

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: 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> <input type="checkbox"/> Other <i>(Specify)</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	HOEME 1-4
Doc ID	1081309

Tops

Name	Top	Datum
Stone Corral	2397	+607
Bs/Stone Corral	2417	+587
Heebner	3952	-948
Lansing	3995	-990
Muncie Creek	4163	-1159
Stark	4255	-1251
Marmaton	4376	-1372
Excello	4511	-1507
Mississippian	4670	-1666
LTD	4783	

GRAND MESA OPERATING COMPANY

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

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

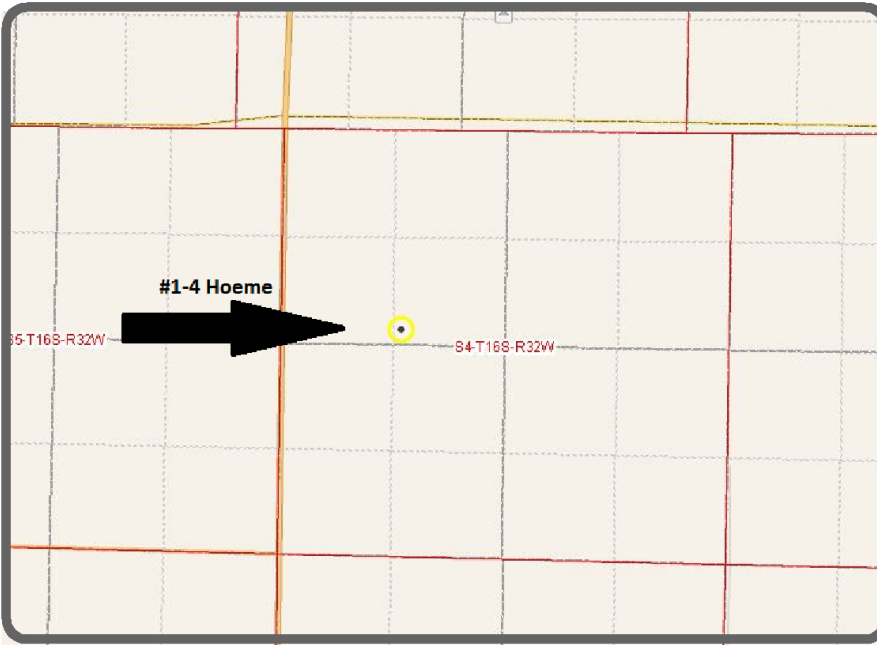
Scale 1:240 (5"=100') Imperial
Measured Depth Log

Well Name: #1-4 Hoeme
 Location: 2650' FSL, 1413' FWL, SECTION 04-16S-32W, SW SW SE NW
 License Number: API: 15-171-20863 Region: Scott County
 Spud Date: 03/12/2012 Drilling Completed: 03/23/2012
 Surface Coordinates: LAT 38.6928771
 LONG -100.8663270
 Bottom Hole Vertical hole
 Coordinates:
 Ground Elevation (ft): 2999' K.B. Elevation (ft): 3004'
 Logged Interval (ft): 3650' To: RTD Total Depth (ft): 4780'
 Formation: Mississippi at RTD
 Type of Drilling Fluid: Chemical

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

GEOLOGIST

Name: John Goldsmith
 Company: John Goldsmith Wellsite Service
 Address: 322 Greenwood Ct.
 Cheney, KS 67025
 316-640-0236



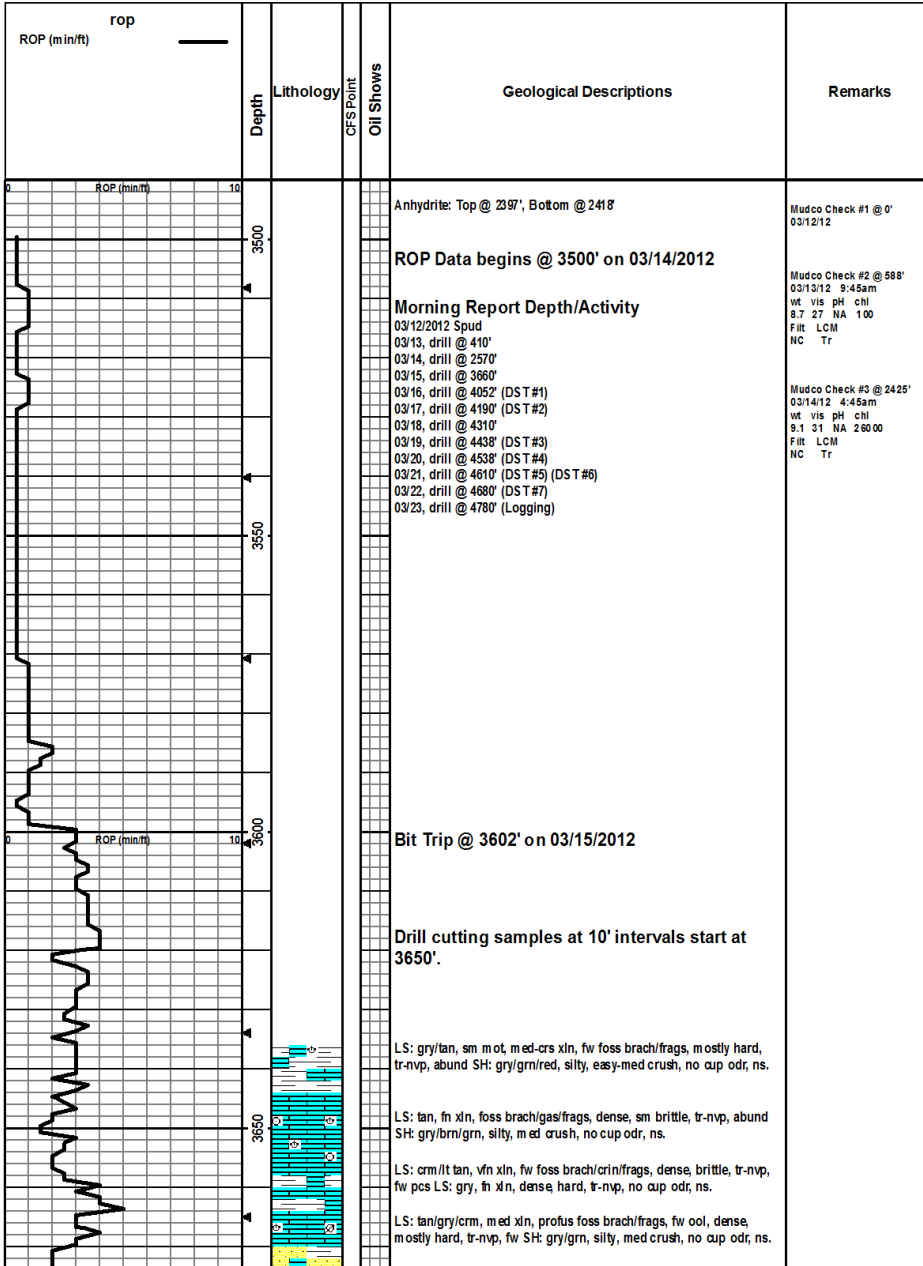
COMMENTS

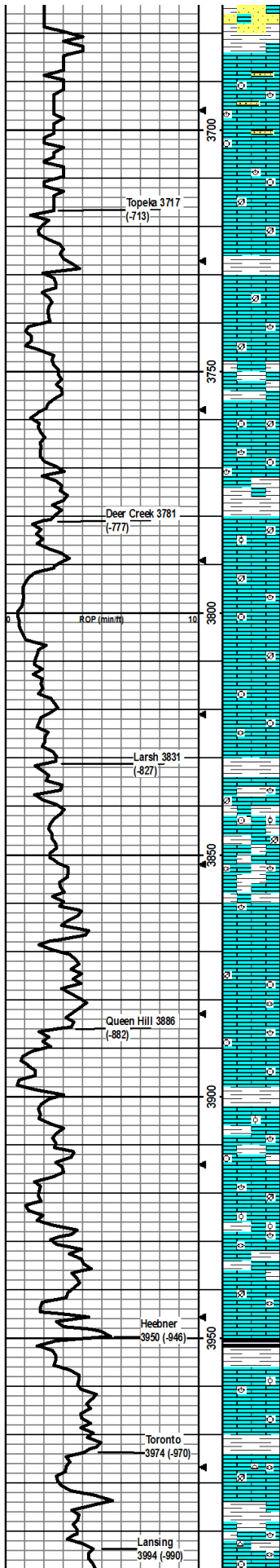
Contractor: Murfin Drilling Company Rig #24
 Pusher: Tony Martin
 Surface Casing: 5 joints of 8 5/8" set at 210'
 Production Casing: No production casing installed, well was plugged.
 Mud by: MudCo
 DST's by: Tribolite Testing
 Logs by: Weatherford (DIL, CN-CD, ML, CS)
 RTD=4780'
 LTD=4783'

FORMATION TOPS

FORMATION	SAMPLE TOPS		LOG TOPS	
	Depth	Datum	Depth	Datum
Queen Hill	3886'	-882	3889'	-885
Heebner Shale	3950'	-946	3952'	-948

Toronto	3974'	-970	3974'	-970
Lansing	3994'	-990	3996'	-992
Muncie Creek Shale	4162'	-1158	4163'	-1159
Stark Shale	4253'	-1249	4255'	-1251
Hushpuckney Shale	4300'	-1296	4303'	-1299
Marmaton	4374'	-1370	4378'	-1374
Upper Fort Scott	4470'	-1466	4472'	-1468
Little Osage Shale	4490'	-1486	4492'	-1488
Excello Shale	4510'	-1506	4510'	-1506
Johnson Zone	4582'	-1578	4584'	-1580
Morrow	4626'	-1622	4626'	-1622
Mississippian	4668'	-1664	4671'	-1667
RTD	4780'	-1776		
LTD			4783'	-1779





LS: tan, fn xln, fw foss crin/frags, mostly dense, tr-nvp, sm SS: brn, fn grn, sub rnd, arg, silc cem, med crush, tr intgrn por, fw SH: gry/brn, silty, med crush, no cup odr, ns.

LS: gry, fn xln, dense, hard, tr-nvp, sm SS: gry/brn, fn grn, sub rnd, silc cem, arg, tr intgrn por, fw SH: gry/brn, silty, easy-med crush, no cup odr, ns.

LS: gry, fn xln, fw foss brach, dense, hard, mostly uniform, tr-nvp, fw SS: gry/brn, fn grn, sub rnd, arg, silc cem, tr intgrn por, no cup odr, ns.

LS: gry/tan, fn xln, sm foss crin/frags, tr-nvp, fw pcs of chlk, fw SH: gry/drck gry, silty, fissile, med crush, no cup odr, ns.

LS: gry/tan, fn xln, sm foss frags, sm dense, mostly hard, tr-nvp, fw SH: gry/brn, silty, easy-med crush, no cup odr, ns.

LS: gry/lt tan, vfn-fn xln, vfw foss frags, mostly dense, sm chiky, tr-nvp, fw SH: gry/drck gry, silty, soft, fw carb, no cup odr, ns.

LS: gry/lt tan, vfn-fn xln, vfw foss frags, mostly dense, sm hard, tr-nvp, vfw SH: gry/grn, silty, sm waxy, easy-med crush, no cup odr, ns.

LS: gry/tan, fn-med xln, fw foss frags, mostly brittle, fw chiky, tr-nvp, fw SH: gry/drck gry, silty, easy-med crush, no cup odr, ns.

LS: gry/tan, fw mott, fn xln, fw foss frags, sm brittle, tr-nvp, fw SH: gry, silty, soft, no cup odr, ns.

LS: tan/lt tan, fn xln, foss brach/crin/frags, mostly brittle, tr-nvp, fw pcs w/ drk min stns, no cut/fluor, fw SH: gry, silty, vry soft, no cup odr, ns.

LS: gry/tan, fw mott, fn xln, sm foss frags, fw ool, mostly brittle, fw chiky, tr-nvp, fw SH: gry/red/blk, silty, easy-med crush, fw carb, no cup odr, ns.

LS: mostly gry, fn xln, gritty/sandy, dense, brittle, tr-nvp, fw pcs LS: tan, fn xln, foss frags, dense/hard, tr-nvp, fw pcs of pur chlk, no cup odr, ns.

LS: lt tan/crm, vfn xln, foss frags, mostly chiky, dense, brittle, mostly uniform, tr-nvp, fw pcs of pur chlk, fw SH: gry/grn/blk, silty, fw waxy, fw carb, med crush, no cup odr, ns.

LS: gry/tan, fn xln, fw foss frags, mostly dense, tr-nvp, svrl pcs of pur chlk, fw SH: gry, silty, soft, no cup odr, ns.

LS: lt gry/tan, fn xln, mostly foss crin/frags, mostly brittle, tr-nvp, svrl pcs of chlk, fw SH: drk gry/brn, silty, med crush, no cup odr, ns.

LS: lt tan/lt gry, fn xln, foss brach/fuss/frags, mostly dense, mostly brittle, sm chiky, tr-nvp, fw SH: gry, silty, soft, no cup odr, ns.

LS: gry/tan, fn xln, sm foss frags, fw ool, mostly hard, fw chiky, tr-nvp, fw pcs of pur chlk, fw SH: gry/drck gry, silty, med crush, no cup odr, ns.

LS: tan, fn-med xln, foss brach/frags, mostly hard, fw brittle, tr-nvp, sm SS: gry, vfn grn, limey, med crush, tr-nvp, sm SH: gry/brn/red, silty, easy-med crush, no cup odr, ns.

LS: gry/tan, fn-crs xln, mostly dense/hard, tr-nvp, abund SS: gry, vfn grn, limey, med crush, tr-nvp, sm SH: gry/brn/red, silty, med crush, no cup odr, ns.

LS: lt tan/crm, vfn-fn xln, foss crin/brach/fuss, dense, brittle, mostly uniform, tr-nvp, fw SH: gry/grn, silty, sm waxy, soft, no cup odr, ns.

LS: lt tan/lt gry, fn xln, foss crin/fuss/frags, sm hard, tr-nvp, fw pcs pur chlk, sm SH: gry/brn, silty, soft, no cup odr, ns.

LS: lt gry/tan, fn-crs xln, foss crin/brach/frags, mostly dense, sm hard, fw pcs chiky, tr-nvp, fw SH: brn/gry, silty, easy-med crush, no cup odr, ns.

LS: gry/lt tan, fn xln, mostly dense, sm hard, tr-nvp, fw pcs pur chlk, fw SH: gry/brn, silty, easy-med crush, no cup odr, ns.

LS: lt gry/lt tan, fn xln, sm foss brach/frags, fw ool, sm hard, tr-nvp, fw pcs pur chlk, sm SH: gry/drck gry, silty, fissile, med crush, no cup odr, ns.

LS: gry/tan, fn xln, foss brach/frags, fw ool, sm dense, mostly brittle, tr-nvp, fw SH: gry/brn, silty, fissile, easy-med crush, no cup odr, ns.

LS: gry/tan, fn xln, foss brach/fuss/frags, fw ool, sm brittle, tr-nvp, svrl pcs chiky, sm SH: drk gry/brn, silty, soft, no cup odr, ns.

LS: gry/tan, sm mott, med-crs xln, foss fuss/frags, sm brittle, tr-nvp, fw pcs w/ drk min stns, no cut/fluor, no cup odr, ns.

LS: gry/tan, fn xln, foss fuss/frags, fw brittle, tr-nvp, sm SH: drk gry/gry/blk, silty, fissile, med crush, sm carb, no cup odr, ns.

LS: gry/tan, fn xln, foss brach/frags, fw ool, mostly dense, sm hard, tr-nvp, abund SH: gry/grn/blk, silty, sm waxy, mostly carb, med crush, no cup odr, ns.

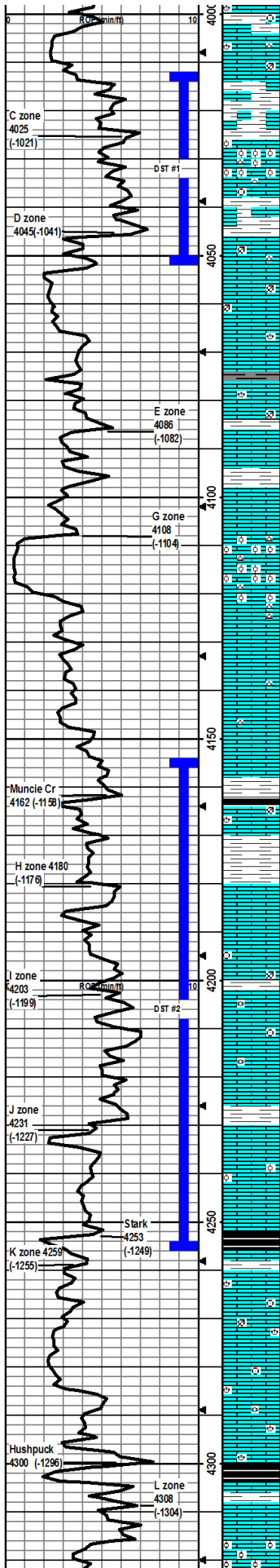
LS: tan/lt tan, fn xln, sm foss frags, mostly dense, sm chiky, tr-nvp, svrl SH: gry/grn, silty, sm waxy, easy-med crush, no cup odr, ns.

LS: crm/lt tan, vfn-fn xln, fw foss fuss/frags, mostly dense/brittle, sm chiky, mostly uniform, tr-nvp, fw pcs pur chlk, fw Chert wht, opaque, sharp, foss, no cup odr, ns.

LS: lt tan, fn xln, sm foss frags, mostly dense, sm chalky, tr-nvp, fw pcs pur chlk, fw Chert wht, opaque, sharp, fw SH: gry/grn/brn, silty, soft, no cup odr, ns.

LS: lt tan, fn xln, foss brach/crin/frags, mostly dense, tr-nvp, fw pcs pur chlk, abund SH: gry/grn/brn, silty, easy-med crush, no cup odr, ns.

Mudco Check #4 @ 3710'
 03/15/12 9:45am
 VE VIS GH CH
 8.7 68 10.5 1600
 FIT LCM
 6.0 3#



ns.

LS: crm/lt tan, vfn-fn xln, fw foss frags, dense, mostly uniform, fw chiky, tr-nvp, fw Chert wht, opaque, sharp, foss, no cup odr, ns.

LS: tan/gry, fn-crs xln, fw foss frags, mostly dense sm hard, tr-nvp, fw pcs pur chlk, sm SH: brn/gry/grn, silty, m ed crush, no cup odr, ns.

LS: lt tan, fn xln, fw foss frags, profuss ool, mostly dense, uniform, fr intool por, w/fr sfo, dul yel fluor, cut pal blu, slight-fr cup odr, fw Chert: wht, opaque, sharp, foss.

LS: lt tan, vfn-fn xln, fw foss frags, fw ool pcs, mostly dense, uniform, tr-nvp, fw Chert: wht, opaque, sharp foss, fw pcs SH: gry/grn, silty, sm waxy, no cup odr, ns.

LS: lt tan, vfn-fn xln, fw foss frags, mostly dense, brittle, mostly uniform, tr-nvp, fw pcs pur chlk, fw Chert wht, opaque, sharp, sm LS: lt gry/tan, crs xln, scat ppt intxln por, no cup odr, ns.

LS: gry/tan, fn xln, foss frags, mostly brittle, sm chiky, scat rare vug por, svrl pcs pur chlk, abund SH: gry/grn/brn, silty, med crush, no cup odr, ns.

LS: gry/tan, fn xln, sm foss brach/frags, sm chiky, rare ppt intxln por, svrl pcs pur chlk, fw SH: gry/drk gry grn/brn, silty, med crush, no cup odr, ns.

LS: gry/tan, fn-crs xln, fw foss frags, sm flakey, fw brittle, mostly hard, scat rare vug por, sm pcs pur chlk, fw pcs SH: gry/drk gry/brn, silty, sm waxy, easy-med crush, no cup odr, ns.

LS: tan, fn-med xln, mostly brittle, pr intxln por, dul yel fluor, slw cut pal blu, w/ patchy stns on smpl, dry patchy stns in dries, fw pcs pur chlk, v wk cup odr, vsfo.

LS: lt tan/crm, vfn-fn xln, fw foss frags, dense, brittle, mostly uniform, sm chiky, tr-nvp, sm pcs pur chlk, fw SH: gry/grn, silty, waxy, no cup odr, ns.

LS: tan/brn, fn xln, profus ool, vgd gd oolcast por, fw pcs LS: crm/lt tan, fn xln, dense, brittle, tr-nvp, fw pcs pur chlk, fw Chert: wht, opaque, foss, sharp, no cup odr, ns.

LS: lt gry/gry, vfn-fn xln, dense, hard, tr-nvp, sm LS: tan/brn, fn xln, profus ool, fr-gd oolcast por, fw Chert wht, opaqa, sharp, foss, no cup odr, ns.

LS: lt gry/tan, vfn-fn xln, dense, mostly hard, mostly uniform, fw chiky, tr-nvp, fw pcs pur chlk, no cup odr, ns.

LS: tan, fn xln, mostly dense, fw brittle, mostly uniform, tr-nvp, svrl pcs pur chlk, fw pcs Chert: wht, opaque, foss, sharp, no cup odr, ns.

LS: lt gry/tan, fn xln, dense, mostly hard, mostly uniform, fw flakey, tr-nvp, sm pcs pur chlk, no cup odr, ns.

LS: gry/tan, fw mott, fn xln, dense, hard, tr-nvp, abund SH: gry/drk gry/brn, silty, sm fissile, fw carb, med crush, no cup odr, ns.

LS: gry/tan, sm mott, fn xln, foss brach/crin/frags, tr-nvp, abund SH: gry/drk gry/brn, silty, sm fissile, sm carb, easy-med crush, no cup odr, ns.

LS: lt gry/tan, fn xln, foss brach/crin/fuss, mostly dense, fw chiky, mostly uniform, tr-nvp, fw SH: gry/grn/brn, silty, fissile, med crush, no cup odr, ns.

LS: lt gry/tan, fn xln, mostly dense, brittle, sm chiky, mostly uniform, tr-nvp, fw pcs pur chlk, fw pcs Chert: gry, sharp, no cup odr, ns.

LS: lt gry/tan, fn xln, sm foss crin/frags, mostly dense, sm brittle, fw hard, tr-nvp, fw pcs pur chlk, fw Chert: wht, sharp, foss, no cup odr, ns.

LS: gry/tan, fn-med xln, sm foss, mostly brittle, tr-nvp, svrl pcs pur chlk, abund SH: gry/grn/brn, silty, sm waxy, easy-med crush, no cup odr, ns.

LS: lt tan, fn xln, fw foss frags, mostly dense, brittle, sm chiky, fw pcs fr intxln por, scat dul yel fluor, cut pal blu, sfo in scat intxln por and on sm frac facies, salt/pepper look, v wk cup odr, sfo.

LS: fw pcs w/ sho same as above, abund SH: drk gry/gry/grn/brn, silty, sm fissile, fw waxy, easy-med crush, slight cup odr, sfo.

LS: 3-4 pcs like sho much like above...most likely from above, most LS: tan, vfn-fn xln, fw foss, sm vry ool, w/ sm fr oolcast por, mostly dense, hard, w/ tr-nvp, no cup odr.

LS: lt tan, fn xln, mostly dense, sm brittle, sm chiky, tr-nvp, sm SH: gry/grn, silty, easy-med crush, no cup odr, ns.

LS: lt gry/tan, fn-med xln, mostly dense, sm hard, tr-nvp, fw pcs of SH: gry/grn/blk, silty, sm fissile, med crush, no cup odr, ns.

LS: gry/tan, fn-crs xln, sm sandy, sm foss brach/crin/frags, fw ool, fw chiky, tr-nvp, fw pcs pur chlk, sm SH: gry/grn, silty, sm waxy, easy-med crush, no cup odr, ns.

LS: gry/tan, fn-crs xln, sm sandy, sm foss brach/frags, mostly brittle, mostly chiky, pr intxln por, svrl pcs pur chlk, no cup odr, ns.

LS: gry/tan, fn-crs xln, sm sandy, foss brach/crin/gas, sm chalky, tr-nvp, abund of pur chlk, fw SH: gry/grn, silty, fissile, med crush, no cup odr, ns.

LS: tan/lt gry, fn-crs xln, foss brach/frags, mostly dense, sm brittle, tr-nvp, abund of pur chlk, fw SH: gry/grn/brn, silty, sm waxy, easy-med crush, no cup odr, ns.

LS: lt tan, vfn-fn xln, vfw foss, dense, mostly uniform, tr-nvp, fw pcs pur chlk, abund SH: gry/drk gry/blk/grn, silty, fissile, carb, fw waxy, med crush, no cup odr, ns.

LS: lt gry/tan, fn xln, mostly dense, fw flakey, rare scat ppt-intxln por, fw pcs w/ v lght possible brn stn, no fluor, nsfo, sm SH: gry/brn, silty, fissile, med crush, no cup odr.

LS: gry/tan, vfn-fn xln, foss crin/fuss, ool, dense, mostly brittle, sm chiky, tr-nvp, fw LS: tan, fn xln, foss brach/crin/frags, sm flakey, tr-nvp, no cup odr, ns.

DST1) 4012-4052

3045/4560
1st) Built to 3"
2nd) Built to 4.5"
IFP 41-80#
ISIP 1084#
FFP 83-111#
1083#
HP 1936-1861#
Recvd: 17' OCM, 6" oil scum

CFS 4052'
30°/60"

Mudco Check #5 @ 4053'
03/16/12 12:00pm
wt vis pH chl
9.2 48 10.5 1500
FIT LCM
6.4 4#

CFS @ 4118'
30°/60"

DST2) 4154-4256

3030/3030
1st) Surf blow/died in 15"
2nd) No blow
IFP 36-41#
ISIP 899#
FFP 39-47#
815#
HP 2012-1978#
Recvd: 10' Mud

CFS @ 4194'
30°/60"

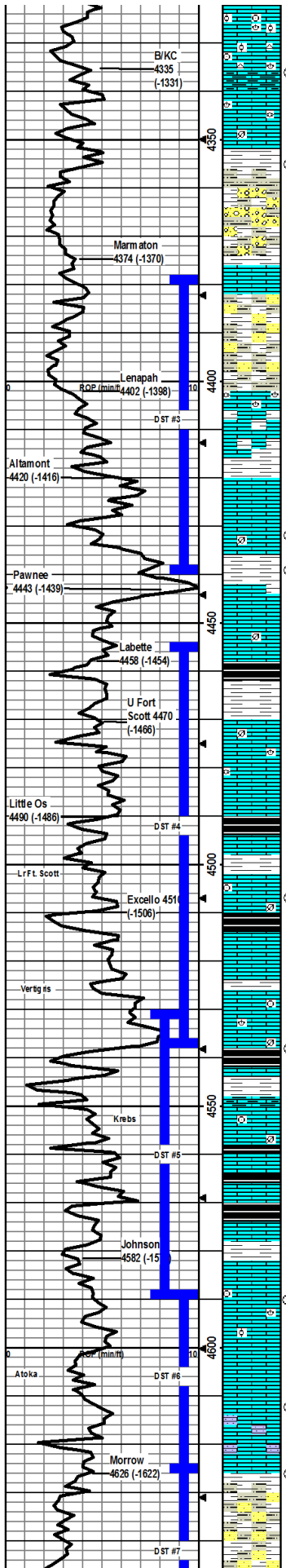
CFS @ 4232'
30°/40"

CFS @ 4241'
30°/60"

Mudco Check #6 @ 4241'
03/17/12 12:05pm
wt vis pH chl
9.1 49 10.5 1400
FIT LCM
6.8 4#

CFS @ 4256'
30°/60"

CFS @ 4280'
30°/60"



LS: lt gry/tan, fn xln, foss brach/frags, ool, mostly dense, brittle, sm chiky, tr-nvp, fw pos pur chik fw SH gry/brn, silty, med crush, no cup odr, ns.

LS: lt gry/tan, fn xln, foss brach/crin/frags, ool, tr-nvp, fw Chert why, sharp, foss, no cup odr, ns.

LS: gry/tan, fn xln, foss frags, ool, mostly dense, sm brittle, tr-nvp, sm Chert: wht, sharp, foss, sm SH: gry/grn/brn, silty, med crush, no cup odr, ns.

LS: lt gry/tan, fn xln, foss brach/fuss/frags, brittle, sm chiky, tr-nvp, fw pes w/ drk min stns, does not cut, sm SH: gry/brn/grn, silty, easy-med crush, no cup odr, ns.

SH: gry/grn/brn, silty, easy-med crush, sm waxy, sm fissile, sm SitStn: gry, gritty, silty, v soft, fw LS: tan, fn xln, fw foss, brittle, pr ppt-intnln por, no cup odr, ns.

SH: gry/brn/grn, silty, easy-med crush, sm waxy, sm SitStn: gry/brn, silty, v soft, fw LS: lt tan, fn xln, foss frags, brittle, tr-nvp, no cup odr, ns.

SH: gry/grn/brn, silty, easy-med crush, sm waxy, fw fissile, sm SitStn: gry, gritty, silty, v soft, fw LS: lt tan, fn xln, sm foss, scat pr intnln por, no cup odr, ns.

SH: gry/grn/brn, silty, easy-med crush, fw SitStn: gry, gritty, v soft, sm LS: lt tan, fn xln, foss brach/fuss/frags, rare scat infoss por, no cup odr, ns.

LS: tan/lt tan, fn xln, profus foss brach/fuss/crin, ool, sm brittle, sm chiky, tr-nvp, sm SH: gry/grn/brn, silty, sm waxy, med crush, no cup odr, ns.

LS: lt tan, fn-crs xln, foss brach/fuss, ool, brittle, mostly uniform, pr scat intnln por, fw drk stns, does not cut, sm SH: gry/brn, silty, sm waxy, med crush, no cup odr, ns.

LS: lt tan, fn-crs xln, foss brach/frags, sm brittle mostly hard, pr scat intnln por, sm SH: gry/brn, silty, sm waxy, med crush, no cup odr, ns.

LS: lt tan, vfn-fn xln, mostly dense/hard, fr patchy intnln por, dul gold/yel fluor, stream cut pal blu, fr-gd sfo on break 6-8 pcs/try, wk cup odr, sm SH: gry/brn, silty, med crush.

30" smpl had only 1-2 pcs w/ sho, 60" had 5-6 pcs w/ sho much as desc above, abund SH: gry/brn/grn, sm waxy, 60" had v wk cup odr.

LS: lt tan, fn xln, fw foss frags, sm brittle, mostly dense, tr-nvp, 1-2 pcs in 30" smpl w/ sho fo, most likely from above, no cup odr.

SH: gry/brn/grn, silty, sm fissile, easy-med crush, fw LS: gry/lt tan, fn xln, mostly dense, tr-nvp, fw pos pur chik, no cup odr, ns.

LS: tan/lt tan, fn-crs xln, v fw foss frags, mostly unifrom, sm chiky, tr-nvp, fw pos pur chik, sm SH: gry/brn, silty, med crush, no cup odr, ns.

LS: gry/lt tan, fn xln, mostly dense, sm brittle, fw chiky, tr-nvp, fw pos pur chik, sm SH: gry/brn/bik, silty, sm fissile, sm carb, med crush, no cup odr, ns.

LS: lt tan, fn xln, fw foss frags, mostly dense, sm chiky, tr-nvp, sm SH: gry/blk/brn, silty, easy-med crush, sm carb, fw Chert wht, opaque, sharp, no cup odr, ns.

LS: lt tan/crm, fn xln, fw foss fuss/brach, mostly dense, mostly uniform, scat infoss por, 2-3 pcs w/ lght stns, scat dul yel fluor, cut pal blu, no cup odr, v sfo.

LS: gry/ltan, fn xln, mostly dense, fw pos chiky, mostly hard, tr-nvp, abund SH: gry/blk/brn, fissile, med crush, no cup odr, ns.

SH: gry/blk/brn/grn, silty, fissile med crush, sm carb, sm LS: gry/ltan, fn xln, foss brach/crin/frags, sm chiky, tr-nvp, no cup odr, ns.

SH: gry/brn/grn, silty, fw waxy, easy-med crush, sm LS: gry/tan, fn xln, foss crin/frags, pr scat intnln por, 1-2 pcs w/ stn in 60" sm pl, scat dul yel fluor, cut pale blu, no cup odr.

SH: gry/grn/brn/bik, silty, sm fissile, sm waxy, sm carb, easy-med crush, fw LS: lt tan/crm, fn xln, fw foss, mostly brittle, fw chiky, tr-nvp, no cup odr, ns.

LS: lt tan/gry, fn xln, mostly dense, fw chalky, tr-nvp, abund SH: gry/grn/brn, silty, sm waxy, fw fissile, med crush, no cup odr, ns.

LS: gry/lt tan, fn xln, foss crin/frags, fw chiky, tr-nvp, abund SH: gry/grn/brn, silty, sm waxy, med crush, fw Chert: gry, semi-trans, sharp, no cup odr, ns.

SH: gry/brn/bik, silty, sm fissile, sm carb, med crush, sm LS: tan/lt tan, fn xln, mostly dense, sm hard, tr-nvp, no cup odr, ns.

LS: gry/lt tan, fn xln, foss crin/plant frags, mostly dense, sm brittle, fw chiky, tr-nvp, fw pos pur chik, svrl SH: gry/blk, silty, sm fissile, easy-med crush, no cup odr, ns.

LS: lt gry/tan, fn xln, foss crin/frags, mostly dense, sm brittle, tr-nvp, sm SH: gry/grn/bik, silty, sm fissile, sm carb, med crush, no cup odr, ns.

LS: lt tan/crm, fn xln, fw foss frags, mostly dense, brittle, sm chiky, tr-nvp, abund SH: gry/brn, silty, soft, no cup odr, ns.

LS: gry/lt tan, fn-med xln, mostly dense, fw flakey, mostly hard, tr-nvp, sm SH: gry/drk gry/blk, silty, sm fissile, fw carb, easy-med crush, no cup odr, ns.

LS: lt tan, fn xln, fw foss frags, sm chiky, tr-nvp, 30" sm pl had 5-6 pcs w/ scat ppt-intnln por, dul yel fluor cut pal blu, sfo w/ fr cup odr, 60" had 7-8 pcs w/ gd scat vug por, stream cut pal blu/wht, gd-strong cup odr, fr-gd sfo.

LS: gry/tan, fn xln, fw foss crin/frags, fw ool, sm chiky, tr-nvp, 1-2 pcs w/ rare scat vug por, possibly from above, v sfo, slight cup odr, abund SH: gry/brn, silty, fissile.

LS: lt gry/tan, fn xln, sm chiky, scat ppt-intnln/rare vug por, fr-gd stns on svrl pcs, fr sfo, 6-8 pcs/try, dul yel fluor cut pal blu, fr cup odr.

LS: tan, fn xln, sm flakey, scat ppt-intnln por, fr amount of stns on svrl pcs, fr sfo, 4-5 pcs/try in 30" smpl, 4-5 pcs/try in 60" smpl, wk cup odr.

LS: gry/lt tan, fn-med xln, sm gritty/sandy, mostly brittle, fr-gd ppt-intnln por, fr-gd surf stns, dul yel fluor, cut pal blu/wht, fr sfo, fr-gd cup odr. 30" 60" smpl S: gry, fn grn, limy, fr-gd intgrn por, dul yel/gold fluor, stream cut pal blu/wht, gd sfo, gd cup odr.

SH: gry/olive/brn, silty, soft, sm SitStn: gry/olive, very soft fw S: gry/bluish, v fn grn, arg/muddy, sil cem, soft, no cup odr, ns.

SS: gry/bluish, fn grn, sub rnd, sil cem, easy-med crush, pr intgrn por, sm SH: gry/olive, silty, easy-med crush, no cup odr, ns.

CFS @ 4336'
30"60"

CFS @ 4354'
30"60"

Mudco Check #7 @ 4354'
03/18/12 12:00pm
wt vis pH chl
9.0 48 10.5 1800
FIT LCM
6.4 4#

DST3) 4377-4438
30303030
1st) Blowed in 18"
2nd) No blow
IFP 24-27#
ISIP 457#
FFP 28-32# F SIP
307#
HP 2157-2096#
Recvd: 5' Mud w/ oil spots

CFS @ 4432'
30"60"

CFS @ 4438'
30"60"

Mudco Check #8 @ 4478'
03/19/12 1:30pm
wt vis pH chl
9.2 51 10.0 2000
FIT LCM
7.2 4#

DST4) 4455-4538
30303030
1st) Blowed in 20"
2nd) No blow
IFP 42-38#
ISIP 782#
FFP 43-42# F SIP #11#
HP 2251-2155#
Recvd: 5' Mud

CFS @ 4507'
30"60"

Sample Returns are not good.
Abund of Shale.

Mudco Check #9 @ 4538'
03/20/12 8:30pm
wt vis pH chl
9.2 52 10.0 3000
FIT LCM
8.8 4#

CFS @ 4538'
30"60"

DST5) 4531-4590
30456090
1st) Built to 4"
2nd) Built to 3.5"
IFP 28-70#
ISIP 934# F SIP
900#
HP 2249-2160#
Recvd: 5' Mud

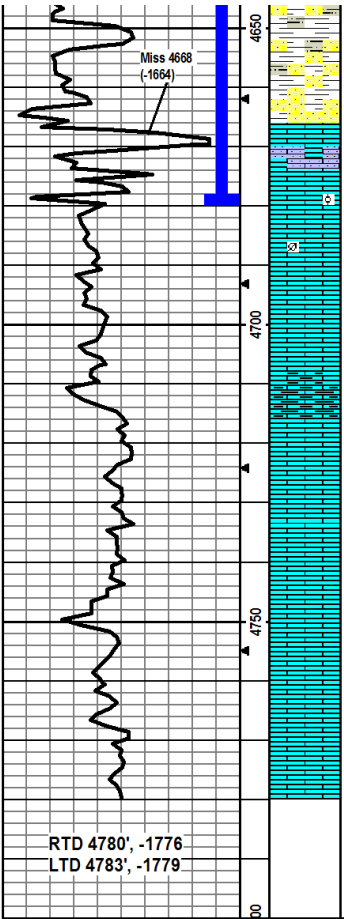
CFS @ 4590'
30"60"

DST6) 4590-4626
30303030
1st) Surface Blow
2nd) Surface Blow
IFP 27-35#
ISIP 820# F SIP #1#
FFP 34-35#
HP 2273-2271#
Recvd: 5' Mud

CFS @ 4612'
30"60"

CFS @ 4626'
30"60"

Mudco Check #10 @ 4612'
03/21/12 8:20pm
wt vis pH chl
9.2 58 10.5 3500
FIT LCM
7.2 4#



SS: gry/wh, fn grn, sub rmd, sil cem, easy-med crush, pr intgrn por, sm SH: gry/grn, silty, sm waxy, easy-med crush, no cup odr, ns.

SS: gry/lt gry, fn grn, sub rmd, sil cem, easy-med crush, intgrn por, wk fluor, pal blu cut, wk cup odr, fr sfo on break, sm LS: lt tan, fn xln, mostly dense, scat intxln por, scat dul yel fluor, cut pal blu, vssfo.

SS: gry/lt tan, fn grn, sub rmd, sil cem, med crush, intgrn por, wk ppt fluor, cut pal blu, slght cup odr, gd sfo on break, fw LS: gry, fn xln, mostly dense, tr-nvp, fw Chert: gry/sharp.

LS: lt tan/gry, sm gritty/sandy, sm chiky, fw ool, tr-nvp, fw pcs SS: much like disc above, sm SH: gry/olive, silty, fw Chert gry, sharp, little-no cup odr, vssfo from above.

LS: crm/lt tan, fn xln, fw gritty/sandy, fw sm all foss frags, mostly brittle, tr-nvp, abund SH: gry/grn, silty, fissile sm waxy, med crush, no cup odr, ns.

LS: lt tan, fn xln, fw gritty/sandy, sm chiky, mostly brittle, tr-nvp, sm SH: gry/grn, silty, sm fissile, sm waxy, med crush, fw Chert brn, semi-trans, sharp, no cup odr, ns.

LS: lt tan, fn xln, mostly dense, sm chiky, mostly brittle, tr-nvp, sm SH: gry/grn, silty, fissile fw waxy, med crush, no cup odr, ns.

LS: crm/lt tan, fn xln, fw sm all foss frags, sm chalky, mostly brittle, tr-nvp, sm SH: gry/grn, silty, fissile easy-med crush, no cup odr, ns.

LS: crm lt tan, fn xln, fw gritty/sandy, mostly brittle fw chiky, tr-nvp, sm SH: gry/brn/grn, silty, fissile med crush, no cup odr, ns.

LS: lt tan, fn-med xln, fw dense, mostly brittle, fw chiky, pr scat ppt-intxln por, fw SH: gry/brn/grn, silty, fw waxy, no cup odr, ns.

LS: lt tan, vfn-fn xln, mostly dense, sm brittle, fw pcs cherty, tr-nvp, fw SH: gry/grn, silty, soft no cup odr, ns.

LS: lt tan, vfn-fn xln, dense, brittle, mostly uniform, fw pcs slghtly chiky, tr-nvp, no cup odr, ns.

LS: lt gry/tan, fn xln, fw ool, mostly dense, fw flakey, tr-nvp, fw pcs pur chiky, fw SH: gry/brn/grn, silty, sm fissile, fw waxy, easy/med crush, no cup odr, ns.

LS: tan, fn-med xln, mostly brittle, mostly uniform, rare ppt-intxln por, fw pcs Chert: gry, semi-trans, sharp, no cup odr, ns.

DST7) 4624-4680
 3045/6090
 1st) Built to 5.5"
 2nd) Built to 7"
 I/P 30-97#
 ISIP 1063#
 FFP 100-154# FSP
 1005#
 HP 2220-2194#
 Recvd: 280' Mud w oil spots
 CFS @ 4680'
 30"/60"
 Mud visc dropped to 31 new
 mud was pumped in before
 test.
 MudcoCheck #11 @ 4680'
 03/22/12 8:00pm
 wt vis pH chl
 8.9 51 10.5 1500
 Fm LCM
 5.5 4#
 Sample return quality is bad.
 abund of shale in every
 sample.
 CFS @ 4780'
 30"/60"

RTD 4780', -1776
 LTD 4783', -1779

Summary of Changes

Lease Name and Number: HOEME 1-4

API/Permit #: 15-171-20863-00-00

Doc ID: 1081309

Correction Number: 1

Approved By: NAOMI JAMES

Field Name	Previous Value	New Value
Approved Date	04/19/2012	05/15/2012
Save Link	../../../../kcc/detail/operatorEditDetail.cfm?docID=1077665	../../../../kcc/detail/operatorEditDetail.cfm?docID=1081309

Summary of Attachments

Lease Name and Number: HOEME 1-4

API: 15-171-20863-00-00

Doc ID: 1081309

Correction Number: 1

Attachment Name

Geological Report revised



CONFIDENTIAL

WELL COMPLETION FORM

WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

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

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

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

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

Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date
-----------------------------------	-----------------	---

API No. 15 - _____

Spot Description: _____

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

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE NW SE SW

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite: _____

Operator Name: _____

Lease Name: _____ License #: _____

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

County: _____ Permit #: _____

AFFIDAVIT

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

Submitted Electronically

KCC Office Use ONLY

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



1077665

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

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

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

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

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

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
_____ Perforate _____ Protect Casing _____ Plug Back TD _____ Plug Off Zone				

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

TUBING RECORD: Size: _____ Set At: _____ Packer At: _____ Liner Run: 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 (Specify) _____	PRODUCTION INTERVAL: _____ _____
---	---	--

Form	ACO1 - Well Completion
Operator	Grand Mesa Operating Company
Well Name	HOEME 1-4
Doc ID	1077665

Tops

Name	Top	Datum
Stone Corral	2397	+607
Bs/Stone Corral	2417	+587
Heebner	3952	-948
Lansing	3995	-990
Muncie Creek	4163	-1159
Stark	4255	-1251
Marmaton	4376	-1372
Excello	4511	-1507
Mississippian	4670	-1666
LTD	4783	



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Grand Mesa Operating Co.
 1700 N. Waterfront Pkwy
 Bldg 600
 Wichita, Ks 67206
 ATTN: John Goldsmith

4 16s 32w Scott, Ks

Hoeme 1-4

Job Ticket: 44517

DST#: 1

Test Start: 2012.03.16 @ 09:05:00

GENERAL INFORMATION:

Formation: **LKC 'C'**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 11:03:30
 Time Test Ended: 16:17:15
 Interval: **4012.00 ft (KB) To 4052.00 ft (KB) (TVD)**
 Total Depth: 4052.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Bradley
 Unit No: Walter
 Reference Elevations: 3004.00 ft (KB)
 2999.00 ft (CF)
 KB to GR/CF: 5.00 ft

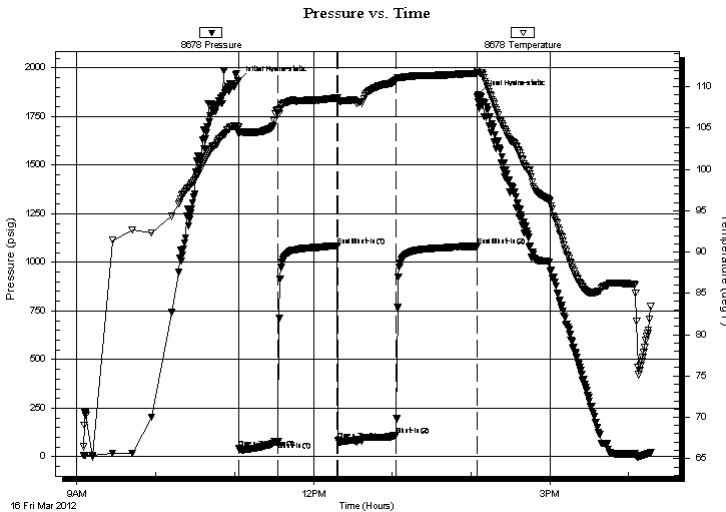
Serial #: 8678

Inside

Press @ Run Depth: 110.61 psig @ 4013.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2012.03.16 End Date: 2012.03.16 Last Calib.: 2012.03.16
 Start Time: 09:05:05 End Time: 16:17:14 Time On Btm: 2012.03.16 @ 11:03:00
 Time Off Btm: 2012.03.16 @ 14:05:15

TEST COMMENT: IF: 3" blow.
 IS: No return.
 FF: 4 1/2" blow.
 FS: No return.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1935.65	105.08	Initial Hydro-static
1	41.72	104.58	Open To Flow (1)
31	80.11	107.16	Shut-In(1)
76	1084.24	108.62	End Shut-In(1)
76	82.62	108.22	Open To Flow (2)
120	110.61	110.81	Shut-In(2)
182	1082.70	111.62	End Shut-In(2)
183	1861.28	111.95	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
170.00	ocm 98m 2o (6" oil on top)	1.10

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Grand Mesa Operating Co.

4 16s 32w Scott, Ks

1700 N. Waterfront Pkwy
Bldg 600
Wichita, Ks 67206
ATTN: John Goldsmith

Hoeme 1-4

Job Ticket: 44517

DST#: 1

Test Start: 2012.03.16 @ 09:05:00

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:

0 ppm

Viscosity: 48.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.39 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	ocm 98m 2o (6" oil on top)	1.098

Total Length: 170.00 ft Total Volume: 1.098 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

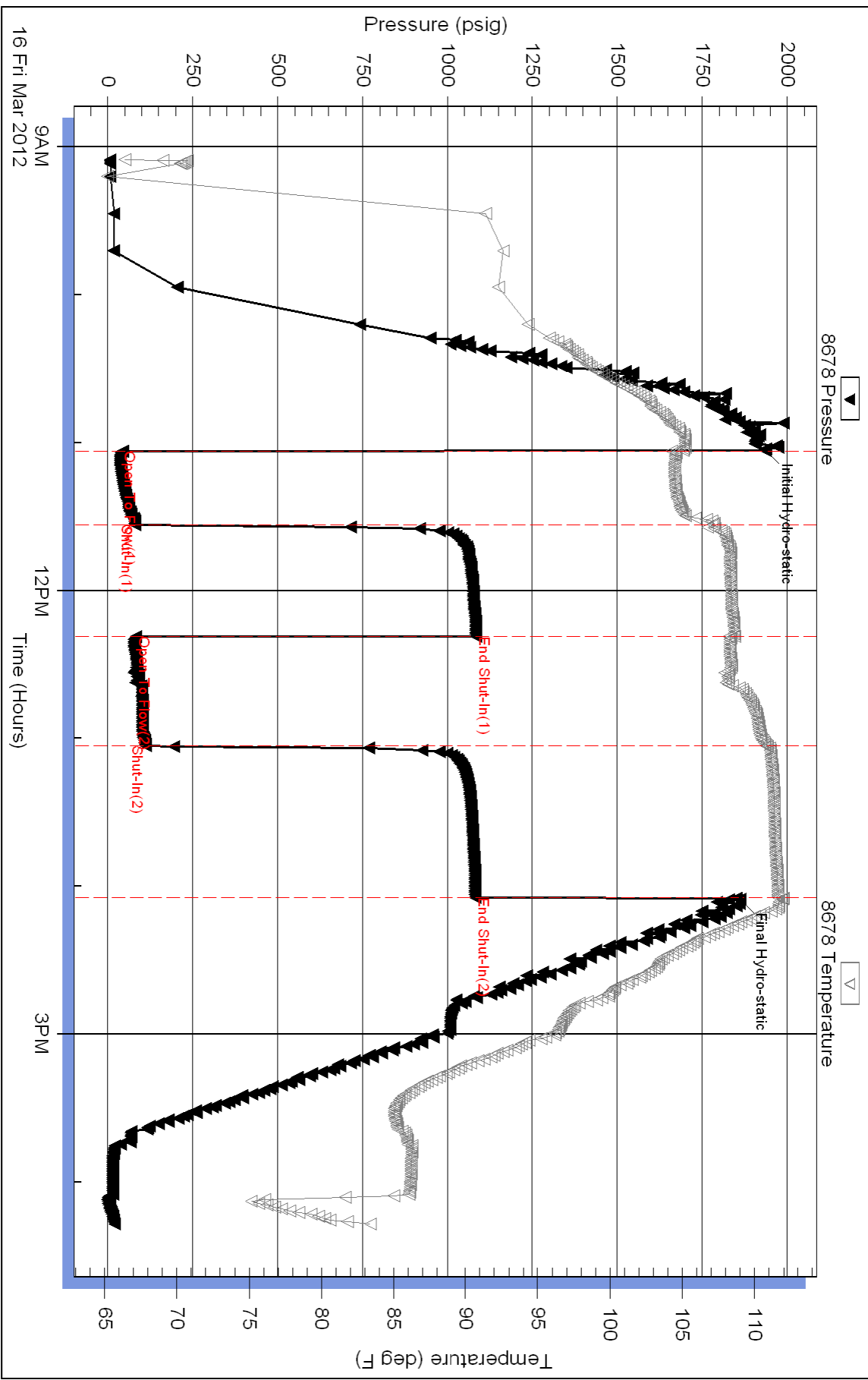
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Grand Mesa Operating Co.
 1700 N. Waterfront Pkwy
 Bldg 600
 Wichita, Ks 67206
 ATTN: John Goldsmith

4 16s 32w Scott, Ks

Hoeme 1-4

Job Ticket: 44518

DST#: 2

Test Start: 2012.03.17 @ 17:07:00

GENERAL INFORMATION:

Formation: **LKC - H,I,J**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 19:25:15
 Time Test Ended: 23:35:30
 Interval: **4154.00 ft (KB) To 4256.00 ft (KB) (TVD)**
 Total Depth: 4256.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Bradley
 Unit No: Walter
 Reference Elevations: 3004.00 ft (KB)
 2999.00 ft (CF)
 KB to GR/CF: 5.00 ft

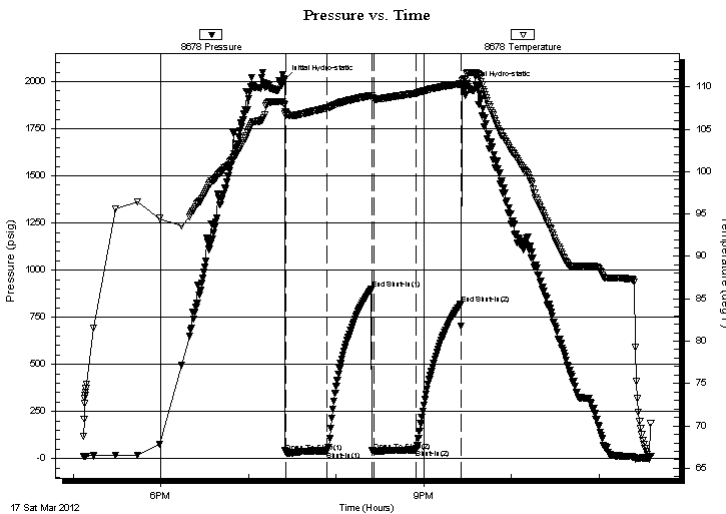
Serial #: 8678

Inside

Press @ Run Depth: 46.91 psig @ 4155.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2012.03.17 End Date: 2012.03.17 Last Calib.: 2012.03.17
 Start Time: 17:07:05 End Time: 23:35:29 Time On Btm: 2012.03.17 @ 19:24:30
 Time Off Btm: 2012.03.17 @ 21:26:45

TEST COMMENT: IF: Surface blow, died @ 15 min.
 IS: No return.
 FF: No blow.
 FS: No return.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2011.79	107.93	Initial Hydro-static
1	35.88	107.10	Open To Flow (1)
30	41.09	107.52	Shut-In(1)
60	899.25	108.99	End Shut-In(1)
61	39.48	108.60	Open To Flow (2)
90	46.91	109.26	Shut-In(2)
121	819.37	110.36	End Shut-In(2)
123	1978.57	110.88	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	Mud 100m	0.05

* 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 Co.

4 16s 32w Scott, Ks

1700 N. Waterfront Pkwy
Bldg 600
Wichita, Ks 67206
ATTN: John Goldsmith

Hoeme 1-4

Job Ticket: 44518

DST#: 2

Test Start: 2012.03.17 @ 17:07:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 49.00 sec/qt

Water Loss: 6.80 in³

Resistivity: ohm.m

Salinity: 1400.00 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
10.00	Mud 100m	0.049

Total Length: 10.00 ft Total Volume: 0.049 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

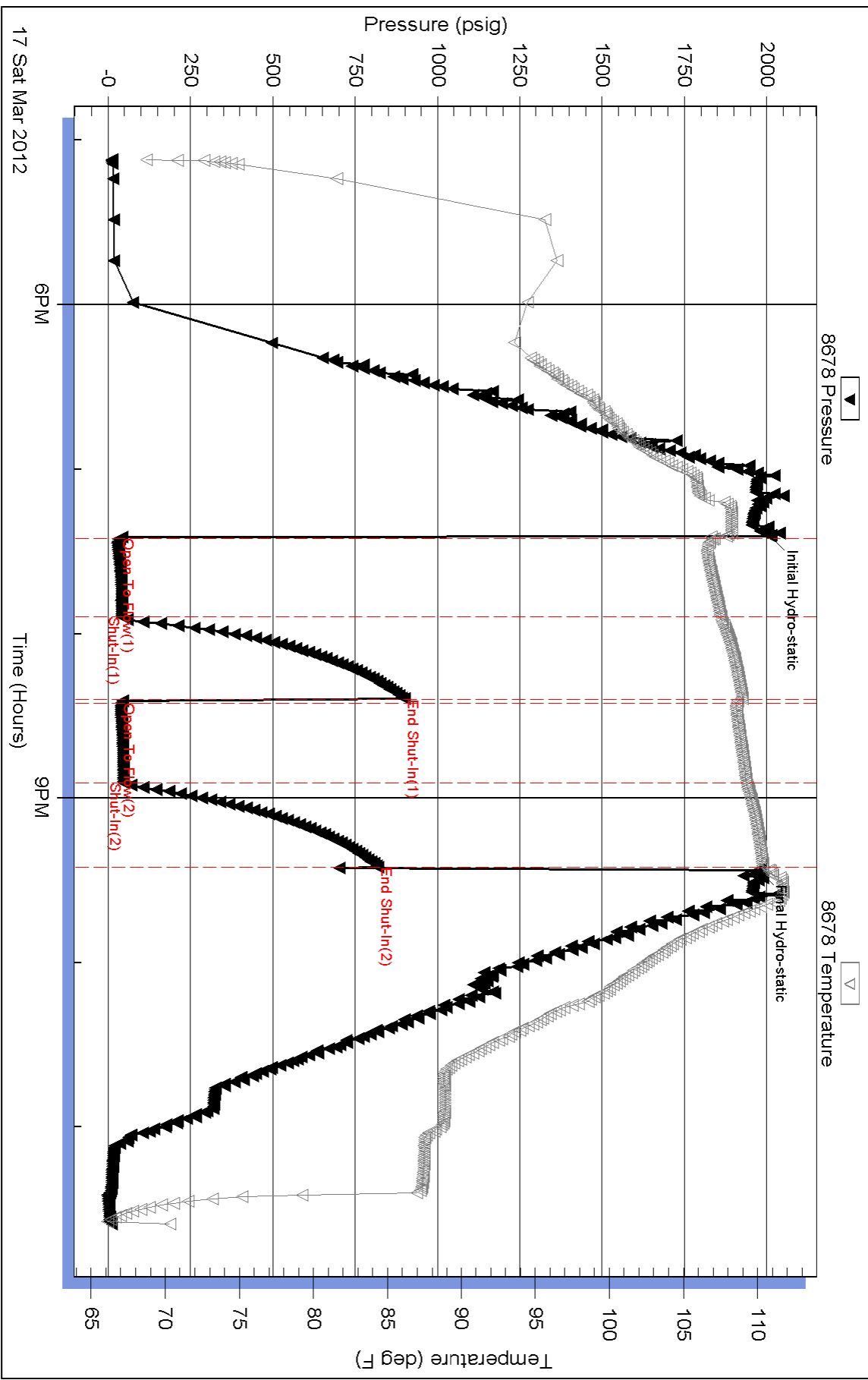
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time



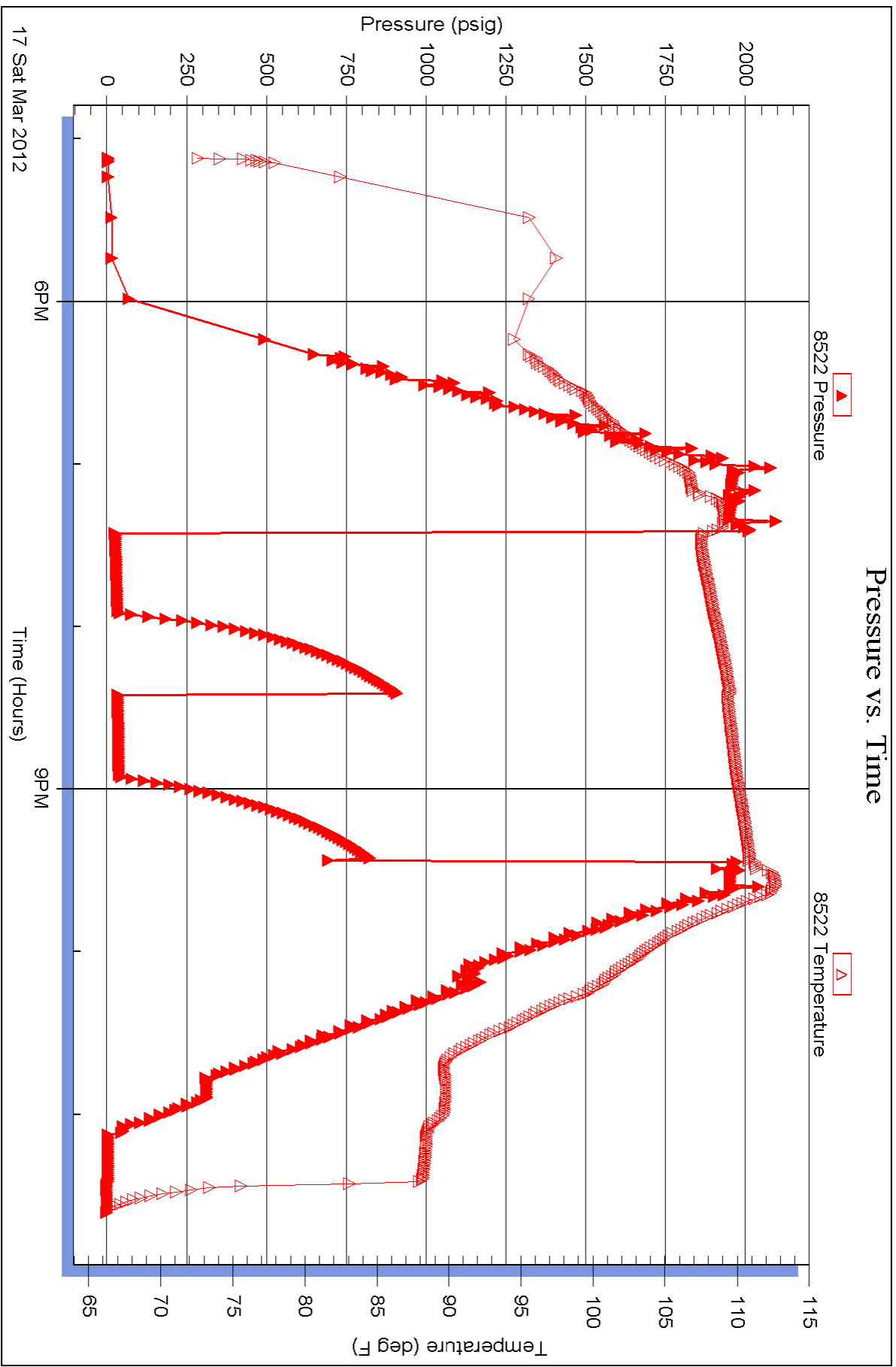
Serial #: 8522

Inside

Grand Mesa Operating Co.

Hoerne 1-4

DST Test Number: 2





TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Grand Mesa Operating Co.

4 16s 32w Scott, Ks

1700 N. Waterfront Pkw y
Bldg 600
Wichita, Ks 67206
ATTN: John Goldsmith

Hoeme 1-4

Job Ticket: 44519

DST#: 3

Test Start: 2012.03.18 @ 23:42:00

GENERAL INFORMATION:

Formation: **Lenepah - Altamont**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 02:05:30

Time Test Ended: 06:20:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Bradley

Unit No: Walter

Interval: 4377.00 ft (KB) To 4438.00 ft (KB) (TVD)

Reference Elevations: 3004.00 ft (KB)

Total Depth: 4438.00 ft (KB) (TVD)

2999.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8522 Inside

Press @ Run Depth: 32.20 psig @ 4378.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.03.18

End Date:

2012.03.19

Last Calib.:

2012.03.19

Start Time: 23:42:05

End Time:

06:19:59

Time On Btm:

2012.03.19 @ 02:05:15

Time Off Btm:

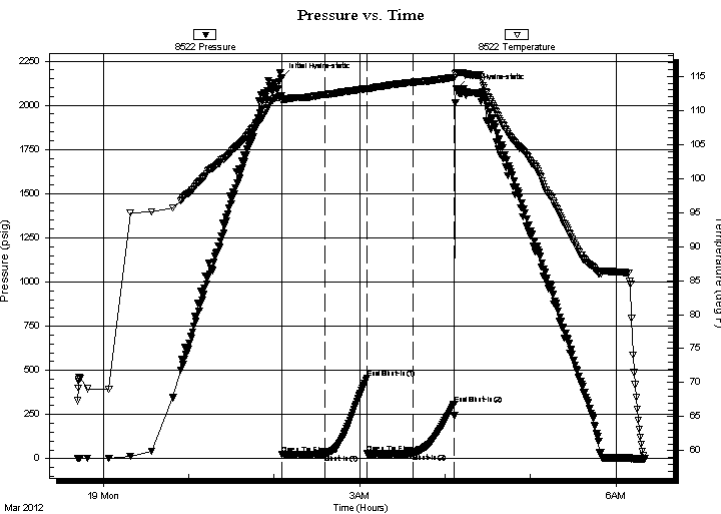
2012.03.19 @ 04:08:15

TEST COMMENT: IF: Surface blow, died @ 18 minutes.

IS: No return.

FF: No blow.

FS: No return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2157.04	112.14	Initial Hydro-static
1	24.33	111.48	Open To Flow (1)
30	26.53	112.33	Shut-In(1)
60	456.70	113.23	End Shut-In(1)
60	27.77	113.08	Open To Flow (2)
93	32.20	114.15	Shut-In(2)
121	306.56	114.83	End Shut-In(2)
123	2095.53	115.54	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud 100m (oil spots)	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 Co.

4 16s 32w Scott, Ks

1700 N. Waterfront Pkwy
Bldg 600
Wichita, Ks 67206
ATTN: John Goldsmith

Hoeme 1-4

Job Ticket: 44519

DST#: 3

Test Start: 2012.03.18 @ 23:42:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 49.00 sec/qt

Water Loss: 6.39 in³

Resistivity: ohm.m

Salinity: 1800.00 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
5.00	Mud 100m (oil spots)	0.025

Total Length: 5.00 ft Total Volume: 0.025 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

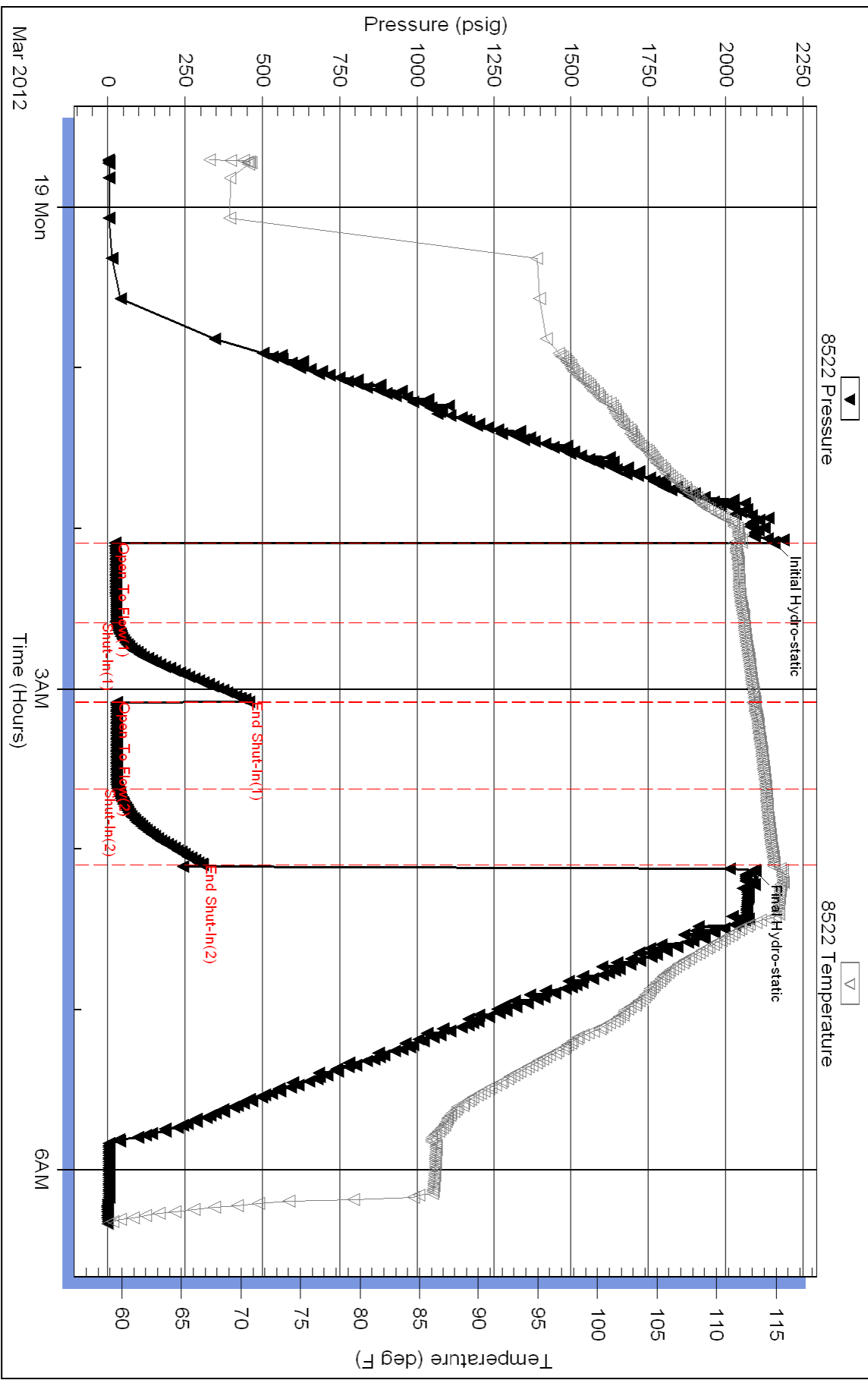
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Grand Mesa Operating Co.

4 16s 32w Scott, Ks

1700 N. Waterfront Pkwy
Bldg 600
Wichita, Ks 67206
ATTN: John Goldsmith

Hoeme 1-4

Job Ticket: 44520

DST#: 4

Test Start: 2012.03.19 @ 23:45:00

GENERAL INFORMATION:

Formation: **Ft.Scott - Vertrigri**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 02:13:15

Time Test Ended: 06:42:45

Test Type: Conventional Bottom Hole (Reset)

Tester: Bradley

Unit No: Walter

Interval: **4455.00 ft (KB) To 4538.00 ft (KB) (TVD)**

Reference Elevations: 3004.00 ft (KB)

Total Depth: 4538.00 ft (KB) (TVD)

2999.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8678

Inside

Press@RunDepth: 42.39 psig @ 4456.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.03.19

End Date:

2012.03.20

Last Calib.: 2012.03.20

Start Time: 23:45:05

End Time:

06:42:44

Time On Btm: 2012.03.20 @ 02:13:00

Time Off Btm: 2012.03.20 @ 04:20:45

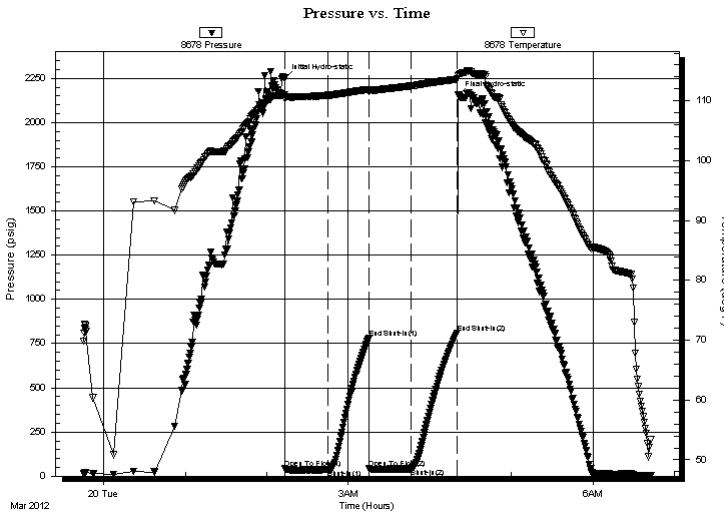
TEST COMMENT: IF: Surface blow, Died @ 20 min.

IS: No return.

FF: No blow.

FS: No return.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2251.06	111.04	Initial Hydro-static
1	42.26	110.37	Open To Flow (1)
32	37.51	110.95	Shut-In(1)
62	781.75	111.94	End Shut-In(1)
63	43.25	111.55	Open To Flow (2)
93	42.39	112.50	Shut-In(2)
127	810.94	113.63	End Shut-In(2)
128	2155.18	114.21	Final Hydro-static

Recovery

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

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Grand Mesa Operating Co.

4 16s 32w Scott, Ks

1700 N. Waterfront Pkwy
Bldg 600
Wichita, Ks 67206
ATTN: John Goldsmith

Hoeme 1-4

Job Ticket: 44520

DST#: 4

Test Start: 2012.03.19 @ 23:45:00

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:

0 ppm

Viscosity: 51.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.20 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	mud 100m	0.025

Total Length: 5.00 ft Total Volume: 0.025 bbl

Num Fluid Samples: 0

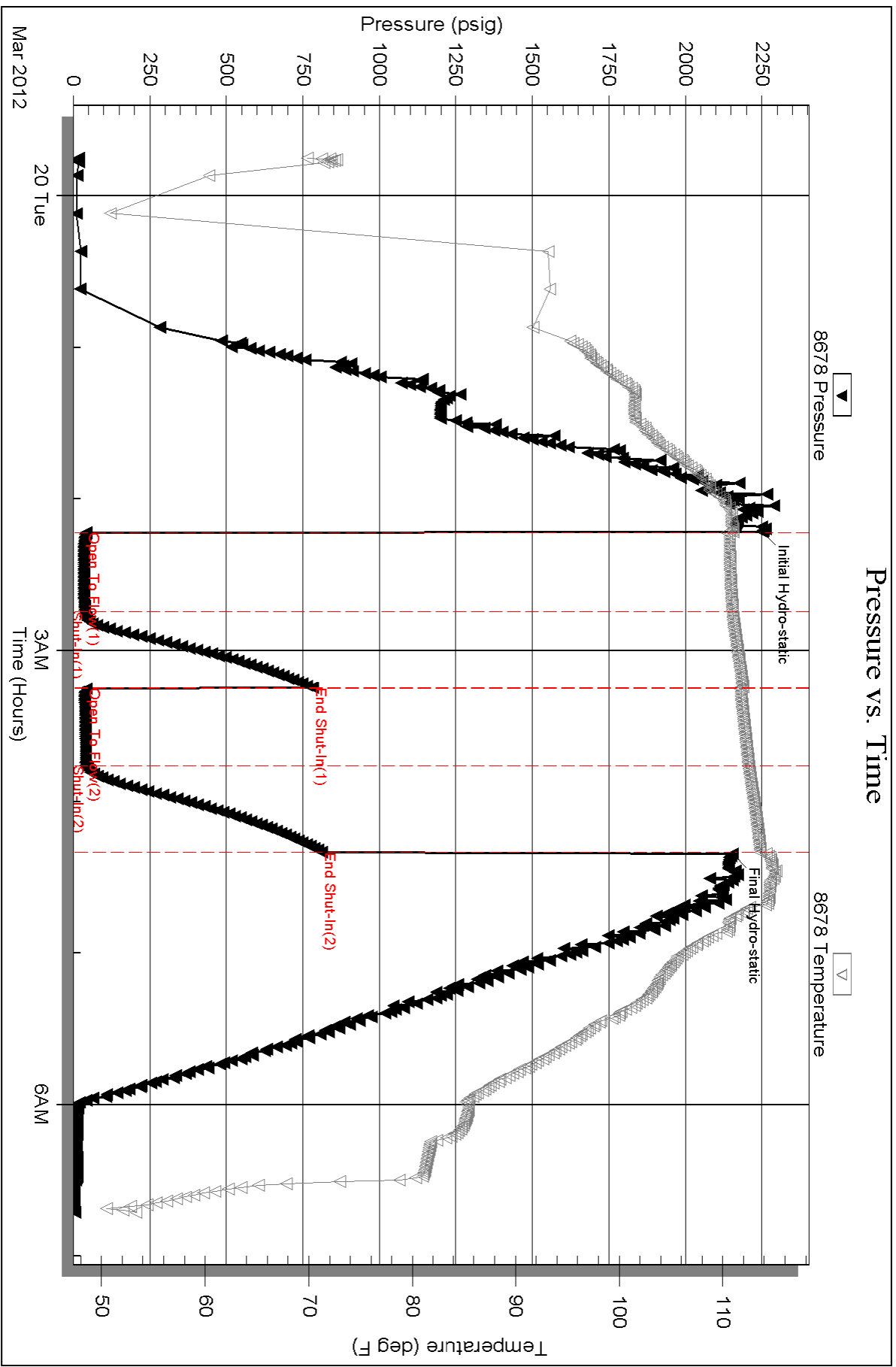
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



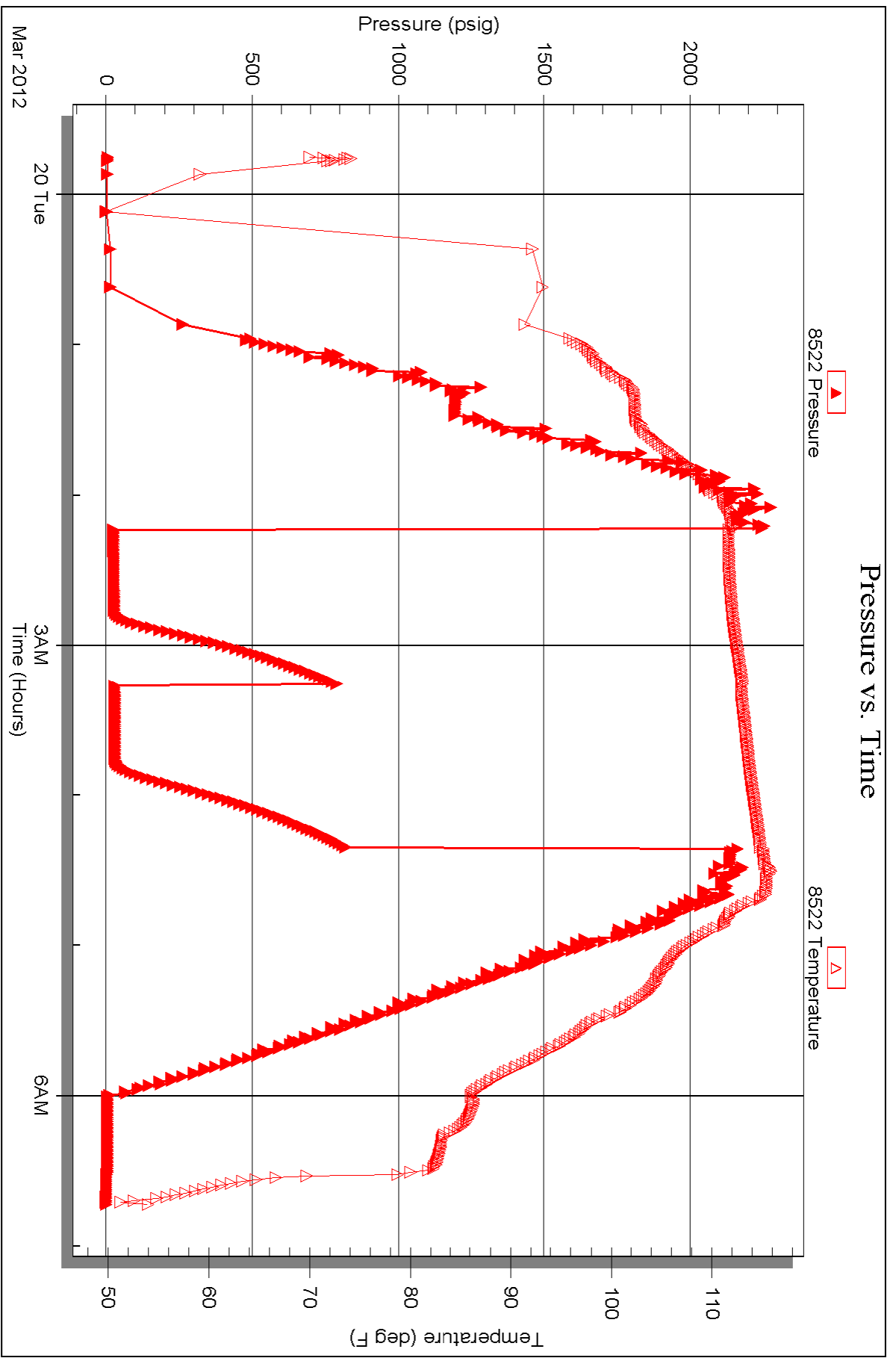
Serial #: 8522

Inside

Grand Mesa Operating Co.

Hoerne 1-4

DST Test Number: 4





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Grand Mesa Operating Co.

4 16s 32w Scott, Ks

1700 N. Waterfront Pkw y
Bldg 600
Wichita, Ks 67206
ATTN: John Goldsmith

Hoeme 1-4

Job Ticket: 44521

DST#: 5

Test Start: 2012.03.20 @ 17:51:00

GENERAL INFORMATION:

Formation: **Johnson**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 19:46:15

Time Test Ended: 01:58:45

Test Type: Conventional Bottom Hole (Reset)

Tester: Bradley

Unit No: Walter

Interval: 4531.00 ft (KB) To 4590.00 ft (KB) (TVD)

Reference Elevations: 3004.00 ft (KB)

Total Depth: 4590.00 ft (KB) (TVD)

2999.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8522 Inside

Press @ Run Depth: 97.37 psig @ 4532.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.03.20

End Date:

2012.03.21

Last Calib.: 2012.03.21

Start Time: 17:51:05

End Time:

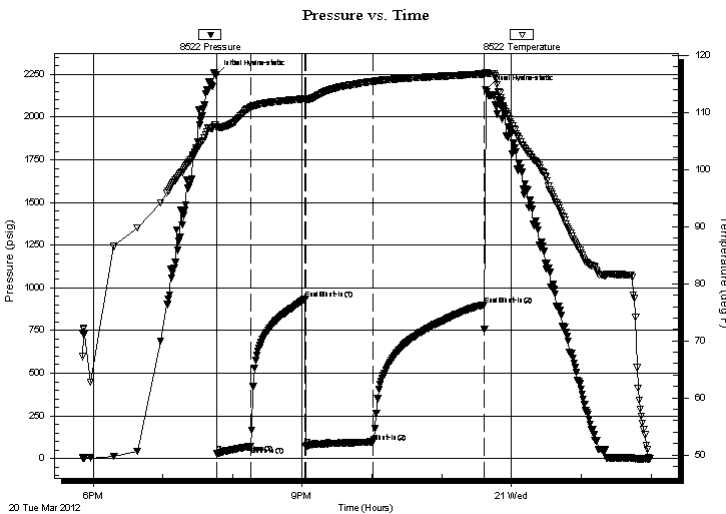
01:58:44

Time On Btm: 2012.03.20 @ 19:46:00

Time Off Btm: 2012.03.20 @ 23:37:45

TEST COMMENT: IF: 4" blow.
IS: No return.
FF: 3 1/2" blow.
FS: No return.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2248.90	107.91	Initial Hydro-static
1	27.68	107.26	Open To Flow (1)
30	69.69	110.92	Shut-In(1)
77	934.12	112.40	End Shut-In(1)
77	73.04	112.03	Open To Flow (2)
135	97.37	115.41	Shut-In(2)
231	899.89	116.73	End Shut-In(2)
232	2160.02	117.01	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
160.00	sow cm 1o 14w 85m	1.00

* 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 Co.

4 16s 32w Scott, Ks

1700 N. Waterfront Pkwy
Bldg 600
Wichita, Ks 67206
ATTN: John Goldsmith

Hoeme 1-4

Job Ticket: 44521

DST#: 5

Test Start: 2012.03.20 @ 17:51:00

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:

22000 ppm

Viscosity: 52.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.79 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
160.00	sow cm 1o 14w 85m	0.998

Total Length: 160.00 ft Total Volume: 0.998 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: rw is .400 @ 53 = 22,000ppm

Serial #: 8522

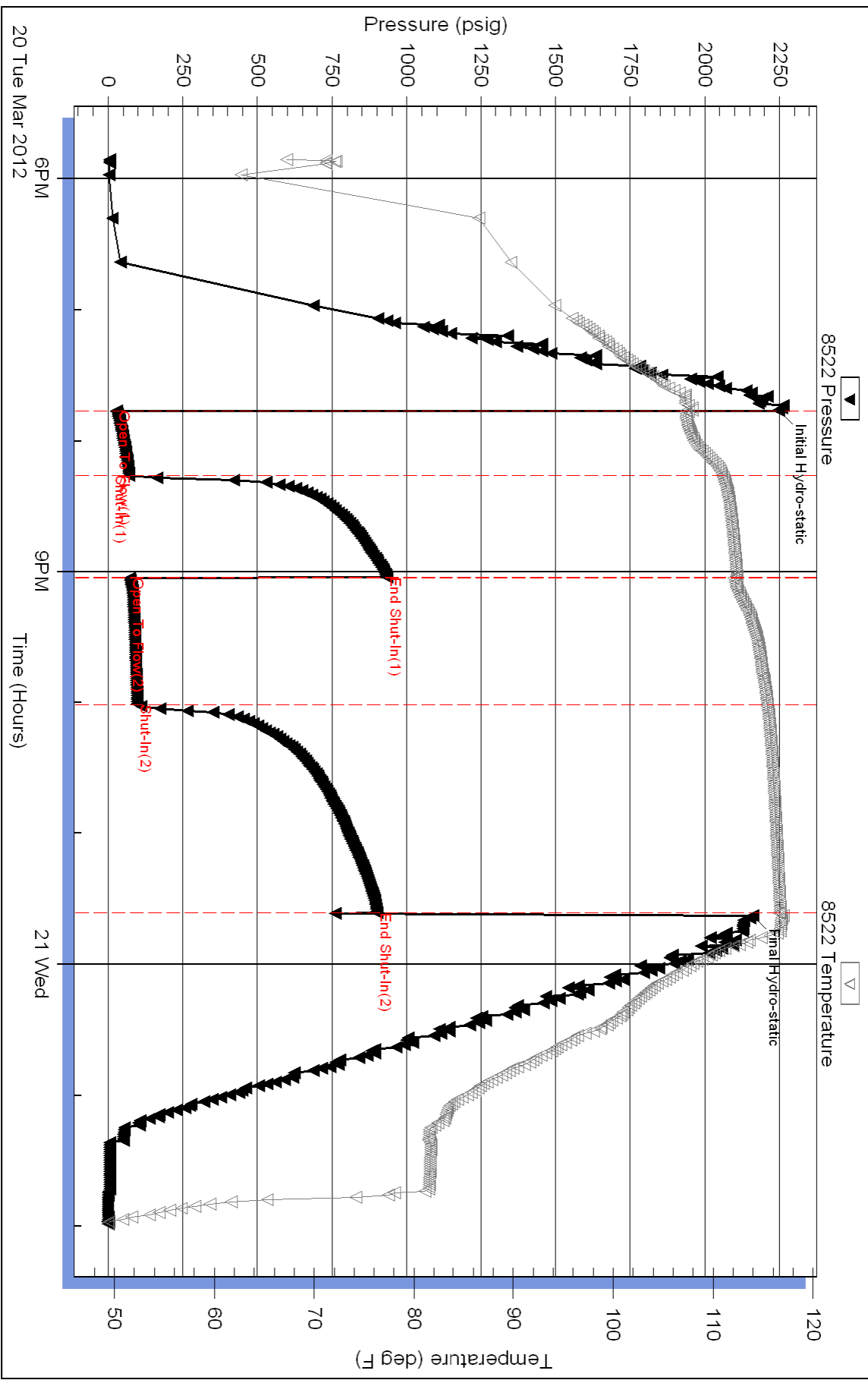
Inside

Grand Mesa Operating Co.

Hoerne 1-4

DST Test Number: 5

Pressure vs. Time





TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Grand Mesa Operating Co.
 1700 N. Waterfront Pkwy
 Bldg 600
 Wichita, Ks 67206
 ATTN: John Goldsmith

4 16s 32w Scott, Ks

Hoeme 1-4

Job Ticket: 44522

DST#: 6

Test Start: 2012.03.21 @ 12:35:00

GENERAL INFORMATION:

Formation: **Atoka**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 14:47:15
 Time Test Ended: 19:04:30
 Interval: **4590.00 ft (KB) To 4626.00 ft (KB) (TVD)**
 Total Depth: 4052.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Bradley
 Unit No: Walter
 Reference Elevations: 3004.00 ft (KB)
 2999.00 ft (CF)
 KB to GR/CF: 5.00 ft

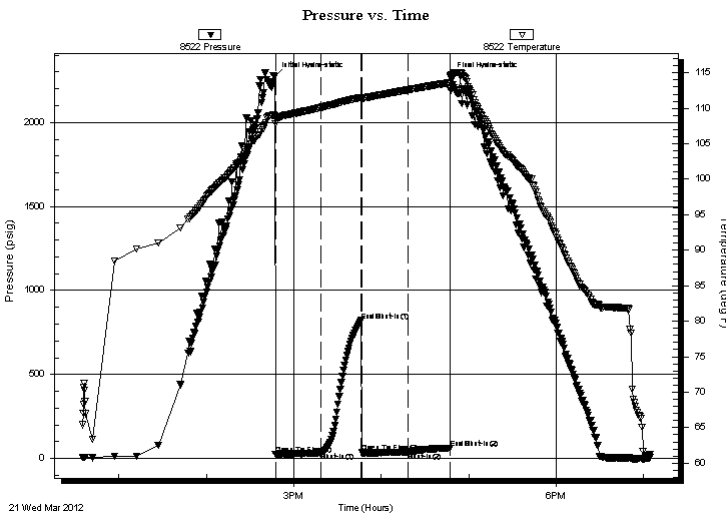
Serial #: 8522

Inside

Press @ Run Depth: 39.33 psig @ 4591.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2012.03.21 End Date: 2012.03.21 Last Calib.: 2012.03.21
 Start Time: 12:35:05 End Time: 19:04:29 Time On Btm: 2012.03.21 @ 14:47:00
 Time Off Btm: 2012.03.21 @ 16:47:00

TEST COMMENT: IF: Surface blow .
 IS: No return.
 FF: Surface blow .
 FS: No return.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2273.46	109.00	Initial Hydro-static
1	27.07	107.84	Open To Flow (1)
32	35.34	110.12	Shut-In(1)
59	820.01	111.55	End Shut-In(1)
60	34.40	111.34	Open To Flow (2)
91	39.33	112.60	Shut-In(2)
120	61.14	113.60	End Shut-In(2)
120	2270.94	114.61	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	ocm 10o 90m	0.07
3.00	oil 100o	0.01

* 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 Co.

4 16s 32w Scott, Ks

1700 N. Waterfront Pkw y
Bldg 600
Wichita, Ks 67206
ATTN: John Goldsmith

Hoeme 1-4

Job Ticket: 44522

DST#: 6

Test Start: 2012.03.21 @ 12:35:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 58.00 sec/qt

Water Loss: 7.20 in³

Resistivity: ohm.m

Salinity: 3500.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API:

0 deg API

Water Salinity: 0 ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
15.00	ocm 10o 90m	0.074
3.00	oil 100o	0.015

Total Length: 18.00 ft Total Volume: 0.089 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

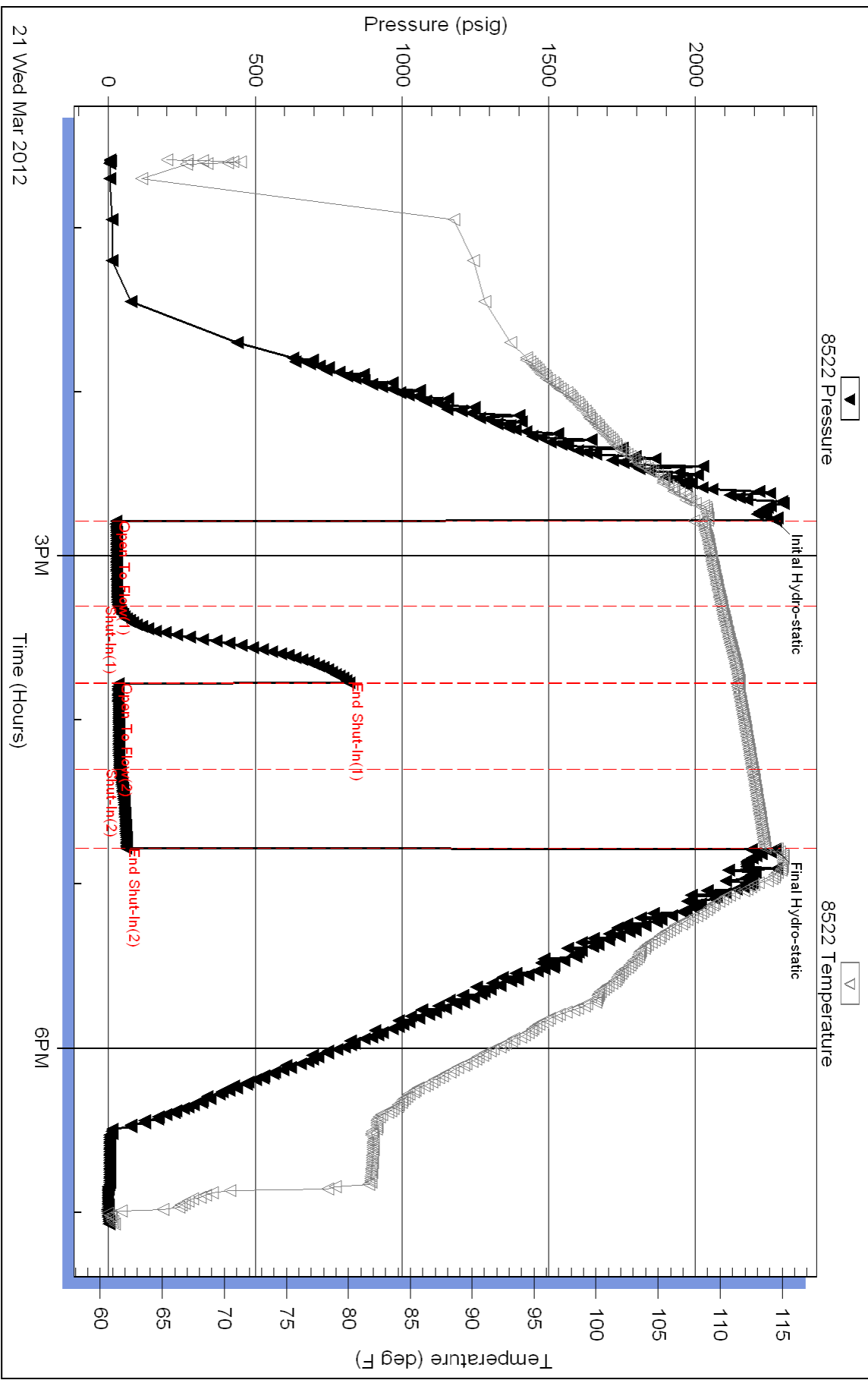
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Grand Mesa Operating Co.
 1700 N. Waterfront Pkwy
 Bldg 600
 Wichita, Ks 67206
 ATTN: John Goldsmith

4 16s 32w Scott, Ks

Hoeme 1-4

Job Ticket: 44523

DST#: 7

Test Start: 2012.03.22 @ 10:23:00

GENERAL INFORMATION:

Formation: **St. Lewis - Chester**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 12:34:45

Time Test Ended: 18:41:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Bradley

Unit No: Walter

Interval: 4614.00 ft (KB) To 4680.00 ft (KB) (TVD)

Total Depth: 4680.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 3004.00 ft (KB)

2999.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8678 Inside

Press @ Run Depth: 154.48 psig @ 4615.00 ft (KB)

Start Date: 2012.03.22

End Date: 2012.03.22

Start Time: 10:23:05

End Time: 18:40:59

Capacity: 8000.00 psig

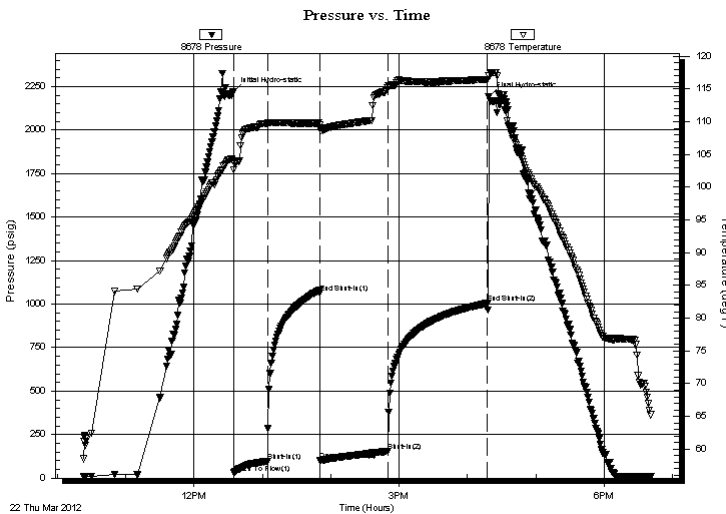
Last Calib.: 2012.03.22

Time On Btm: 2012.03.22 @ 12:34:30

Time Off Btm: 2012.03.22 @ 16:18:45

TEST COMMENT: IF: 5 1/2" blow.
 IS: No return.
 FF: 7" blow.
 FS: No return.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2219.54	103.92	Initial Hydro-static
1	30.41	102.71	Open To Flow (1)
30	97.09	109.71	Shut-In(1)
76	1062.94	109.81	End Shut-In(1)
76	100.42	109.46	Open To Flow (2)
136	154.48	115.23	Shut-In(2)
223	1004.56	116.47	End Shut-In(2)
225	2193.69	116.94	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
280.00	mud 100m (thin w/oil spots)	2.19

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Grand Mesa Operating Co.

4 16s 32w Scott, Ks

1700 N. Waterfront Pkw y
Bldg 600
Wichita, Ks 67206
ATTN: John Goldsmith

Hoeme 1-4

Job Ticket: 44523

DST#: 7

Test Start: 2012.03.22 @ 10:23:00

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:

0 ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.40 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
280.00	mud 100m (thin w/oil spots)	2.192

Total Length: 280.00 ft Total Volume: 2.192 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

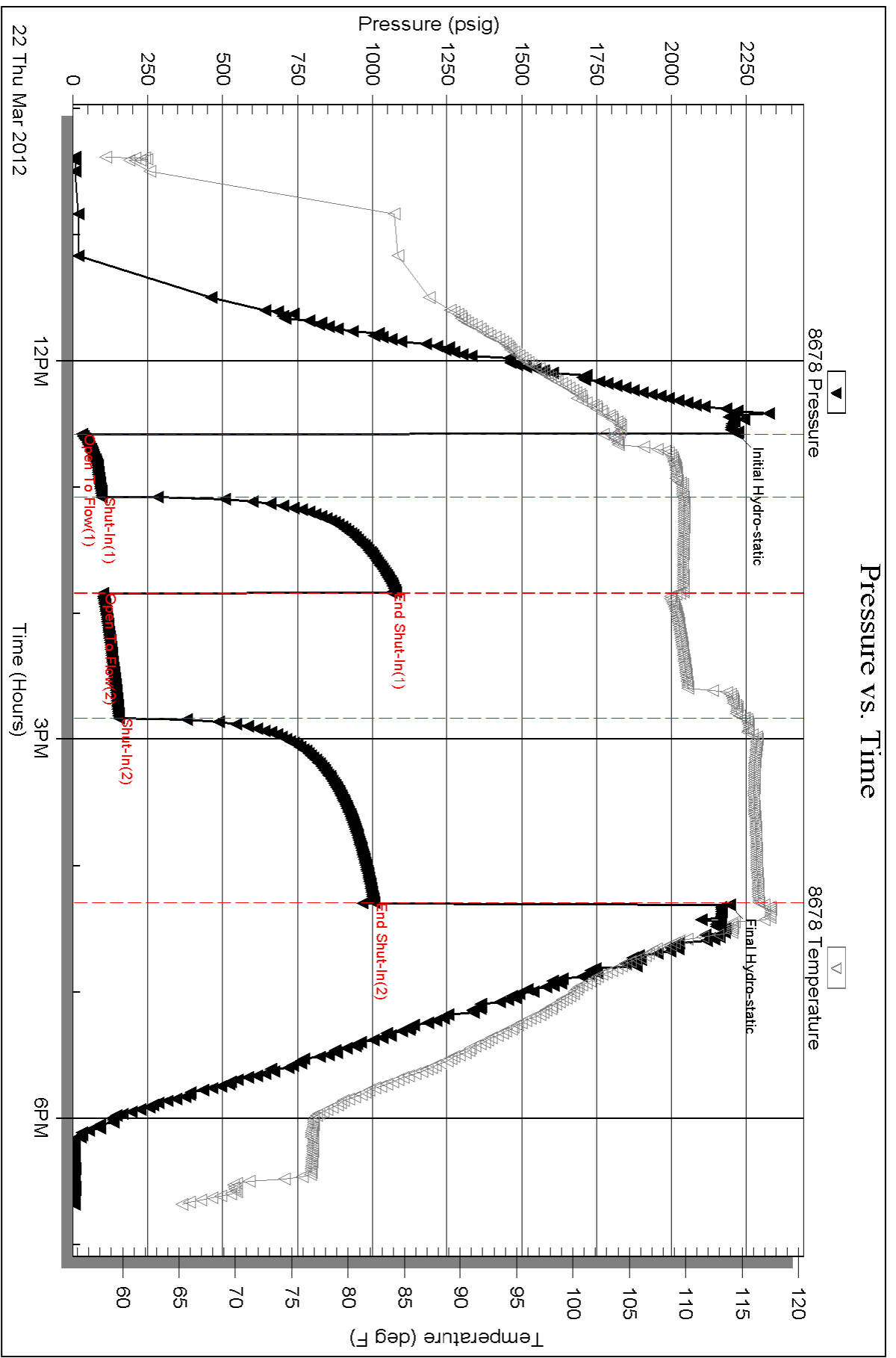
Serial #: 8678

Inside

Grand Mesa Operating Co.

Hoerne 1-4

DST Test Number: 7



Triobite Testing, Inc

Ref. No: 44523

Printed: 2012.03.23 @ 08:06:25

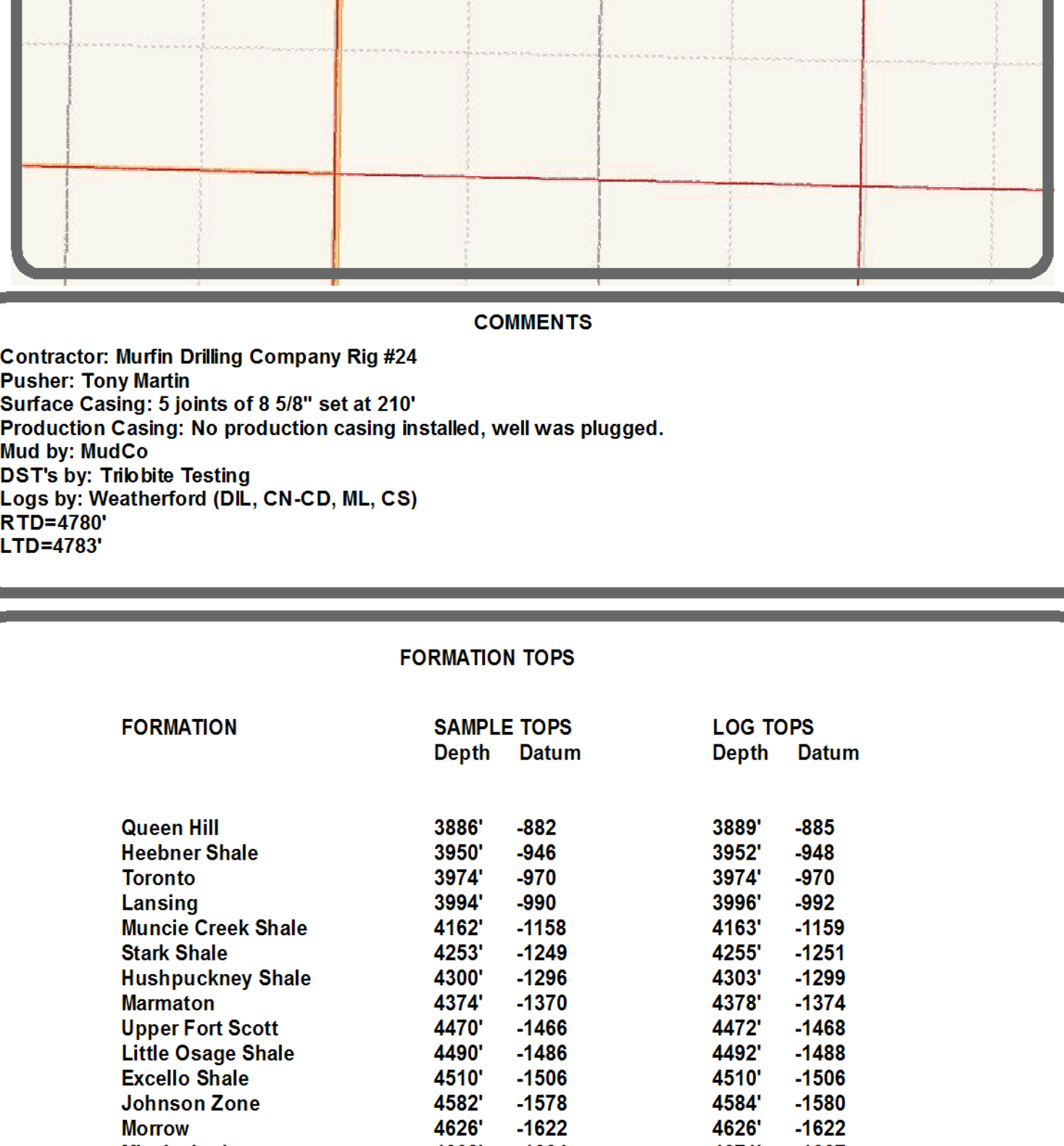
**Scale 1:240 (5"=100') Imperial
Measured Depth Log**

Well Name: #1-4 Hoeme
 Location: 2650' FSL, 1413' FWL, SECTION 04-16S-32W, SW SW SE NW
 License Number: API: 15-171-20863
 Production Casing: 5 Joints of 8 5/8" set at 210'
 Spud Date: 03/12/2012
 Surface Coordinates: LAT 38.6928771 LONG -100.8663270
 Bottom Hole Coordinates: Vertical hole
 Ground Elevation (ft): 2999' K.B. Elevation (ft): 3004'
 Logged Interval (ft): 3650' To: RTD Total Depth (ft): 4780'
 Formation: Mississippi at RTD
 Type of Drilling Fluid: Chemical
 Region: Scott County
 Drilling Completed: 03/23/2012

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

GEOLOGIST

Name: John Goldsmith
 Company: John Goldsmith WellSite Service
 Address: 322 Greenwood Ct.
 Cheney, KS 67025
 316-640-0236

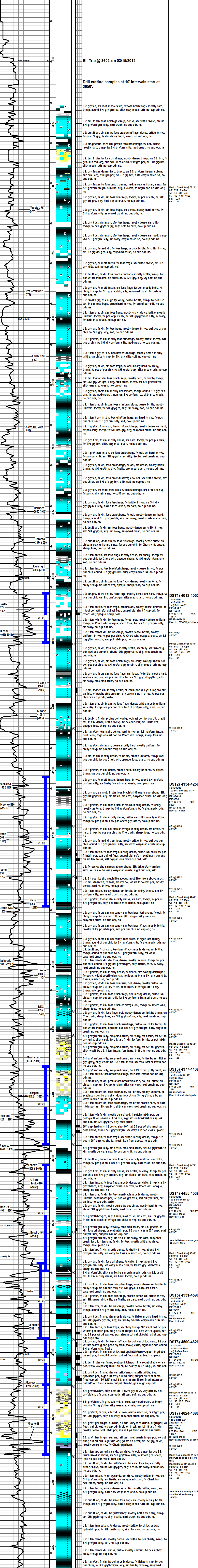


COMMENTS

Contractor: Murfin Drilling Company Rig #24
 Pusher: Tony Martin
 Surface Casing: 5 Joints of 8 5/8" set at 210'
 Production Casing: No production casing installed, well was plugged.
 Mud by: MudCo
 DST's by: Trilobite Testing
 Logs by: Weatherford (DL, CN-CD, ML, CS)
 LTD=4780'
 LTD=4783'

FORMATION TOPS

FORMATION	SAMPLE TOPS Depth	Datum	LOG TOPS Depth	Datum
Queen Hill	3886'	-882	3889'	-885
Heebner Shale	3950'	-946	3952'	-948
Toronto	3974'	-970	3974'	-970
Lansing	3994'	-990	3996'	-992
Muncie Creek Shale	4162'	-1158	4163'	-1159
Stark Shale	4233'	-1249	4255'	-1251
Hushpuckney Shale	4300'	-1296	4303'	-1299
Marmaton	4374'	-1370	4378'	-1374
Upper Fort Scott	4470'	-1466	4472'	-1468
Little Osage Shale	4490'	-1486	4492'	-1488
Excelsior Shale	4510'	-1506	4510'	-1506
Johnson Zone	4582'	-1578	4584'	-1580
Morrow	4626'	-1622	4626'	-1622
Mississippi	4668'	-1664	4671'	-1667
RTD	4780'	-1776		
LTD			4783'	-1779



RTD 4780' -1776
LTD 4783' -1779



CONSOLIDATED
Oil Well Services, LLC



TICKET NUMBER 33896
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
3-12-12	3372	Hoeme 1-4	4	16 ^s	32 ^w	Scott
CUSTOMER <u>Grand Mesa</u>			Oakley South to Colina 1/2 S E.S			
MAILING ADDRESS			TRUCK #	DRIVER	TRUCK #	DRIVER
CITY			456-7118	Miles Shaw		
STATE			460	Cory D		
ZIP CODE						

JOB TYPE Surface HOLE SIZE 12 1/4 HOLE DEPTH 220' CASING SIZE & WEIGHT 8 5/8 - 23#
CASING DEPTH 220' DRILL PIPE _____ TUBING _____ OTHER _____
SLURRY WEIGHT 15.2 SLURRY VOL _____ WATER gal/sk _____ CEMENT LEFT In CASING 65'
DISPLACEMENT 13 BBL DISPLACEMENT PSI _____ MIX PSI _____ RATE 6 BPM

REMARKS: Safety Meeting, Rig up on Muckin 24, Circ Casing on bottom mixed 165 sks com, 3% cc - 2% cl, Displace 13 BBL H₂O @ 150# Shut in

Cement Did Circ

Thank You
Walt Dunkel

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
54015		PUMP CHARGE	1.085 ⁰⁰	1.085 ⁰⁰
5406	25	MILEAGE	5 ⁰⁰	125 ⁰⁰
11043	165 SKS	Class A Cement	17 ⁶⁵	2,912 ²⁵
1102	465 #	Calcium Chloride	.89	413 ⁸⁵
1118B	310 #	Gel	.25	77 ⁵⁰
5407	7.76	Ton Mileage Delivery	16 ⁷	410 ⁰⁰
				5,023 ⁶⁰
		Less 10% Disc		502 ³⁶
				4,521 ²⁴
		248376	SALES TAX	254 ²⁵
			ESTIMATED TOTAL	4775 ⁴⁹

Revin 3737

AUTHORIZATION Anthony Mark

TITLE Pusher

DATE 3-12-12

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.



CONSOLIDATED
Oil Well Services, LLC



TICKET NUMBER 33903
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
3-23-12	3372	Hoeme 1-4	4	16 ^s	32 ^w	Scott
CUSTOMER Grand Mesa			Oakley 5 to CL 16s E.S.			
MAILING ADDRESS						
CITY	STATE	ZIP CODE	TRUCK #	DRIVER	TRUCK #	DRIVER
			399	Dennis Miller		
			466	Chris		

JOB TYPE PTA HOLE SIZE 7 7/8 HOLE DEPTH 4780' CASING SIZE & WEIGHT _____
 CASING DEPTH _____ DRILL PIPE 4 1/2 YH TUBING _____ OTHER _____
 SLURRY WEIGHT _____ SLURRY VOL _____ WATER gal/sk _____ CEMENT LEFT in CASING _____
 DISPLACEMENT _____ DISPLACEMENT PSI _____ MIX PSI _____ RATE _____

REMARKS: Safety meeting, rig up on Murtin #24
Plug as ordered

50 SKs @ 2400'
80 SKs @ 1800'
50 SKs @ 900' 300 SKs 60/40pm, 4% Gel, 1/4" # Flo-Seal
50 SKs @ 250'
20 SKs @ 60'
30 SKs in R.H.
20 SKs in M.H.
11:30 P

Thank You
Walt + crew

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5405N	1	PUMP CHARGE	1,325 ⁰⁰	1,325 ⁰⁰
5406	25	MILEAGE	5 ⁰⁰	125 ⁰⁰
1131	300 SKs	60/40pm	15 ¹⁰	4,530 ⁰⁰
1118B	1,032 #	Gel	.25	258 ⁰⁰
1107	75 #	Flo-Seal	2 ⁸²	211 ⁵⁰
5407A	12.9	Ton Mileage Delivery	1 ⁶⁷	538 ⁵⁰
	+	8 3/4 wooden plugs	211⁵⁰	211⁵⁰
				6,985 ⁰⁰
		Loss 10% Disc		698 ⁰⁰
				6,287 ²⁰
		248577		373.45
			SALES TAX	
			ESTIMATED TOTAL	6662.65

Ravin 9737 AUTHORIZATION Anthony Merts TITLE Pusher DATE 3-23-12

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.

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 19, 2012

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

Re: ACO1
API 15-171-20863-00-00
HOEME 1-4
NW/4 Sec.04-16S-32W
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