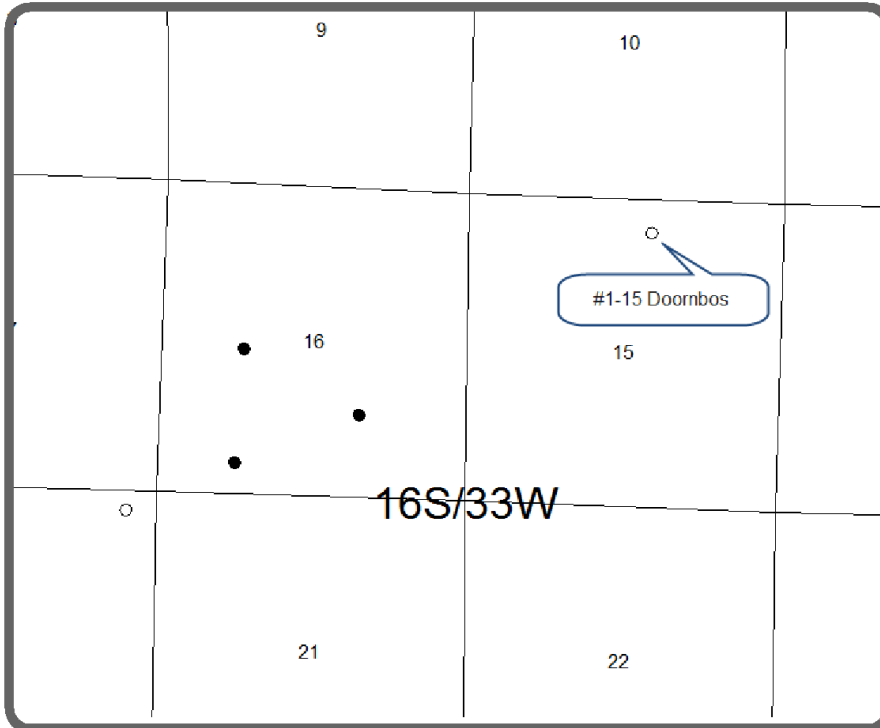
Scale 1:240 (5"=100') Imperial
Measured Depth Log

Well Name: #1-15 Doornbos
Location: 575FNL, 2232FEL, 15-16s-33w, Scott County, Kansas
License Number: API: 15-171-20834 Region: Wildcat
Spud Date: 9-30-2011 Drilling Completed: 10-12-11
Surface Coordinates: Lat:
Long:
Bottom Hole Coordinates: Vertical hole
Ground Elevation (ft): 3038' K.B. Elevation (ft): 3043'
Logged Interval (ft): 3600' To: RTD Total Depth (ft): 4853'
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 222' w/165sx
Production Casing: 5 1/2" set at 4847',
Mud by: MudCo
DST's by: Trilobite Testing
Logs by: Weatherford (DIL, CN-CD, ML,SONIC)
RTD=4850'
LTD=4853'

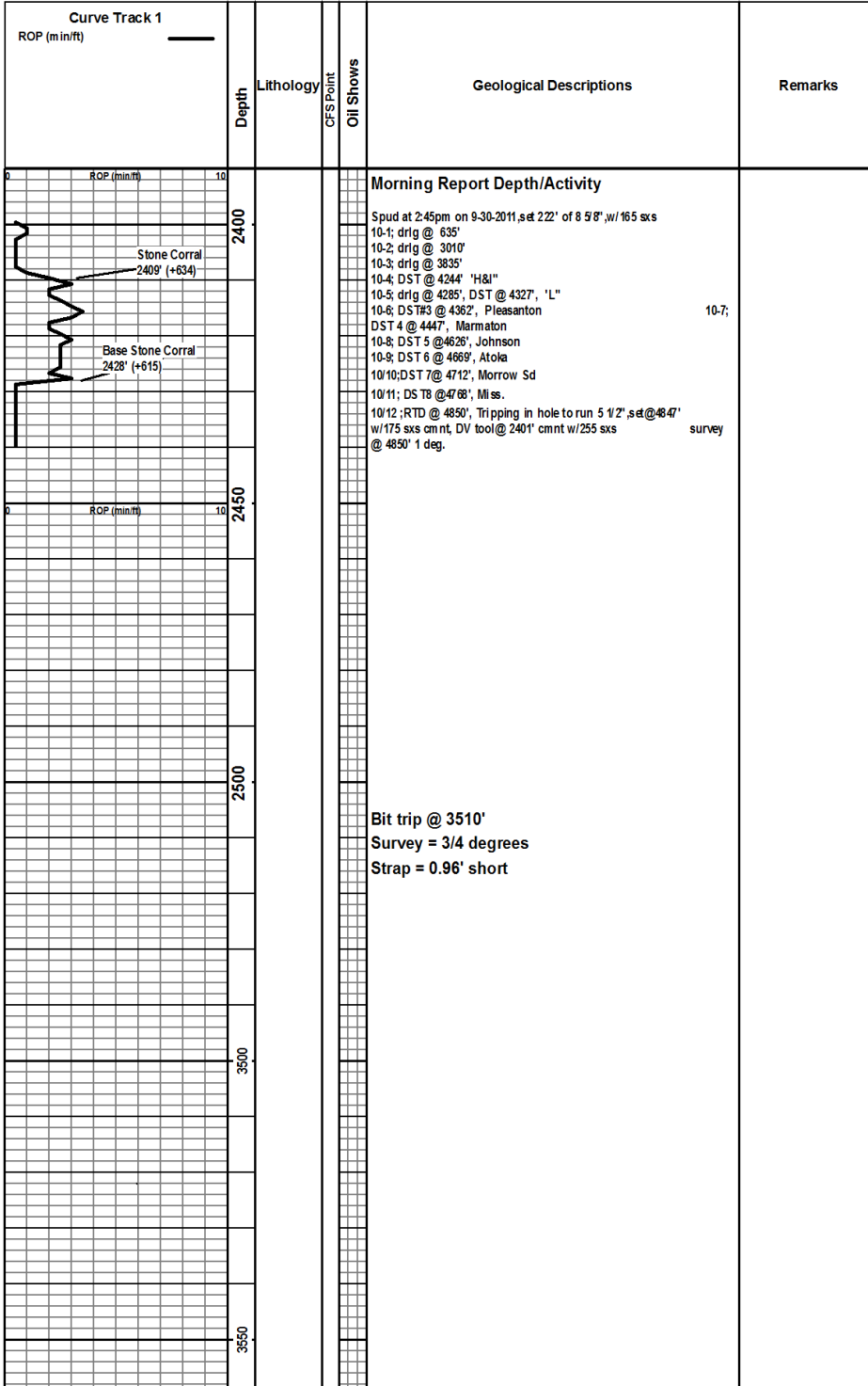
FORMATION TOPS

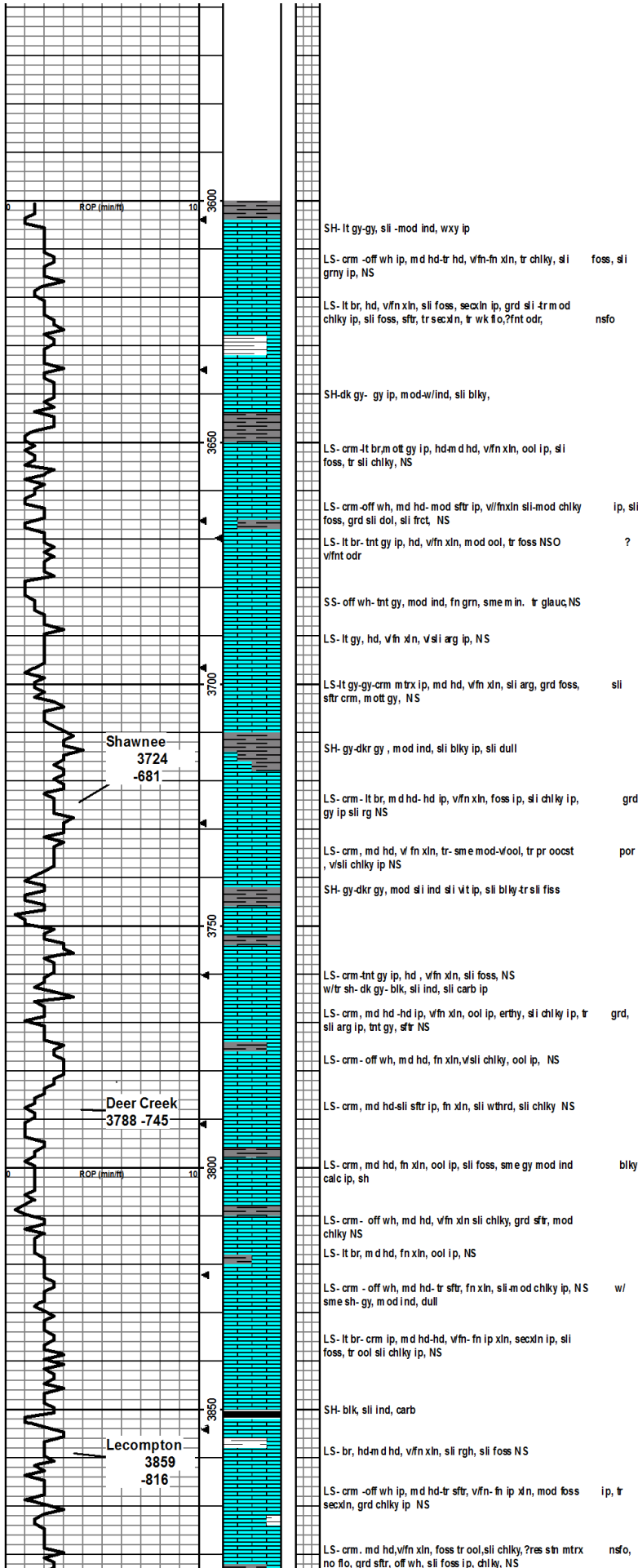
FORMATION

SAMPLE TOPS
Depth Datum

LOG TOPS
Depth Datum

Stone Corral	2409'	+634	2409'	+634
B/Stone Corral	2428'	+615	2428'	+615
Heebner Shale	3956'	-913	3957'	-914
Lansing	3999'	-956	3999'	-956
Muncie Creek Shale	4176'	-1133	4176'	-1133
Stark Shale	4262'	-1219	4262'	-1219
Hushpuckney Shale	4308'	-1265	4309'	-1266
Marmaton	4378'	-1335	4385'	-1342
Upper Fort Scott	4490'	-1447'	4490'	-1447
Little Osage Shale	4512'	-1469	4513'	-1470
Excello Shale	4530'	-1487	4530'	-1487
Johnson Zone	4604'	-1561	4607'	-1564
Morrow	4664'	-1621	4664'	-1621
Mississippian	4709'	-1666	4709'	-1666
RTD	4850'	-1696		
LTD			4853'	-1810

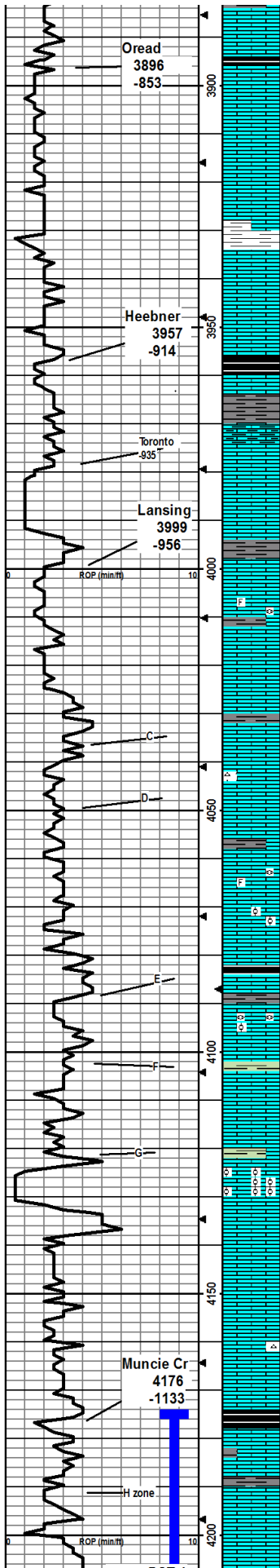




Shawnee
3724
-681

Deer Creek
3788
-745

Lecompton
3859
-816



SH-blk, sli ind, carb
 LS- vlt br- crm, m d hd, vfn- fn xln, sli chiky, fn ool, grd off wh str, mod chiky NS

LS- vlt br, m d hd - hd ip, fn xln, mod foss (fm n) ip, sli tr secxn NS

LS- vlt br- crm, hd- m d hd ip, micro- fn ip xln, frct ip, tr foss sli str, tr sli chiky, tr gs bbl, ? vifnt odr NSO w/tr off wh chrt NS

LS- crm- tnt br ip, hd- m d hd, vfn xln, tr foss, w/tr chrt, crm br, sli foss, w/tr off wh str chiky LS NS

SH- gy- tnt gr, m od ind, plty- blk, y,

LS- crm - off wh ip, m d hd- hd, vfn xln sli frct ip, sli foss ip, sli grny ip, NS

LS- crm- tnt br, hd- md hd, microxln, NS

SH- blk, sli- mod, ind, carb ip, sli fiss
 LS- crm, hd, vfn xln, tr fn foss NS

SH- rsty/br gy- tnt gr ip, sli mod ind, sli blk, y

LS- crm - off wh, m d hd- str ip, vfn- fn xln, chiky ip, fn ool ip, sli foss ip, tr fr vug- intrprtd por, tr mst sat, dk br ip, vs sfo, sli dd- dd oil ip, ? folwr grv

SH- gy- dkr gy ip, sli- mod ind sli plty/fiss

LS- crm- tnt br ip, m d hd- hd, vfn xln, sli foss ip, tr sli chiky NS

LS- crm - off wh ip, m d hd, vfn- fn ip xln, sli chiky ip, tr sli foss, tr ool, tr part sat, vs sfo md br o, no odr

SH- gy, sli- mod ind, sli splnry ip
 gy- tnt gr, sli- mod ind, sli blk, y & sm er sty/br sh

SMPLS PR

LS- crm - off wh ip, m d hd hd ip, vfn xln, tr fn ool, tr foss frct ip, ? pc so ? abv, w/tr chrt- opq- crm, frsh, shrp, sli foss NS

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

LS- vlt br- tr mott lt gy, m d hd- hd ip, vfn- fn xln, sli frmy ip, ool ip, sli foss ip tr secxn NS, w tr chrt- off wh, tr foss

LS- crm - vlt br, m d hd- tr hd, vfn- fn ip xln, ool ip, tr frct, v chiky ip, tr introol por NS

LS- lt br, hd- md hd, vfn xln, sli frct, tr prt sat, tr spity stn, fw pcs flo & fr cut, vs- sfo, md br o, fnt- sli fr odr

LS- lt br- br, hd- md hd ip, vfn xln, sli frct, sli foss ip, fr spity flo, sfo, lt- m d br oil, sli odr, w/sme ls- crm, m d hd- hd vfn- fn xln, w pcs prt- mst sat, tr fr flo, sfo, sli dd ip

LS- crm - lt br, m d hd- hd, vfn xln, tr sli frct, m od ool ip, tnt odr, tr sat, tr fr cut, vs sfo, md br- sli dd oil

SH- gy- tnt gr, m od ind sli blk, y

LS- crm - off wh, m d hd- tr str, vfn xln, sli chiky ip, tr ool, tr sat/stn, w/tr lt br hdr, tr secxn, tr stn, fnt odr, vs sfo

LS- crm - off wh, m d hd- tr str ip, fn xln, chiky ip tr ool NS w/ sme ls- br- lt br, m d hd- str, vfn xln, mod ool, sme gd oocst por, NS

LS- crm - lt br, m d hd- hd, microxln, tr ool, grd sli str, off sli chiky NS

LS- crm- opq, hd- md hd, microxln, frct ip, tr foss, NS

LS- crm- off wh, hd- md hd, micro- vfn xln, vsli chiky ip, w/tr crm chrt NS

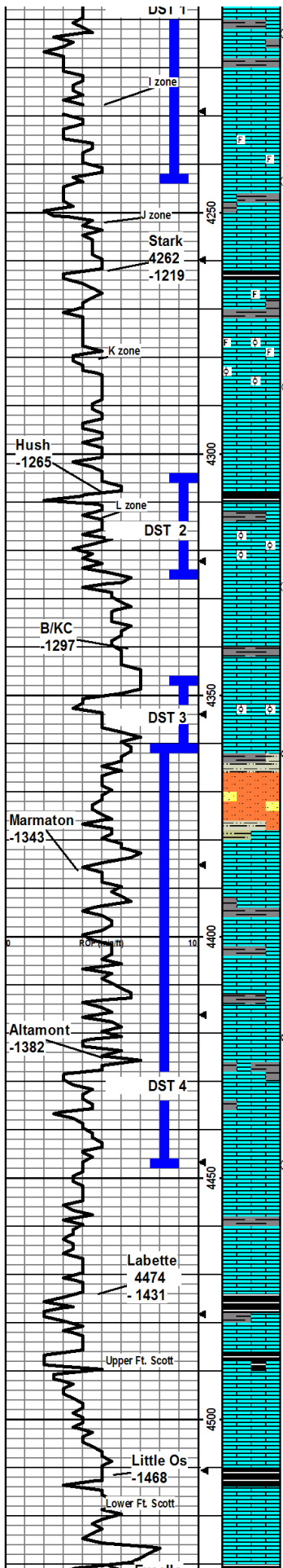
SH-blk, sli ind, carb
 SH- gy- dkr tnt gr, mod ind blk, y,

LS- crm - lt br ip, m d hs- tr hd, vfn xln, sli oolip fn secxn, tr pr oocst sli chiky ip, no odr, 1 pc odr, 2 pcs sli flo, 1 pc stn no por, ? sfo

LS- crm - tnt br ip, m d hd- hd, vfn xln, sli ool ip, tr secxn sli

MUD@3948'
 WT: 8.9
 VIS: 56
 WL: 7.2
 PH: 10.0
 CHL: 2800

DST #1
 Lans H&I
 4174-4244
 30-45-45-60
 1st; BOB 18"
 2nd; BOB 25"
 Rec: 186' WCM
 248' MCW
 IFP: 20-118
 FFP: 122-207
 SIP: 1132-1126
 HP: 2052-1997
 CHL: 32,000
 BHT 117



TOSS, NS, 1 pc tr r rock, sat r adv

SH-gy-ltr gr, sli wxy ip, & sh-dk gy-blk sli ind, sli carb ip
 LS-crm- lt gy md hd, fn xln, sly ip, sli arg-tr mod arg
 prob sme blk res flk, NSFO, no odr

LS-crm, md hd -hd, vfn xln, frct ip, tr intrprtl por w/prt sat, tr
 stn, vssfo, ss sli dd-ddo, md br o

LS-crm-off wh ip, md hd-hdip, sme sli -tr mod chiky ip foss
 ip, tr ool, tr-sme pr intrprtl por, w/ tr stn, vssfo, ss sli dd-dd o,
 blk o fnt odr

LS- crm - off wh, mm d hd, vfn xln, mod ool ip tr sli chiky
 tr-sme fr oocst por NS, sme off wh sstr chiky ls, ns

Sh- blk, sli-mod ind, mod carb
 LS- crm ,hd, vfn xln, sli foss rexlin ip, NS

LS-br, hd, microxln, NS: grd ls- off wh, sstr sli chiky, sli foss NS

LS- vlt br- crm, hd dns- md hd, v/ fn xln, sme fn secxln, sme
 sli-tr mod chiky, foss ip, ool ip, 1 pc chiky res stn NSFO

LS-vlt br- crm, hd dns- tr sstr ip, micro-vfn xln ip, frct ip, sli foss, tr
 secxln no odr, NS

LS- crm md hd -hd ip-tr sstr, vfn xln, tr-sme secxln, tr mod -sme
 sli ool, tr fr introol-sli vug por, fr-sli gd odr, tr fr- sli gd flo,
 vs-sfo lt br

LS- crm-off wh-tnt gy ip-tr mott gy, md hd-hd-tr sstr, vfn xln, ool
 ip, tr foss, tr sli chiky, tr vug-intrprtl por, fr odr, tr fr-gd flo,
 vs-sfo lt-m d br oil, tr sat/prt sat

LS- crm-off wh ip, hd-m dhd ip, microxln, sli foss ip, frct ip,
 visli-sli chiky, NS

LS- crm-tnt gy ip, md hd, vfn xln, ool ip, tr secxln, tr sli frct tr
 fr-gd vug-fr oocst-tr introol por, tr fr/gd flo, tr prt sat/sat

vs/sfo lt br-sli flmy oil, fr-gd odr

LS- off wh, sstr, vfn xln, chiky ip NS

LS- lt br- crm, hd, vfn xln, tr ool, tr frct oil/frct, vssfo vlt br
 w/fr-gd flo, fr odr

SLST- crm, md hd-hd ip, sli - tr mod calc, tr fn xln pyr, tr sli
 arg, grd fn gm ss NS

w/sme sh- gy, mod ind, sly ip, tr pyr

LS- crm-lt br ip, md hd -hd, vfn xln, tr foss, tr ool, tr prt stn tr pr
 oocst- vug por

LS- crm-lt br ip, hd-m d hd ip, vfn xln, tr secxln, tr-sme stn, tr prt
 sat, 3-4 pcs dol/lis, dkr br sat, fr-sli gd vug-fossct por, fnt odr, 1
 pc, introol por, sfo, md br, mod-gd flo mst shw tt w/sli dd-dd
 o lwr grv oil

LS- lt br, hd- tr m d hd, vfn xln, mod foss ip, fn-md secxln ip, tr pr
 por, tr sply flo, tr stn, tr pr sat, tr frct, vssfo sli dd vfntr odr, grd
 crm md hd, fn xln, sli foss, sli chiky, tr stn

LS- crm-mott lt gr-m rn ip, hd-m d hd, vfn xln, sli frct, foss ip, tr
 ool, w/ tr sh veins, grd sli sstr chiky off wh, ls NS

SH- gy-dk gy, mod sli ind, sli biky LS-lt
 br-br, md hd-hd, vfn xln, tr ool, tr foss, tr sli frct, tr stn- prt sat tr pr
 oocst por, vssfo lt br o, tr sli dd o, fnt odr, grd crm ,sstr, sli
 chiky ,ss sli ddo

Sh-gy-tnt gr dkr gy, mod ind

LS- crm-off wh-tnt gy, md hd-hd ip, vfn-tr fn xln, sli-mod
 chiky ip, w/sme grd dol ls, md hd -hd, fn sn, tr pr
 intrxln-vug por, tr prt stn/sat, tr m d br sat w/por, fnt
 odr, vs-sfo slidd-tr dd o, dk br, tr wk flo

LS- crm-lt br, hd-m dhd, vfn xln, m od ool ip, tr foss, sli dol
 ipk tr stn, 1 pc so sli dd, grd off wh, sstr/ vsli fri, chiky NS

LS- crm-off wh, md hd-hd, vfn xln, sli chldy, tr sli ool, tr sli frct,
 NS

SH-blk, sli ind, fiss, carb
 w/ fw pcs ls- lt br md hd, fn xln, sli fn ool, tr intrprtl- vug por,
 tr stn, vssfo m d br-sli ddo o, no odr, wkho flo

LS- crm- tnt br, hd-m d hd ip, vfn xln, tr mod-sli foss ip, tr
 secxln, NS W/sme sh- lt gy- palebl/gr sli wxy, sli-m od ind

LS- crm, md hd-hd, vfn xln, sme mod ool NS
 w/tr dol/lis- fn xln, w/so, lwr grv-sli ddo o, fr odr bst2/abv

LS-br, hd ,microxln, tr res stn, nso, w/sme LS- crm, md hd,
 vfn xln, mod foss ip/fm n, tr sli chiky, 1pc res stn, no odr, NSFO

SH-blk, sli ind, carb, fiss ip

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

LS- crm md hd-hd, vfn xln, ool no odr, 1pc fo tr rck

MUD@4223'
 WT:9.0
 VIS:57
 WL:7.2
 PH:10.5
 CHL:2800

MUD@4316'
 WT:9.2
 VIS:56
 WL:8.0
 PH:9.0
 CHL:4800

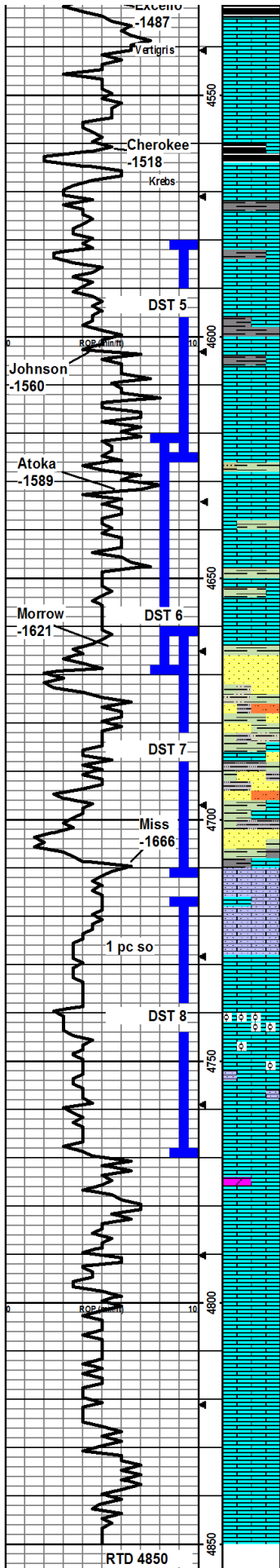
DST 2 (Lans L)
 4305-4327
 30-30-15-15
 1st) SrfB dd 8"
 2nd) No blw
 Rec: 5'M/oil spts
 IFP: 13-14
 FFP: 17-16
 SIP: 129-34
 HP: 2184-2098
 BHT: 110

MUD@4362'
 WT:9.3
 VIS:54
 WL:8.8
 PH:10.5
 CHL:4800

DST 3 (Pleas)
 4347-4362
 30-45-60-90
 1st) 1/4" bld 4"
 2nd) SB bld 5"
 Rec: 10' CO
 70' MCW
 60' MCW
 IFP: 17-49#
 FFP: 55-78#
 SIP: 984-944#
 HP: 2185-2085#
 BHT 120
 CHL 29,000

DST 4 (Marm)
 4361-4447
 30-30-15-15
 1st) 1/4" dd
 2nd) no blw
 Rec: 65'Mw/tr O
 IFP 18-38#
 FFP44-51#
 SIP 963-871#
 HP 2131-2085#

MUD@ 4438'
 WT:9.1
 VIS:58
 WL:7.8
 PH:10.0
 CHL:5500



SH- blk, sli-mod ind, fss ip, carb
 LS- lt br-mott gy(nucl ool) hd, mod ool, tr pr introol
 por, w/tr stn, tr sat m d-dkr br, vsfo w/sme
 chrt- lt br-ly gy, m ot ip, fsh, ool, NS
 LS- lt br-sli mott, hd, vfn xln, ool & foss ip, tr pr intrprcl por,
 tr br - dkr br sat, vsfo, md br oil, grd crm, md hd -hd, vfn-fn
 xln, mod ool, tr foss, sme sli-tr m od chiky, NSO, ?tr stn

SH- blk, sli ind, carb ip & gy-dk gy blk, mod ind
 LS- lt br-crm, md hd-hd, vfn sin, sli ool, NS
 LS-crm-off wh, md hd- sfr ip, vfn x.n, sli-mod chiky ip, sli foss,
 fn ool ip, tr frct, tr stn, 1 pc sfo, dkr br lw grv
 LS- off wh-crm, md hd-hd, vfn-fn xln, sli wthrd ip, sli chiky ip,
 tr ool, NS (verd: 3 pcs sat, fr -sli gd cut, tt'r)

SH- pale gr-rsty/br, m od ind, blk; w/sme LS- lt br hd, vfn xln tr ool
 NS
 LS- lt br-crm, hd-md hd ip, vfn xln, fn secln ip, sli foss ip, fw pcs
 spity stn, ? odr, vs sli ddo
 LS- lt br-crm ip, hd-md hd ip, vfn-fn xln, sli foss, grd sli chiky
 ip, tr secln, fw pcs prt/spity stn, tr prt sat, tr blk -dk br dd-sli dd
 oil, 2 pcs md br fo
 LS- br, hd, microxln, foss ip, tr pr pvug intrprtd por, 2 pcs
 fo, grd crm, sli sfr, vfn xln, vsli chiky ip, vsli wthrd, sli foss
 ip, tr pr por, vs sli ddd oil, ?fo, fnt'fr odr
 LS-crm- lt gy ip md hs-hd ip, mod foss ip, sli-mod ool ip v/sli
 -tr mod chiky ip, fnt-sli incr odr, 2 pcs res stn, ipc fosscat por
 w/sat dk br olwr grv/sli dd w/sme sh-gy- pale
 gr, tr m ot m m, sli mod ind
 LS- lt br-br, hd dns microxln, tr secln, sli foss, pyr clstr NS,
 w/sme olv/gr-gy mod-w/ind, blk, sli dull LS-crm-tnt br
 ip, hd-md hd, vfn xln, tr coral, sli ool, tr stn tr fr fosscat por, fr
 odr bust, vsso dd-sli dd o, ?? lv oil, vfnftr odr

SS-off wh-opq, m od-w/ind, fn-vfn grn, m st tt'r, tr glauc w/tr
 pyr clstr, NS w/sme
 sh- pale gr-gr, sli ind wxy, sli blk ip
 SH- gr-pale gr-tr-gy, sli-mod ind ip, sli wxy, sly ip-tr sndy w/tr
 ss pred a/abv, NS
 SH- pale gr-gy-dkr gy, m od-sli ind ip, blk ip, tr pyr, blk
 w/sme sh-dk gy - blk, sli-mod ind, sli carb, sli fss- w/sme SS-
 crm-off wh-pale gr, mod w/ind tr stn, fn grn glauc, sli arg ip, tr fn
 xln pyr, NS

SS-off wh-opq, mod ind -sli sfr, fn grn, sbrnd, mod-mod w
 srt, sli drty ip, tr sat & prt stn, fr cut, no flo, tr fr sli gd cut,
 sso sli dd-dd oil, 2 pcs lw grv o

LS- off wh, md hd-hd ip, vfn xln, sli chiky, fn grn sndy NS

LS-br, hd-md hd, vfn xln, fn secln, foss, NS
 LS- lt br-crm-tr br, hd-md hd ip, fn-vfn xln, sndy ip, tr fn ool, ?
 in place 2-3 pcs stn & 1 pc tr vug por w/fo

LS-crm-tn-off wh ip, md hd-hd ip, tr sfr, vfn-fn-tr md xln sli
 chiky mtr ip, mod ool, w/sli foss, tr sli sndy, tr ls incls, tr
 fr-sme pr intrprcl-sli chnl/vug por, tr seme prt stn/sat, fw pcs
 sat/tt ip w/ 2 pcs fr flsh cut, sso&fso dkr br/blk lw grv-sli dd-dd
 o, fnt odr, bst sn pl'fr odr

LS-tn-crm ip-lt br ip, md hd-hd, fn-md-crs ip xln, sli-mod ool
 ip, sli foss, tr ool, NS
 LS- lt br-crm, hd-md hd ip, vfn-fn grd tom d-crs litho xln, ool
 ip, sli foss, sli frct ip, grd off wh ip, sli sfr NS

LS- lt br hd, vfn-fn xln, ool ip, tr foss grd crm-off wh, md hd, hd,
 vfn xln, tr sli ool NS w/ tr
 dol- lt br, fn xln, md hd, stn, so dd ip sli dd, prob prt of shw fo
 lwr grv(pcs are small)

LS- lt br-crm ip, hd-tr md hd, vfn xln, grd sfr ip, mod ool ip,
 tr sli foss, sli frct NS W/tr chrt- pale org, sli foss chrt NS

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

LS- vlt br-crm, hd, micro-vfn xln, frct ip, sme mod ool NS

LS-crm -tn, hd-tr md hd, microxln, frct ip, NS grd sli sfr
 br-crm, tr ool, sli chiky ip NS

LS-crm-off wh, hd, frct, tr pyr, secln, tr m od ool NS LS- lt
 br-br, hd, vfn-microxln, frct ip, sli foss, tr ool, NS

LS- lt br-crm, md hd-hd, vfn fn xln, sme md xln, mod ool ip, sli
 chiky mtr, tr fn grn sndy, NS

DST 5 (John.)
 4580-4626
 30-30-15-15
 1st) SB dd 8"
 2nd) No Blw
 Rec: 3' M
 IFP: 17-20#
 FFP: 19-20#
 SIP: 28-24#
 HP: 2287-2220#

DST 6 Atoka
 4621-4669
 30-30-15-15
 1st) SB dd 6"
 2nd) No Blw
 Rec: 5' M w/oil
 spots
 IFP: 26-20#
 FFP: 23-22#
 SIP: 48-34#
 HP: 2321-2248#

MUD @ 4669'
 WT: 9.2
 VIS: 58
 WL: 6.4
 PH: 10.5
 CHL: 4900

MUD @ 4726'
 WT: 9.4
 VIS: 51
 WL: 10.0
 PH: 9.0
 CHL: 5500

DST 7 Morrow
 4662-4712
 30-30-15-15
 1st) 1/4" bld
 2nd) no blw
 Rec: 5' M
 IFP: 24-32#
 FFP: 29-39#
 SIP: 55-48#
 HP: 2423-2269#
 BHT: 113 deg

DST 8) Miss
 4717-4768'
 30-45-60-90
 1st) 1/4" bld 6"
 S1) No blw
 2nd) BOB/38"
 S1) SB/bld/2"
 Rec: 60' O, 28 grv
 90' gocm
 IFP: 24-46#
 FFP: 58-68#
 SIP: 1120-1146#
 HP: 2424-2297#
 BHT: 118 deg

MUD @ 4800'
 WT: 9.2
 VIS: 55
 WL: 10.4
 PH: 9.0
 CHL: 8000



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Gand Mesa Operating
 1700 N Waterfront PKWY BLDG 600
 Wichita, Ks 67206
 ATTN: Bob Schreiber

15-16-33 Scott, KS
Doornbos 1-15
 Job Ticket: 43837 **DST#: 1**
 Test Start: 2011.10.04 @ 17:20:31

GENERAL INFORMATION:

Formation: **H-I**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 19:27:56
 Time Test Ended: 00:46:25
 Interval: **4147.00 ft (KB) To 4244.00 ft (KB) (TVD)**
 Total Depth: 4244.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Brandon Turley
 Unit No: 35
 Reference Elevations: 3043.00 ft (KB)
 3038.00 ft (CF)
 KB to GR/CF: 5.00 ft

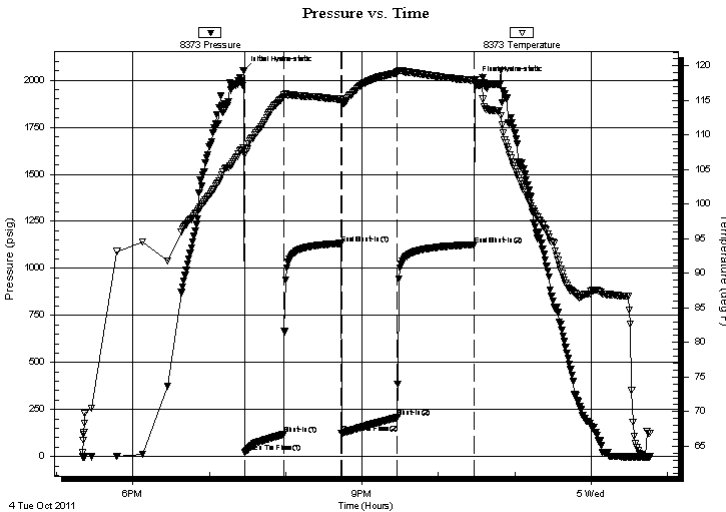
Serial #: 8373

Inside

Press @ Run Depth: 207.23 psig @ 4175.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2011.10.04 End Date: 2011.10.05 Last Calib.: 2011.10.05
 Start Time: 17:20:31 End Time: 00:46:25 Time On Btm: 2011.10.04 @ 19:26:41
 Time Off Btm: 2011.10.04 @ 22:28:40

TEST COMMENT: IF: BOB in 18 min.
 IS: No return.
 FF: BOB in 25 min.
 FS: No return.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2052.20	108.08	Initial Hydro-static
2	20.66	107.10	Open To Flow (1)
32	118.08	115.53	Shut-In(1)
77	1132.79	115.17	End Shut-In(1)
78	122.91	114.64	Open To Flow (2)
121	207.23	119.00	Shut-In(2)
182	1126.51	117.90	End Shut-In(2)
182	1997.09	117.99	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
248.00	mcw 90%w 10%m	2.39
186.00	w cm 40%w 60%m	2.61

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Gand Mesa Operating

15-16-33 Scott, KS

1700 N Waterfront PKWY BLDG 600
Wichita, Ks 67206

Doornbos 1-15

Job Ticket: 43837

DST#: 1

ATTN: Bob Schreiber

Test Start: 2011.10.04 @ 17:20:31

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:

32000 ppm

Viscosity: 57.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.20 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2800.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
248.00	mcw 90%w 10%m	2.395
186.00	w cm 40%w 60%m	2.609

Total Length: 434.00 ft Total Volume: 5.004 bbl

Num Fluid Samples: 0

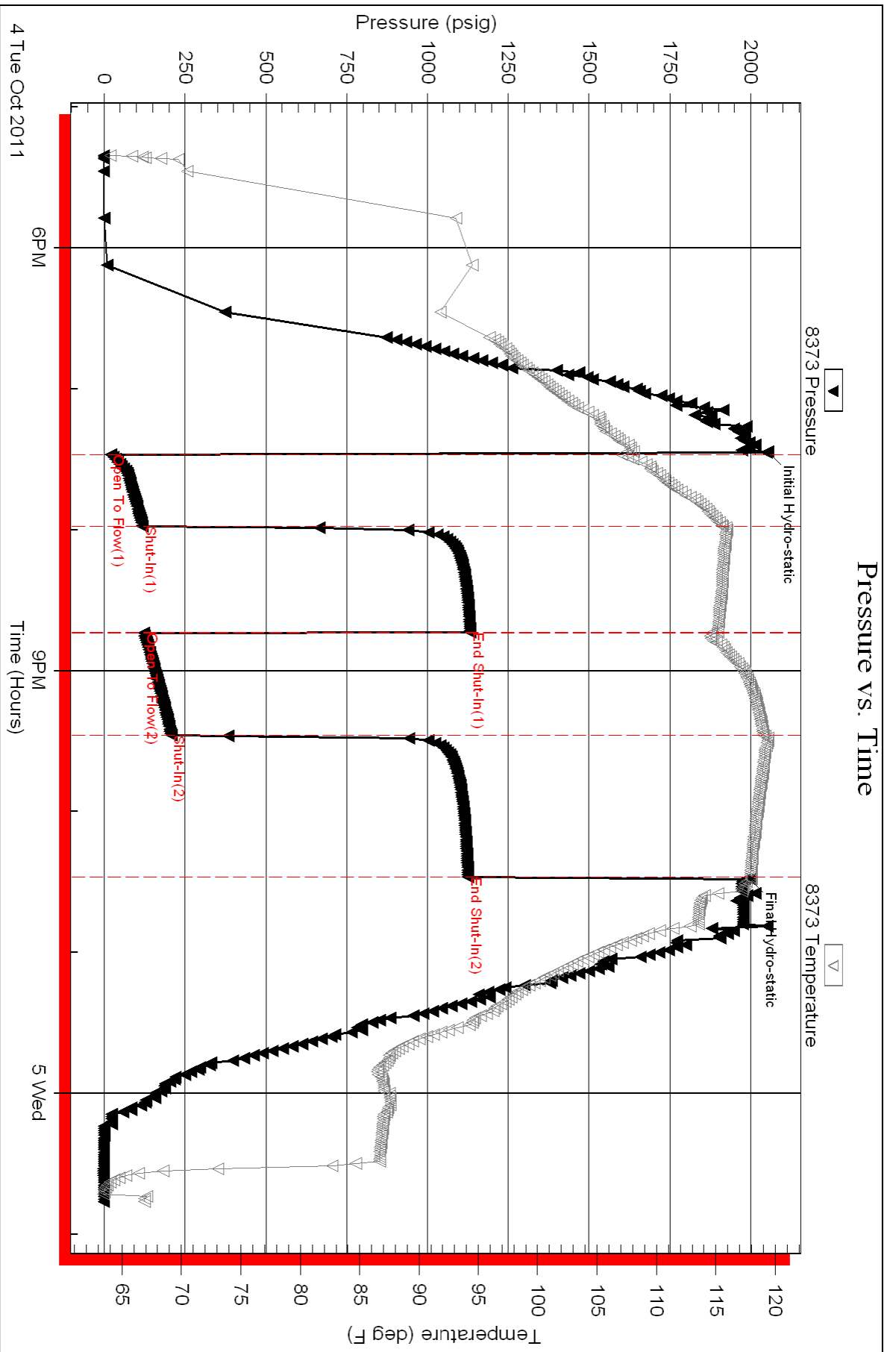
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: .24@66=32000





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Grand Mesa Operating
1700 N Waterfront PKWY BLDG 600
Wichita, Ks 67206
ATTN: Bob Schreiber

15-16-33 Scott, KS
Doornbos 1-15
Job Ticket: 43838 **DST#: 2**
Test Start: 2011.10.05 @ 14:52:13

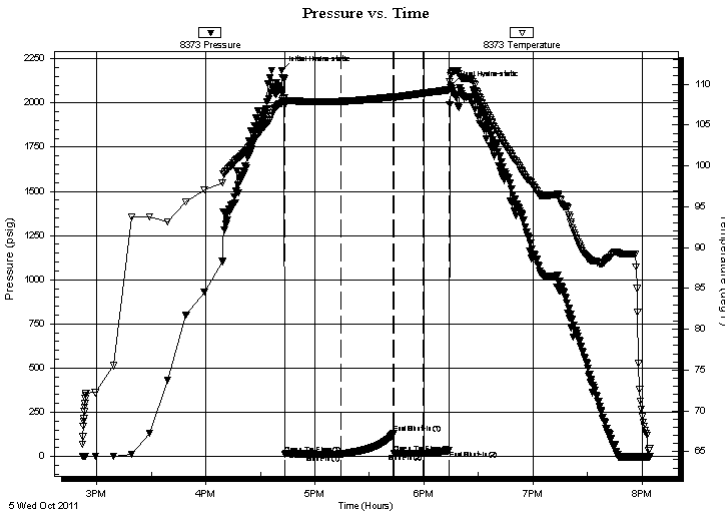
GENERAL INFORMATION:

Formation: **L**
Deviated: **No** Whipstock: ft (KB) Test Type: **Conventional Bottom Hole (Reset)**
Time Tool Opened: 16:43:23 Tester: **Brandon Turley**
Time Test Ended: 20:04:22 Unit No: **35**
Interval: 4305.00 ft (KB) To 4327.00 ft (KB) (TVD) Reference Elevations: 3043.00 ft (KB)
Total Depth: 4327.00 ft (KB) (TVD) 3038.00 ft (CF)
Hole Diameter: 7.88 inches Hole Condition: **Good** KB to GR/CF: 5.00 ft

Serial #: 8373 **Inside**
Press @ Run Depth: 16.32 psig @ 4306.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2011.10.05 End Date: 2011.10.05 Last Calib.: 2011.10.05
Start Time: 14:52:13 End Time: 20:04:22 Time On Btm: 2011.10.05 @ 16:41:53
Time Off Btm: 2011.10.05 @ 18:14:53

TEST COMMENT: IF: Surface blow died in 8 min.
IS: No return.
FF: No blow.
FS: No return.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2184.20	107.78	Initial Hydro-static
2	13.98	107.46	Open To Flow (1)
33	14.30	107.91	Shut-In(1)
62	129.25	108.48	End Shut-In(1)
62	17.29	108.40	Open To Flow (2)
78	16.32	108.89	Shut-In(2)
92	34.00	109.33	End Shut-In(2)
93	2098.27	111.31	Final Hydro-static

Recovery

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

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Grand Mesa Operating

15-16-33 Scott, KS

1700 N Waterfront PKWY BLDG 600
Wichita, Ks 67206

Doornbos 1-15

Job Ticket: 43838

DST#: 2

ATTN: Bob Schreiber

Test Start: 2011.10.05 @ 14:52:13

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 56.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.98 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 4800.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	mud oil spots 100%m	0.025

Total Length: 5.00 ft Total Volume: 0.025 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

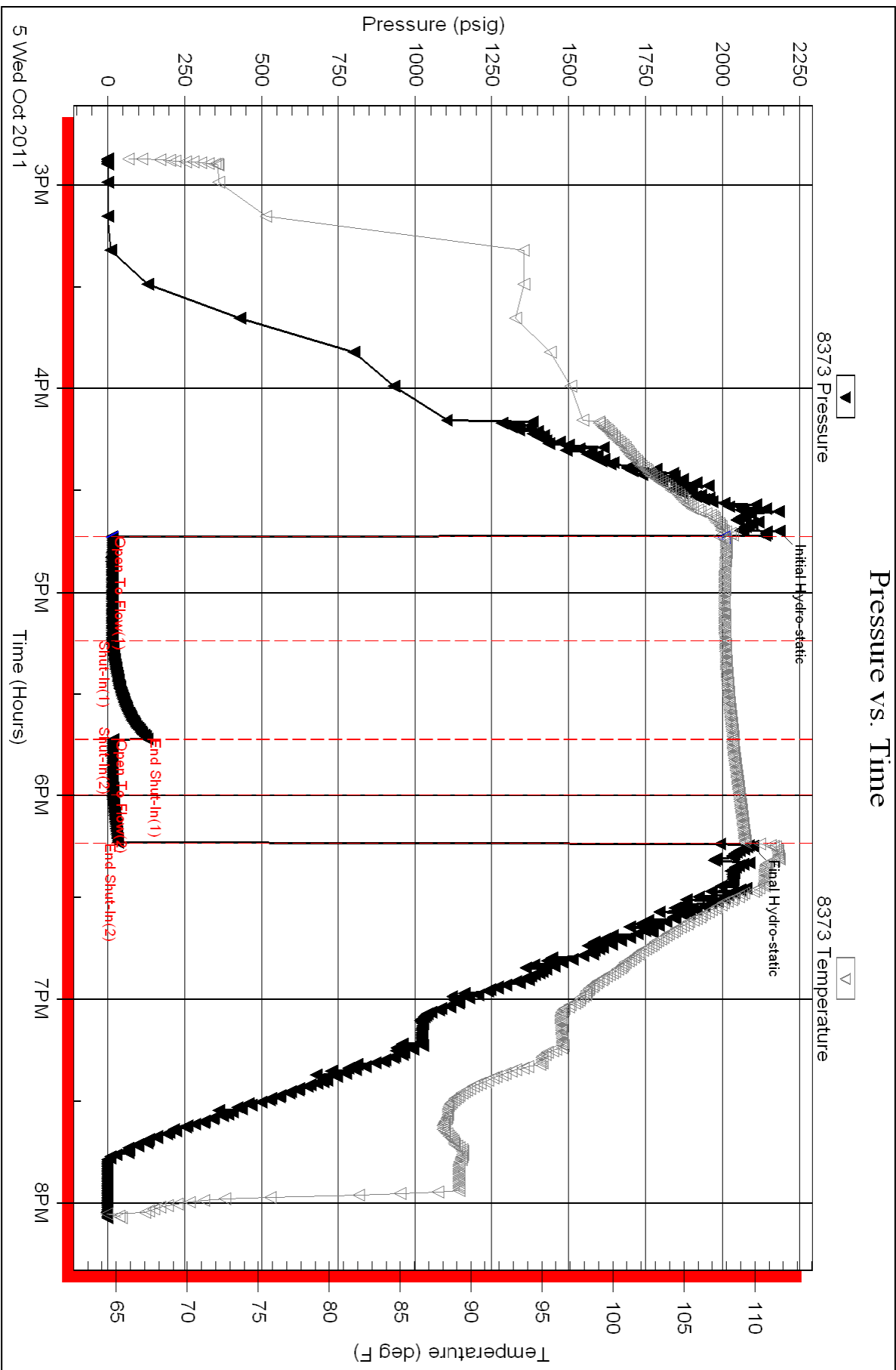
Serial #: 8373

Inside

Grand Mesa Operating

Doorbros 1-15

DST Test Number: 2





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Grand Mesa Operating
1700 N Waterfront PKWY BLDG 600
Wichita, Ks 67206
ATTN: Bob Schreiber

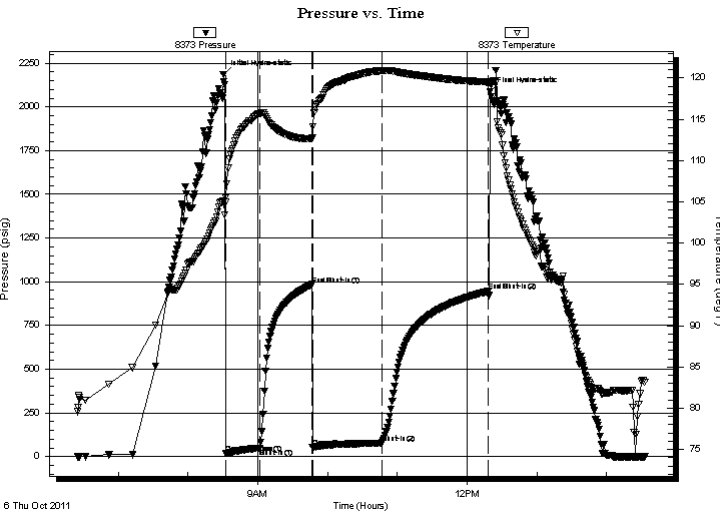
15-16-33 Scott, KS
Doornbos 1-15
Job Ticket: 43839 **DST#: 3**
Test Start: 2011.10.06 @ 06:25:08

GENERAL INFORMATION:

Formation: **Pleasanton**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 08:32:18
Time Test Ended: 14:32:47
Interval: **4347.00 ft (KB) To 4362.00 ft (KB) (TVD)**
Total Depth: 4362.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good
Test Type: Conventional Bottom Hole (Reset)
Tester: Brandon Turley
Unit No: 35
Reference Elevations: 3043.00 ft (KB)
3038.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 8373 Inside
Press @ Run Depth: 78.33 psig @ 4348.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2011.10.06 End Date: 2011.10.06 Last Calib.: 2011.10.06
Start Time: 06:25:08 End Time: 14:32:47 Time On Btm: 2011.10.06 @ 08:30:18
Time Off Btm: 2011.10.06 @ 12:19:32

TEST COMMENT: IF: 1/4 blow built to 4 in 30 min.
IS: No return.
FF: Surface blow built to 5 in 60 min.
FS: No return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2185.39	105.14	Initial Hydro-static
2	17.43	104.93	Open To Flow (1)
31	49.23	115.72	Shut-In(1)
77	984.07	112.61	End Shut-In(1)
77	55.02	112.76	Open To Flow (2)
137	78.33	120.88	Shut-In(2)
228	944.83	119.50	End Shut-In(2)
230	2085.51	118.92	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	mcw 80%w 20%m	0.30
70.00	mcw 60%w 40%m	0.44
10.00	oil 100%o	0.14

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Grand Mesa Operating

15-16-33 Scott, KS

1700 N Waterfront PKWY BLDG 600
Wichita, Ks 67206

Doornbos 1-15

Job Ticket: 43839

DST#: 3

ATTN: Bob Schreiber

Test Start: 2011.10.06 @ 06:25:08

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:

29000 ppm

Viscosity: 56.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.98 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 4800.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	mcw 80%w 20%m	0.295
70.00	mcw 60%w 40%m	0.444
10.00	oil 100%o	0.140

Total Length: 140.00 ft Total Volume: 0.879 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: .21@82=29000

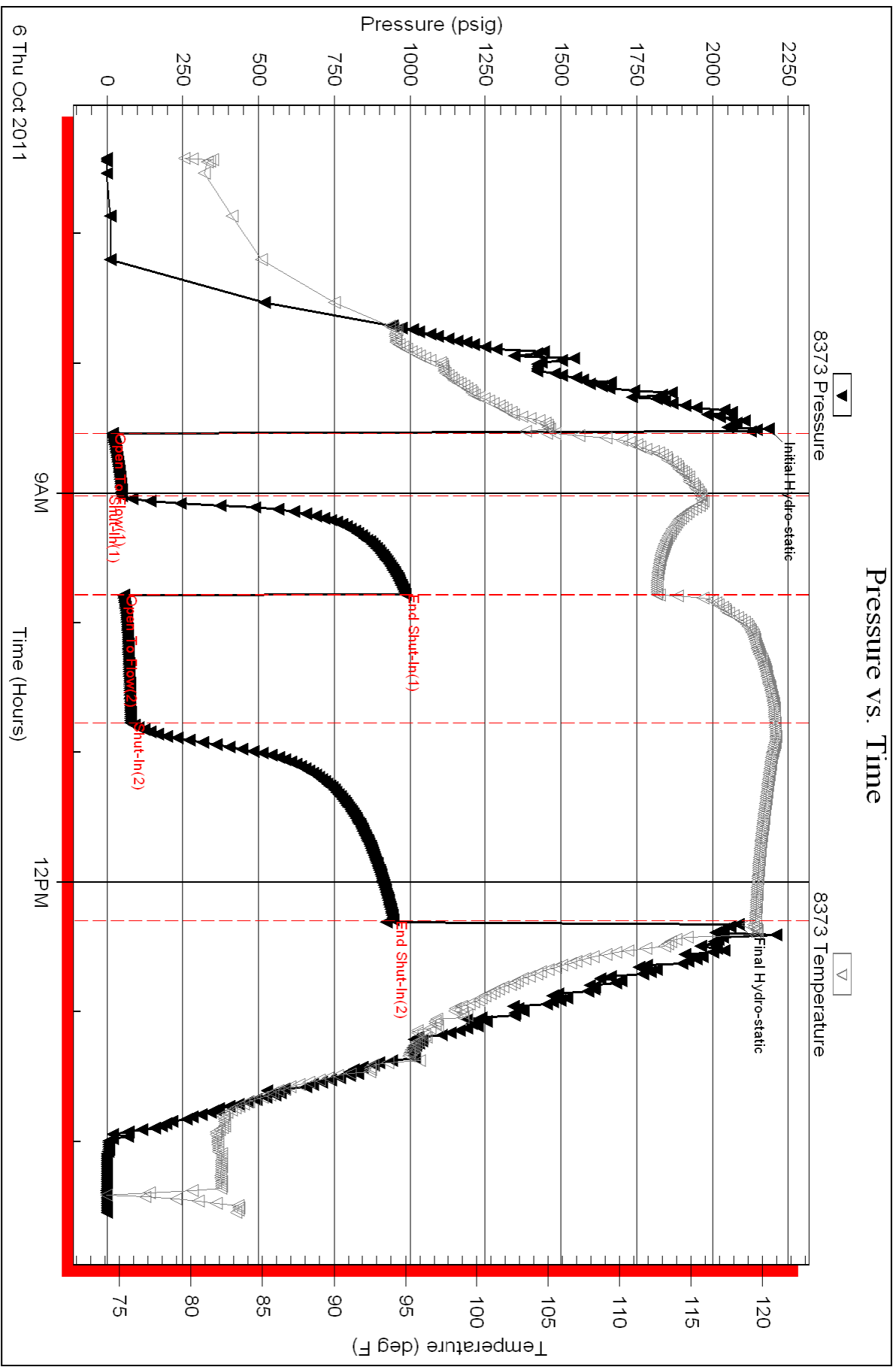
Serial #: 8373

Inside

Grand Mesa Operating

Doorbos 1-15

DST Test Number: 3



Triobite Testing, Inc

Ref. No: 43839

Printed: 2011.10.06 @ 16:55:43



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Gand Mesa Operating
 1700 N Waterfront PKWY BLDG 600
 Wichita, Ks 67206
 ATTN: Bob Schreiber

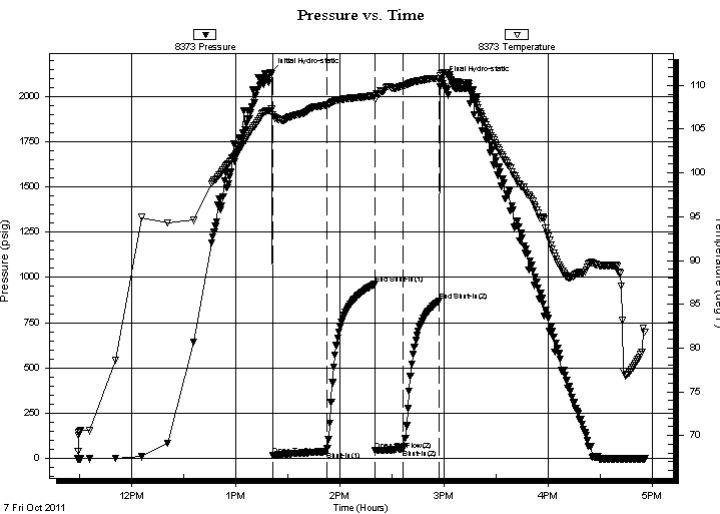
15-16-33 Scott, KS
Doornbos 1-15
 Job Ticket: 43840 **DST#: 4**
 Test Start: 2011.10.07 @ 11:28:44

GENERAL INFORMATION:

Formation: **Marmaton**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 13:21:09
 Time Test Ended: 16:55:38
 Interval: **4361.00 ft (KB) To 4447.00 ft (KB) (TVD)**
 Total Depth: 4447.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Brandon Turley
 Unit No: 35
 Reference Elevations: 3043.00 ft (KB)
 3038.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 8373 Inside
 Press @ Run Depth: 51.31 psig @ 4362.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2011.10.07 End Date: 2011.10.07 Last Calib.: 2011.10.07
 Start Time: 11:28:44 End Time: 16:55:38 Time On Btm: 2011.10.07 @ 13:19:54
 Time Off Btm: 2011.10.07 @ 14:58:39

TEST COMMENT: IF: 1/4 blow died in 19 min.
 IS: No return.
 FF: No blow.
 FS: No return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2131.77	107.16	Initial Hydro-static
2	18.18	106.66	Open To Flow (1)
33	38.75	107.76	Shut-In(1)
61	963.07	108.86	End Shut-In(1)
61	44.41	108.43	Open To Flow (2)
77	51.31	109.92	Shut-In(2)
98	871.65	110.77	End Shut-In(2)
99	2085.12	111.35	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
65.00	mud trace of oil 100% m	0.32

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Gand Mesa Operating

15-16-33 Scott, KS

1700 N Waterfront PKWY BLDG 600
Wichita, Ks 67206

Doornbos 1-15

Job Ticket: 43840

DST#: 4

ATTN: Bob Schreiber

Test Start: 2011.10.07 @ 11:28:44

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 58.00 sec/qt

Cushion Volume:

bbf

Water Loss: 7.80 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 5500.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
65.00	mud trace of oil 100%m	0.320

Total Length: 65.00 ft Total Volume: 0.320 bbf

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

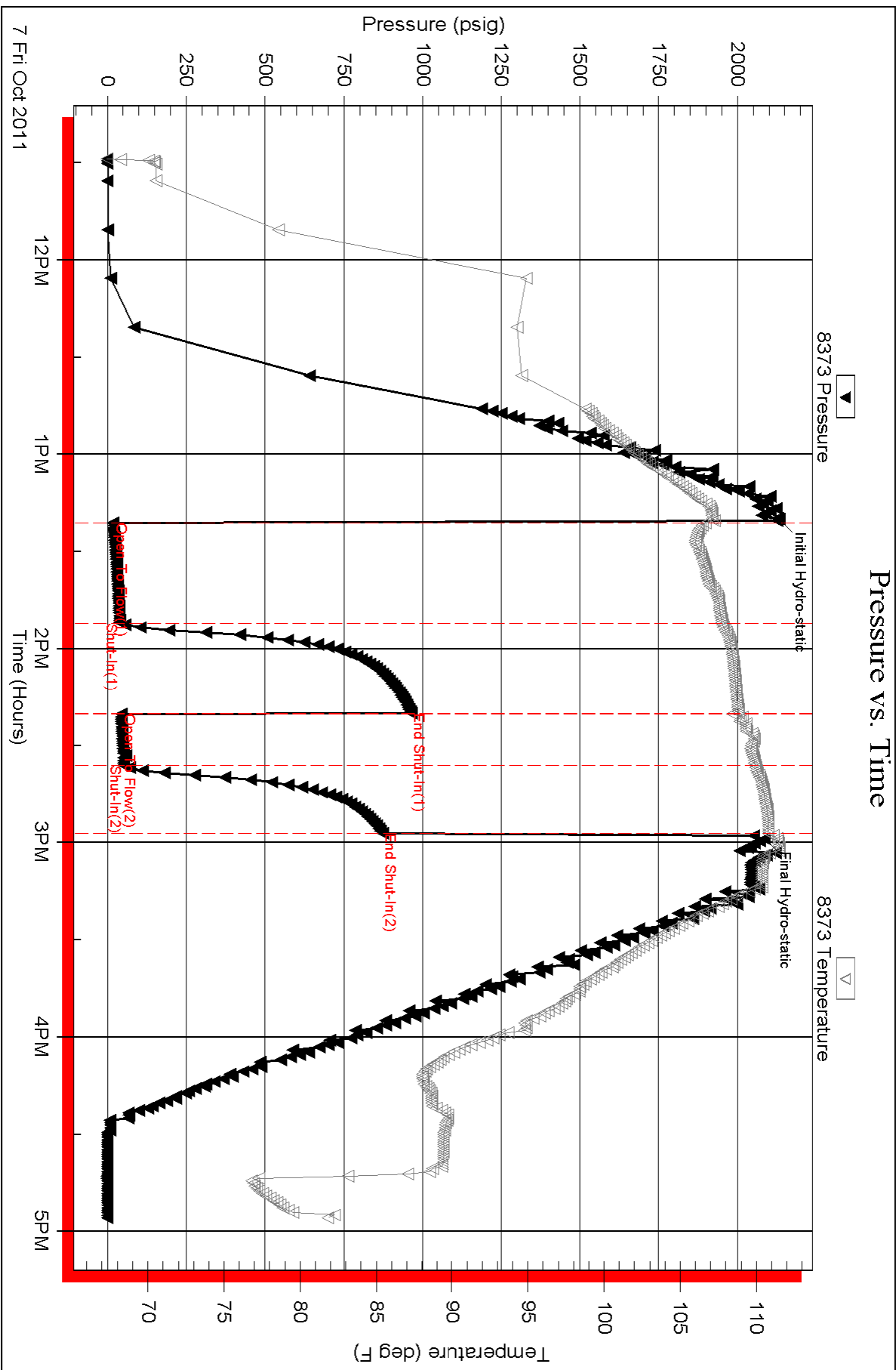
Serial #: 8373

Inside

Gand Mesa Operating

Doornbos 1-15

DST Test Number: 4





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Gand Mesa Operating

15-16-33 Scott, KS

1700 N Waterfront PKWY BLDG 600
Wichita, Ks 67206

Doornbos 1-15

Job Ticket: 43841

DST#: 5

ATTN: Bob Schreiber

Test Start: 2011.10.08 @ 14:39:07

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 55.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.40 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 4200.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
3.00	mud 100%m	0.015

Total Length: 3.00 ft Total Volume: 0.015 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

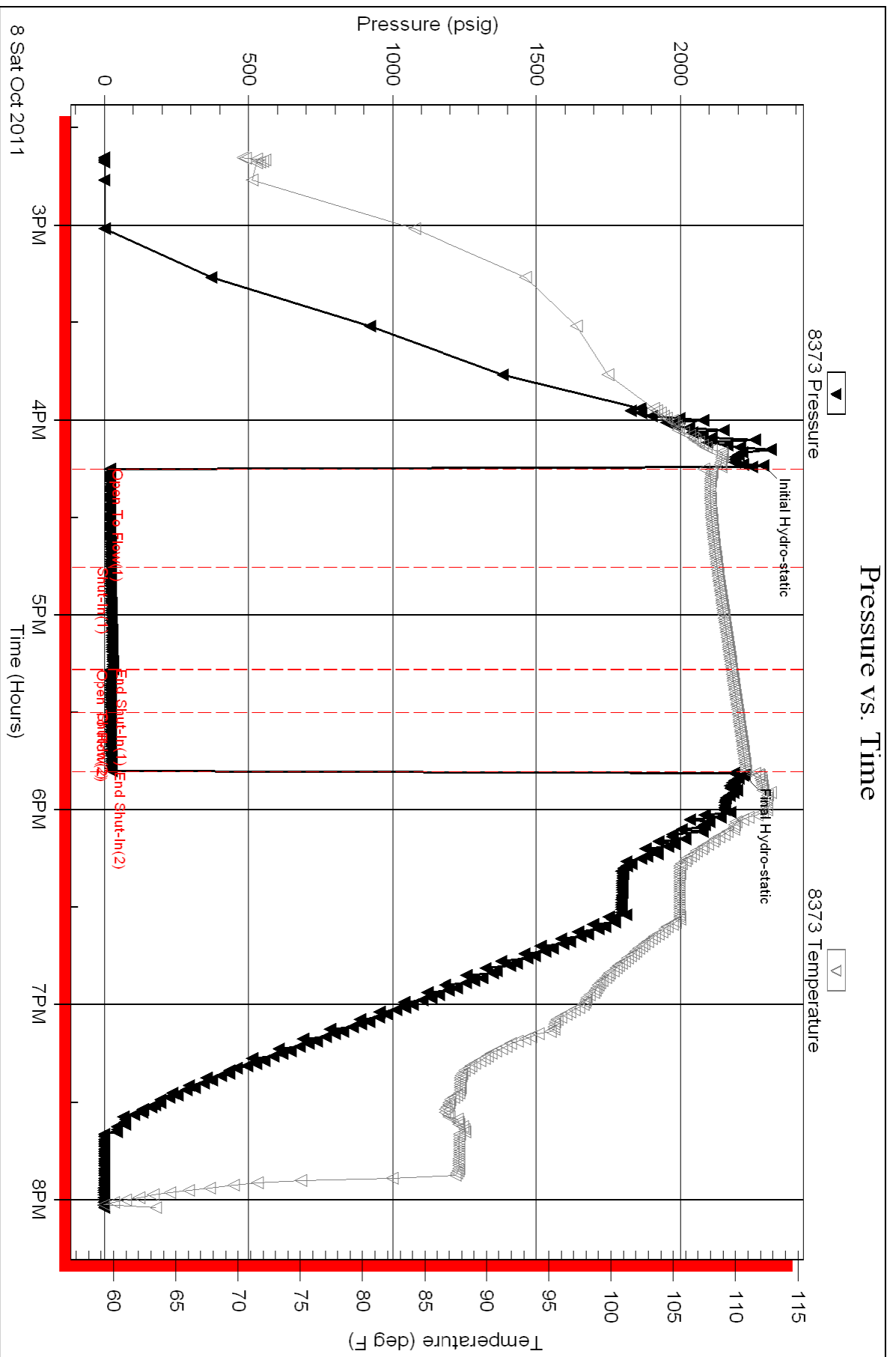
Serial #: 8373

Inside

Gand Mesa Operating

Doorbos 1-15

DST Test Number: 5





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Gand Mesa Operating
1700 N Waterfront PKWY BLDG 600
Wichita, Ks 67206
ATTN: Bob Schreiber

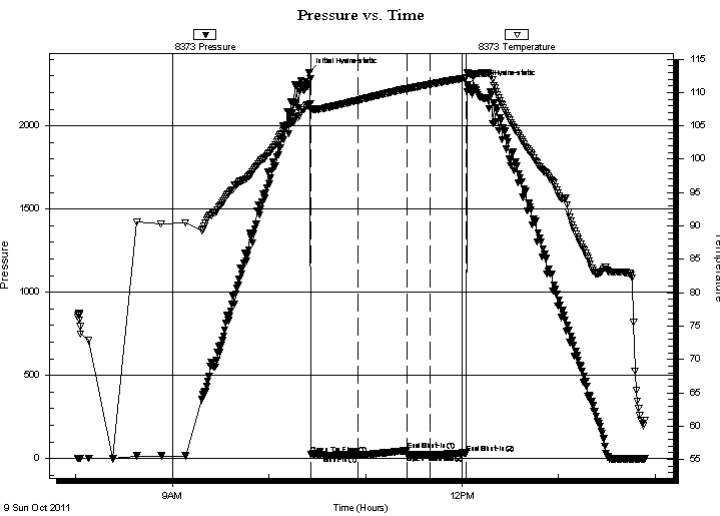
15-16-33 Scott, KS
Doornbos 1-15
Job Ticket: 43842 **DST#: 6**
Test Start: 2011.10.09 @ 08:01:02

GENERAL INFORMATION:

Formation: **Atoka**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 10:26:12
Time Test Ended: 13:53:26
Interval: **4621.00 ft (KB) To 4669.00 ft (KB) (TVD)**
Total Depth: 4669.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good
Test Type: Conventional Bottom Hole (Reset)
Tester: Brandon Turley
Unit No: 35
Reference Elevations: 3043.00 ft (KB)
3038.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 8373 Inside
Press @ Run Depth: 22.51 psig @ 4622.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2011.10.09 End Date: 2011.10.09 Last Calib.: 2011.10.09
Start Time: 08:01:02 End Time: 13:53:26 Time On Btm: 2011.10.09 @ 10:24:57
Time Off Btm: 2011.10.09 @ 12:03:27

TEST COMMENT: IF: Surface blow died in 6 min.
IS: No return.
FF: No blow.
FS: No return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2321.86	108.20	Initial Hydro-static
2	26.14	107.41	Open To Flow (1)
31	20.49	108.84	Shut-In(1)
61	48.84	110.57	End Shut-In(1)
61	23.13	110.56	Open To Flow (2)
76	22.51	111.24	Shut-In(2)
98	34.02	112.21	End Shut-In(2)
99	2248.99	112.91	Final Hydro-static

Recovery

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

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Gand Mesa Operating

15-16-33 Scott, KS

1700 N Waterfront PKWY BLDG 600
Wichita, Ks 67206

Doornbos 1-15

Job Ticket: 43842

DST#: 6

ATTN: Bob Schreiber

Test Start: 2011.10.09 @ 08:01:02

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 55.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.39 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 4200.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	mud oil spots 100%m	0.025

Total Length: 5.00 ft Total Volume: 0.025 bbl

Num Fluid Samples: 0

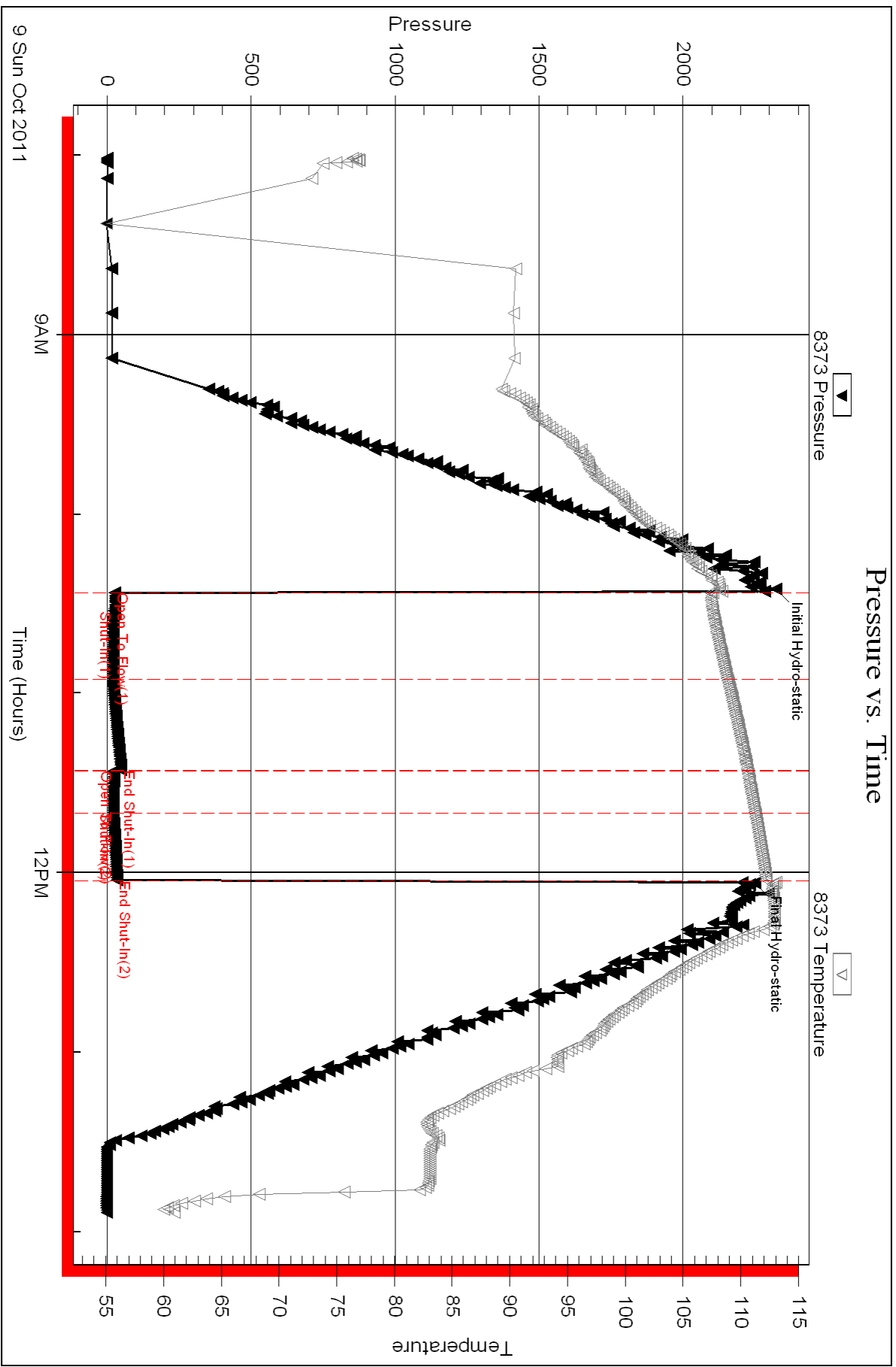
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Gand Mesa Operating
1700 N Waterfront PKWY BLDG 600
Wichita, Ks 67206
ATTN: Bob Schreiber

15-16-33 Scott, KS
Doornbos 1-15
Job Ticket: 43843 **DST#: 7**
Test Start: 2011.10.10 @ 00:46:52

GENERAL INFORMATION:

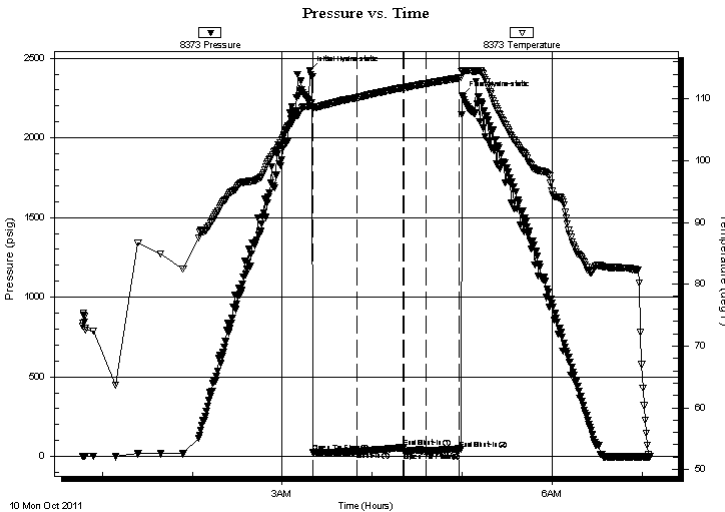
Formation: **Marrow sand**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 03:20:22
Time Test Ended: 07:04:52
Interval: **4662.00 ft (KB) To 4712.00 ft (KB) (TVD)**
Total Depth: 4712.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good
Test Type: Conventional Bottom Hole (Reset)
Tester: Brandon Turley
Unit No: 35
Reference Elevations: 3043.00 ft (KB)
3038.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 8373

Press @ Run Depth: 39.38 psig @ ft (KB) Capacity: 8000.00 psig
Start Date: 2011.10.10 End Date: 2011.10.10 Last Calib.: 2011.10.10
Start Time: 00:46:57 End Time: 07:04:51 Time On Btm: 2011.10.10 @ 03:18:22
Time Off Btm: 2011.10.10 @ 04:59:52

TEST COMMENT: IF: 1/4 blow died in surface blow.
IS: No return.
FF: No blow.
FS: No return.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2423.67	108.88	Initial Hydro-static
2	24.77	108.33	Open To Flow (1)
32	32.61	110.21	Shut-In(1)
63	55.41	111.81	End Shut-In(1)
63	29.25	111.81	Open To Flow (2)
78	39.38	112.46	Shut-In(2)
100	48.09	113.37	End Shut-In(2)
102	2263.12	114.57	Final Hydro-static

Recovery

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

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Gand Mesa Operating

15-16-33 Scott, KS

1700 N Waterfront PKWY BLDG 600
Wichita, Ks 67206

Doornbos 1-15

Job Ticket: 43843

DST#: 7

ATTN: Bob Schreiber

Test Start: 2011.10.10 @ 00:46:52

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 58.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.40 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 4900.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	mud 100%m	0.025

Total Length: 5.00 ft Total Volume: 0.025 bbl

Num Fluid Samples: 0

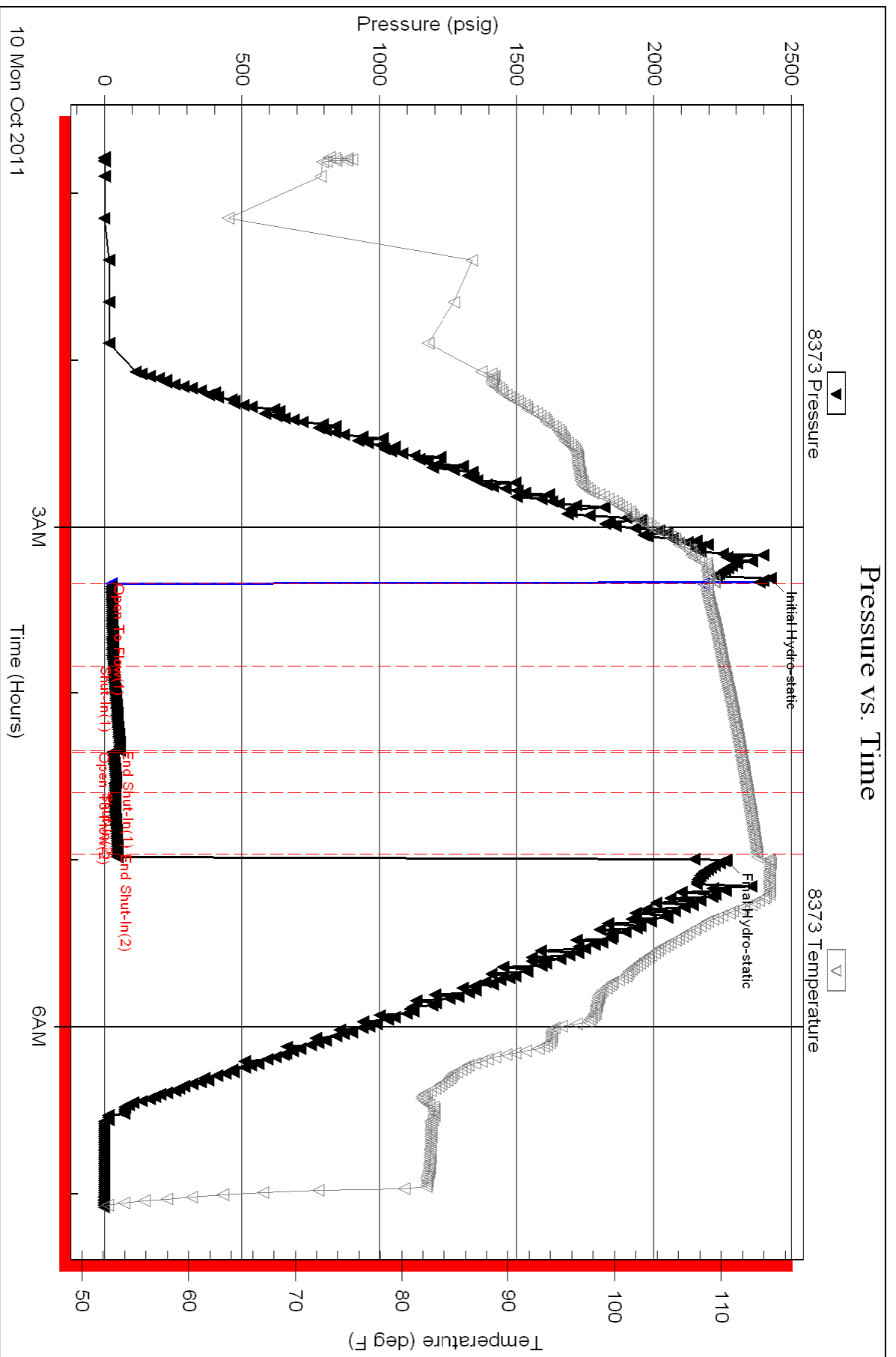
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Gand Mesa Operating
1700 N Waterfront PKWY BLDG 600
Wichita, Ks 67206
ATTN: Bob Schreiber

15-16-33 Scott, KS
Doornbos 1-15
Job Ticket: 43844 **DST#: 8**
Test Start: 2011.10.10 @ 17:25:54

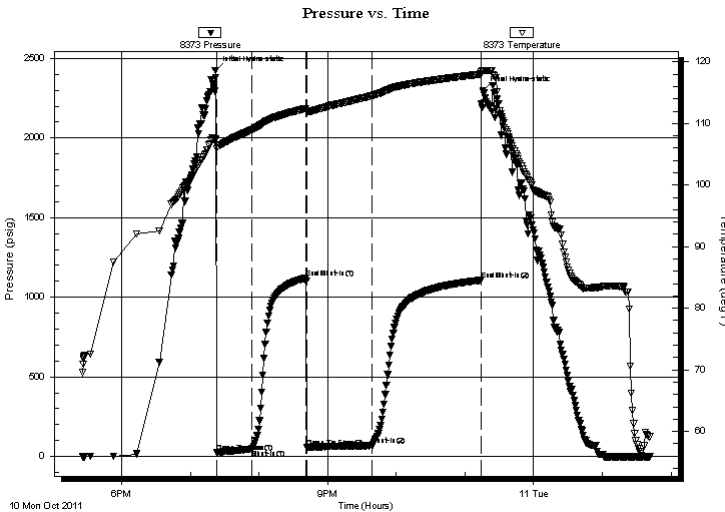
GENERAL INFORMATION:

Formation: **Miss**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 19:23:04
Time Test Ended: 01:41:33
Interval: **4717.00 ft (KB) To 4768.00 ft (KB) (TVD)**
Total Depth: 4768.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good
Test Type: Conventional Bottom Hole (Reset)
Tester: Brandon Turley
Unit No: 35
Reference Elevations: 3043.00 ft (KB)
3038.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 8373 Inside
Press @ Run Depth: 68.94 psig @ 4718.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2011.10.10 End Date: 2011.10.11 Last Calib.: 2011.10.11
Start Time: 17:25:54 End Time: 01:41:33 Time On Btm: 2011.10.10 @ 19:21:49
Time Off Btm: 2011.10.10 @ 23:15:48

TEST COMMENT: IF: 1/4 blow built to 6 in 30 min.
IS: No return.
FF: 1/4 blow BOB in 38 min.
FS: Surface blow built to 2 in 90 min.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2424.67	107.58	Initial Hydro-static
2	24.93	105.96	Open To Flow (1)
32	46.41	108.96	Shut-In(1)
80	1120.95	112.46	End Shut-In(1)
80	58.23	111.95	Open To Flow (2)
137	68.94	114.51	Shut-In(2)
232	1106.87	118.01	End Shut-In(2)
234	2297.36	118.62	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
90.00	gocm 10%g 10%o 80%m	0.44
60.00	oil 100%o	0.58
0.00	217 GIP	0.00

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Gand Mesa Operating

15-16-33 Scott, KS

1700 N Waterfront PKWY BLDG 600
Wichita, Ks 67206

Doornbos 1-15

Job Ticket: 43844

DST#: 8

ATTN: Bob Schreiber

Test Start: 2011.10.10 @ 17:25:54

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

28 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 51.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.97 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 5500.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
90.00	gocm 10%g 10%o 80%m	0.443
60.00	oil 100%o	0.577
0.00	217 GIP	0.000

Total Length: 150.00 ft Total Volume: 1.020 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: 28@60=28

Serial #: 8373

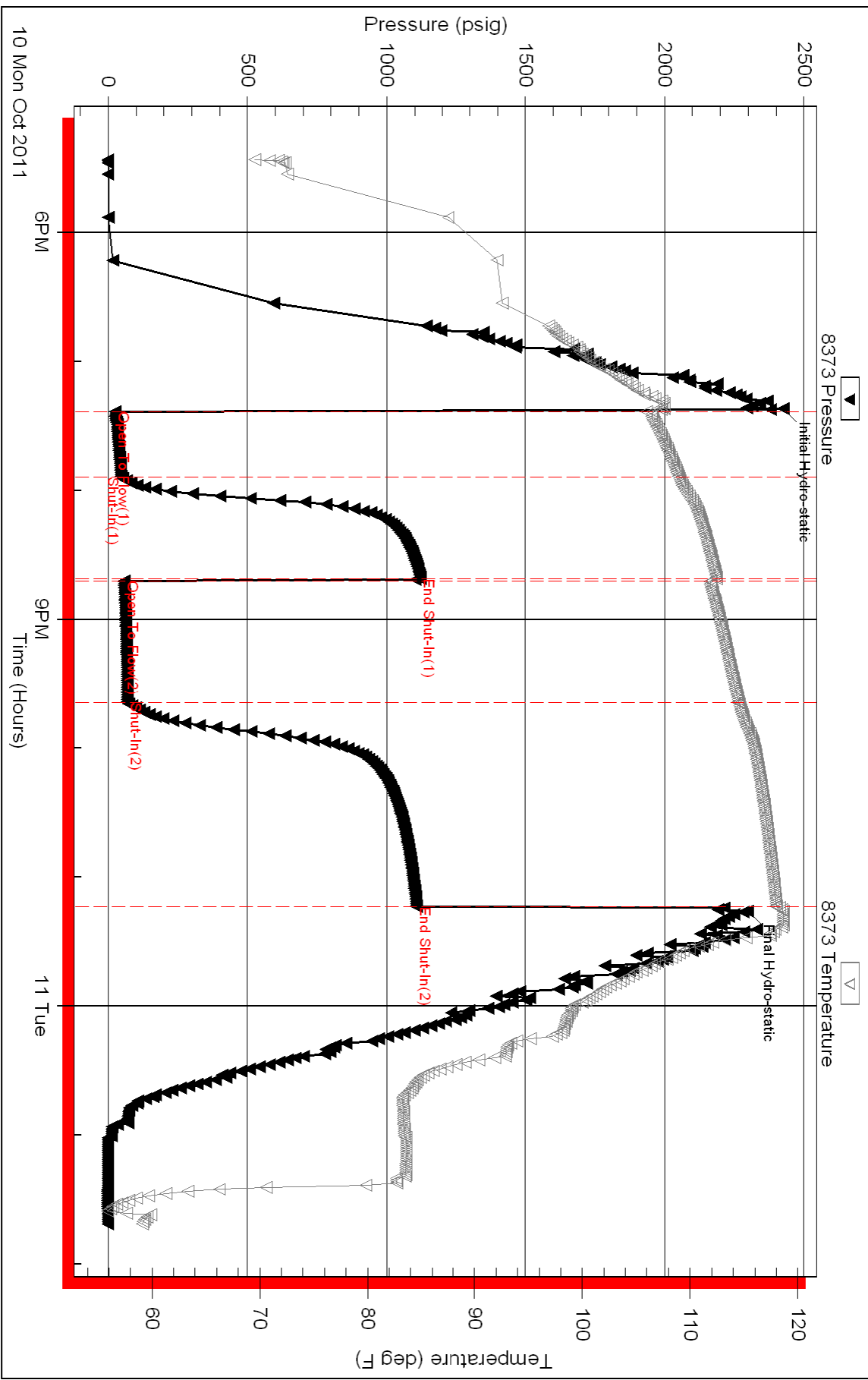
Inside

Gand Mesa Operating

Doorbros 1-15

DST Test Number: 8

Pressure vs. Time



Triobite Testing, Inc

Ref. No: 43844

Printed: 2011.10.11 @ 07:38:57

JOB LOG

SWIFT Services, Inc.

DATE 12 OCT 11 PAGE NO.

CUSTOMER Grand Mesa WELL NO. 1-15 LEASE Doornbas JOB TYPE Cement long string TICKET NO. 22328

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
								175 sk SA-2 300sk SMD 5 1/2" 15.5" casing centralizers 246810.12.14.57 Basket 2, 58 DV tool 2401' top #58 4849' pipe TD = 4850' ply block 4828 21' shoejt
	1300							on loc TRK 114
	1340							start 5 1/2" 15.5" casing in well Drop ball - circulate - ROTATE (PIPE TOSQUING UP - STOP ROTATING)
	1612	4 3/4 4 3/4	42			200 200		MIX 175 sk SA-2 cement @ 15.3 PPG
								Drop 1st stage plug wash out pump & lines Displace plug w/ H2O Pump mud
	1620	6 3/4 5	58 110			800		
	1630	5	116			1600		Land plug Release pressure to truck - dried up
								circulate Drop bomb wash truck
	1705					1000		open DV tool circulate well w/ MUD PUMP
								Pump KCL H2O Plug RH-MH (30sk - 20sk)
	1750	4 3/4 4 3/4	166			200 200		MIX 300sk SMD cement @ 11.2 PPG
								Drop 2nd stage plug
	1752	6 3/4 6 3/4	150			200 350		Displace plug cement to surface - 30sk tapit
	1820		57			2000		Land Plug - close DV tool Release pressure to truck - dried up wash truck
	1910							job complete Mark Blair Dgan Dex 2 Job

Acidizing Report

PRO-STIM CHEMICALS

Date 11-3-11

Customer <u>Grand Mesa</u>	Pro-Stim Chemical Yard <u>Dighton</u>	Pro-Stim Number <u>58834</u>
Well Name & Number <u>Dronbas #115</u>	Field	Formation <u>Spot</u>
County <u>Scott</u> State <u>KS</u>	BHT	YD
		Interval <u>4740-4747</u>

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

Job Pumped Via: Tubing Casing Annulus CTU Combination Plug Depth _____ Packer Depth _____

Casing Size: <u>5 1/2</u>	GRD	WT <u>15.5</u>	Depth	Tubing Size: <u>2 7/8</u>	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:

500 15% with AS-290
28 4% KCL

Treatment Record

Time	Type Fluid	Rate BMP	Increment Vol Bbls	Cum Vol Bbls	Pressure		Observations
					Tubing	Casing	
							Safety Meeting
<u>1</u>	<u>Acid</u>			<u>2</u>	<u>SPOTTED</u>		Prs Test to _____ psi
<u>11</u>	<u>Acid</u>	<u>5</u>		<u>12</u>	<u>0</u>	<u>0</u>	<u>Acid Conf</u>
<u>16</u>	<u>Flush</u>	<u>5</u>		<u>30</u>	<u>0</u>	<u>0</u>	<u>well load</u>
<u>21</u>	<u>Flush</u>	<u>0</u>		<u>30</u>	<u>300</u>	<u>0</u>	
<u>31</u>	<u>Flush</u>	<u>0</u>		<u>30</u>	<u>500</u>	<u>0</u>	
<u>41</u>	<u>Flush</u>	<u>0</u>		<u>30.1</u>	<u>600</u>	<u>0</u>	
<u>51</u>	<u>Flush</u>	<u>0</u>		<u>30.1</u>	<u>700</u>	<u>0</u>	
<u>61</u>	<u>Flush</u>	<u>.5</u>		<u>30.8</u>	<u>800</u>	<u>0</u>	
<u>67</u>	<u>Flush</u>	<u>.5</u>		<u>34.2</u>	<u>680</u>	<u>0</u>	
<u>75</u>	<u>Flush</u>	<u>.5</u>		<u>38</u>	<u>680</u>	<u>0</u>	
<u>80</u>	<u>Flush</u>	<u>.5</u>		<u>40</u>	<u>680</u>	<u>0</u>	

Treatment Synopsis

Avg Inj Rate	Fluid BPM	Total Injected	H2O <u>28</u>	Acid <u>12</u>	Oil
Treating Prs	Max <u>200</u>	Final <u>680</u>	Avg. <u>700</u>	ISIP <u>680</u>	5'SI <u>670</u> 10'SI <u>650</u> 15'SI <u>630</u>
Customer Representative			Pro-Stim Supervisor		

Pro-Stim Chemicals, LLC

P.O. Box 25
 Cheyenne Wells, CO 80810

NOV 16 2011

Invoice

Date	Invoice #
11/10/2011	58836

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	S M	11/3/2011	DOORNBOS 1- 16 15

Quantity	Item Code	Description	Price Each	Amount
500	15% HCl ACID	GALLONS	1.78	890.00
18	AS-290	GALLONS	32.46	584.28
2	S-262	GALLONS	14.36	28.72
2	AC-307	GALLONS	18.61	37.22
1.5	AI-150	GALLONS	20.15	30.23
28	KCL BIOCID - 2%	BRLS	3.16	88.48
1	DUMP JOB		158.00	158.00T
3	TRUCK TIME	HOURS	95.00	285.00T
		Sales Tax - SCOTT CO.	8.30%	36.77

			Total	\$2,138.70
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Phone #	Fax #	E-mail
719-767-8071	719-767-5925	prostim@hotmail.com

- 3420791

Pro-Stim Chemicals, LLC

P.O. Box 25
 Cheyenne Wells, CO 80810

NOV 16 2011

Invoice

Date	Invoice #
11/14/2011	58925

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	S M	11/4/2011	DOORNBOS 1-16 15

Quantity	Item Code	Description	Price Each	Amount
2,000	RWR-1 15%	GALLONS	2.82	5,640.00
40	AS-290	GALLONS	32.46	1,298.40
30	AD-795	GALLONS	37.50	1,125.00
28	KCL BIOCIDE - 2%	BRLS	3.16	88.48
1	DUMP JOB		158.00	158.00T
3.5	TRUCK TIME	HOURS	95.00	332.50T
		Sales Tax - SCOTT CO.	8.30%	40.71

			Total	\$8,683.09
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Phone #	Fax #	E-mail
719-767-8071	719-767-5925	prostim@hotmail.com

PK

Acidizing Report

PRO-STIM CHEMICALS

Date 11/8/11

Customer <u>Grand Mesa</u>	Pro-Stim Chemical Yard <u>Dighton</u>	Pro-Stim Number <u>59022</u>
Well Name & Number <u>Doornbos #1-15</u>	Field	Formation <u>Spot</u>
County <u>SCOTT</u>	State <u>KS</u>	BHT
	YD	Interval

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

Job Pumped Via: Tubing Casing Annulus CTU Combination Plug 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:

5000 Gal 15% Ad-715-AS-290
140 BBL 4% KCL water with scale Inhib

Treatment Record

Time	Type Fluid	Rate BMP	Increment Vol Bbls	Cum Vol Bbls	Pressure		Observations
					Tubing	Casing	
							Safety Meeting
							Prs Test to _____ psi
1	Acid	6		10			
3	Acid	6		24			1st Acid
10	Flush	6		48			1st Flush
12	Acid	5.2		51			well loaded
13	Acid	3.2		55			
20	Acid	3.2		72			2nd Acid
28	Flush	3		96			2nd Flush
36	Acid	2.6		120			3rd Acid
44	Flush	2.9		144			3rd Flush
52	Acid	2.9		168			4th Acid
60	Flush	3.4		192			4th Flush
68	Acid	3.4		216			5th Acid
76	Flush	3.4		237			Flush
84	Flush	3.2		258			Flush

Treatment Synopsis

Avg Inj Rate	Fluid BPM <u>3</u>	Total Injected	H2O <u>138</u>	Acid <u>120</u>	Oil	<u>650mls</u>
Treating Prs.	Max <u>1200</u>	Final <u>1160</u>	Avg. <u>1120</u>	ISIP <u>900</u>	5'SI <u>850</u>	10'SI <u>780</u>
Customer Representative	<u>John A. [Signature]</u>			Pro-Stim Supervisor		
					15'SI <u>710</u>	

Pro-Stim Chemicals, LLC

P.O. Box 25
 Cheyenne Wells, CO 80810

NOV 18 2011

Invoice

Date	Invoice #
11/14/2011	59022

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	TP	11/8/2011	DOORNBOS 1-16

Quantity	Item Code	Description	Price Each	Amount
5,000	15% HCl ACID	GALLONS	1.78	8,900.00
100	AD-795	GALLONS	37.50	3,750.00
55	AS-290	GALLONS	32.46	1,785.30
20	AC-307	GALLONS	18.61	372.20
30	S-262	GALLONS	14.36	430.80
15	AI-150	GALLONS	20.15	302.25
1	DUMP JOB		158.00	158.00T
5.5	TRUCK TIME	HOURS	95.00	522.50T
10	KC-L8KW	GALLONS	13.88	138.80
		Sales Tax - LOGAN CO.	7.80%	53.08

			Total	\$16,412.93
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Phone #	Fax #	E-mail
719-767-8071	719-767-5925	prostim@hotmail.com