



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1074171
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: _____

1074171

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> _____
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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	Phelps 3-17
Doc ID	1074171

All Electric Logs Run

DI Log
CD/N PE Log
Micro Log
Dual Receiver Cement Bond Log

Form	ACO1 - Well Completion
Operator	Grand Mesa Operating Company
Well Name	Phelps 3-17
Doc ID	1074171

Tops

Name	Top	Datum
Stone Corral	1740	+726
Bs/Stone Corral	1771	+695
Heebner	3780	-1314
Lansing	3820	-1354
Drum	3983	-1517
Stark	4057	-1591
Marmaton	4158	-1692
Excello	4310	-1844
Mississippian	4406	-1940
LTD	4631	

GRAND MESA OPERATING COMPANY

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

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

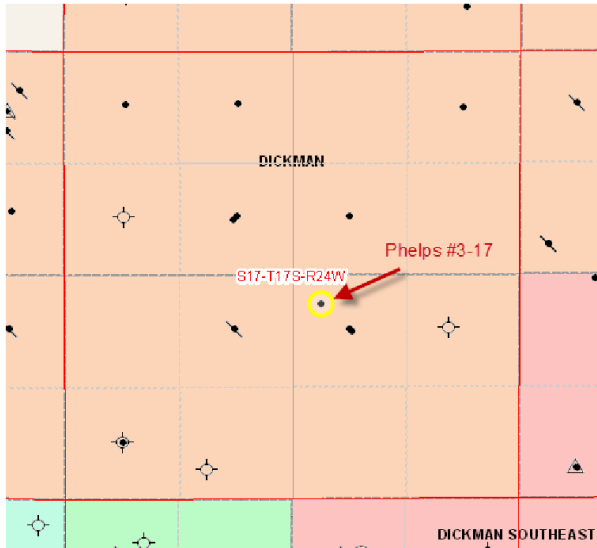
Scale 1:240 (5"=100') Imperial
Measured Depth Log

Well Name: PHELPS #3-17
 Location: 2263' FSL, 2310' FEL, 17-17s-24w, NESS County, Kansas
 License Number: API: 15-135-25336 Region: NESS County
 Spud Date: 01/04/2012 Drilling Completed: 01/12/2012
 Surface Coordinates: Lat: 38.5720329
 Long: -100.000096
 Bottom Hole Coordinates: Vertical hole
 Ground Elevation (ft): 2461' K.B. Elevation (ft): 2466'
 Logged Interval (ft): 3600' To: RTD Total Depth (ft): 4626'
 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: Kent R. Matson
 Company: Matson Geological Services, LLC
 Address: 33300 W. 15th Street S.
 Garden Plain, Kansas 67050
 316-644-1975



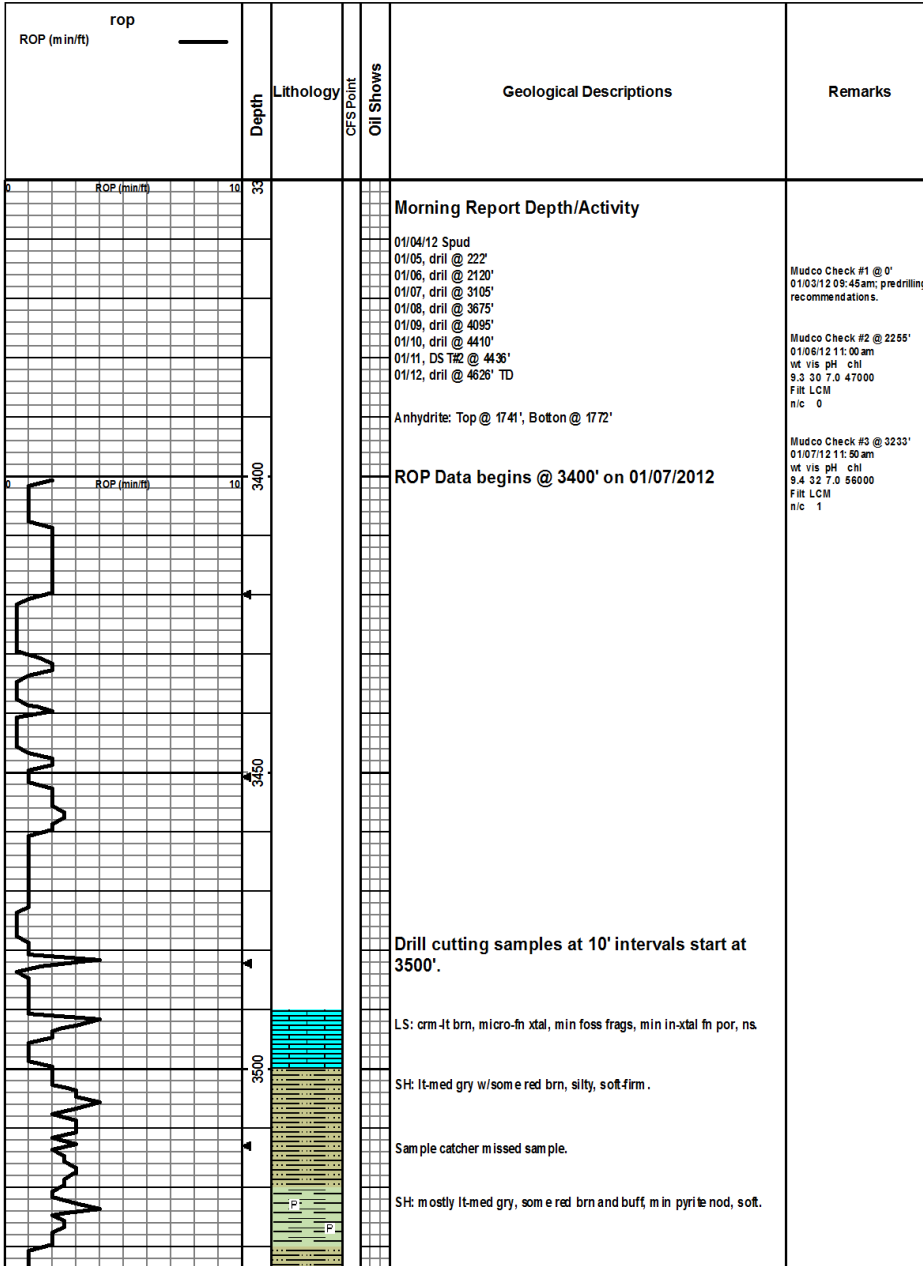
COMMENTS

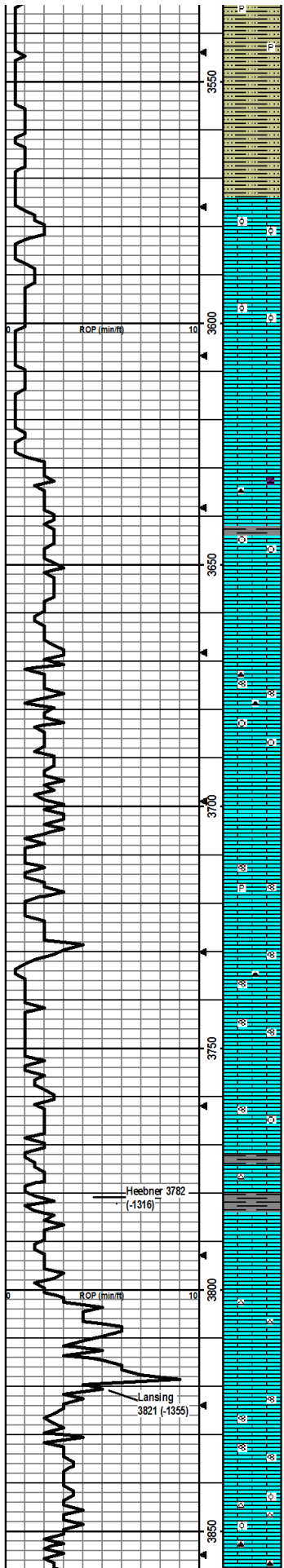
Contractor: Murfin Drilling Company Rig #24
 Pusher: Tony Martin
 Surface Casing: 8 5/8" set at 222' (KB) w/165sx concrete
 Production Casing: Production casing (5 1/2") was installed to RTD.
 Mud by: MudCo
 DST's by: Tribolite Testing
 Logs by: Superior Well Services (DIL, CN-CD, ML)
 RTD= 4626'
 LTD= 4631'

FORMATION TOPS

FORMATION	SAMPLE TOPS		LOG TOPS	
	Depth	Datum	Depth	Datum
Heebner Shale	3782'	-1316	3780'	-1314
Lansing	3821'	-1355	3820'	-1354

Stark Shale	4059'	-1593	4057'	-1591
Hushpuckney Shale	4095'	-1629	4088'	-1622
Marmaton	4161'	-1695	4158'	-1692
Excello Shale	4312'	-1846	4310'	-1844
Fort Scott	4349'	-1853	4316'	-1850
Mississippian	4313'	-1947	4406'	-1940
RTD	4626'	-2160		
LTD			4631'	-2165





Sht: med gry/red brn, min amt out, silty, min pyrite nod, sort

Drilling fast - skipped sample.

SH: lt-med gry/red brn, silty, soft

Skipped sample.

LS: lt gry/lt brn, micro-fn xtal, ool nods, silty, some pcs w/good oo-castic vug por, ns.

Skipped sample.

LS: lt gry/crm-lt brn, micro-fn xtal, silty, ool, some pcs w/good oo-castic por, ns.

Skipped sample.

Skipped sample.

LS: lt gry/lt-med brn, micro-fn xtal, min foss frags, min pcs w/ppt-fn por, ns.

LS: med gry/ish brn - dk brn, micro-fn xtal, foss frags w/fusin, min dk gry/blk chert, min dk brn doio, min fn in-xtal por, ns

LS: crm-lt gry/ish brn, micro-fn xtal, foss frags w/min crin, few pcs med gry soft SH, min frac por, ns.

LS: lt gry/crm-lt brn, micro-fn xtal, foss frags, min frac por, ns.

LS: crm-med brn, micro-fn xtal, foss frags, silty, min frac por, ns.

LS: lt gry/crm-lt brn, micro-fn xtal, foss frags w/min fusin, gry chert, min frac por, ns.

LS: crm-med brn, micro-med xtal, foss frags/crin, stly pyritic, some soft chalky pcs, min frac por, ns

LS: lt gry/crm, micro-fn xtal, min foss frags, no vis por, ns

Same as above.

LS: lt-med gry/ish brn, micro-fn xtal, min foss frags/fusin, stly pyritic, min frac por, ns

LS: lt gry/ish brn, micro-fn xtal, min foss frags, min frac por, ns

LS: lt-med brn/ish gry, micro-med xtal, min foss frags/fusin, some lt gry chert, min frac por, ns.

LS: lt gry/crm-med brn, micro-fn xtal, foss frags/fusin, min in-xtal/frac por, ns.

LS: crm-lt gry/ish brn, micro-fn xtal, min foss frags, some lt gry chert, min frac por, ns.

LS: crm-med brn, micro-med xtal, foss frags/crin/fusin, min frac por, ns.

LS: lt gry/crm-med brn, micro-fn xtal, min foss frags, min lt gry chert, some med-dk gry SH, no vis por, ns.

SH: blk, carb, firm, fissile.

LS: lt gry/ish brn, micro-fn xtal, min foss frag, no vis por, ns.

LS: crm-lt brn, micro-fn xtal, min foss frags, min frac por, ns.

LS: lt gry/crm-lt brn, micro-med xtal, min foss frags, some soft silty, min lt gry chert, no vis por, ns.

LS: crm/lt-med gry, micro-fn xtal, min foss frags/fusin, some wht soft chalky pcs, min frac por, ns.

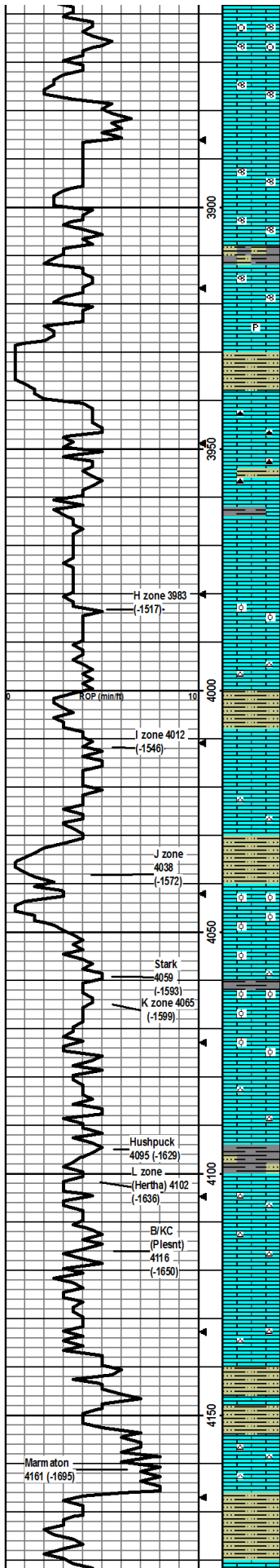
LS: lt greenish gry/crm-brn, micro-med xtal, foss frags/fusin, stly pyritic, min frac por, ns.

LS: lt-med gry/crm-med brn, micro-med xtal, foss frags/ool, some wht chert, min in-xtal/frac por, ns

LS: lt greenish gry/crm-dk brn, micro-med xtal, foss frags, some dk gry/blk chert, min frac por, ns.

Note: At 3628' FDC bit plugged. Ran sure-shot. Made bit trip and replaced with button rotary bit. Also strapped drill pipe - 1 ft short.

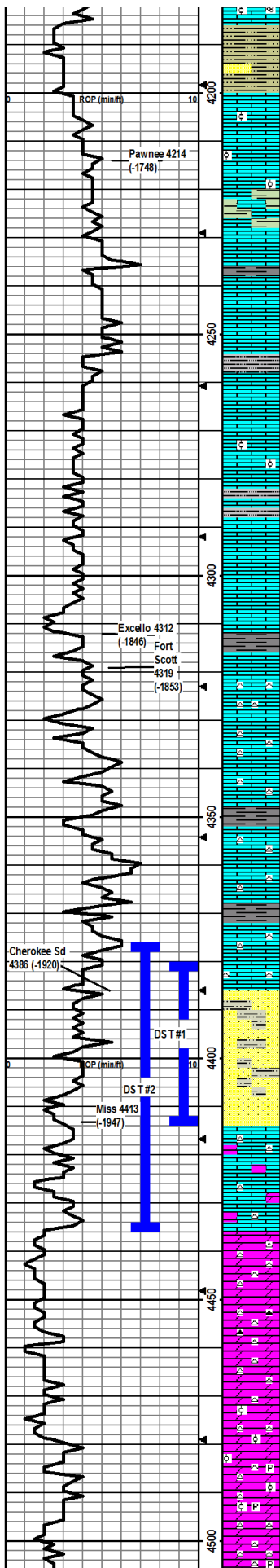
Mudco Check #4 @ 3784'
 01/08/12 11:30 am
 wt vis pH chl
 8.7 60 10.5 7200
 Filt LCM
 6.0 1



- LS: lt greenish gry/crm-dk brn, m micro-med xtal, foss frags/fusln/crin some pcs abund ool, m in in-xtal/frac por, ns.
- LS: crm-dk brn, m micro-med xtal, foss frags/fusln, some pyritic, min in-xtal/frac por, ns.
- LS: lt gry/crm-lt brn, m micro-fn xtal, foss frags, some lt gry chert, some med gry SH, no vis por, ns.
- LS: crm-lt brn, micro-fn xtal, foss frags/fusln, m in in-xtal/frac por, ns.
- LS: lt gry/crm-lt brn, m micro-med xtal, foss frags/fusln, in-xtal/frac por, ns.
- SH: med-dk gry, carb, soft-firm, fissile
- LS: crm-lt brn, micro-med xtal, foss frags/min fusln, some silty pcs, m in in-xtal/frac por, ns.
- LS: crm-brn, micro-med xtal, foss frags, min pyritic, m in in-xtal/frac por, ns.
- SH: med-dk gry/mustard yel, carb, silty, firm, fissile
- LS: crm-brn, micro-med xtal, foss frags, brn chert, min in-xtal/frac por, ns.
- LS: crm-dk brn, micro-med xtal, foss frags, some silty/chalky - crushes easily, some gry firm silty SH, m in brn chert, no vis por, ns.
- LS: crm-lt brn, micro-med xtal, foss frags, some gry-dk gry/blk and mustard yel firm silty SH, some fn in-xtal por, ns.
- LS same as above.
- LS: lt gry/crm-med brn, micro-med xtal, min foss frags w/some pcs of abund ool, mostly min frac por, ool pcs have good ool-castic por, ns.
- LS: crm-lt brn, micro-fn xtal, min foss frags, some wht-lt gry chert, no vis por, ns.
- SH: lt-dk gry/red-orange brn, silty, firm, fissile.
- LS: crm, micro-fn xtal, stly silty, no vis por, ns.
- LS: crm-lt brn, micro-fn xtal, min foss frags, wht-lt gry chert, no vis por, ns.
- SH: lt gry/lt greenish gry/med-dk gry/blk/red brn, silty, firm, fissile
- LS: crm-lt brn, micro-med xtal, abund ool, good vug ool-castic por, some wht soft chalky pcs, ns.
- LS: wht-crm, micro-fn xtal, min foss frags/ool, some wht chert, no vis por, ns.
- SH: med-dk gry/blk, carb, firm, fissile.
- LS: crm-lt brn, micro-med xtal, abund ool, some wht chalky pcs, good ool-castic vug por, ns.
- LS: lt gry/crm-lt brn, m micro-med xtal, min foss frags w/abund ool, good ool-castic por, ns.
- LS: lt gry/crm, m micro-fn xtal, silty, min wht chert, no vis por, ns.
- SH: med-dk gry/blk, carb, silty, firm, fissile
- LS: lt gry/crm, m micro-xtal, some silty, lt gry chert, no vis por, ns.
- LS: crm, m micro-fn xtal, min foss frags, lt brn chert, no vis por, ns.
- LS: lt gry/crm, m micro-fn xtal, m in foss frags, no vis por, ns.
- LS: crm/dk brn, m micro-med xtal, m in foss frags, some silty/sandy, some wht-lt brn chert, min frac por, ns.
- SH: lt-dk gry/lt greenish gry/red brn, firm-hard, some silty, fissile
- LS: crm, micro-xtal, no vis por, ns.
- SH same as above.
- LS: lt gry/crm, m micro-xtal, some wht/lt brn chert, no vis por, ns.
- SH: lt greenish gry/lt-med gry/red brn, some v-silty, soft-firm, fissile.

Mudco Check #5 @ 4152'
 01/09/12 11:35 am
 wt vis pH chl
 9.2 52 10.0 6500
 FIR LCM
 6.4 1

LS: lt gry/crm, m micro-fn xtal, some wht/lt brn chert, no vis por, ns.



LS: lt gry/med brn, some pcs med-grnd, min in-xtal por, ns.

SH: lt greenish gry/lt-dk gry/red brn, silty, firm.

SH same as above w/some dk gry v-f SS, hard but crushes moderately.

LS: crm-lt yel, micro-med xtal, some ool, some ool-castic por, ns.

LS: same as above.

LS/SH mix: SH is lt-dk gry/brn-red brn, soft-firm, carb, fissile; LS is crm-lt brn, micro-xtal, no vis por, ns.

LS as above w/SH; med-dk gry, carb, firm, brittle, fissile.

LS: crm/lt grysh brn, micro-xtal, no vis por, ns.

LS: crm-lt brn, micro-fn xtal, some foss frags, no vis por, ns.

SH: greenish gry/med-dk gry/red brn, firm, fissile.

LS: crm, micro-xtal, dense, no vis por, ns.

LS: wht/crm-brn, micro-med xtal, foss frags some pcs w/abund ool, min ool-castic por, ns.

LS/SH mix: SH is lt-med gry/red brn, silty, firm, fissile; LS is crm/lt gry, micro-med xtal, some pcs w/abund ool w/wug por, ns.

LS: lt-dk gry, micro-xtal, dense, no vis por, ns. Note: smpl is mostly SH.

LS: lt gry/crm, micro-fn xtal, silty which crushes easily, no vis por, ns.

SH: blk, carb, firm, fissile.

LS: lt gry/crm, micro-fn xtal, one pce w/gd vug por w/fo, gd odor, yel flor, sfo.

LS: crm, micro-xtal, some foss frags, abund lt brn chert, min fn in-xtal/frac por, gd odor, yel flor, slow yel cut, fo in sev'l pcs that crush easily, sfo.

Same as above.

LS: crm-lt brn, micro-fn xtal, sev ool nod, lt-med brn chert, silt pyritic, min frac por, no odor, ns.

SH: lt greenish gry/lt-med gry/dk brn, carb, soft-firm.

LS: crm-lt brn, micro-fn xtal, v-fn por, lt-med brn chert, gd odor, 8 pcs in tray w/fo, yel flor w/slow strm cut, gsfo.

LS: same as above w/4 pcs w/fo.

SH: lt green/med-dk gry/blk, firm, carb, fissile.

LS: crm-lt brn, micro-fn xtal, lt-med brn chert, fn in-xtal por, silt odor, yel flor, 4 pcs w/fo, gsfo.

SS: gry-dkgry, pred qrtz, v-f grnd, sr-wr, carb matrix, hard to crush, 10 pcs w/dk brn fo, gd odor, dull yel flor w/gd strm cut, gsfo.

SS as above. Approx 20 pcs w/fo in both 30min and 60m in sm pls. Appears to be less carb matrix, crushes a little easier than material above.

LS: lt gry/crm, micro-fn xtal, some lattice structure foss, some silty/sdy, some lt brn chert, some lt gry DOLO, gd fn-vug por, strg odor, yel flor, approx 25% of smpl tray w/vgsfo in both 30" and 60" smpls.

LS same as above w/vgsfo.

DOLO: lt grysh crm/crm, micro-fn xtal, some foss frags/lattice struct, lt gry/lt brn chert, fn-vug por, wk eff, strg odor, yel flor, approx 25% of tray w/vgsfo.

Same as above w/few pcs of dk gry/blk chert.

Decrease in the amt of pcs w/vuggy fo, est approx 15%.

DOLO: lt grysh crm/crm, micro-fn xtal, some pcs w/dk green m in, wht chert, few ool nodes, some wht chalky pcs, mostly min frac por, gd odor, less than 10% pcs w/fo vug por, gsfo.

Same as above w/decrease to 6 tray pcs w/vuggy fo, few dk brn pyritic pcs.

Same as above w/5 tray pcs w/vuggy por fo.

DOLO: wht/crm-lt brn, micro-fn xtal, some pyritic, increase in wht/lt gry chert, some wht chalky pcs, mostly dense w/6 tray pcs w/vuggy

Note: This Ft Scott top is a local pick and not equivalent to western Kansas.

DST1) 4380-4413
 30454560
 1st) w/ to fair surf blow built to 4.25" in 30 min, no BB.
 2nd) w/ to fair surf blow built to 5" in 45 min, no BB
 IFFP 20-50# FFP
 ISIP 1096# F SIP
 52-80# F SIP 1028#
 HP 2181-2129#
 Recvd: 50° O, 55' MCO, 60" HOCM.

Mudco Check #6 @ 4410'
 01/10/12 10:45am
 wt vis pH chl
 9.2 50 10.5 6000
 Filt LCM
 7.2 1

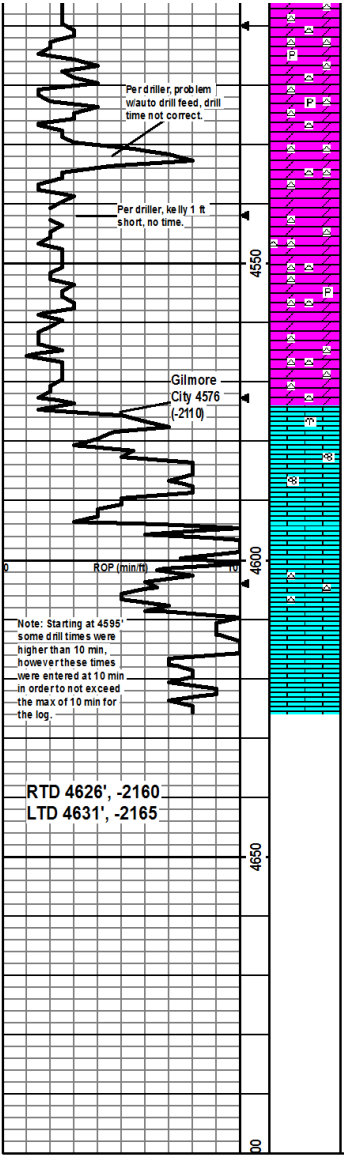
CFS @ 4413'
 30" 60"

CFS @ 4423'
 30" 60"

CFS @ 4436'
 30" 60"

Mudco Check #7 @ 4436'
 01/11/12 10:45am
 wt vis pH chl
 9.2 55 10.5 6400
 Filt LCM
 6.4 1

DST2) 4376-4436
 30454560
 1st) BOB in 3 min, no BB.
 2nd) BOB in 7 min, no BB.
 IFFP 76-238# FFP
 ISIP 1096# F SIP
 242-389# F SIP
 1055#
 HP 2208-2113#
 Recvd: 285' GMCO, 155' MO, 250' GVMCO, 185' MW



por fo, gd odor, sfo.

3 vuggy pcs w/sfo. Abund wht/lt gry chert.

Same as above 5 vuggy pcs w/sfo.

DOLO: wht/lt gry/crm-med brn, micro-fn xtal, brn pcs are v-silty, wht chalky pcs, abund wht-lt gry chert, fn-vug por, odor, yel flor, few pcs w/fo.

DOLO: wht/lt-med gry/crm-med brn, micro-fn xtal, some vry silty pcs, wht chalky pcs, abund wht/lt brn chert, fn-vug por, slt odor, one pcs w/fo.

DOLO: wht/crm-lt brn, micro-fn xtal, some lattice struct foss, vry silty, abund wht chert, slt pyritic, fn-vug por, ns.

DOLO: wht/crm, micro-fn xtal, vry silty, abund wht chert, vf ppt por, ns.

LS: brn/dk gry, micro-fn xtal, min bryzn foss, silty, no vis por, ns.

LS: lt gry/brn, micro-med xtal, foss frags/fusln, frac por, ns.

LS: lt gryish crm, micro-fn xtal, min in-xtal/frag por, ns.

LS: lt gryish crm/crm/lt brn, micro-fn xtal, abund wht chert, min in-xtal/frac por, ns.

LS: crm-lt brn, micro-med xtal, abund ool, min in-xtal/frac por, ns.

TD at 4626

CFS @ 4626' 30" @ 0". Cir total of 1.5 hrs to clean hole.



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Grand Mesa Operating Company
 1700 N Waterfront Pkw g Bldg 600 Wichita, Ks 67206
 ATTN: Kent Matson

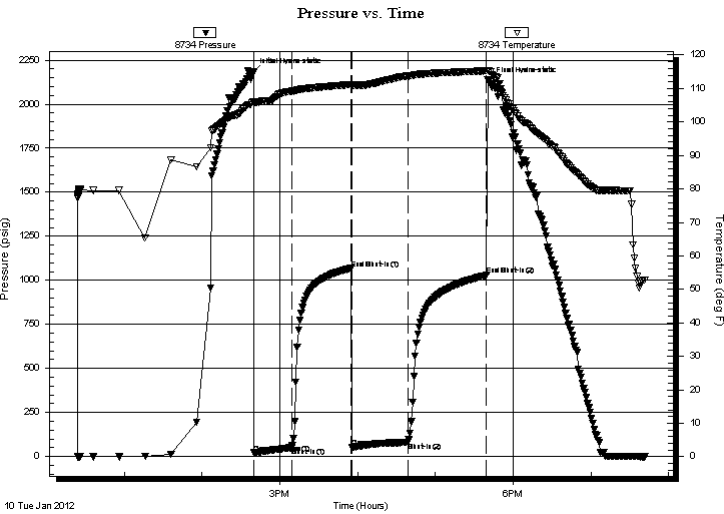
17-17-24 Ness, Ks
Phelps 3-17
 Job Ticket: 46405 **DST#: 1**
 Test Start: 2012.01.10 @ 12:23:49

GENERAL INFORMATION:

Formation: **Cherokee Sand**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 14:39:55
 Time Test Ended: 19:41:25
 Interval: **4384.00 ft (KB) To 4417.00 ft (KB) (TVD)**
 Total Depth: 4417.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Brian Fairbank
 Unit No: 41
 Reference Elevations: 2466.00 ft (KB)
 2461.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 8734 Outside
 Press @ Run Depth: 80.27 psig @ 4389.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2012.01.10 End Date: 2012.01.10 Last Calib.: 2012.01.10
 Start Time: 12:23:56 End Time: 19:41:25 Time On Btm: 2012.01.10 @ 14:38:55
 Time Off Btm: 2012.01.10 @ 17:41:25

TEST COMMENT: IFP - weak to fair blow sur - 4 1/4"
 ISI - no blow back
 FFP - weak to fair blow sur - 5"
 FSI - no blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2181.10	106.08	Initial Hydro-static
1	20.13	105.72	Open To Flow (1)
30	50.08	109.17	Shut-In(1)
76	1067.51	111.18	End Shut-In(1)
77	52.08	110.94	Open To Flow (2)
120	80.27	113.71	Shut-In(2)
181	1028.44	115.31	End Shut-In(2)
183	2129.41	115.24	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	HOCM 30%O, 70%M	0.30
55.00	MCO 60%O, 40%M	0.27
50.00	FREE OIL 95%O, 5%M	0.40

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Grand Mesa Operating Company

17-17-24 Ness, Ks

1700 N Waterfront Pkw g Bldg 600 Wichita, Ks
67206

Phelps 3-17

Job Ticket: 46405

DST#: 1

ATTN: Kent Matson

Test Start: 2012.01.10 @ 12:23:49

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

37 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.20 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 6000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
60.00	HOCM 30%O, 70%M	0.295
55.00	MCO 60%O, 40%M	0.270
50.00	FREE OIL 95%O, 5%M	0.401

Total Length: 165.00 ft

Total Volume: 0.966 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

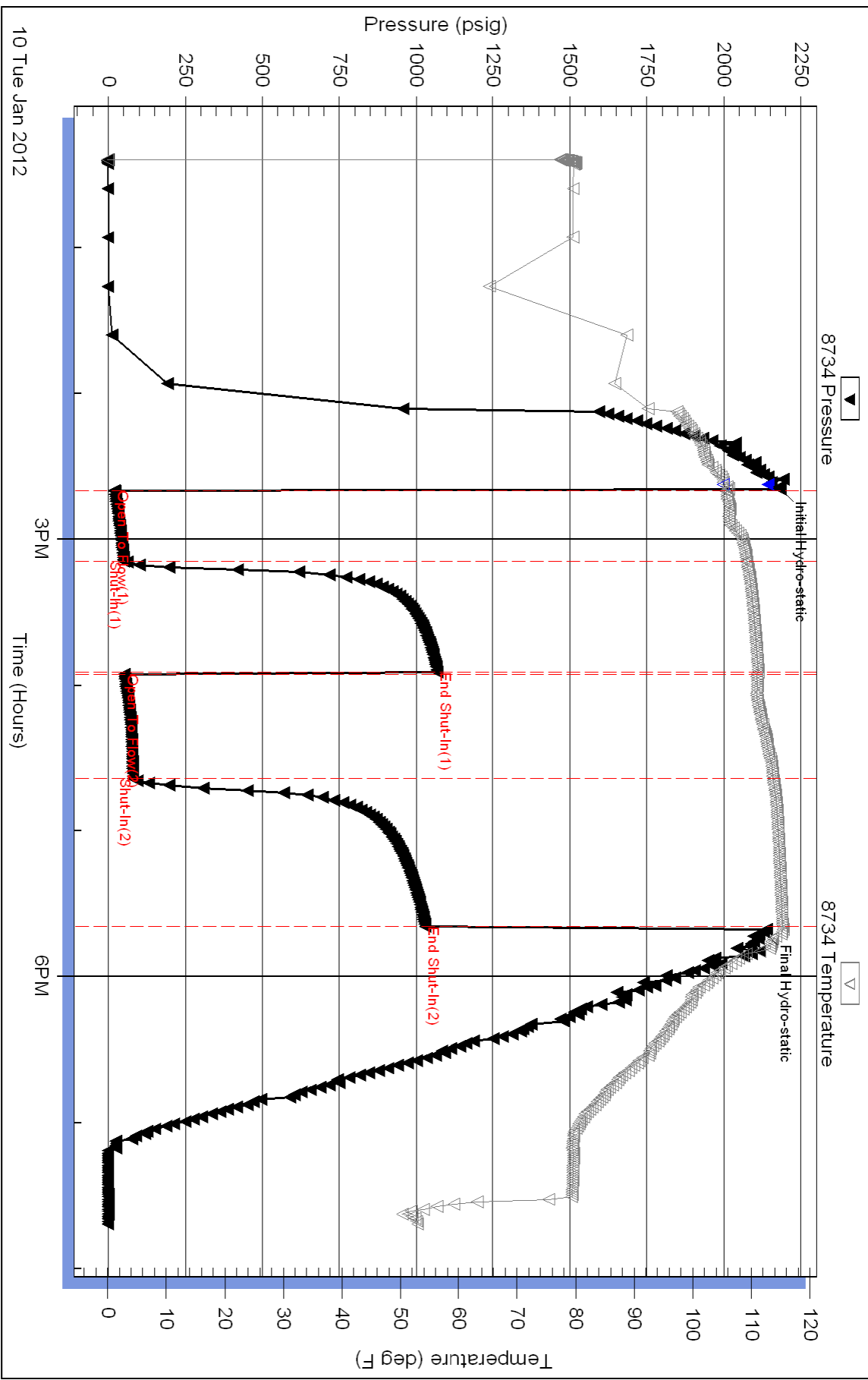
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Grand Mesa Operating Company
 1700 N Waterfront Pkw g Bldg 600 Wichita, Ks 67206
 ATTN: Kent Matson

17-17-24 Ness, Ks
Phelps 3-17
 Job Ticket: 46406 **DST#: 2**
 Test Start: 2012.01.11 @ 04:27:18

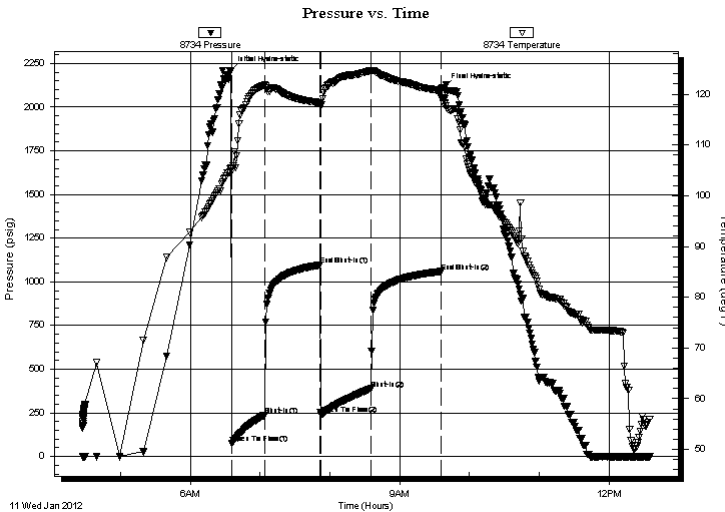
GENERAL INFORMATION:

Formation: **Cherokee/Mississippi**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Reset)
 Time Tool Opened: 06:35:48 Tester: Brian Fairbank
 Time Test Ended: 12:34:48 Unit No: 41
 Interval: **4376.00 ft (KB) To 4436.00 ft (KB) (TVD)** Reference Elevations: 2466.00 ft (KB)
 Total Depth: 4436.00 ft (KB) (TVD) 2461.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 5.00 ft

Serial #: 8734 Outside
 Press @ Run Depth: 388.49 psig @ 4413.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2012.01.11 End Date: 2012.01.11 Last Calib.: 2012.01.11
 Start Time: 04:27:19 End Time: 12:34:48 Time On Btm: 2012.01.11 @ 06:34:18
 Time Off Btm: 2012.01.11 @ 09:37:48

TEST COMMENT: IFP - BOB 3 min
 ISI - no blow back
 FFP - BOB 7 min
 FSI - no blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2207.99	105.24	Initial Hydro-static
2	76.38	104.92	Open To Flow (1)
30	237.52	121.77	Shut-In(1)
77	1095.71	118.32	End Shut-In(1)
78	241.98	117.96	Open To Flow (2)
121	388.49	124.55	Shut-In(2)
181	1059.36	120.70	End Shut-In(2)
184	2112.65	118.02	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
185.00	MW 90%W, 10%M	1.78
250.00	GW & MCO 20%G, 55%O, 10%W, 15%M	3.51
155.00	MO 90%O, 10%M	2.17
185.00	GMCO 15%G, 45%O, 40%M	2.60

* 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 Company

17-17-24 Ness, Ks

1700 N Waterfront Pkw g Bldg 600 Wichita, Ks
67206

Phelps 3-17

Job Ticket: 46406

DST#: 2

ATTN: Kent Matson

Test Start: 2012.01.11 @ 04:27:18

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

38 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

31000 ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.18 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 6000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
185.00	MW 90%W, 10%M	1.784
250.00	GW & MCO 20%G, 55%O, 10%W, 15%M	3.507
155.00	MO 90%O, 10%M	2.174
185.00	GMCO 15%G, 45%O, 40%M	2.595

Total Length: 775.00 ft

Total Volume: 10.060 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

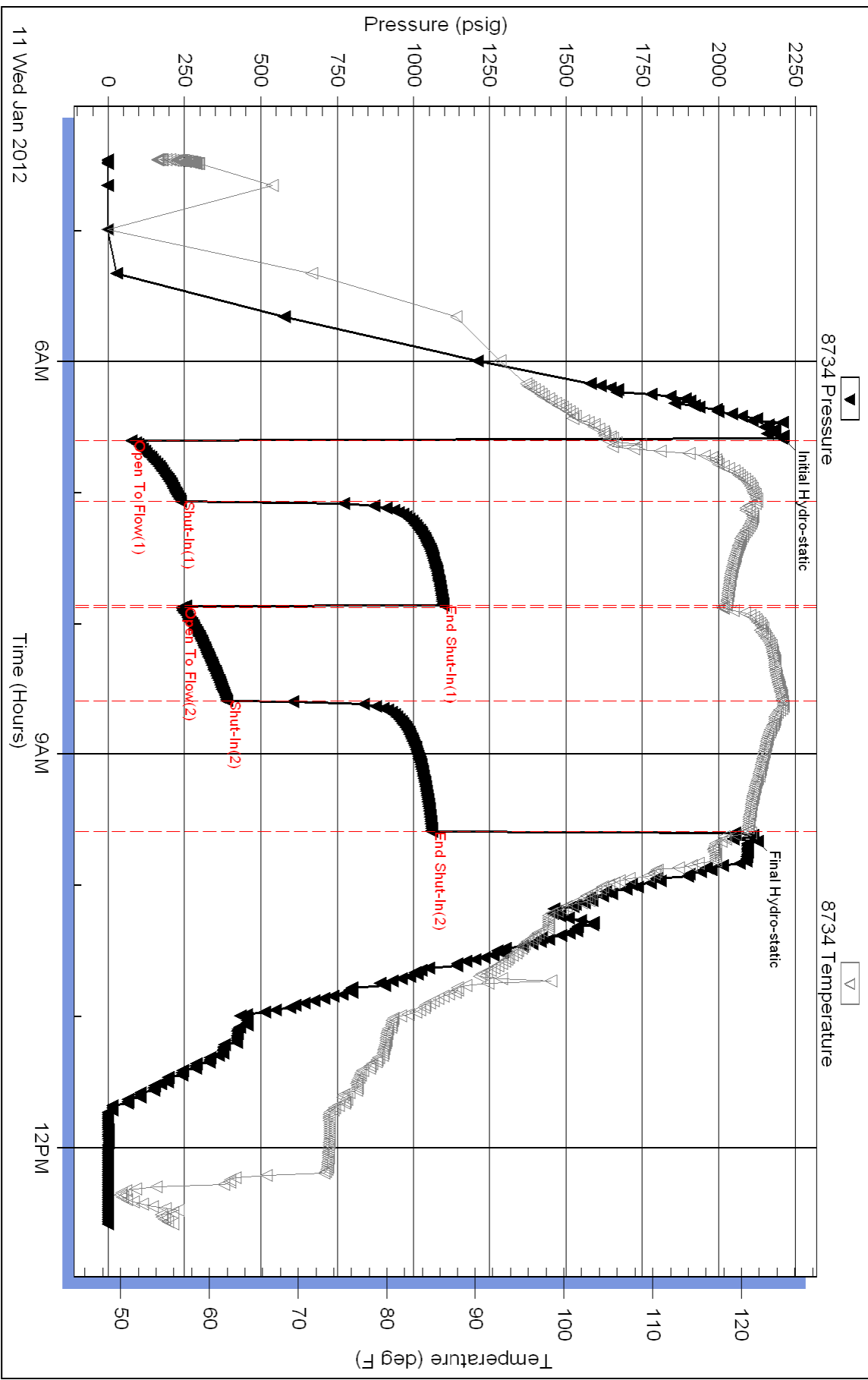
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time



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

February 15, 2012

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

Re: ACO1
API 15-135-25336-00-00
Phelps 3-17
SE/4 Sec.17-17S-24W
Ness 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



CONSOLIDATED
Oil Well Services, LLC

TICKET NUMBER 33764
LOCATION Oakley, KS
FOREMAN Walt Dunkel

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

FIELD TICKET & TREATMENT REPORT
CEMENT

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
1-4-12	3372	Phelps 3-17	17	17 S	24 W	Ness
CUSTOMER			TRUCK #			
Mailing Address			DRIVER			
CITY			TRUCK #			
STATE			DRIVER			
ZIP CODE						

JOB TYPE Surface HOLE SIZE 12 1/4 HOLE DEPTH 222' CASING SIZE & WEIGHT 8 7/8-23#
 CASING DEPTH 222' DRILL PIPE _____ TUBING _____ OTHER _____
 SLURRY WEIGHT 15.2 SLURRY VOL _____ WATER gal/sk _____ CEMENT LEFT In CASING 15'
 DISPLACEMENT 13 1/4 DISPLACEMENT PSI _____ MIX PSI _____ RATE 5 BPM

REMARKS: Safety Meeting, rig up on Muckin 24, circ casing on pattern
mix 165 sks com, 3% cc- 2% lal, Displace 13 1/4 BBL H₂O @ 150 #
shut in

Cement Did Circ

Thank you
Walt + Crew

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
54015	1	PUMP CHARGE	1085 ⁰⁰	1085 ⁰⁰
5406	25	MILEAGE	5 ⁰⁰	125 ⁰⁰
11045	165 SKs	Class A Cement	17 ⁶⁵	2,912 ²⁵
1102	465 #	Calcium Chloride	189	413 ⁸⁵
1118B	310 #	Bentonite	125	77 ⁵⁰
5407	7.76	Tan mileage Delivery	167	410 ⁰⁰
				5,023 ⁶⁰
		Less 10% Disc	-	502 ³⁶
				4,521 ²⁴
			SALES TAX	192 ⁹⁸
		246964	ESTIMATED TOTAL	4714 ²²

Revin 3737 AUTHORIZATION [Signature] TITLE Packer Rig #24 DATE _____

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

JOB LOG

SWIFT Services, Inc.

DATE 12 JAN 12 PAGE NO.

CUSTOMER GRAND MESA

WELL NO.

LEASE PHELPS 3-17

JOB TYPE 5/2 LONGSTRING

TICKET NO. 21539

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	2030							ON LOCATION
	2305							START PIPE 5 1/2 - 15.5 # RTD @ 46 @ 26 LTD @ 46 @ 31 SHOE JOINT 10' CENTRALIZERS 1, 3, 5, 7, 9, 11, 67 CEMENT BASKETS 2, 68 PORT COLLAR TOP OF JT # 68 @ 1770
	0156							DROP BALL CIRCULATE
	0210	6	12				300	Pump 500 gal MUD FLUSA
	0212	6	20				300	Pump 20 BBL. KCL FLUSA
	0219		7					PLUG RH (30 SK)
	0221	4	35					MIX 145 SX EA2
	0235							WASH OUT PUMPING LINES
	0237	6						RELEASE PLUG START DISPLACEMENT
	0255		110					PLUG DOWN PSTUP LATCH PLUG IN
	0258							RELEASE PSI - DRY
	0300							WASH TRUCK
	0330							JOB COMPLETE
								THANKS # 110
								JASON JEFF DAVID

JOB LOG

SWIFT Services, Inc.

DATE 19 Jan 12 PAGE NO. 1

CUSTOMER Grand Mesa WELL NO. 3-17 LEASE Phelps JOB TYPE cement + port collar TICKET NO. 22625

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		130 DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
								130 2800 sk SMD w/ 1/2" Floccles 278 x 5 1/2 port collar - 1770'
	1100							on loc TRK 114
	1135					1000	1000	test to 1000 psi - hold open port collar
	1150	3	4				300	inj rate
	1155	3 3/4				200		mix SMD cement @ 11.2 ppf
	1210	3 3/4	12 66			500		flow to surface cement to surface {130 sk mixed 20 to pH}
		3 3/4	9			500		Displace w/ H ₂ O
	1220							close port collar
	1225					1000	1000	test to 1000 psi - hold
	1235		22					Reverse cut - 2 cement plugs
	1245							wash truck pull tool
								Back up
	1315							job complete
								Thanks Dore, Doug & Brian

Acidizing Report

PRO-STIM CHEMICALS

Date 1-24-12

Customer <u>Grand Mesa</u>	Pro-Stim Chemical Yard <u>Dighton</u>	Pro-Stim Number <u>AL6</u>
Well Name & Number <u>Phelps #3-17</u>	Field	Formation <u>Spot</u> <u>2.5 barrel</u>
County <u>Ness</u> State <u>KS</u>	BHT	YD
		Interval <u>4410 TOP</u>

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 <u>4350</u>					
Casing Size:	GRD	WT	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:

Treatment Record

Time	Type Fluid	Rate BMP	Increment Vol Bbls	Cum Vol Bbls	Pressure		Observations
					Tubing	Casing	
<i>minutes</i>							Safety Meeting
18	Acid						Prs Test to _____ psi
20	Acid	2.9		4.0	40		Start to load Tubing
23	Acid	2.9		12	40		acid gone
29	Flush	0		26.9	70		hole loaded
30	Flush	1.5		27.6	500		
33	Flush	1.7		29.8	750		
35	Flush	2.0		32.4	900		max
37	Flush	2.0		34	870		
39	Flush	2.0		37	880		
40	Flush	2.0		39	880		Done

Treatment Synopsis

Avg Inj Rate	Fluid BPM	Total Injected	H2O <u>27</u>	Acid <u>12</u>	Oil
Treating Prs.	Max <u>900</u>	Final <u>880</u>	Avg.	ISIP <u>600</u>	851 VAC
Customer Representative			Pro-Stim Supervisor	<u>Shannon M.</u>	

1 min

Pro-Stim Chemicals, LLC

P.O. Box 25
 Cheyenne Wells, CO 80810

FEB 13 2012

Invoice

Date	Invoice #
1/31/2012	61190

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	1/24/2012	PHELPS #3

Quantity	Item Code	Description	Price Each	Amount
500	15% HCl ACID	GALLONS	1.78	890.00
10	S-3000	GALLONS	23.56	235.60
10	RENAB	GALLONS	17.89	178.90
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
30	KCL BIOCIDE - 2%	BRLS	3.16	94.80
1	DUMP JOB		158.00	158.00T
3	TRUCK TIME	HOURS	95.00	285.00T
		Sales Tax - NESS CO.	6.30%	27.91

			Total	\$1,966.38
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Phone #	Fax #	E-mail
719-767-8071	719-767-5925	prostim@hotmail.com