



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1070151
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: _____

1070151



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

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

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

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

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

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

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

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

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

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

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

TUBING RECORD: Size: _____ Set At: _____ Packer At: _____ Liner Run: Yes No

Date of First, Resumed Production, SWD or ENHR: _____ Producing Method:
 Flowing Pumping Gas Lift Other *(Explain)* _____

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Grand Mesa Operating Company
Well Name	C-E 1-8
Doc ID	1070151

All Electric Logs Run

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

Form	ACO1 - Well Completion
Operator	Grand Mesa Operating Company
Well Name	C-E 1-8
Doc ID	1070151

Tops

Name	Top	Datum
Stone Corral	2440	+642
Bs/Stone Corral	2460	+622
Heebner	3991	-909
Lansing	4038	-956
Muncie Creek	4214	-1132
Stark	4299	-1217
Hushpuckney	4341	-1259
Marmaton	4410	-1328
Little Osage	4544	-1462
Johnson	4636	-1554
Morrow	4705	-1623
Mississippian	4758	-1676
LTD	4853	

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



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

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

Sam Brownback, Governor

December 12, 2011

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

Re: ACO1
API 15-171-20852-00-00
C-E 1-8
SE/4 Sec.08-16S-33W
Scott County, Kansas

Dear Production Department:

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

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

Respectfully,
Ronald N. Sinclair

GRAND MESA OPERATING COMPANY

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

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

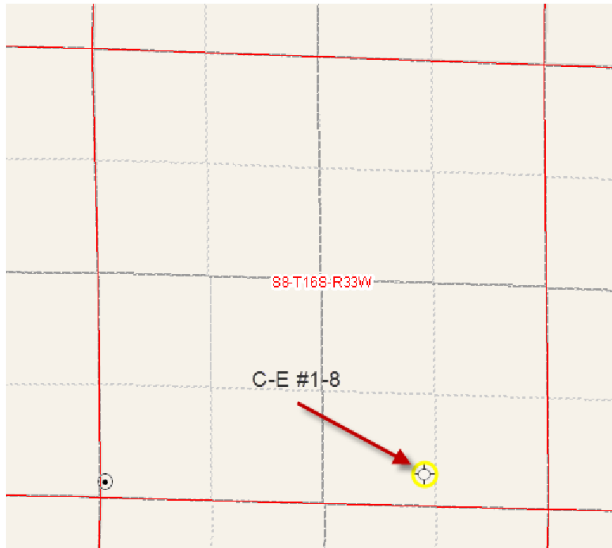
Scale 1:240 (5"=100') Imperial
Measured Depth Log

Well Name: C-E #1-8
 Location: 352' FSL, 1414' FEL, 08-16s-33w, Scott County, Kansas
 License Number: API: 15-171-20852 Region: Scott County
 Spud Date: 11/07/2011 Drilling Completed: 11/19/2011
 Surface Coordinates: Lat: 38.6716612
 Long: -100.9856725
 Bottom Hole Coordinates: Vertical hole
 Ground Elevation (ft): 3071' K.B. Elevation (ft): 3082'
 Logged Interval (ft): 3600' To: RTD Total Depth (ft): 4860'
 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



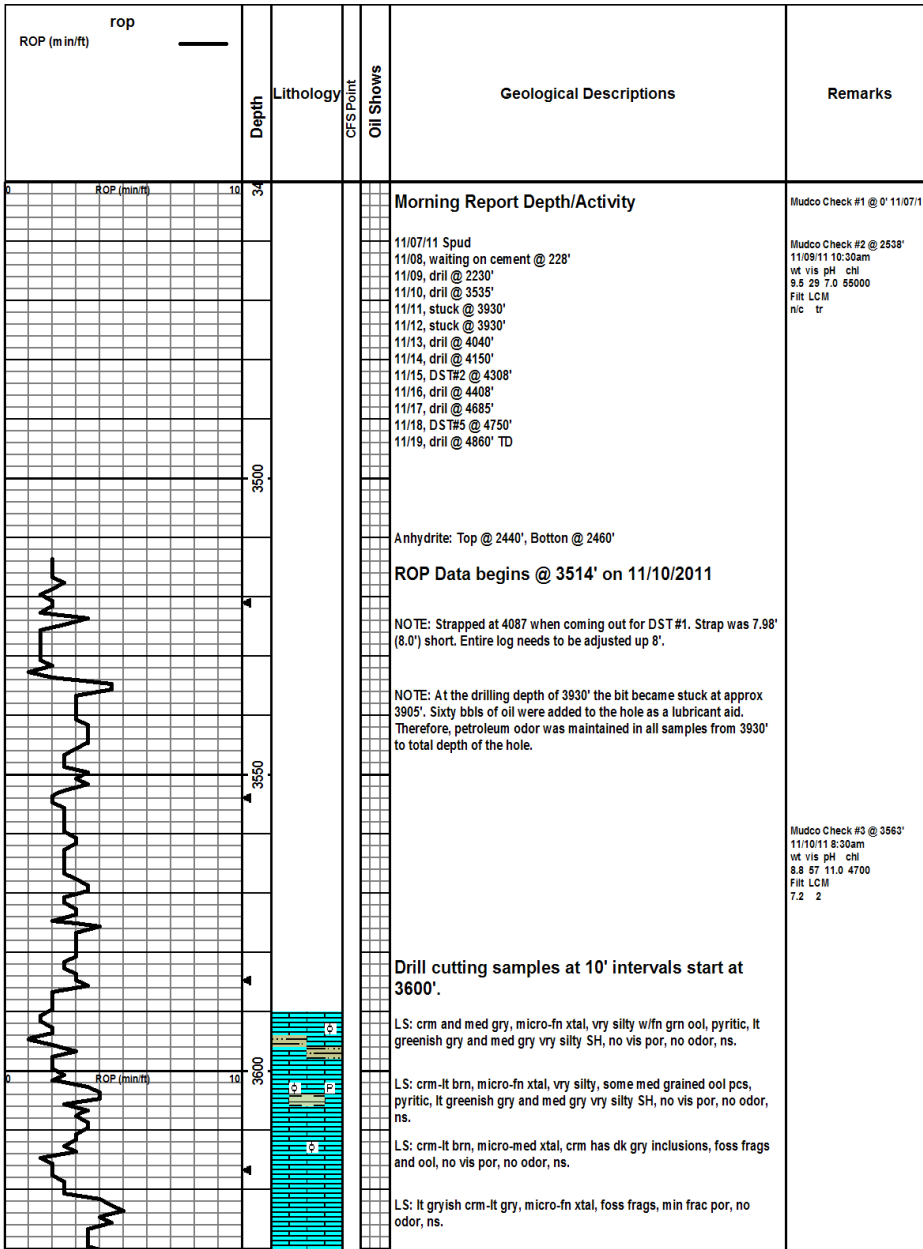
COMMENTS

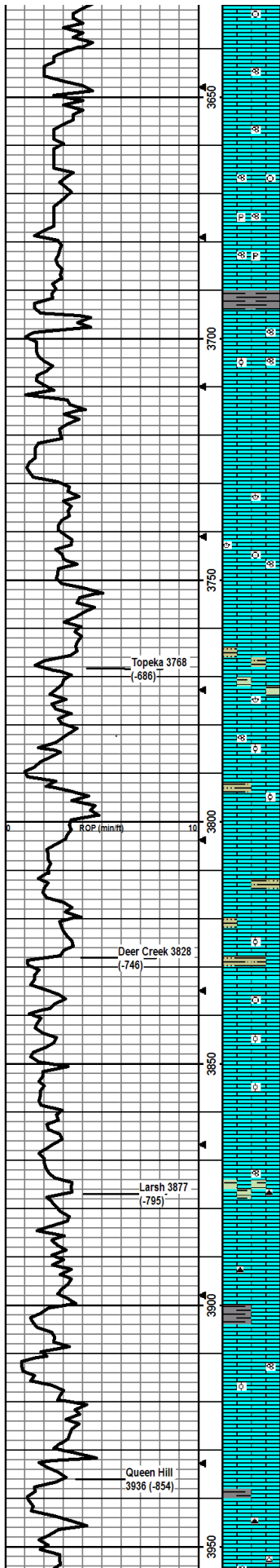
Contractor: Murfin Drilling Company Rig #22
 Pusher: Kelly Wilson
 Surface Casing: 8 5/8" set at 227' (KB) w/165sx
 Production Casing: Production casing was not installed and the hole was plugged and abandoned based on field observations of drill cuttings and DST results.
 Mud by: MudCo
 DST's by: Diamond Testing
 Logs by: Weatherford (DIL, CN-CD, ML, Sonic)
 RTD= 4860'
 LTD= 4853'

FORMATION TOPS

FORMATION	SAMPLE TOPS		LOG TOPS	
	Depth	Datum	Depth	Datum
Queen Hill	3936'	-854	3928'	-846

Heebner Shale	3999'	-917	3998'	-916
Toronto	4029'	-942	4016'	-934
Lansing	4039'	-957	4032'	-950
Muncie Creek Shale	4221'	-1139	4214'	-1132
Stark Shale	4306'	-1224	4299'	-1217
Hushpuckney Shale	4349'	-1267	4339'	-1257
Marmaton	4418'	-1336	4410'	-1328
Upper Fort Scott	4528'	-1446	4520'	-1438
Little Osage Shale	4552'	-1470	4544'	-1462
Excello Shale	4569'	-1487	4561'	-1479
Johnson Zone	4644'	-1562	4636'	-1554
Morrow	4701'	-1619	4693'	-1611
Mississippian	4764'	-1682	4757'	-1675
RTD	4860'	-1778		
LTD			4853'	-1771





LS: crm-lt brn, micro-fn xtal, foss frags/crin, min frac por, no odor, ns.

LS: crm/lt gry/lt brn, micro-med xtal, foss frags/fusin, no vis por, no odor, ns.

LS: crm-lt gry, some wht chalky pcs w/dk gry inclusions, micro-fn xtal, foss frags/fusin, no vis por, no odor, ns.

LS: crm/lt gry/med-dk brn, micro-med xtal, some pyritic pcs, foss frags/fusin/crin, min frac por, no odor, ns.

LS: crm-lt gry, micro-fn xtal, some pyritic pcs, foss frags/fusin, min frac por, no odor, ns.

Same as above w/some dk gry LS pcs.

SH: med greenish gry-dk gry, vry silty, soft-hard and brittle.

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

LS: crm-lt grysh brn, micro-fn xtal, foss frags/min fusin, vry silty/ool, some wht chalky pcs, min in-xtal por, no odor, ns.

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

LS: crm/lt gry brn/dk brn, micro-med xtal, some vry silty pcs, foss frags, no vis por, no odor, ns.

LS: med-dk gry, micro-fn xtal, min foss frags/brac, no vis por, no odor, ns.

LS: crm/lt-dk gry, micro-med xtal, foss frags/brac/fusin/crin, no vis por, no odor, ns.

LS: crm-lt brn/lt-dk gry, micro-fn xtal, some vry silty pcs, foss frags, no vis por, no odor, ns.

LS same as above w/med-dk gry SH, silty, brittle.

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

LS: crm-lt gry brn/lt-dk gry, micro-fn xtal, foss frags/fusin, fn grnd ool/silt, min frac por, no odor, ns.

LS: crm-lt brn/med-dk gry, micro-med xtal, some med gry silty SH, foss frags, fn grnd ool/silty, min frac por, no odor, ns.

LS: lt-dk gry, micro-med xtal, min foss frags, vry silty, no vis por, no odor, ns.

LS: crm/lt gry, micro-fn xtal, vry silty, greenish gry-med gry and red brn soft SH, min in-xtal por, no odor, ns.

LS: med brn, micro-med xtal, foss frags, vry ool/silty, increase in SH content as above, min in-xtal por, no odor, ns.

LS: crm-lt brn/med gry, micro-med xtal, foss frags/crin, vry silty/ool, min in-xtal por, no odor, ns.

LS: crm/lt gry, micro-med xtal, foss frags/min ool, vry silty, min in-xtal por, no odor, ns.

LS: lt brn, micro-fn xtal, vry silty/ool, no vis por, no odor, ns.

LS: lt gry/lt brn, micro-fn xtal, min foss frags, min ppt por, no odor, ns.

LS: lt brn, micro-med xtal, foss frags/fusin, min dk gry-blk chert, abund lt-dk gry/red brn SH, no vis por, no odor, ns.

LS: crm, micro-fn xtal, min foss frags, some 2ndary xtalization, min frac por, no odor, ns.

LS: crm/lt gry, micro-fn xtal, silty, min blk chert, min frac por, no odor, ns.

LS: crm-lt brnsh gry, micro-fn xtal, min foss frags, vry silty, red brn/med to dk gry SH, min frac por, no odor, ns.

LS: crm-lt brn, micro-med xtal, foss frags/fusin/ool, silty, min in-xtal por, no odor, ns.

LS: crm/med-dk gry, micro-fn xtal, min foss frags, vry silty, min in-xtal por, silt odor poss from oil added at stuck point, ns.

LS: crm-lt brn, micro-med xtal, foss frags, vry silty, med-dk gry firm fissile SH, min in-xtal por, silt odor poss from oil added at stuck point, ns.

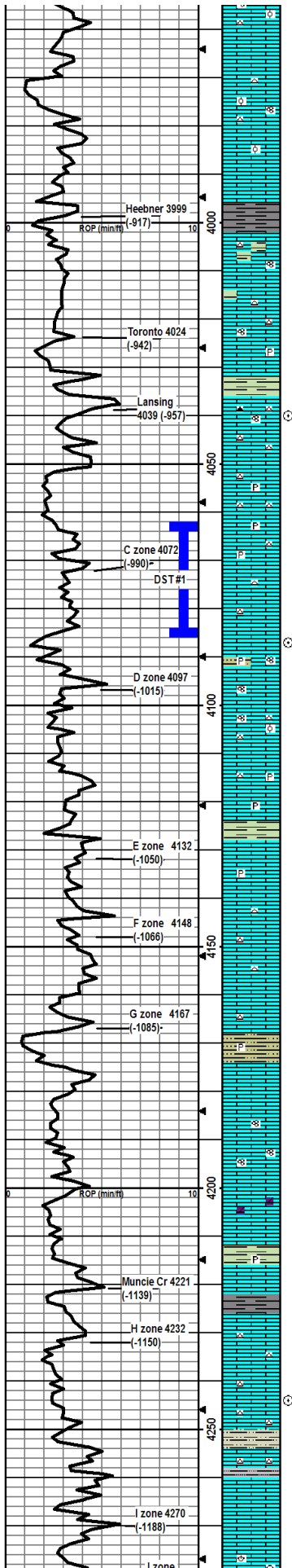
LS: crm/lt-med brn/dk gry, micro-fn xtal, min dk gry chert, foss frags, min frac por, silt odor poss from oil added at stuck poin, ns.

LS: crm, micro-med xtal, wht-lt gry chert, foss frags/fusin/silty-ool,

Mudco Check #4 @ 3830'
 11/11/11 06:50am
 wt vis pH chl
 9.0 56 11.0 4000
 Filr LCM
 6.4 2

Mudco Check #5 @ 3830'
 11/12/11 8:00am
 wt vis pH chl
 8.9 64 10 4200
 Filr LCM
 7.2 2

At TD of 3930', bit stuck at approx 3905' from approx 03:00am Nov 11 thru 12:30am Nov 12. Added 60 bbls of oil as lubricant aid. Used Peak Wireline to log hole for free point. Stuck point was at bit. Used Weatherford to supply jars; process worked for freeing bit.



mostly dense w/some pcs w/good in-xtal por, sum has odor from added oil at stuck point, ns.

Same as above w/some wht chalky pcs.

LS: crm/lt gry, micro-fn xtal, some wht chert, lt-med gry soft SH, some vry silty/ool pcs easily crushed, foss frags/fusin, min frac por, still has odor from added oil at stuck point, ns.

LS: crm-lt brn, micro-fn xtal, foss frags, some vry silty/ool pcs easily crushed, min frac por, odor from added oil at stuck point, ns.

LS same as above w/some dk brn inclusions.

SH: dk gry-blk, carb, brittle, fissile.

LS: crm-lt brn/lt gry, micro-fn xtal, some vry silty, some wht chert, some med gry pyritic soft SH, foss frags/fusin, min frac por, odor from added oil, ns.

LS: crm-lt brn, micro-med xtal, some lt gry chert, lt greenish gry-gry soft SH, foss frags, min frac por, odor from added oil, ns.

LS: wht/crm/lt brn, micro-fn xtal, wht chert, some pyrite, foss frags/min fusin, min frac por, odor from added oil, ns.

SH: red brn/med gry, carb, silty, soft.

LS: crm-med brn/lt gryish brn, micro-med xtal, wht and dk gry chert, foss frags/fusin, min frac/in-xtal por, odor from added oil, ns in 30" and 60" smpls.

LS: crm-lt brn, micro-med xtal, wht chert, red brn/med gry soft SH, foss frags, min frac por, odor from added oil, ns.

LS: crm/lt brn/lt gry, micro-fn xtal, wht/lt gry chert, min pyrite, foss frags, min frac/in-xtal por, odor from added oil, ns.

Same as above.

LS: crm-lt brn, micro-fn xtal, min wht chert, foss frags, residual odor from added oil, 4 larger pcs and 14-15 small pcs w/fo in stop smpl, 14-15 pcs in 30 min, 10-12 sml pcs in 60", good small vug por, crushes easily, gd strming yel flor, gsfo.

LS: crm-lt brn, micro-fn xtal, red brn/lt greenish gry-dk gry pyritic soft silty SH, foss frags/fusin, min frac por, odor from added oil, ns.

LS: crm-lt brn, micro-med xtal, wht chert, foss frags/fusin/ool, min in-xtal/frac por, 1 ool pcs w/fo, gd streaming yel cut, ssfo.

LS: crm-lt gryish brn, micro-fn xtal, min wht chert, min pyritic, foss frags, min frac por, odor from added oil, ns.

LS: crm, micro-fn xtal, stly pyritic, foss frags, min frac por, odor from added oil, ns.

SH: orange-red brn/med gry, some vry silty, soft.

LS: crm, micro-fn xtal, stly pyritic, min foss frags, min frac por, odor from added oil, ns.

LS: crm-lt brn, micro-fn xtal, min wht chert, min foss frags, mostly dense w/one pcs w/gd sm vug por w/fo, gd streaming yel cut, odor from added oil, ssfo.

LS: crm-lt brn, micro-med xtal, min wht/lt gry chert, foss frags, min frac por, odor from added oil, ns.

LS: crm-med brn/med gry, micro-med xtal, wht chert, foss frags/sev course grmd ool pel, min frac por, odor from added oil, ns.

SH: red/orange brn/lt-med gry, soft to hard, some vry silty/sandy, some pyrite.

LS: crm-med brn/lt gry, micro-fn xtal, foss frags, some vry silty pcs, min frac por, odor from added oil, ns.

LS: crm-lt brn, micro-med xtal, foss frags/fusin, silty, min frac/in-xtal por, odor from added oil, ns.

LS: crm-lt brn/gry brn, micro-med xtal, 1 pcs w/coarse grmd qtz, foss frags/fusin, min frac/in-xtal por, odor from added oil, ns.

LS: wht-crm, micro xtal, lt gry dolm, some silty pcs, min foss frags, min frac por, odor from added oil, ns.

SH: orange-red brn/greenish gry/gry, soft, silty pyritic, soft.

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

SH: med-dk gry/blk, some vry silty, carb, firm fissile.

LS: crm-lt brn, micro-fn xtal, wht chert, min foss frags, min frac/in-xtal por, in 30" smpl 2 small pcs fn por w/fo, slit yel cut, odor from added oil, ssfo.

LS: crm/lt gry, micro-fn xtal, wht chert, min foss frags, min frac/in-xtal por, odor from added oil, ns.

SH: orange-red brn/greenish gry/gry, soft, some vry silty, soft.

LS: crm, micro-fn xtal, wht chert, some vry silty, min foss frags, min frac/xtal por, odor from added oil, ns.

SH: orange-red brn/gry, silty, soft.

LS: wht/crm/med gry, micro-fn xtal, dense, no vis por, odor from added oil, ns.

LS: crm-lt brn, micro-med xtal, foss frags/brac/crin, some vry silty, fn frac/in-xtal por, odor from added oil, ns.

CFS @ 4040'
30"/60"

Mudco Check #6 @ 4048'
11/13/11 08:00am
wt vis pH chl
8.9 58 9.5 7800
Filt LCM
10.4 2

DST1) 4062-4087
30/30/30/30
1st) Weak SB no build, no BB.
2nd) No blow built to 1/8" in 30 min, no BB.
IFP 4-12#
ISIP 1051# FFP
13-18# F SIP 1012#
HP 1913-1912#
Recvd: 3' slightly oil specked mud.

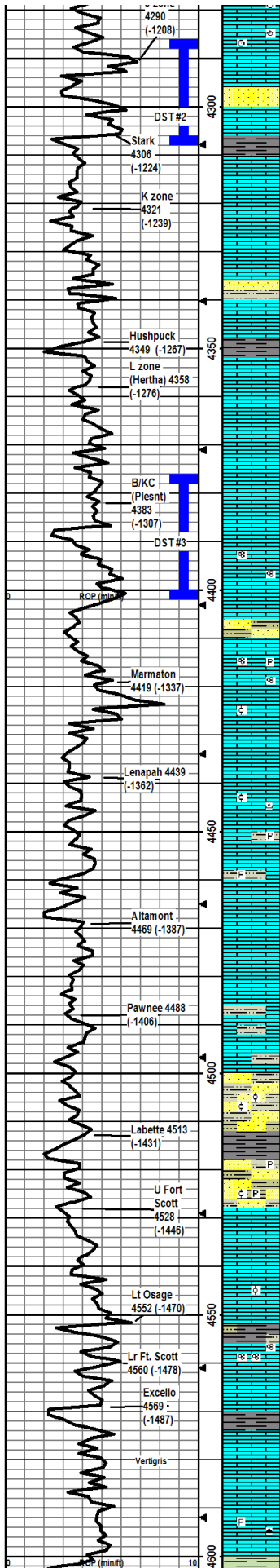
CFS @ 4087'
30"/60"

NOTE: Strapped at 4087' when coming out for DST #1. Strap was 7.98" (8.0") short. Entire log needs to be adjusted up 8'.

Mudco Check #7 @ 4167'
11/14/11 08:30am
wt vis pH chl
9.1 67 9.5 8400
Filt LCM
11.2 2

CFS @ 4244'
30"/60"

DST2) 4286-4308
30/30/30/30
1st) Weak SB built to 1/2" in 30 min, no BB.
2nd) Initial WB built to WSB in 30 min, no BB.
IFP 12-19#
ISIP 1104# FFP
19-18# F SIP 235#
HP 2083-2082#
Recvd: 3' mud.



Same as above.

LS: crm-lt brn, micro-fn xtal, silty, foss frags, frac/in-xtal por, odor from added oil, ns.

SS: lt gry-greenish gry, well sorted, vf-f grnd, sr/wr, cal cement, friable/easily crushed, 1 pce in 30" and 4-5 pcs in 60" smpl w/br-dk brn fo, gd yel cut, gsfo.

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

SH: dk gry/blk, carb, firm, fissile.

LS: wht/crm/lt brn, micro-fn xtal, min foss frags, some silty, dk pcs are dense lt pcs crush easily and have gd fn por, odor from added oil, ns.

LS: crm-med brn, micro-fn xtal, some vry silty/sndy pcs, no vis foss, no vis por, one spot of fo in tray, odor from added oil, ssfo.

LS: crm-lt brn, micro-fn xtal, min foss frags, no vis por, odor from added oil, ns.

SH/SS mix: lt-dk gry vry silty soft SH, vry fn-fn grnd w/rnd crm-lt gry SS, glaucitic, friable, in-xtal por, ns.

LS: crm-lt brn, micro xtal, no vis foss, vry fn ppt por, 5 small pcs w/fo, no flor but yel stream when crushed, ssfo.

SH: dk gry/blk, carb, firm, brittle.

LS: crm-lt brn, micro-fn xtal, min foss frags, vry fn ppt por, 2 pcs w/fo, no flor but yel stream when crushed, ssfo.

LS: crm-lt brn, micro-fn xtal, no vis foss, min frac por, odor from added oil, ns.

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

LS: crm, micro-med xtal, vry silty, foss frags, some in-xtal/frac por, odor from added oil, ns.

LS: crm-lt brn, micro-med xtal, some vry silty, foss frags/fusin, some pcs w/gd in-xtal fn vug por, 3 pcs in 30" smpl and 5 pcs in 60" smple w/fo, slow yel cut, sfo.

LS: crm/gry, micro-fn xtal, some vry silty, min foss frags, min frac por, odor from added oil, ns.

SH/SS mix: SH is orange brn/red brn/gry, silty, soft; SS is mstly qtz, well sorted, sr-wr, friable.

LS: crm-brn, micro-med xtal, foss frags/fusin, some wht chalky pcs, stly pyritic, some dense some mod crushes, min frac por, odor from added oil, ns.

LS: crm-lt brn, micro-med xtal, foss frags, 1 pcs of course grnd ool, min frac por, odor from added oil, ns.

LS: crm-brn, micro-med xtal, min foss frags, min frac por, mostly dense some crushes easily, odor from added oil, ns.

LS: crm/lt brn/lt gry, micro-med xtal, min wht chert, min foss frags/ool, mostly dense w/min frac por, slt odor from added oil, ns.

LS: crm, micro-med xtal, foss frags, red brn/greenish gry/gry soft sily pyritic SH, no vis por, slt odor from added oil, ns.

LS: crm/lt gry, micro-fn xtal, min foss frags, min frac por, slt odor from added oil, ns.

LS: crm, micro-fn xtal, min foss frags, min frac por w/one pce w/fo in fn in-xtal por, slt odor from added oil, no flor, ssfo.

LS: crm, micro-med xtal, min foss frags, vry silty, red brn/gry sily soft-brittle SH, min frac por, slt odor from added oil, ns.

LS/SH same as above, ns.

SH/SS mix: SH is red brn/lt-med gry, soft to brittle, some vry silty; SS is wht/lt-med gry, qtz, easily crushed/friable, sev loose course grn ool, slt odor from added oil, ns.

SH: dk gry/blk, carb, some slt silty, firm, fissile.

SH/SS mix: SH is red brn/gry, slt pyritic, soft to firm, some vry silty; SS is wht/lt-med gry, qtz, firm to easily crushed/friable, sev loose course grn ool, ns.

LS: lt brn/gry, micro xtal, no vis foss, no vis por, slt odor from added oil, ns. (Note: one pcs of gry SS w/sfo, yel streaming cut when crushed, poss from J-zone ???)

LS: lt brn-brn, micro xtal, one pce w/course grnd ool, no vis por, slt odor from added oil, ns.

SH: med-dk gry/blk, some vry silty, soft-firm.
Note: one pcs of greenish gry SS w/sfo, yel streaming cut when crushed.???

LS: lt brn, med xtal, abund fusin foss, no vis por, slt odor, ns.

LS: crm/lt brn, micro xtal, no vis foss, no vis por, slt odor, ns.

No samples were retained in sample box for 4590 sample. Driller thought adding premix mud may have caused problem. Assume Excello shale.

No samples were retained in sample box for 4600 sample. Problems with retaining samples in collection box.

LS: crm, micro-fn xtal, min foss frags, slt pyritic, some dk gry chert, no vis por, no odor, ns. Note: sample tray was mostly filled with red brn/green gry/gry-dkgr SH, odor from added oil.

CFS @ 4285'
30"/60"

CFS @ 4308'
30"/60"

Mudco Check #8 @ 4328'
11/15/11 11:00am
wt vis pH chl
9.3 72 8.5 9600
Filt LCM
12 2

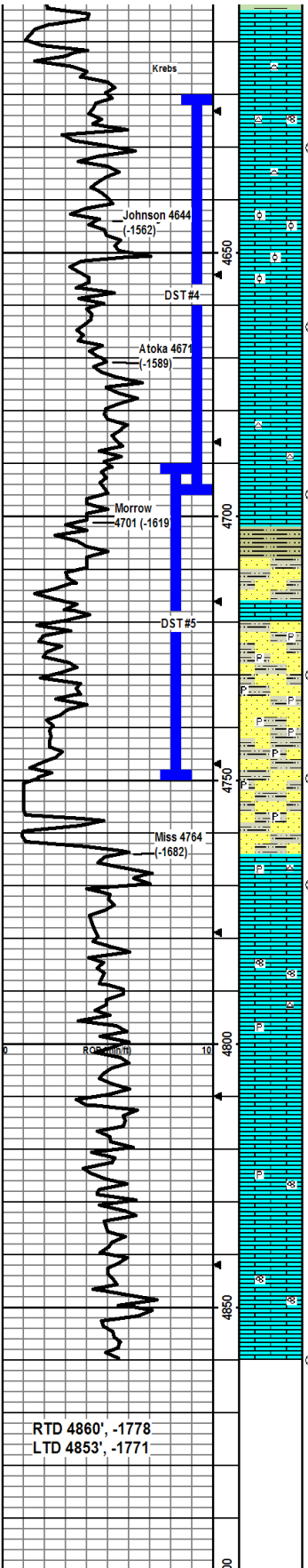
DST3) 4375-4402
15/15/15
1st Weak SB died in 3.5 min, no BB.
2nd No blow, no BB
FFP 9-10# FSP 10# FFP 10-10#
ISIP 11# FSP 10#
HP 2082-2081#
Recvd: 2' mud

CFS @ 4379'
30"/60"

CFS @ 4402'
30"/60"

CFS @ 4460'
30"/60"
Mudco Check #9 @ 4468'
11/16/11 12:30pm
wt vis pH chl
9.3 51 10 8000
Filt LCM
9.6 2

DST4) 4620-4696



some SS. Driller on morning tower came on about 1 hour ago and just relieved the bit pressure some to poss aid with samples.

LS: crm-dk gryish brn, micro-med xtal, min wht chert, foss frags/fusln, no vis por, odor from added oil, ns.

LS: crm/gry/dk brn, micro-med xtal, wht chert, foss frags/fusln, min in-xtal por, odor from added oil, ns.

LS: crm-lt brn, micro-fn xtal, min wht chert, stly pyritic, foss frags, mostly dense w/3 pcs w/fn in-xtal por w/fo, slit odor, no flor but yel strm cut, ssfo.

LS: crm-lt gryish brn, micro-med xtal, min foss frags, sev course grnd loose ool and clusters, min in-xtal por, one pcs w/fn in-xtal por w/fo, odor, yel cut, ssfo.

LS: wht/crm/gryish brn, micro-fn xtal, min foss frags, course grnd ool and clusters, min in-xtal por, one wht small pce in 30" and 6 small pcs in 60" smpl w/fn in-xtal por w/fo, gd odor, yel cut, gsfo.

LS and oil shows same as above, 10 small pcs w/fo.

LS: crm-brn, micro-med xtal, foss frags, min frac por, slit odor, one pce w/fn in-xtal por w/fo, slit odor, yel cut, ssfo.

LS: crm-lt brn some dk gry mottling, micro-fn xtal, min lt brn chert, min foss frags, silty, min frac por, one pce w/fn in-xtal por w/fo, yel cut, slit odor, ssfo.

Same as above, one pce in 30 min w/oil, yel cut when crushed, none in 60" smpl.

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

SH: greenish gry-gry, some vry silty, mostly soft to firm and fissile, mustard yel hard LS pcs.

SH/SS mix: SH is lt gry-gry/brn, vry silty, soft-firm. SS is lt gry-green gry, predom qtz, ws, wr, sm glac, friable, ns.

LS: crm, micro-fn xtal, min foss frags, silty, one pce with lattics structure throughout chip, min in-xtal por, ns.

SH/SS mix: SH is lt-dk gry w/some green/maroon mottling, soft-firm and fissile, slit pyritic, vry silty; SS is yel brn/lt-med gry, qtz, ws, wr, friable, in 30" smpl one yel brn pce w/fo, good yel cut, ssfo.

SH/SS mix: SH is lt greenish gry-dk gry/dk brn, vry silty, soft-firm and fissile, pyritic; SS is wht-gry, qtz, ws, wr, friable, ns.

Same as above w/more SH content.

SH/SS mix: SH is lt greenish gry/lt-dk gry/dk red brn, vry silty, slit pyritic, soft-firm and fissile, SS is greenish wht/gry/lt brn, qtz, ws, wr, some hard, some friable, ns.

LS: crm/lt brn-brn, micro-med xtal, vry silty/sandy, no vis por, ns.

SH/SS mix as above.

LS: brn-dk gryish brn, micro xtal, some wht/lt gry chert, stly pyritic, no vis por, hard, ns.

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

LS: lt gryish brn, micro-fn xtal, foss frags/fusln, no vis por, ns.

LS: lt brn-gryish brn, micro xtal, min wht chert, stly pyritic, no vis foss, no vis por, ns.

LS: crm/lt brn, micro xtal, no vis foss, min frac/in-xtal por, ns.

LS: brn/gry brn, micro-fn xtal, some silty, no vis foss, silty is friable non-silty is vry hard, min frac por, ns.

LS: crm/lt brnsh gry, micro-med xtal, stly pyritic, foss frags/fusln, min frac/in-xtal por, ns.

LS: crm/brn, micro-med xtal, some silty, foss frags, no vis por, ns.

LS: crm/lt brn/dk gryish brn, micro-med xtal, some silty, some foss frags/fusln, min frac/in-xtal por, ns.

LS 147 4620-4630
30/30/30/30
1st) 1 1/4" blow built to 1 1/2" in 30 min, no BB.
2nd) No blow, no BB
IFP 13-15#
ISIP 50# FFP 14-16#
F SIP 37#
HP 2260-2260#
Recvd: 3' mud

CFS @ 4630'
30"/60" in order to correct mud issue with bad samples. Driller added pre-mix to mud and relieved some bit pressure.

CFS @ 4664'
30"/60"

Mudco Check #10 @ 4695'
11/17/11 11:50am
wt vis pH chl
9.3 52 10 7200
Filt LCM
8.4 3

CFS @ 4696'
30"/60"

DST5) 4690-4750
45/45/60/90
1st) 1 1/4" blow built to 4.25" in 45 min, no BB.
2nd) WSB built to 4.25" in 60 min, no BB.
IFP 19-71# FFP
ISIP 1086# F SIP 1123#
22-128#
HP 2245-2245#
Recvd: 276' oil specked watery mud.

CFS @ 4730'
30"/60"

Mudco Check #11 @ 4750'
11/18/11 9:40am
wt vis pH chl
9.5 68 8.5 8000
Filt LCM
12.8 3

CFS @ 4750'
30"/60"

CFS @ 4770'
30"/60"

Mudco Check #12 @ 4860'
11/19/11 9:10am
wt vis pH chl
9.5 81 10.0 9500
Filt LCM
10.4 2

Cir 1.5 hrs @ 4860' to clean hole.

RTD 4860', -1778
LTD 4853', -1771



DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: _____

TIME ON: _____
TIME OFF: _____

Company _____ Lease & Well No. _____
Contractor _____ Charge to _____
Elevation _____ Formation _____ Effective Pay _____ Ft. Ticket No. _____
Date _____ Sec. _____ Twp. _____ S Range _____ W County _____ State **KANSAS**
Test Approved By _____ Diamond Representative _____

Formation Test No. _____ Interval Tested from _____ ft. to _____ ft. Total Depth _____ ft.
Packer Depth _____ ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
Packer Depth _____ ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
Depth of Selective Zone Set _____

Top Recorder Depth (Inside) _____ ft. Recorder Number _____ Cap. _____ P.S.I.
Bottom Recorder Depth (Outside) _____ ft. Recorder Number _____ Cap. _____ P.S.I.
Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type _____ Viscosity _____ Drill Collar Length _____ ft. I.D. 2 1/4 in.
Weight _____ Water Loss _____ cc. Weight Pipe Length _____ ft. I.D. 2 7/8 in.
Chlorides _____ P.P.M. Drill Pipe Length _____ ft. I.D. 3 1/2 in.
Jars: Make STERLING Serial Number _____ Test Tool Length _____ ft. Tool Size 3 1/2-IF in.
Did Well Flow? _____ Reversed Out _____ Anchor Length _____ ft. Size 4 1/2-FH in.
Main Hole Size 7 7/8 Tool Joint Size 4 1/2 in. Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: _____
2nd Open: _____

Recovered _____ ft. of _____	
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	Price Job
Recovered _____ ft. of _____	Other Charges
Remarks: _____	Insurance
	Total

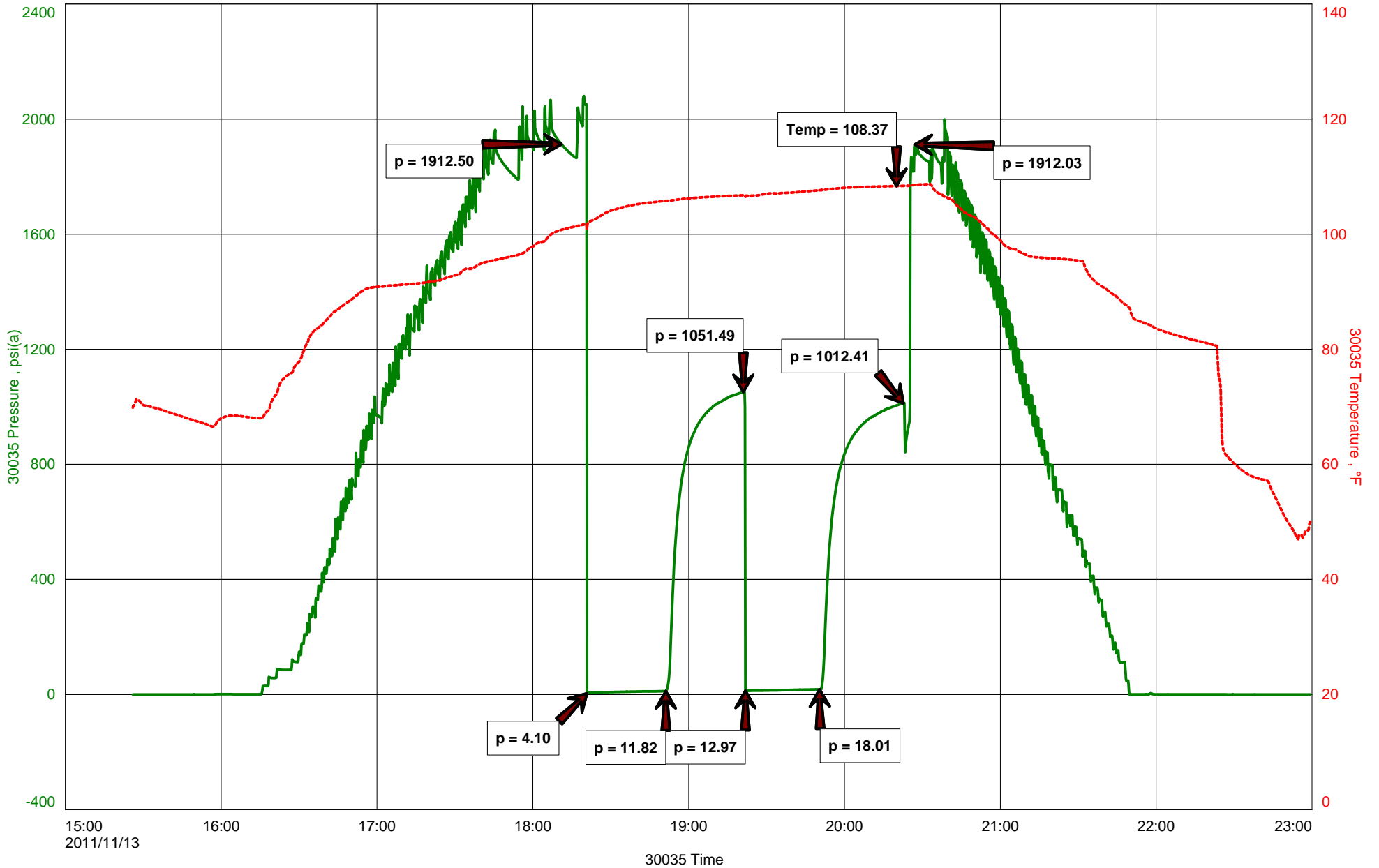
Time Set Packer(s) _____ A.M. P.M. Time Started Off Bottom _____ A.M. P.M. Maximum Temperature _____
Initial Hydrostatic Pressure..... (A) _____ P.S.I.
Initial Flow Period..... Minutes _____ (B) _____ P.S.I. to (C) _____ P.S.I.
Initial Closed In Period..... Minutes _____ (D) _____ P.S.I.
Final Flow Period..... Minutes _____ (E) _____ P.S.I. to (F) _____ P.S.I.
Final Closed In Period..... Minutes _____ (G) _____ P.S.I.
Final Hydrostatic Pressure..... (H) _____ P.S.I.

Diamond Testing shall not be liable for damages of any kind to the property or personnel of the one for whom a test is made or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statement or opinion concerning the result of any test. Tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.

Grand Mesa Operating Co.
DST# 1 4062-4087' Lansing 'C'
Start Test Date: 2011/11/13
Final Test Date: 2011/11/13

C-E # 1-8
Formation: DST# 1 4062-4087' Lansing 'C'
Pool: Wildcat
Job Number: S0053

C-E # 1-8



Diamond Testing

General information Report

General Information

Company Name Grand Mesa Operating Co.

Contact	Ron Sinclair	Job Number	S0053
Well Name	C-E # 1-8	Representative	Jacob McCallie
Unique Well ID	DST# 1 4062-4087' Lansing 'C'	Well Operator	Grand Mesa Operating Co.
Surface Location	SEC 8-16S-33W Scott County	Report Date	2011/11/13
Well License Number		Prepared By	Jacob McCallie
Field	Wildcat		
Well Type	Vertical		

Test Type	Drill Stem Test		
Formation	DST# 1 4062-4087' Lansing 'C'		
Well Fluid Type	01 Oil	Start Test Time	16:26:00
		Final Test Time	22:59:00
Start Test Date	2011/11/13		
Final Test Date	2011/11/13		
Gauge Name	30035		
Gauge Serial Number			

Test Results

RECOVERED:
3' Slightly Oil Specked Mud 100% MUD
3' TOTAL FLUID

TOOL SAMPLE:
100% DM



DIAMOND TESTING
 P.O. Box 157
HOISINGTON, KANSAS 67544
 (800) 542-7313
DRILL-STEM TEST TICKET
 FILE: _____

TIME ON: _____
 TIME OFF: _____

Company _____ Lease & Well No. _____
 Contractor _____ Charge to _____
 Elevation _____ Formation _____ Effective Pay _____ Ft. Ticket No. _____
 Date _____ Sec. _____ Twp. _____ S Range _____ W County _____ State **KANSAS**
 Test Approved By _____ Diamond Representative _____

Formation Test No. _____ Interval Tested from _____ ft. to _____ ft. Total Depth _____ ft.
 Packer Depth _____ ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
 Packer Depth _____ ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
 Depth of Selective Zone Set _____

Top Recorder Depth (Inside) _____ ft. Recorder Number _____ Cap. _____ P.S.I.
 Bottom Recorder Depth (Outside) _____ ft. Recorder Number _____ Cap. _____ P.S.I.
 Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type _____ Viscosity _____ Drill Collar Length _____ ft. I.D. 2 1/4 in.
 Weight _____ Water Loss _____ cc. Weight Pipe Length _____ ft. I.D. 2 7/8 in.
 Chlorides _____ P.P.M. Drill Pipe Length _____ ft. I.D. 3 1/2 in.
 Jars: Make STERLING Serial Number _____ Test Tool Length _____ ft. Tool Size 3 1/2-IF in.
 Did Well Flow? _____ Reversed Out _____ Anchor Length _____ ft. Size 4 1/2-FH in.
 Main Hole Size 7 7/8 Tool Joint Size 4 1/2 in. Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: _____
 2nd Open: _____

Recovered _____ ft. of _____	Price Job Other Charges Insurance Total
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	
Remarks: _____	

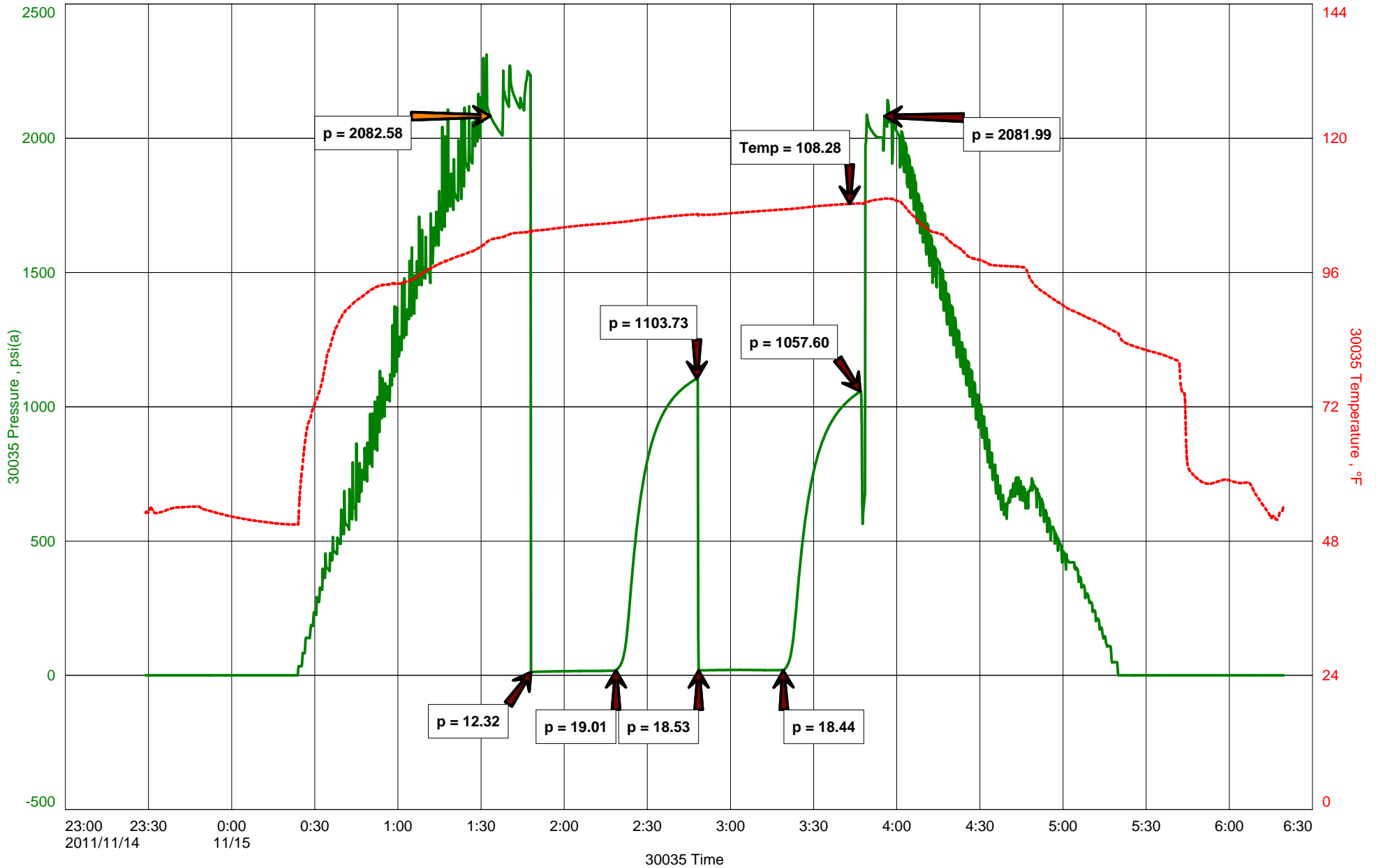
Time Set Packer(s) _____ A.M. P.M. Time Started Off Bottom _____ A.M. P.M. Maximum Temperature _____
 Initial Hydrostatic Pressure..... (A) _____ P.S.I.
 Initial Flow Period..... Minutes _____ (B) _____ P.S.I. to (C) _____ P.S.I.
 Initial Closed In Period..... Minutes _____ (D) _____ P.S.I.
 Final Flow Period..... Minutes _____ (E) _____ P.S.I. to (F) _____ P.S.I.
 Final Closed In Period..... Minutes _____ (G) _____ P.S.I.
 Final Hydrostatic Pressure..... (H) _____ P.S.I.

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Grand Mesa Operating Co.
DST # 2 4286-4308' Lansing 'J'
Start Test Date: 2011/11/14
Final Test Date: 2011/11/15

C-E # 1-8
Formation: DST # 2 4286-4308' Lansing 'J'
Pool: Wildcat
Job Number: S0054

C-E # 1-8



Diamond Testing

General information Report

General Information

Company Name Grand Mesa Operating Co.

Contact	Ron Sinclair	Job Number	S0054
Well Name	C-E # 1-8	Representative	Jacob McCallie
Unique Well ID	DST # 2 4286-4308' Lansing 'J'	Well Operator	Grand Mesa Operating Co.
Surface Location	SEC 8-16S-33W Scott County	Report Date	2011/11/15
Well License Number		Prepared By	Jacob McCallie
Field	Wildcat		
Well Type	Vertical		

Test Type	Drill Stem Test		
Formation	DST # 2 4286-4308' Lansing 'J'		
Well Fluid Type	01 Oil	Start Test Time	23:29:00
		Final Test Time	06:20:00
Start Test Date	2011/11/14		
Final Test Date	2011/11/15		
Gauge Name	30035		
Gauge Serial Number			

Test Results

RECOVERED:
3' DM 100% DM
3' TOTAL FLUID

TOOL SAMPLE:
100% DM



DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: _____

TIME ON: _____
TIME OFF: _____

Company _____ Lease & Well No. _____
Contractor _____ Charge to _____
Elevation _____ Formation _____ Effective Pay _____ Ft. Ticket No. _____
Date _____ Sec. _____ Twp. _____ S Range _____ W County _____ State **KANSAS**
Test Approved By _____ Diamond Representative _____

Formation Test No. _____ Interval Tested from _____ ft. to _____ ft. Total Depth _____ ft.
Packer Depth _____ ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
Packer Depth _____ ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
Depth of Selective Zone Set _____

Top Recorder Depth (Inside) _____ ft. Recorder Number _____ Cap. _____ P.S.I.
Bottom Recorder Depth (Outside) _____ ft. Recorder Number _____ Cap. _____ P.S.I.
Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type _____ Viscosity _____ Drill Collar Length _____ ft. I.D. 2 1/4 in.
Weight _____ Water Loss _____ cc. Weight Pipe Length _____ ft. I.D. 2 7/8 in.
Chlorides _____ P.P.M. Drill Pipe Length _____ ft. I.D. 3 1/2 in.
Jars: Make STERLING Serial Number _____ Test Tool Length _____ ft. Tool Size 3 1/2-IF in.
Did Well Flow? _____ Reversed Out _____ Anchor Length _____ ft. Size 4 1/2-FH in.
Main Hole Size 7 7/8 Tool Joint Size 4 1/2 in. Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: _____
2nd Open: _____

Recovered _____ ft. of _____	
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	Price Job
Recovered _____ ft. of _____	Other Charges
Remarks: _____	Insurance
	Total

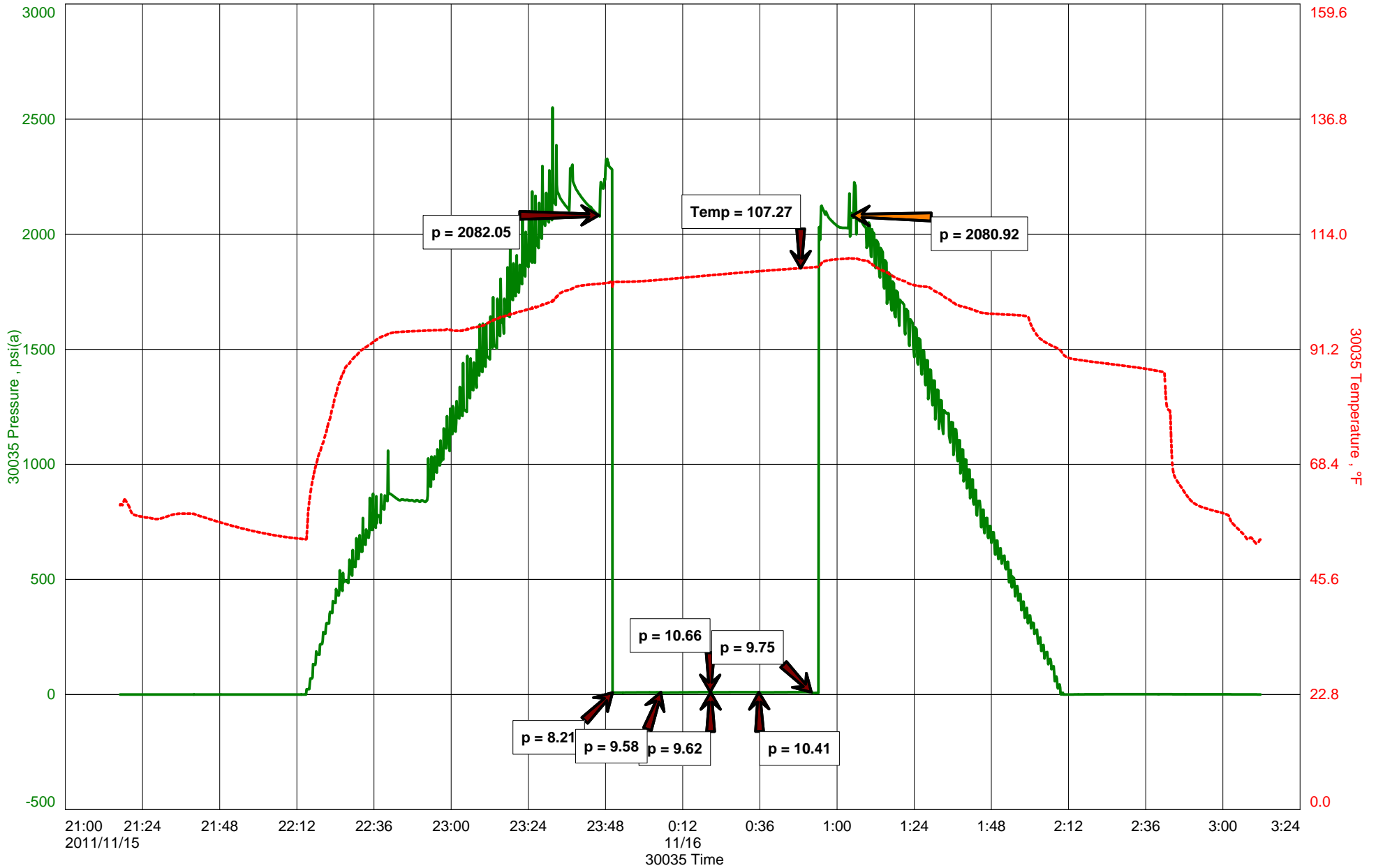
Time Set Packer(s) _____ A.M. P.M. Time Started Off Bottom _____ A.M. P.M. Maximum Temperature _____
Initial Hydrostatic Pressure..... (A) _____ P.S.I.
Initial Flow Period..... Minutes _____ (B) _____ P.S.I. to (C) _____ P.S.I.
Initial Closed In Period..... Minutes _____ (D) _____ P.S.I.
Final Flow Period..... Minutes _____ (E) _____ P.S.I. to (F) _____ P.S.I.
Final Closed In Period..... Minutes _____ (G) _____ P.S.I.
Final Hydrostatic Pressure..... (H) _____ P.S.I.

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Grand Mesa Operating Co
DST # 3 4375-4402' Pleasanton
Start Test Date: 2011/11/15
Final Test Date: 2011/11/16

C-E # 1-8
Formation: DST # 3 4375-4402' Pleasanton
Pool: Wildcat
Job Number: S0055

C-E # 1-8



Diamond Testing

General information Report

General Information

Company Name Grand Mesa Operating Co

Contact	Ron Sinclair	Job Number	S0055
Well Name	C-E # 1-8	Representative	Jacob McCallie
Unique Well ID	DST # 3 4375-4402' Pleasanton	Well Operator	Grand Mesa Operating Co
Surface Location	SEC 8-16S-33W Scott County	Report Date	2011/11/16
Well License Number		Prepared By	Jacob McCallie
Field	Wildcat		
Well Type	Vertical		

Test Type	Drill Stem Test	Start Test Time	21:17:00
Formation	DST # 3 4375-4402' Pleasanton	Final Test Time	03:13:00
Well Fluid Type	01 Oil		
Start Test Date	2011/11/15		
Final Test Date	2011/11/16		
Gauge Name	30035		
Gauge Serial Number			

Test Results

RECOVERED:
2' DM 100% DM
2' TOTAL FLUID

TOOL SAMPLE:
100% DM



DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: _____

TIME ON: _____
TIME OFF: _____

Company _____ Lease & Well No. _____
Contractor _____ Charge to _____
Elevation _____ Formation _____ Effective Pay _____ Ft. Ticket No. _____
Date _____ Sec. _____ Twp. _____ S Range _____ W County _____ State **KANSAS**
Test Approved By _____ Diamond Representative _____

Formation Test No. _____ Interval Tested from _____ ft. to _____ ft. Total Depth _____ ft.
Packer Depth _____ ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
Packer Depth _____ ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
Depth of Selective Zone Set _____

Top Recorder Depth (Inside) _____ ft. Recorder Number _____ Cap. _____ P.S.I.
Bottom Recorder Depth (Outside) _____ ft. Recorder Number _____ Cap. _____ P.S.I.
Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type _____ Viscosity _____ Drill Collar Length _____ ft. I.D. 2 1/4 in.
Weight _____ Water Loss _____ cc. Weight Pipe Length _____ ft. I.D. 2 7/8 in.
Chlorides _____ P.P.M. Drill Pipe Length _____ ft. I.D. 3 1/2 in.
Jars: Make STERLING Serial Number _____ Test Tool Length _____ ft. Tool Size 3 1/2-IF in.
Did Well Flow? _____ Reversed Out _____ Anchor Length _____ ft. Size 4 1/2-FH in.
Main Hole Size 7 7/8 Tool Joint Size 4 1/2 in. Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

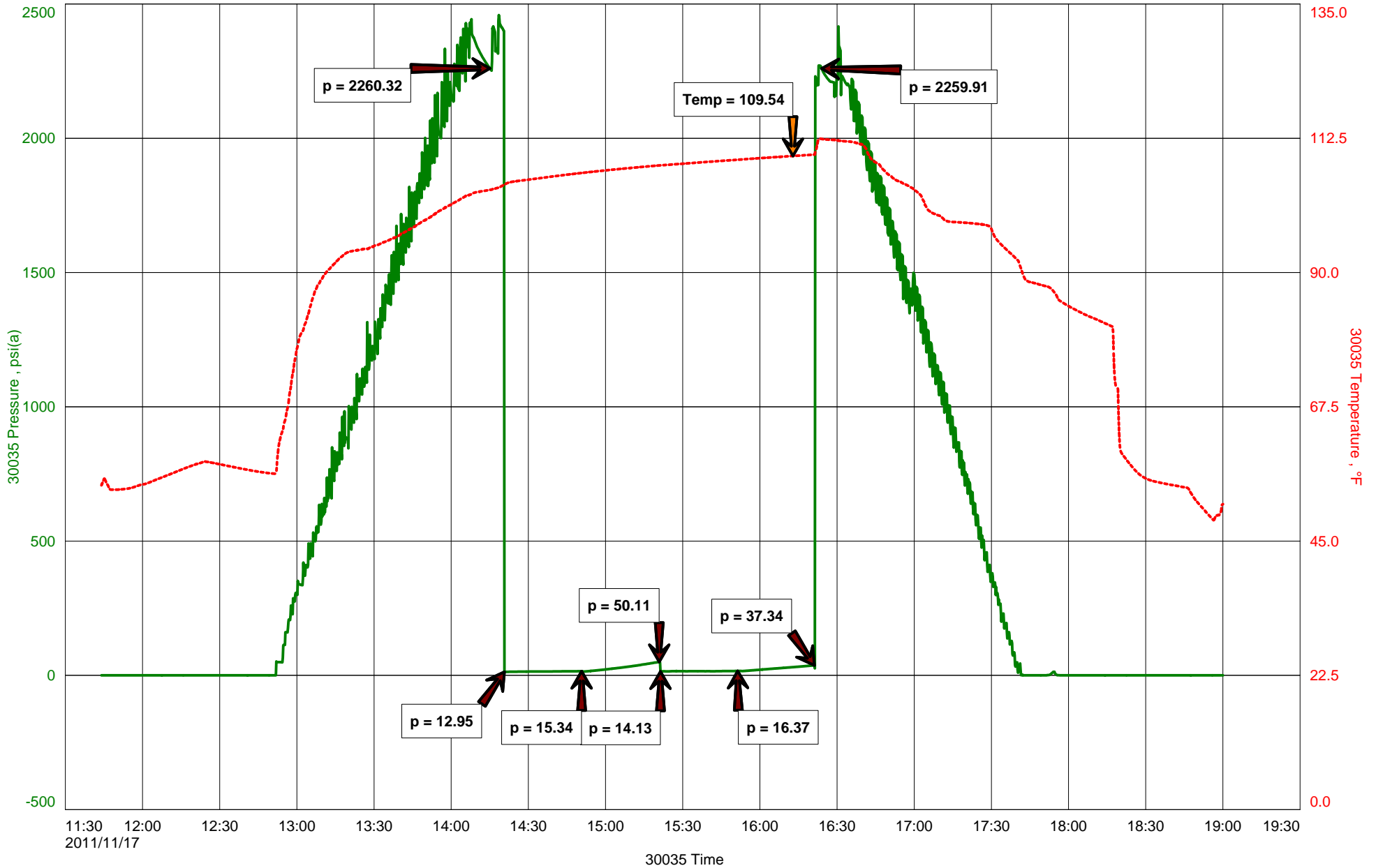
Blow: 1st Open: _____
2nd Open: _____

Recovered _____ ft. of _____	Price Job Other Charges Insurance Total
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	
Remarks: _____	

Time Set Packer(s) _____ A.M. P.M. Time Started Off Bottom _____ A.M. P.M. Maximum Temperature _____
Initial Hydrostatic Pressure..... (A) _____ P.S.I.
Initial Flow Period..... Minutes _____ (B) _____ P.S.I. to (C) _____ P.S.I.
Initial Closed In Period..... Minutes _____ (D) _____ P.S.I.
Final Flow Period..... Minutes _____ (E) _____ P.S.I. to (F) _____ P.S.I.
Final Closed In Period..... Minutes _____ (G) _____ P.S.I.
Final Hydrostatic Pressure..... (H) _____ P.S.I.

Diamond Testing shall not be liable for damages of any kind to the property or personnel of the one for whom a test is made or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statement or opinion concerning the result of any test. Tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.

C-E # 1-8



Diamond Testing

General information Report

General Information

Company Name Grand Mesa Operating Co.

Contact	Ron Sinclair	Job Number	S0056
Well Name	C-E # 1-8	Representative	Jacob McCallie
Unique Well ID	DST # 4 4620-4696' Johnson , Atoka	Well Operator	Grand Mesa Operating Co.
Surface Location	SEC 8-16S-33W Scott County	Report Date	2011/11/17
Well License Number		Prepared By	Jacob McCallie
Field	Wildcat		
Well Type	Vertical		

Test Type	Drill Stem Test		
Formation	DST # 4 4620-4696' Johnson , Atoka		
Well Fluid Type	01 Oil	Start Test Time	11:44:00
		Final Test Time	19:00:00
Start Test Date	2011/11/17		
Final Test Date	2011/11/17		
Gauge Name	30035		
Gauge Serial Number			

Test Results

RECOVERED:
3' DM 100% DM
3' TOTAL FLUID

TOOL SAMPLE:
100% DM



DIAMOND TESTING
 P.O. Box 157
HOISINGTON, KANSAS 67544
 (800) 542-7313
DRILL-STEM TEST TICKET
 FILE: _____

TIME ON: _____
 TIME OFF: _____

Company _____ Lease & Well No. _____
 Contractor _____ Charge to _____
 Elevation _____ Formation _____ Effective Pay _____ Ft. Ticket No. _____
 Date _____ Sec. _____ Twp. _____ S Range _____ W County _____ State **KANSAS**
 Test Approved By _____ Diamond Representative _____

Formation Test No. _____ Interval Tested from _____ ft. to _____ ft. Total Depth _____ ft.
 Packer Depth _____ ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
 Packer Depth _____ ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
 Depth of Selective Zone Set _____

Top Recorder Depth (Inside) _____ ft. Recorder Number _____ Cap. _____ P.S.I.
 Bottom Recorder Depth (Outside) _____ ft. Recorder Number _____ Cap. _____ P.S.I.
 Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type _____ Viscosity _____ Drill Collar Length _____ ft. I.D. 2 1/4 in.
 Weight _____ Water Loss _____ cc. Weight Pipe Length _____ ft. I.D. 2 7/8 in.
 Chlorides _____ P.P.M. Drill Pipe Length _____ ft. I.D. 3 1/2 in.
 Jars: Make STERLING Serial Number _____ Test Tool Length _____ ft. Tool Size 3 1/2-IF in.
 Did Well Flow? _____ Reversed Out _____ Anchor Length _____ ft. Size 4 1/2-FH in.
 Main Hole Size 7 7/8 Tool Joint Size 4 1/2 in. Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: _____
 2nd Open: _____

Recovered _____ ft. of _____	
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	Price Job
Recovered _____ ft. of _____	Other Charges
Remarks: _____	Insurance
	Total

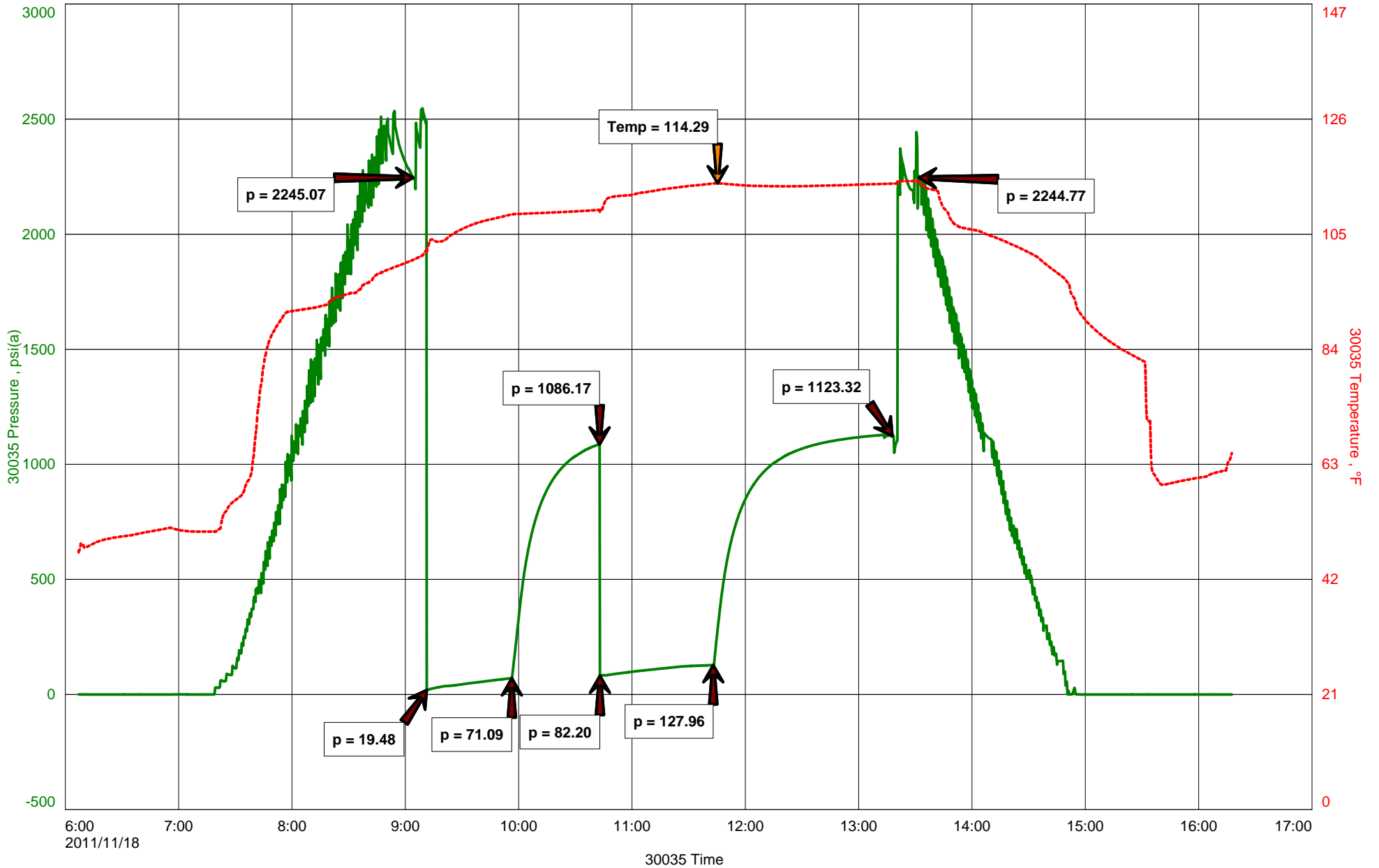
Time Set Packer(s) _____ A.M. P.M. Time Started Off Bottom _____ A.M. P.M. Maximum Temperature _____
 Initial Hydrostatic Pressure..... (A) _____ P.S.I.
 Initial Flow Period..... Minutes _____ (B) _____ P.S.I. to (C) _____ P.S.I.
 Initial Closed In Period..... Minutes _____ (D) _____ P.S.I.
 Final Flow Period..... Minutes _____ (E) _____ P.S.I. to (F) _____ P.S.I.
 Final Closed In Period..... Minutes _____ (G) _____ P.S.I.
 Final Hydrostatic Pressure..... (H) _____ P.S.I.

Diamond Testing shall not be liable for damages of any kind to the property or personnel of the one for whom a test is made or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statement or opinion concerning the result of any test. Tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.

Grand Mesa Operating Co.
DST # 5 4690-4750' Marrow
Start Test Date: 2011/11/18
Final Test Date: 2011/11/18

C-E #1-8
Formation: DST # 5 4690-4750' Marrow
Pool: Wildcat
Job Number: S0057

C-E #1-8



Diamond Testing

General information Report

General Information

Company Name Grand Mesa Operating Co.

Contact	Ron Sinclair	Job Number	S0057
Well Name	C-E #1-8	Representative	Jacob McCallie
Unique Well ID	DST # 5 4690-4750' Marrow	Well Operator	Grand Mesa Operating Co.
Surface Location	SEC 8-16S-33W Scott County	Report Date	2011/11/18
Well License Number		Prepared By	Jacob McCallie
Field	Wildcat		
Well Type	Vertical		

Test Type	Drill Stem Test	Start Test Time	06:07:00
Formation	DST # 5 4690-4750' Marrow	Final Test Time	16:18:00
Well Fluid Type	01 Oil		
Start Test Date	2011/11/18		
Final Test Date	2011/11/18		
Gauge Name	30035		
Gauge Serial Number			

Test Results

RECOVERED:
276' Oil Specked Watery Mud 10% WTR 90% MUD
276' TOTAL FLUID

Chlorides: 24,000 PPM
PH: 7
RW: .32 @ 65 degrees F

TOOL SAMPLE:
32% WTR 68% MUD

ALLIED CEMENTING CO., LLC. 039872

Federal Tax I.D.# 20-5975804

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

SERVICE POINT:
CAXLEY

DATE <u>11-7-11</u>	SEC. <u>8</u>	TWP. <u>165</u>	RANGE <u>33W</u>	CALLED OUT	ON LOCATION <u>9:00 AM</u>	JOB START <u>11:00 AM</u>	JOB FINISH <u>11:30 AM</u>
LEASE <u>C-E</u>	WELL # <u>1-8</u>	LOCATION <u>PENCE 4E-1N-3/4E</u>				COUNTY <u>SLOTT</u>	STATE <u>KS</u>
OLD OR <u>NEW</u> (Circle one)							

CONTRACTOR MURFIN DRILL RIG # 22

TYPE OF JOB SURFACE

HOLE SIZE <u>12 1/4"</u>	T.D. <u>228'</u>
CASING SIZE <u>8 5/8"</u>	DEPTH <u>228'</u>
TUBING SIZE	DEPTH
DRILL PIPE	DEPTH
TOOL	DEPTH
PRES. MAX	MINIMUM
MEAS. LINE	SHOE JOINT
CEMENT LEFT IN CSG. <u>15'</u>	
PERFS.	
DISPLACEMENT <u>13 1/2 BBIS</u>	

OWNER SAME

CEMENT
AMOUNT ORDERED

165 SKS COM 3% ACC 2% GEL

COMMON	<u>165 SKS</u>	@	<u>16 25</u>	<u>2681 25</u>
POZMIX		@		
GEL	<u>3 SKS</u>	@	<u>21 25</u>	<u>63 75</u>
CHLORIDE	<u>6 SKS</u>	@	<u>58 20</u>	<u>349 20</u>
ASC		@		
		@		
		@		
		@		
		@		
		@		
		@		
		@		
		@		
HANDLING	<u>174 SKS</u>	@	<u>2 25</u>	<u>391 50</u>
MILEAGE	<u>116 PER SK / MILE</u>			<u>861 30</u>
TOTAL				<u>4347</u>

EQUIPMENT

PUMP TRUCK # <u>422</u>	CEMENTER <u>TERRY</u>	HELPER <u>WAYNE</u>
BULK TRUCK # <u>347</u>	DRIVER <u>CHRIS</u>	
BULK TRUCK #	DRIVER	

REMARKS:

MIX 165 SKS COM 3% ACC 2% GEL.
DESALTE 13 1/2 BBIS FRESH WATER.
MIXING PRESSURE 150 PSI. FINAL 12 FT
PRESSURE 300 PSI.
CEMENT CIRC CIRC.

SERVICE

DEPTH OF JOB	<u>228'</u>
PUMP TRUCK CHARGE	<u>1125</u>
EXTRA FOOTAGE	@
MILEAGE	<u>45X2</u> @ <u>7 00</u> = <u>630</u>
MANIFOLD	@
<u>LIGHT VEHICLE 45X2</u>	@ <u>4 00</u> = <u>360</u>
TOTAL <u>2115</u>	

CHARGE TO: GRAND MESA OPERATING, CO.

STREET _____

CITY _____ STATE _____ ZIP _____

PLUG & FLOAT EQUIPMENT

	@	
	@	
	@	
	@	
	@	
	@	
TOTAL		

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

PRINTED NAME KELLY WILSON

SIGNATURE Kelly Wilson

SALES TAX (If Any) _____

TOTAL CHARGES _____

DISCOUNT _____ IF PAID IN 30 DAYS

ALLIED CEMENTING CO., LLC. 035285

Federal Tax I.D.# 20-5975804

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

SERVICE POINT:

Oakley

DATE <u>11-19-11</u>	SEC. <u>8</u>	TWP. <u>16s</u>	RANGE <u>33W</u>	CALLED OUT	ON LOCATION	JOB START <u>2:20 Am</u>	JOB FINISH <u>3:30 Am</u>
LEASE <u>C-E</u>	WELL# <u>1-8</u>	LOCATION <u>perce 4E IN 34E</u>			COUNTY <u>SCOTT</u>	STATE <u>Ks</u>	
OLD OR <input checked="" type="radio"/> NEW (Circle one)							

CONTRACTOR Murfin 22
 TYPE OF JOB PTA
 HOLE SIZE 2 7/8 T.D. 4293'
 CASING SIZE _____ DEPTH _____
 TUBING SIZE _____ DEPTH _____
 DRILL PIPE 4 1/2 DEPTH 2460'
 TOOL _____ DEPTH _____
 PRES. MAX _____ MINIMUM _____
 MEAS. LINE _____ SHOE JOINT _____
 CEMENT LEFT IN CSG. _____
 PERFS. _____
 DISPLACEMENT _____

OWNER same
 CEMENT AMOUNT ORDERED 300 sks 4 1/2" 4" Plogel
14" Plog Seal

COMMON	<u>180 sks</u>	@	<u>16.25</u>	<u>2925.00</u>
POZMIX	<u>120 sks</u>	@	<u>8.50</u>	<u>1020.00</u>
GEL	<u>10 sks</u>	@	<u>21.25</u>	<u>212.50</u>
CHLORIDE		@		
ASC		@		
		@		
	<u>Plog seal 25"</u>	@	<u>2.70</u>	<u>202.50</u>
		@		
		@		
		@		
		@		
		@		
HANDLING	<u>313 sks</u>	@	<u>2.25</u>	<u>204.25</u>
MILBAGE	<u>11 1/2 sk/mile</u>			<u>1549.35</u>
				TOTAL <u>6613.60</u>

EQUIPMENT

PUMP TRUCK CEMENTER Andrew
 # 423-281 HELPER Jerry
 BULK TRUCK
 # 396 DRIVER Ethan
 BULK TRUCK
 # _____ DRIVER _____

REMARKS:

- 50 sks @ 2460'
- 80 sks @ 1680'
- 50 sks @ 840'
- 50 sks @ 260'
- 20 sks @ 60'
- 20 sks mouse hole
- 30 sks Ret hole

Thank you

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

SERVICE

DEPTH OF JOB	<u>2460'</u>		
PUMP TRUCK CHARGE			<u>1250.00</u>
EXTRA FOOTAGE		@	
MILBAGE	<u>45 miles x 2</u>	@	<u>7.00</u>
MANIFOLD		@	
	<u>Light vehicle</u>	@	<u>4.00</u>
		@	
TOTAL <u>2240.00</u>			

PLUG & FLOAT EQUIPMENT

	@	
	@	
	@	
	@	
	@	
TOTAL _____		

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

PRINTED NAME Kelly Wilson
 SIGNATURE Kelly Wilson

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