



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1147243
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: _____



1147243

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	C-F 1-23
Doc ID	1147243

Tops

Name	Top	Datum
Stone Corral	2543	+473
Bs/Stone Corral	2566	+450
Heebner	4014	-998
Lansing	4052	-1036
Muncie Creek	4201	-1185
Stark	4282	-1266
Marmaton	4377	-1361
Excello	4532	-1516
Mississippian	4641	-1625
LTD	4701	

DIAMOND TESTING

Pressure Survey Report

General Information

Company Name	GRAND MESA OPERATING COMPANY	Job Number	M505
Well Name	C-F #1-23	Representative	MIKE COCHRAN
Unique Well ID	DST#1 4128-4144 E ZONE	Well Operator	GRAND MESA OPERATING COMPANY
Surface Location	SEC.23-12S-32W LOGAN CO.KS.	Report Date	2013/05/25
Field	WILDCAT	Prepared By	MIKE COCHRAN
Well Type	Vertical	Qualified By	STEVE STRIBLING
		Test Unit	NO. 1

Test Information

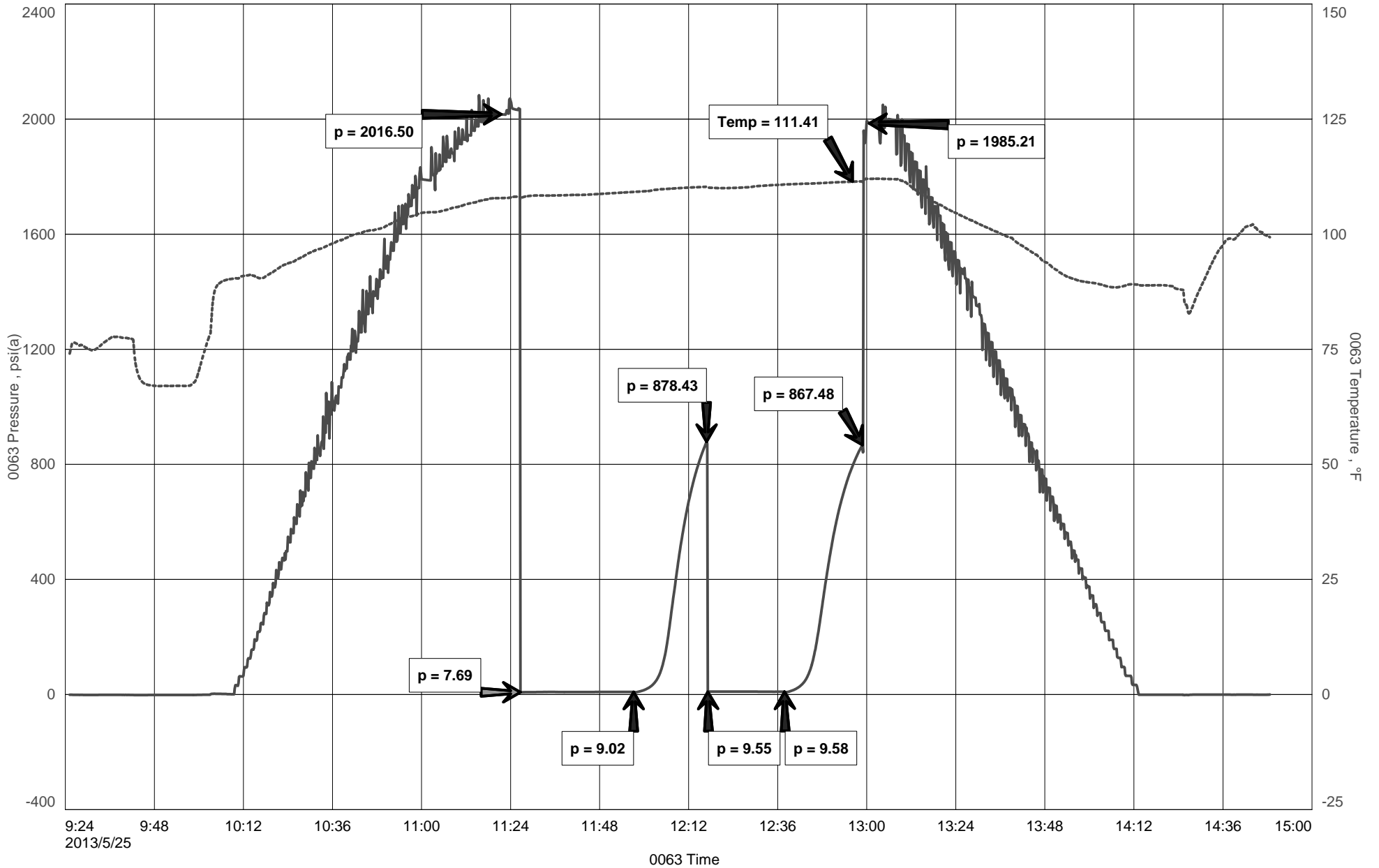
Test Type	CONVENTIONAL		
Formation	DST#1 4128-4144 E ZONE		
Test Purpose (AEUB)	Initial Test		
Start Test Date	2013/05/25	Start Test Time	09:25:00
Final Test Date	2013/05/25	Final Test Time	14:40:00
		Well Fluid Type	01 Oil
Gauge Name	0063		
Gauge Serial Number			

Test Results

Remarks RECOVERED:
3' DM 100% MUD W/ A VERY THIN SCUM OFOIL, & SOME GASSY BUBBLES
3' TOTAL FLUID

TOOL SAMPLE: 100% MUD W/ A VERY THIN SCUM OFOIL, & SOME GASSY BUBBLES

C-F #1-23





DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: CF1-23DST1

TIME ON: 0925
TIME OFF: 1440

Company GRAND MESA OPERATING COMPANY Lease & Well No. C-F #1-23
Contractor DUKE RIG 2 Charge to GRAND MESA OPERATING COMPANY
Elevation 3016 KB Formation E ZONE Effective Pay _____ Ft. Ticket No. M505
Date 5/25/2013 Sec. 23 Twp. _____ 12 S Range _____ 32 W County LOGAN State KANSAS
Test Approved By STEVE STRIBLING Diamond Representative MIKE COCHRAN

Formation Test No. 1 Interval Tested from 4128 ft. to 4144 ft. Total Depth 4144 ft.
Packer Depth 4123 ft. Size 6 3/4 in. Packer depth N/A ft. Size 6 3/4 in.
Packer Depth 4128 ft. Size 6 3/4 in. Packer depth NA ft. Size 6 3/4 in.

Depth of Selective Zone Set

Top Recorder Depth (Inside) 4110 ft. Recorder Number 0063 Cap. 6,000 P.S.I.
Bottom Recorder Depth (Outside) 4141 ft. Recorder Number 6884 Cap. 6,275 P.S.I.
Below Straddle Recorder Depth 4130 ft. Recorder Number E1150 Cap. 6,125 P.S.I.

Mud Type CHEM Viscosity 52 Drill Collar Length 0 ft. I.D. 2 1/4 in.
Weight 9.3 Water Loss 7.2 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.
Chlorides 1,200 P.P.M. Drill Pipe Length 4096 ft. I.D. 3 1/2 in.
Jars: Make STERLING Serial Number 1 Test Tool Length 32 ft. Tool Size 3 1/2-IF in.
Did Well Flow? NO Reversed Out NO Anchor Length 16 ft. Size 4 1/2-FH in.
Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in. Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: A SURGE OF BUBBLES ON TOOL OPEN THEN NO BLOW (NO BB)
2nd Open: NO BLOW (NO BB)

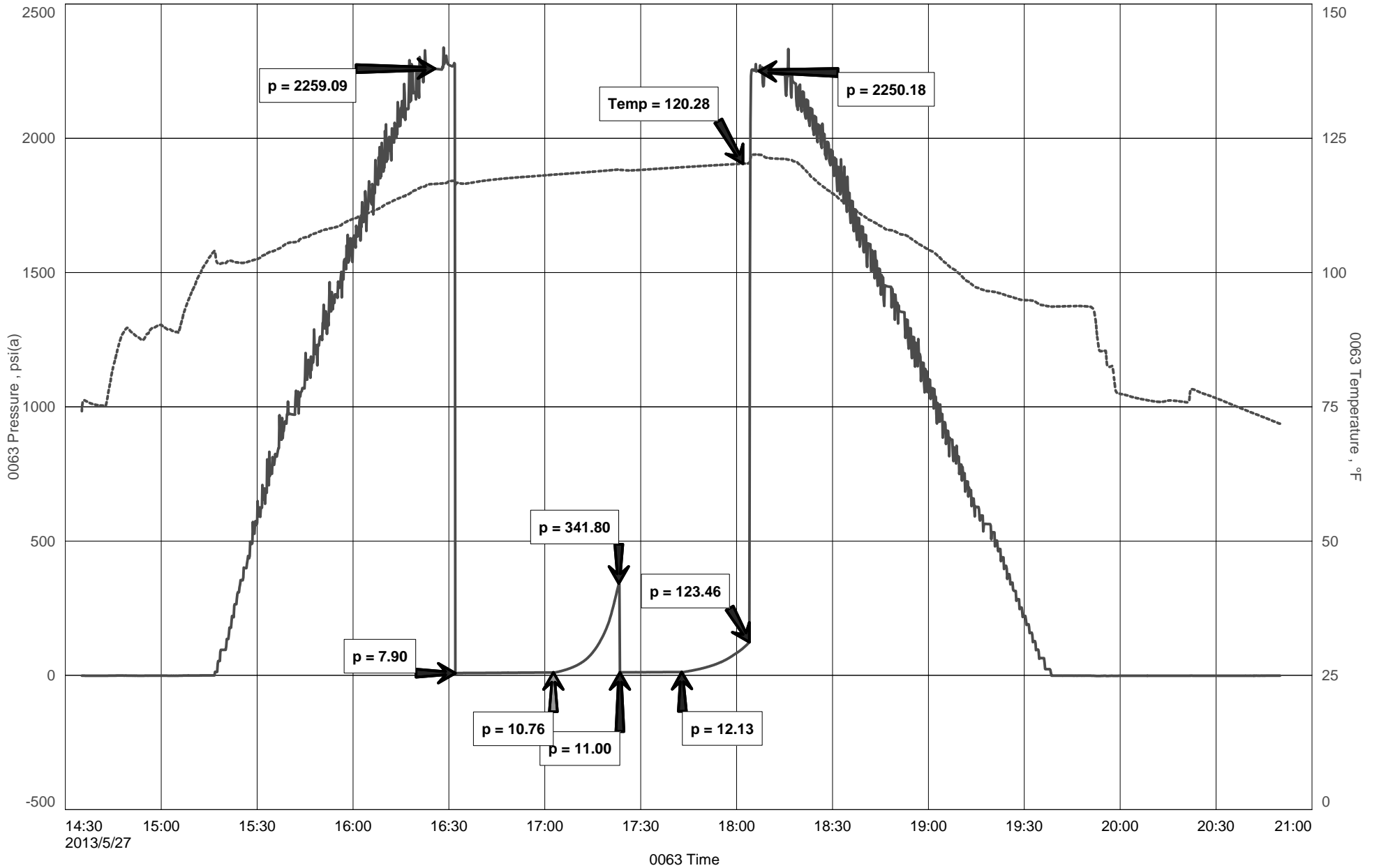
Recovered <u>3</u> ft. of <u>DM 100% MUD W/ A VERY THIN SCUM OFOIL, & SOME GASSY BUBBLES</u>	Price Job Other Charges Insurance Total
Recovered <u>3</u> ft. of <u>TOTAL FLUID</u>	
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	
Remarks: _____	
TOOL SAMPLE: <u>100% MUD W/ A VERY THIN SCUM OFOIL, & SOME GASSY BUBBLES</u>	

Time Set Packer(s) 11:15 A.M. ^{A.M.}/_{P.M.} Time Started Off Bottom 12:45 P.M. ^{A.M.}/_{P.M.} Maximum Temperature 111

Initial Hydrostatic Pressure..... (A) 2017 P.S.I.
Initial Flow Period..... Minutes 30 (B) 8 P.S.I. to (C) 9 P.S.I.
Initial Closed In Period..... Minutes 20 (D) 878 P.S.I.
Final Flow Period..... Minutes 20 (E) 10 P.S.I. to (F) 10 P.S.I.
Final Closed In Period..... Minutes 20 (G) 867 P.S.I.
Final Hydrostatic Pressure..... (H) 1985 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-F #1-23



DIAMOND TESTING

Pressure Survey Report

General Information

Company Name	GRAND MESA OPERATING COMPANY	Job Number	M506
Well Name	C-F #1-23	Representative	MIKE COCHRAN
Unique Well ID	DST#2 4592-4625 JOHNSON	Well Operator	GRAND MESA OPERATING COMPANY
Surface Location	SEC.23-12S-32W LOGAN CO.KS.	Report Date	2013/05/27
Field	WILDCAT	Prepared By	MIKE COCHRAN
Well Type	Vertical	Qualified By	KENT MATSON
		Test Unit	NO. 1

Test Information

Test Type	CONVENTIONAL		
Formation	DST#2 4592-4625 JOHNSON		
Test Purpose (AEUB)	Initial Test		
Start Test Date	2013/05/27	Start Test Time	14:35:00
Final Test Date	2013/05/27	Final Test Time	20:50:00
		Well Fluid Type	01 Oil
Gauge Name	0063		
Gauge Serial Number			

Test Results

Remarks RECOVERED:
~ A QUARTER FOOT (~3") OF CO 100% OIL
10' VSOSDM ~100% DM W/A THIN SCUM OF OIL
~10' TOTAL FLUID

GRAVITY: 29.1 @ 60 DEG

TOOL SAMPLE: 100% DM W/A THICK SCUM OF OIL



DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: CF1-23DST2

TIME ON: 1435
TIME OFF: 2050

Company GRAND MESA OPERATING COMPANY Lease & Well No. C-F #1-23
Contractor DUKE RIG 2 Charge to GRAND MESA OPERATING COMPANY
Elevation 3015 KB Formation JOHNSON Effective Pay _____ Ft. Ticket No. M506
Date 5/27/2013 Sec. 23 Twp. _____ 12 S Range _____ 32 W County LOGAN State KANSAS
Test Approved By KENT MATSON Diamond Representative MIKE COCHRAN

Formation Test No. 2 Interval Tested from 4592 ft. to 4625 ft. Total Depth 4625 ft.
Packer Depth 4587 ft. Size 6 3/4 in. Packer depth N/A ft. Size 6 3/4 in.
Packer Depth 4592 ft. Size 6 3/4 in. Packer depth NA ft. Size 6 3/4 in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 4574 ft. Recorder Number 0063 Cap. 6,000 P.S.I.
Bottom Recorder Depth (Outside) 4622 ft. Recorder Number 6884 Cap. 6,275 P.S.I.
Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type CHEM Viscosity 50 Drill Collar Length 0 ft. I.D. 2 1/4 in.
Weight 9.2 Water Loss 8.8 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.
Chlorides 2,500 P.P.M. Drill Pipe Length 4560 ft. I.D. 3 1/2 in.
Jars: Make STERLING Serial Number 1 Test Tool Length 32 ft. Tool Size 3 1/2-IF in.
Did Well Flow? NO Reversed Out NO Anchor Length 33 ft. Size 4 1/2-FH in.
Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in. Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: A SURGE OF BUBBLES ON TOOL OPEN DIMINISHING UNTIL DEAD @ 6 MIN (NO BB)
2nd Open: NO BLOW (NO BB)

Recovered ~1/4 ft. of CO 100% OIL GRAVITY: 29.1 @ 60°
Recovered 10 ft. of VSOSDM ~100% DM W/A THIN SCUM OF OIL
Recovered ~10 ft. of TOTAL FLUID

Recovered _____ ft. of _____	Price Job
Recovered _____ ft. of _____	Other Charges
Remarks: _____	Insurance
TOOL SAMPLE: <u>100% DM W/A THICK SCUM OF OIL</u>	Total

Time Set Packer(s) 4:30 P.M. ^{A.M.} P.M. Time Started Off Bottom 6:00 P.M. ^{A.M.} P.M. Maximum Temperature 120

Initial Hydrostatic Pressure..... (A) 2259 P.S.I.
Initial Flow Period..... Minutes 30 (B) 8 P.S.I. to (C) 11 P.S.I.
Initial Closed In Period..... Minutes 20 (D) 342 P.S.I.
Final Flow Period..... Minutes 20 (E) 11 P.S.I. to (F) 12 P.S.I.
Final Closed In Period..... Minutes 20 (G) 123 P.S.I.
Final Hydrostatic Pressure..... (H) 2250 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.



CONSOLIDATED
Oil Well Services, LLC

259215

TICKET NUMBER 39989
LOCATION Oakley KS
FOREMAN Fuzzy

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

FIELD TICKET & TREATMENT REPORT
CEMENT

DAMON MILLER TRAINIE

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
5-28-13	3372	C-F #1-23	23	12	32	Logan
CUSTOMER Grand Mesa			OAKLEY			
MAILING ADDRESS			S-UTE Rd			
CITY			1E			
STATE			W-1A			
ZIP CODE						
TRUCK #	DRIVER	TRUCK #	DRIVER			
405	SOLOMAN					
397	UNIK-P					

JOB TYPE PTA HOLE SIZE 77/8 HOLE DEPTH 4702' CASING SIZE & WEIGHT _____
 CASING DEPTH _____ DRILL PIPE 4 1/2 TUBING _____ OTHER _____
 SLURRY WEIGHT 13.8 SLURRY VOL 1.42 WATER gal/sk 6.9 CEMENT LEFT in CASING _____
 DISPLACEMENT _____ DISPLACEMENT PSI _____ MIX PSI _____ RATE _____

REMARKS: Safety meeting on buke #2 Ris up and plus as ordered
25 sks @ 2550'
100 sks @ 1560' 220 sks 60/40 pos 40' solid 1/4" flo-seal
40 sks @ 270'
10 sk @ 40' w/ solid bridge
15- MH
30- PH

Thanks Fuzzy

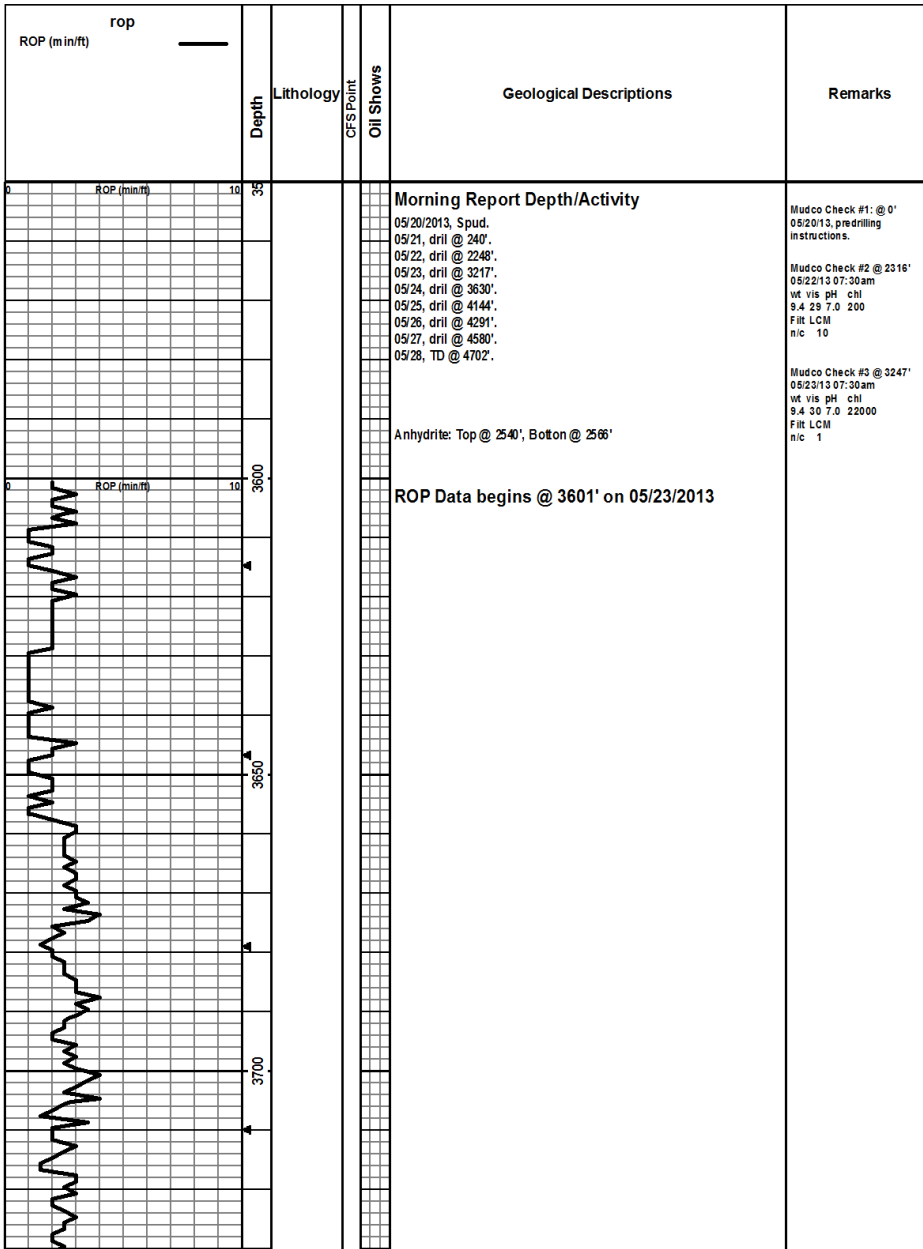
ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5405W	1	PUMP CHARGE	1395 ⁰⁰	1395 ⁰⁰
5406	10	MILEAGE	52 ³⁰	523 ⁰⁰
5407	9.6 Tow	Tow Mileage Delivery (min)	430 ⁰⁰	430 ⁰⁰
1131	220 sks	60/40 pos	1586	3489 ²⁰
1118B	757 #	Bentonite	.27	204 ³⁹
1107	55 #	Flo-seal	297	163 ²⁵
4432	1	85/8 wood cup plus	100 ²⁵	100 ²⁵
		subtotal		5835 ¹⁹
		less 100%		583 ⁵²
		subtotal		5251 ⁶⁷
		<input checked="" type="checkbox"/> completed		
		SALES TAX		277.83
		ESTIMATED TOTAL		5529.50

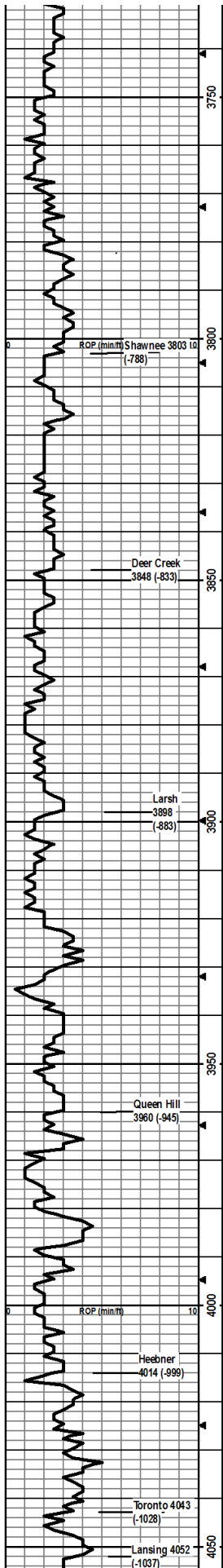
Ravin 3737

AUTHORIZATION Dion Vasquez TITLE _____ DATE 5-28-2013

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.

Heebner Shale	4014'	-999	4014'	-999
Toronto	4043'	-1028	4042'	-1027
Lansing	4052'	-1037	4052'	-1037
Muncie Creek Shale	4201'	-1186	4201'	-1186
Stark Shale	4284'	-1269	4282'	-1267
Hushpuckney Shale	4318'	-1303	4316'	-1301
Marmaton	4377'	-1362	4377'	-1362
Upper Fort Scott	4483'	-1468	4484'	-1469
Little Osage Shale	4503'	-1488	4504'	-1489
Excello Shale	4531'	-1516	4532'	-1517
Johnson Zone	4604'	-1589	4607'	-1592
Morrow	4636'	-1621	4635'	-1620
Mississippian	4642'	-1627	4641'	-1626
RTD	4702'	-1687		
LTD			4702'	-1687





Drill cutting samples at 10' intervals start at 3810'.

Lst Wht-Crm, vchly, vfoss, fuss, pelletal, sft, p-microxn por, ns

Lst Wht-Tan, vchly, sft, no por, few pcs vdnse, crm-gry, hrd, cryptoxin, foss, no por

Lst Inc in gry, hrd, cryptoxin 1st abv, pelletal and arg, glauc, no por

Lst Wht-gry, vchly to gry-brn, dnse cryptoxin w/ 2 pcs brn, fkn, foss cast por, fgd foss cast por, ns

Lst Lrg inc in chly sft 1st abv

Lst Wht-orm, chly, arg in pt, sft few pcs tan, vdnse, cryptoxin, hrd, no por

Sh: Gry-grn tint, silty grading to vfn grn sdy sh.

Lst Chly, sft as abv, fe pcs wht-tan sli chly, vfoss, vf-mxin, sprry cmt, p xln por in some, mstly dnse.

Lst Some tan-lt grn, v arg and shly, mstly wht-orm, chly 1st as abv

Lst Tan-lt brn, mstly dnse sli dolo cmt, some sugary texture, some pcs w/sm vugs, p-f vug and foss cast por, ns

Lst Inc in tan-brn 1st abv, becoming v foss, ppt-vug por, ns

Lst back to mstly tan, vchly, sft, some arg and shly in pt, 1 pc asphaltic frac filling mat,

Lst Tan, Wht, lt. brn, chly, very shly in some, pelletal w/some blk fissile sh appearing

Siltstone: Wht-tan, vfgnd, most smple trashy w/lots of red clay mat

Lst Mixture of wht-tan, vchly 1st abv and tan-gry, microxn, some sprry cmt, few pcs pyritic, no por, ns

Very poor smple, red clay mat and gypsum pcs

Lst Wht-lt grn, glauc, sft, vchly, no por

Lst Tan-lt brn, vdnse cryptoxin, few pcs sprry cmt, pelletal in pt, no por

Lst Wht-tan-lt. brn, sli chly, few pcs w/gd ppt and vug por, sli arg, ns

Lst lg inc in vfoss, pelletal, fusilinids, vdnse, arg, no por, ns

Lst Wht-lt. brn, mstly vdnse, some chly, crypto-microxn, no por, ns

Lst Wht-tan, chly, sli foss, few pcs, fkn, f vug por, sprry, ns

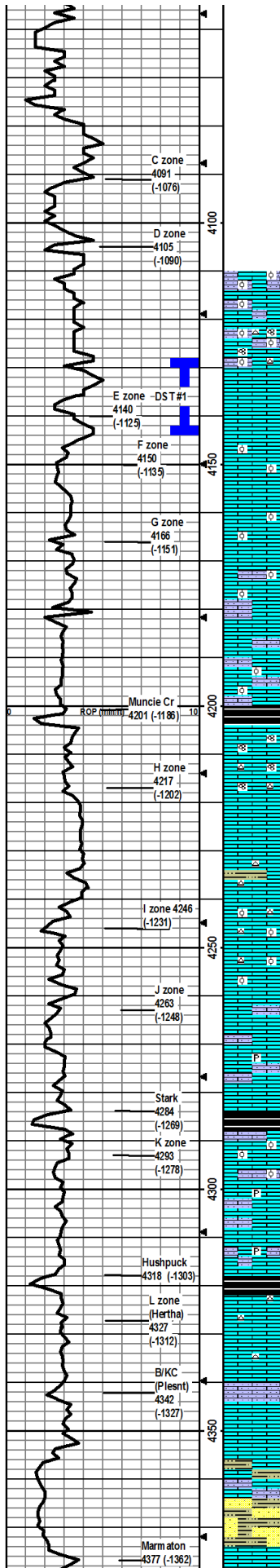
Sh: Blk, carb, fissile w/few pcs lt. grn siltstone w/blk sh lam inates

Lst Crm-lt brn, vdnse, sli foss, pelletal in pt, cryptoxin, no por, ns

same

No smple caught

Mudco Check #4 @ 3907'
05/24/13 09:30am
wt vis pH chl
9.0 49 11 1200
Filt LCM
7.2 1



Lst: Wht-tan, few pcs vool w/vxln spry cmt, 1 pc dry w/lt brn stn, nfo in wet, p intbn por

Lst: Tan-lt brn, dec in ool lst abv becom ing ooc in pt, prly sorted ool grns, f-md in size, ns

Lst: Wht-orm, sli chily in pt, few pcs vdnse, hrd, micro-cryptoxln., few loose ind chert pcs, oqat, no por, ns

Lst: Stop smple: Wht-orm, vdnse, sli chly lst, few pcs ool and foss, p-f sprse vug and intbn por, ns
 30': Same, becoming vchily in pt, 1 pc w/pos lt brn stn, p-no vis por
 60': Mstly chily lst abv w/few pcs lt brn, vdnse, microxln, micritic cmt, no por, ns

NOTE: above sample descriptions conducted by Steve Strubling, Grand Mesa.

LS: crm/lt brn, micro-med xtal w/2ndry xtal, foss frags/ool, vry snyd, chalky, som e ppt in-xtal por, no odor, ns.

LS: crm/lt brn/lt gry, micro-med xtal, foss frags/fusln/ool, some vry snyd, chalky, lt brn/lt orange chert, min ppt in-xtal/frac por, no odor, ns.

LS: crm/lt brn, micro-med xtal, foss frags, some chalky, 10 pcs in 30 min smpl and 7 pcs in 60 min smpl w/fn-med in-xtal por w/so. dk brn oil, no flor, no odor, sfo.

LS: crm/lt brn, micro-med, som e foss frags/dense ool pcs, som e wht chalk, no vis por, no odor, ns in both 30 min and 60 min smpls.

LS: crm/lt gry, micro-med xtal w/som e 2ndry xtal, m in foss frags, som e chalky, min frac por, no odor, ns.

LS: crm/lt brn, micro-med xtal w/som e 2ndry xtal, m in foss frags w/dense ool, m in frac por, no odor, ns.

LS: crm/lt gry, micro-fn xtal, m in 2ndry xtal, som e vry snyd, som e chalky, min foss frags w/dense ool pcs, min ppt in-xtal/frac por, no odor, ns.

LS: crm/lt gry, micro-med xtal w/som e 2ndry xtal, som e snyd, som e chalky, min foss frags, min frac por, no odor, ns.

LS: crm/lt gry, micro-med xtal w/som e 2ndry xtal, som e snyd, min foss frags w/som e dense ool, som e frac por, no odor, ns.

SH: blk, stly carb, firm, fissile.

LS: lt-med brn w/som e dk brn gry, micro-med, foss frags/fusln, no vis por, no odor, ns.

LS: crm/lt brn/lt gry, micro-med w/som e 2ndry xtal, foss frags/fusln, som e lt brn chert, som e frac por, no odor, ns.

LS: crm/lt brn, micro-fn xtal, min foss frags, som e chalky, no vis por, no odor, ns.

LS: crm/lt-med brn, micro-fn xtal w/som e 2ndry xtal, min foss frags, lt brn chert, min frac por, no odor, ns in both 30 min and 60 min smpls.
 SH: lt-dk gry/brn, vry silty, soft-firm.

LS: crm/lt brn, micro-med xtal, min foss frags/som e dense ool pcs, wht/crm chert, som e chalky, no vis por, no odor, ns.

LS: crm/lt brn, micro-med xtal, min foss frags w/som e chalky dense ool, som e crm/lt brn chert, som e chalky pcs, min ppt in-xtal/frac por, no odor, ns in both 30 min and 60 min smpls.

LS: crm/lt-med brn/lt gry, micro-fn xtal, foss frags, som e snyd, min frac por, no odor, ns. SH: gry-dk gry/brn-dk brn, silty, carb, firm.

LS: crm/lt gry, micro-fn xtal, foss frags, som e pyritic, som e snyd, no odor, ns in both 30 in and 60 min smpls.

SH: blk, stly carb, firm-hard, fissile.

LS: crm/lt brn/lt gry, micro-med xtal, foss frags w/som e dense ool, som e vry snyd, som e chalky, min ppt in-xtal por, no odor, ns.

LS: same as above w/som e pyritic; both 30 min and 60 min smpls.

LS: crm/lt-med gry, micro-fn xtal, min foss frags, som e pyritic, som e snyd, som e chalky, crm chert, m in frac por, no odor, ns.

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

LS: crm some w/dk gry inclusions/lt-dk brn/lt gry, micro-med xtal, foss frags, som e chalky, m in wht chert, m in frac por, no odor, ns.

LS: wht/crm/m in lt gry, micro-med xtal, foss frags, chalky, min crm chert, min frac por, no odor, ns, in both 30 min and 60 min smpls.

LS: crm/lt gryish crm, micro-fn xtal, foss frags, som e vry snyd, som e frac por, no odor, ns.

LS: as above w/flood of SH: red brn/brn/lt gry, vry silty/snyd, soft, odor, ns.

LS: crm/lt brn/lt gry, micro-med xtal, foss frags, som e vry snyd, som e frac por, no odor, ns. SH: SS mix; SH is gry-dk gry/brn/med brn, som e vry silty/snyd, soft-firm; SS is gry/brn/med brn, v-f, sr-wr, arg. fta ble, ns.

LS: crm/lt brn/lt gry, micro-med xtal, foss frags, som e vry snyd, m in frac por, no odor, ns. Flood of SH/SS as above.

DST1) 4128-4144
E Zone

3020/2020
 1st) A surge of bubbles on tool open, then NB, no BB.
 2nd) NB, no BB.
 IF P 8-9#
 ISIP 878#
 FFP 10-10#
 FSP 867#
 HP 2017-1985#
 Recvd: 3' of mud wa vry thin scum of oil & some gassy bubbles.

CFS @ 411' 30" 60"

Mudco Check #5 @ 4144'
 05/25/13 07:30am
 wt vis pH chl
 9.2 53 11 2400
 Filt LCM
 6.4 1

CFS @ 4144' 30" 60"

CFS @ 4154' 30" 60"

CFS @ 4240' 30" 60"

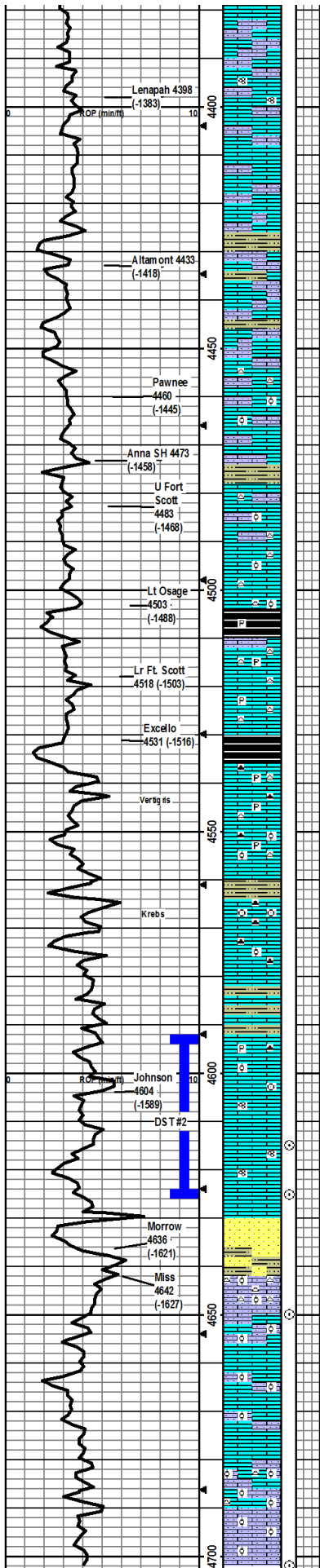
CFS @ 4260' 30" 60"

CFS @ 4280' 30" 60"

CFS @ 4305' 30" 60"

Mudco Check #6 @ 4305'
 05/26/13 08:30am
 wt vis pH chl
 9.5 48 9 3000
 Filt LCM
 9.6 1

CFS @ 4340' 30" 60"



LS: crm/lt-med brn, micro-med xtal w/2ndry xtal, foss frags, some chalky, some vry sndy, min frac por, no odor, ns.

LS: crm/lt brn/some lt gry, micro-med xtal w/2ndry xtal, m in foss frags/fusin, some vry silty/sndy, some chalky, min frac por, no odor, ns.

LS: crm/lt-med brn/min lt gry, micro-fn, min foss frags, some vry silty/sndy, m in frac por, no odor, ns.

LS: crm/lt-med brn/some lt gry, micro-med xtal, m in foss frags, some vry silty/sndy, some frac por in ppt in-xtal por, no odor, ns.

LS: crm/lt-med brn/lt gry, micro-med xtal, some foss frags, some vry chalky, some sndy, some frac por, no odor, ns.
SH: lt-dk gry/red brn, vry silty/sndy, carb, some lt gry silt stn, fim.

LS: crm/lt brn/lt gry, micro-med xtal, some foss frags, some vry sndy, min frac por, no odor, ns. Some silty SH as above.

LS: crm/lt brn/lt gry, micro-med xtal w/some 2ndry xtal, min foss frags, vry sndy, some frac por, no odor, ns. Flood of lt-dk gry/grm gry/red brn vry silty SH, some silt stn, soft-fim, carb, fissile.

LS: crm/lt brn/lt gry, micro-med xtal, min foss frags, some vry sndy, some wht chert, min frac por, no odor, ns.

LS: crm/lt-med brn, micro-med xtal w/2ndry xtal, foss frags/min dense ool pcs, some vry sndy, some chalky, min frac por, no odor, ns.

LS: crm/lt brn/lt gry, micro-fn xtal, m in foss frags, vry sndy, min frac por, no odor, ns.
SH: lt-med gry/maroon/bm, silty/sndy, carb, fim, fissile.

LS: crm/lt-med brn, micro-med xtal, min foss frags w/some dense ool, some vry sndy, wht/lt gry chert, some frac por, no odor, ns.

LS: crm/lt brn/lt gry, micro-fn xtal, m in foss frags/min ool, some wht/lt gry chert, some frac por, no odor, ns.

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

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

LS: crm/lt-med brn, micro-med xtal w/2ndry xtal, some foss frags, some wht/lt brn chert, min pyritic, some frac por, no odor, ns.

SH: dk brnish gry/blk, stly silty, carb, soft-hard, fissile.

LS: crm/lt-med brn/min gry, micro-fn xtal, foss frags, wht/lt-dk brn chert, min frac por, no odor, ns.

LS: lt-dk brn, micro-med xtal, foss frags, min pyritic, wht/brn-dk brn chert, min frac por, no odor, ns.

LS: crm/lt-med brn w/some gry, micro-med xtal, foss frags/dense ool, some pyritic, wht/brn chert, min frac por, no odor, ns.

SH: lt-dk gry/red brn/lt-dk brn, vry silty, carb, soft-firm, fissile. SS: gry, qtz, v-f, r-s, friable, no odor, ns.

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

LS: crm/lt-med brn/min gry, micro-med xtal, foss frags w/min dense ool, some brn chert, no vis por, no odor, ns.

SH/LS mix: LS is crm/lt-med brn/min lt gry, micro-fn xtal, m in foss frags, min frac por, no odor, ns. SH is lt-dk gry/dk brn, vry silty, carb, soft-firm, fissile.

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

LS: crm/lt brn, micro-fn xtal, foss frags/fusin/crin, min frac por no odor or show in stop and 30 min smpls, crush odor but ns in 60 min smpl.

LS: crm/lt brn, micro-med xtal, some chalky, foss frags, some frac por, no odor, ns in 4625 stop smpl.

LS: crm/lt brn, micro-fn xtal, some foss frags/fusin, chalky, some frac por, gd crush odor but ns in both 30 min and 60 min smpls.

SS: wht, v-f, sr-wr, qtz, vry sly carb, hard, friable, no odor, ns.

SH/SS mix: SH is gry-dk gry/grm gry/red brn/maroon/mustard yel, vry silty, soft-firm. SS is lt-med gry/lt brn, v-f, sr-wr, pred qtz, friable, ns.

LS: crm/lt gry-gry, micro-med xtal, min foss frags w/some chalky ool pcs, some vry sndy, abnd wht/lt brn-brn/orange chert, some frac por, no odor, ns.

LS: crm/lt brn/min lt gry, micro-fn xtal, some sndy ool pcs, dense w/min frac foss, no odor, ns.

LS: crm/lt brn/lt yel crm, micro-fn xtal, min foss frags w/some dense ool sndy chalky pcs, no vis por, no odor, ns.

LS: crm/lt brn, micro-fn xtal, some foss frags/min ool pcs, some vry sndy, some frac por, no odor, ns.

LS: crm/lt brn, micro-med xtal, some foss frags w/chalky sndy ool pcs, some crm/lt brn chert, no vis por, no odor, ns.

LS: wht/crm/lt gry, micro-fn xtal, m in foss frags/ool, vry sndy, vry chalky, no vis por, no odor, ns.

Bit trip @ 4558'

Mudco Check #7 @ 4592'
05/27/13 08:10am
wt vis pH chl
9.3 50 19 2500
FIL LCM
8.8 1

CFS @ 4615'
30"60"

CFS @ 4625'
30"60"

CFS @ 4650'
30"60"

DST2) 4592-4625
Johnson
3020/2020
1st) Surge of bubbles on tool open and died in 6 min, no BB.
2nd) no blow, no BB.
IFP 8-11#
ISP 3-42#
FFP 11-12#
F SP 123#
HP 2269-2250#
Recvd: 14' CO, 10' VSOSDM (100% DM with a thin scum of oil).
CFS @ 4702', 30"60".

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
Thomas E. Wright, Commissioner
Shari Feist Albrecht, Commissioner

Sam Brownback, Governor

July 01, 2013

Michael J. Reilly
Grand Mesa Operating Company
1700 N WATERFRONT PKWY BLDG 600
WICHITA, KS 67206-5514

Re: ACO1
API 15-109-21182-00-00
C-F 1-23
SE/4 Sec.23-12S-32W
Logan County, Kansas

Dear Production Department:

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

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

Respectfully,
Michael J. Reilly