Confidentiality Requested:
☐ Yes ☐ No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

1125286

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 # 9855
Name: Grand Mesa Operating Company
Address 1: 1700 N WATERFRONT PKWY BLDG 600
Address 2:
City: WICHITA State: KS Zip: 67206 + 5514
Contact Person: Ronald N. Sinclair
Phone: (316) 265-3000
CONTRACTOR: License # 30606
Name: Murfin Drilling Co., Inc.
Wellsite Geologist: John Goldsmith
Purchaser: NCRA

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 #:

12/27/2012	01/08/2013	03/01/2013
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-171-20922-00-00
Spot Description:
SE - SW - NE - SW Sec. 16 Twp. 16 S. R. 33 ☐ East ☑ West
1370 Feet from ☐ North / ☑ South Line of Section
1840 Feet from ☐ East / ☑ West Line of Section
Footages Calculated from Nearest Outside Section Corner:
☐ NE ☐ NW ☐ SE ☑ SW
GPS Location: Lat: *(e.g. xx.xxxxx)* , Long: *(e.g. -xxx.xxxxx)*
Datum: ☐ NAD27 ☐ NAD83 ☐ WGS84
County: Scott
Lease Name: DBY Well #: 4-16
Field Name: Wildcat
Producing Formation: Atoka
Elevation: Ground: 3071 Kelly Bushing: 3076
Total Vertical Depth: 4756 Plug Back Total Depth: 4737
Amount of Surface Pipe Set and Cemented at: 262 Feet
Multiple Stage Cementing Collar Used? ☑ Yes ☐ No
If yes, show depth set: 2464 Feet
If Alternate II completion, cement circulated from: 2464
feet depth to: 0 w/ 300 sx cmt.

Drilling Fluid Management Plan
(Data must be collected from the Reserve Pit)

Chloride content: 23000 ppm Fluid volume: 900 bbls
Dewatering method used: Evaporated

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: 03/19/2013
☑ **Confidential Release Date:** 03/19/2015
☑ **Wireline Log Received**
☑ **Geologist Report Received**
☐ **UIC Distribution**
ALT ☐ I ☑ II ☐ III **Approved by:** NAOMI JAMES **Date:** 03/21/2013

1125286

Operator Name: Grand Mesa Operating Company Lease Name: DBY Well #: 4-16

Sec. 16 Twp. 16 S. R. 33 ☐ East ☑ West County: Scott

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 ☑ Yes ☐ No
(Attach Additional Sheets)

Samples Sent to Geological Survey ☑ Yes ☐ No

Cores Taken ☐ Yes ☑ No

Electric Log Run ☑ Yes ☐ No

List All E. Logs Run:
Attached

☑ Log Formation (Top), Depth and Datum ☐ Sample

Name: Attached Top: Attached Datum: Attached

CASING RECORD ☑ New ☐ 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
Surface	12.25	8.625	23	262	Common	175	3%CC; 2%Gel
Production	7.875	5.50	15.5	4747	EA2	175	1/4#sx Flocele

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	0-2464	SMD	300	1/4#sx Flocele
	-			

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 *(Amount and Kind of Material Used)*	Depth
4	4654-4658	600gals. 15% RWR-1, w/additives	4654-4658
4	4653-4659	600gals. 15% RWR-1 w/additives	4653-4659

TUBING RECORD: Size: 2.875 Set At: 4701 Packer At:

Liner Run: ☐ Yes ☑ No

Date of First, Resumed Production, SWD or ENHR. 03/01/2013

Producing Method: ☐ Flowing ☑ Pumping ☐ Gas Lift ☐ Other *(Explain)*

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
	44	0	0		

DISPOSITION OF GAS:
☐ Vented ☐ Sold ☐ Used on Lease
(If vented, Submit ACO-18.)

METHOD OF COMPLETION:
☐ Open Hole ☑ Perf. ☐ Dually Comp. *(Submit ACO-5)* ☐ Commingled *(Submit ACO-4)*
☐ Other *(Specify)*

PRODUCTION INTERVAL:
4653-4659

Mail to: KCC - Conservation Division, 130 S. Market - Room 2078, Wichita, Kansas 67202

Form	ACO1 - Well Completion
Operator	Grand Mesa Operating Company
Well Name	DBY 4-16
Doc ID	1125286

All Electric Logs Run

CPDCN Micro Log
AI Shallow Focused Elect Log
Microresistivity Log
Dual Rec. Cement Bond Log

Form	ACO1 - Well Completion
Operator	Grand Mesa Operating Company
Well Name	DBY 4-16
Doc ID	1125286

Tops

Name	Top	Datum
Stone Corral	2427	+649
Bs/Stone Corral	2446	+630
Heebner	3980	-904
Lansing	4024	-948
Muncie Creek	4196	-1120
Stark	4284	-1208
Hushpuckney	4327	-1251
Marmaton	4396	-1320
Little Osage	4526	-1450
Morrow	4684	-1608
Mississippian	4744	-1668
LTD	4756	

John Goldsmith Wellsite Service

Cell and Home Phone:
316-640-0236

427 Roosevelt St.
Cheney, KS 67025

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

Well Name:	#4-16 DBY
Location:	1370' FSL, 1840' FWL, SECTION 16-16S-33W, SE SW NE SW
License Number:	API: 15-171-20922
Region:	Scott County
Spud Date:	12/27/2012
Drilling Completed:	09/8/2012
Surface Coordinates:	LAT 38.6598788 LONG -100.9743865
Bottom Hole Coordinates:	Vertical hole
Ground Elevation (ft):	3071'
K.B. Elevation (ft):	3076'
Logged Interval (ft):	3700' To: RTD
Total Depth (ft):	4756'
Formation:	Mississippian at RTD
Type of Drilling Fluid:	Chemical

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

OPERATOR

Company: Grand Mesa Operating Co.
Address: 1700 N. Waterfront Parkway
Bldg. 600
Wichita, KS 67206-5514

GEOLOGIST

Name: John Goldsmith
Company: John Goldsmith Wellsite Service
Address: 427 Roosevelt St.
Cheney, KS 67025
316-640-0236

COMMENTS

Contractor: Murfin Drilling Rig #24
Pusher: Tony Martin
Surface Casing: 5 joints of 8 5/8" set at 262'
Production Casing: 5.5" production casing was installed.
Mud by: MudCo
DST's by: Diamond Testing
Logs by: Weatherford Wireline Services (DIL, CN-CD, ML)
RTD=4756'
LTD=4756'

DSTs

DST #1 "KC E/F Zone" 4110-4135' 01/02/13
1st Open: Wk Surf Blw built to BOB in 28.5" (VWk Surf BB)
2nd Open: VWk Surf Blw built to BOB in 41" (No BB)
IFP = 21-117# ISIP = 1076# FFP = 118-216# FSIP = 1058#
HYP = 1900-1857#
450' Total Fluid, 450' GMW w/ Oil Scum (2%GAS, 90%WTR)

DST #2 "KC I Zone" 4235-4255' 01/03/13
1st Open: Wk Surf Blw built to 1/2" (No BB)
2nd Open: VWk Surf Blw built to 1/4" (No BB)
IFP = 15-29# ISIP = 958# FFP = 30-38# FSIP = 901#
HYP = 1970-1943#
15' Total Fluid, 15' Mud (Slight odor w/ slick of oil)

DST #3 "Pleasanton" 4364-4386' 01/04/13

1st Open: Strg Surf Blw built to BOB in 5.5" (6" BB)
2nd Open: Strg Surf Blw built to BOB in 14" (5 BB)
IFP = 28-110# ISIP = 209# FFP = 115-168# FSIP = 210#
HYP = 2090-2071#
369' Total Fluid, 141' GO (75% Oil), 47' Lost Down Hole (GO?), 181' GHOCM (15% Gas, 30% Oil)

DST #4 "Lennapah/Altamont" 4400-4468' 01/05/13
1st Open: Wk Surf Blw built to 3/4" then died at 15" (No BB)
2nd Open: Few bubbles, then No Blw (No BB)
IFP = 31-43# ISIP = 921# FFP = 46-53# FSIP = 755#
HYP = 2076-2065#
10' Total Fluid 50' GIP 10' GSOM (Scum of Oil w/ Gas Odor)

DST #5 "Johnson/Atoka" 4595-4688' 01/07/13
1st Open: Strg Surf Blw built to BOB in 24" (1/2 BB)
2nd Open: Strg Surf Blw built to BOB in 8.5" (No BB)
IFP = 23-47# ISIP = 378# FFP = 46-69# FSIP = 402#
HYP = 2207-2156#
145' Total Fluid 1040' GIP 145' SOSM (Oil 1%)

FORMATION TOPS	SAMPLE TOPS		LOG TOPS	
Formation	Depth	Datum	Depth	Datum
Queen Hill	3917'	-841	3918'	-842
Heebner Shale	3980'	-904	3980'	-904
Toronto	4002'	-926	4002'	-926
Lansing	4024'	-948	4024'	-948
Muncie Creek Shale	4197'	-1121	4196'	-1120
Stark Shale	4286'	-1210	4284'	-1208
Hushpuckney Shale	4329'	-1253	4327'	-1251
Marmaton	4397'	-1321	4397'	-1321
Upper Fort Scott	4504'	-1426	4504'	-1426
Little Osage Shale	4528'	-1452	4527'	-1451
Excello Shale	4544'	-1468	4542'	-1466
Johnson Zone	4618'	-1542	4618'	-1542
Morrow	4684'	-1608	4684'	-1608
Mississippian	4748'	-1672	4749'	-1673
RTD	4756'	-1680		
LTD			4756'	-1680

ROCK TYPES

Anhy
Cht
Coal
Congl
Dol
Gyp
Lmst
Salt
Shale
Shcol
Shgy
Sltst
Ss
Carb sh
Dol
Dtd
Gry sh
Sandylms
Shale
Sltstn
Shlyslts
Sltysh
Sdy dolo
Silty dolo
Shy dolo
Shaly ls

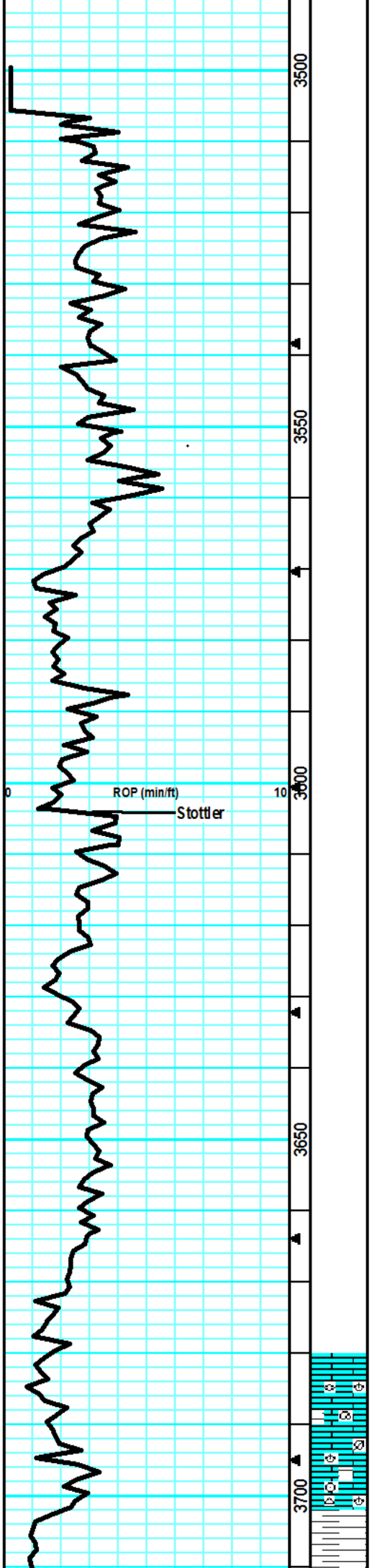
ACCESSORIES

FOSSIL
- Algae
- Amph
- Belm
- Bioclst
- Brach
- Bryozoa
- Cephal
- Coral
- Crin
- Echin
- Fish
- Foram
- Fossil
- Gastro
- Oolite
- Ostra
- Pelec
- Pellet
- Pisolite
- Plant
- Strom
- Fuss
- Oomold

MINERAL
- Anhy
- Arggrn
- Arg
- Bent
- Bit
- Brecfrag
- Calc
- Carb
- Chtdk
- Chtlt
- Dol
- Feldspar
- Ferrpel
- Ferr
- Glau
- Gyp
- Hvymin
- Kaol
- Marl
- Minxl
- Nodule
- Phos
- Pyr
- Salt
- Sandy
- Silt
- Sil
- Sulphur
- Tuff
- Chlorite
- Dol
- Sand
- Slty

STRINGER
- Anhy
- Arg
- Bent
- Coal
- Dol
- Gyp
- Ls
- Mrst
- Sltstrg
- Ssstrg
- Carbsh
- Clystn
- Dol
- Grysh
- Gryslt
- Lms
- Sandylms
- Sh
- Sltstn

ROP ROP (min/ft)	Depth	Lithology	CFS Point	Oil Shows	Geological Descriptions	Remarks
0 ROP (min/ft) 10 AnHydrite B/AnHydrite	2450				**Morning Report Depth/Activity** 12/27/2012, Spud 12/28/12, drill @ 262' 12/29/12, drill @ 2195' 12/30/12, drill @ 3310' 12/31/12, drill @ 3745' 01/01/13, drill @ 4007' (Stuck) 01/02/13, drill @ 4135' (DST#1) 01/03/13, drill @ 4240' (DST#2) 01/04/13, drill @ 4345' (DST#3) 01/05/13, drill @ 4415' 01/06/13, drill @ 4468' (DST#4) 01/07/12, drill @ 4688' (DST#5) 07/08/13, drill @ 4756' (Stuck, Logging)	Mud-Co Check #1 @ 0' 12/22/12 Survey @ 262' = 3/4 Degree **AnHydrite 2428' (+648)** Mud-Co Check #2 @ 2461' 12/29/12 11:30am wt vis pH chl 9.7 29 7.0 71,000 Filt LCM NC Tr **B/AnHydrite 2450' (+626)**



ROP Data begin @ 3500' on 12/30/2012

Drilling Samples began @ 3700' on 12/31/2012

LS: tan/gry, most mott, fn-crs xln, foss, brach/gast/fuss, sm chlky, sm friable, tr/? intfoss por in fw pcs, sm SH: gry/brn, silty, soft, no cup odr, ns.

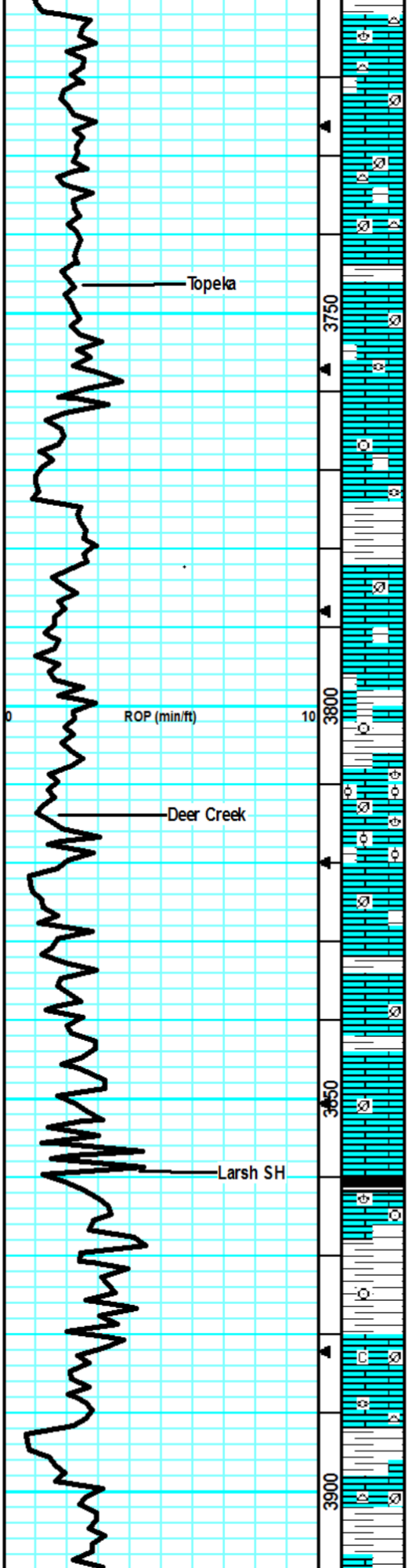
LS: tan/gry, sm mott, fn xln, foss brach/crin/frags, sm fiable, tr/? intxln por in fw, sm SH: gry/brn, silty, easy-med crush, no cup odr, ns.

LS: tan/gry, fn xln, fw foss brach/frags, sm dense, sm brittle, fw chlky, sm flakey/mealy, tr-nvp, fw Chert: wht/opaque, fw pcs pur chlk, no cup odr, ns.

Survey @ 3507' = 1/8 Degree

Mud-Co Check #3 @ 3507' 12/30/12
3:00pm

wt	vis	pH	chl
8.7	67	7.2	3,200
Filt	LCM		
7.2	4#		



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

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

LS: gry/lt tan, fn xln, fw foss frags, sm dense, sm brittle, fw pcs w/ pr vug por, fw Chert: wht/opaque, sharp, svrl SH: gry/brn, silty, med crush, no cup odr, ns.

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

LS: tan/gry, fw mott, fn-crs xln, sm foss frags/fuss, fw brittle, sm hard, tr/? intxln por in sm, fw SH: gry/brn, silty, med crush, no cup odr, ns.

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

LS: tan/lt gry, fn xln, sm foss fuss/crin/frags, fw pcs hard, fw pcs brittle, sm chlky, tr-nvp, v fw SH: gry/brn, silty, med crush, no cup odr, ns.

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

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

LS: gry/lt tan, sm mott, fn xln, foss crin/brach/frags, fw ool, mostly dense, sm hard, fw brittle/chlky, tr-nvp, no cup odr, ns.

LS: tan/gry, sm mott, fn xln, foss brach/frags, sm ool, fw dense, sm brittle, fw chlky, tr/? ppt-intxln por, fw pcs pur chlk, no cup odr, ns.

LS: tan/lt gry, fn xln, fw foss frags, fw dense, mostly brittle, sm pr ppt-intxln por, fw pcs pur chlk, fw SH: gry/brn, silty, med crush, no cup odr, ns.

LS: tan/gry, fn xln, fw foss frags, sm dense/hard, sm brittle, sm ppt-intxln por, svrl pcs pur chlk, fw SH: gry/brn, silty, fw fissile, med crush, no cup odr, ns.

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

LS: tan/lt gry, fn xln, fw foss frags, sm brittle, sm dense, tr-nvp, fw pcs w/ brn stns, no cut/fluor, sm SH: gry/grn/brn, silty, fw fissile, easy-med crush, no cup odr, ns.

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

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

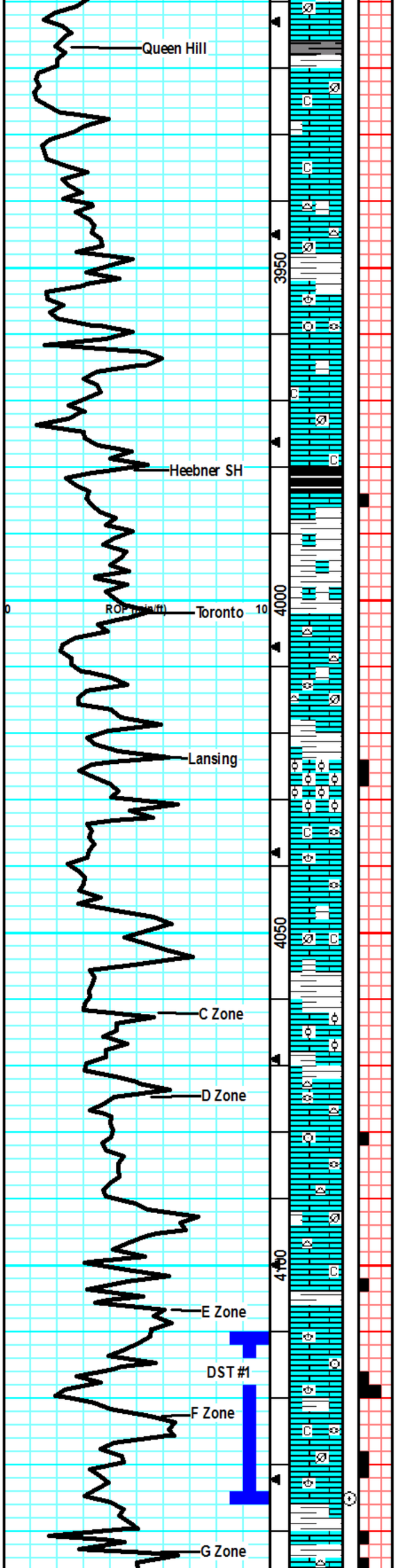
LS: tan/lt gry, fn xln, fw foss frags, sm dense, sm brittle, fw pcs w/ pr ppt-intxln por, fw pcs pur chlk, sm SH: gry/brn, silty, fw fissile, no cup odr, ns.

LS: tan/lt gry, fn xln, fw foss fuss/frags, sm dense, mostly brittle, fw pcs w/ pr ppt-intxln por, fw pcs pur chlk, fw Chert: wht/opaque, foss, fw SH: gry/brn, silty, sm fissile, no cup odr, ns.

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

Mud-Co Check #4 @ 3850'

12/31/12		11:20am	
wt	vis	pH	chl
8.8	57	11.0	6,400
Filt	LCM		
6.4	5#		



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

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

LS: lt tan/lt gry, micro-fn xln, mostly dense, sm brittle, sm chlky, tr-nvp, fw SH: gry/brn, silty, easy-med crush, sm soft, no cup odr, ns.

LS: gry/lt tan, micro-fn xln, fw foss frags, mostly dense, sm brittle, fw chlky, tr-nvp, fw Chert: wht/opaque, sharp, foss fuss/frags, no cup odr, ns.

LS: tan/lt gry, fn xln, sm foss fuss/brach/crin, sm brittle, fw dense, sm chlky, tr-nvp, fw pcs w/ light stns, wk fluor, nsfo, fw pcs pur chlk, fw SH: brn/gry, silty, sm fissile, no cup odr, ns.

LS: tan/gry, fw mott, fn xln, sm foss frags, sm brittle, fw hard, tr-nvp, fw pcs pur chlk, svrl SH: gry/drk gry/brn, silty, med crush, no cup odr, ns.

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

LS: tan/lt tan, fn xln, mostly dense, sm brittle, fw pcs w/ pr ppt-intxln por in prt, light brn stns, wk fluor, nsfo, fw SH: gry/brn/blk, silty, sm carb, no cup odr, ns.

No Sample caught at 4010' due to being stuck, the next sample was caught at 4020'.

LS: lt tan, fn xln, mostly dense, mostly brittle, sm dense, sm chlky, tr-nvp, fw Chert: wht/opaque, sharp, sm SH: gry/grn, silty, no cup odr, ns.

LS: tan/lt tan, fn xln, fw foss fuss/frags, mostly dense, mostly brittle, mostly uniform, tr-nvp, fw Chert: wht/gry, foss, sharp, no cup odr, ns.

LS: tan/lt tan, fn xln, profuss ool, sm dense, mostly brittle, sm fr intool por, sm light stns in por, wk fluor, cut pal blu, vssfo, strng cup odr frm spot oil earlier.

LS: tan/lt tan, fn xln, foss fuss/brach/frags, sm dense, mostly brittle, sm chlky, tr-pr intfoss por in sm, fw pcs profus ool, probably from above, ns.

LS: tan/lt tan, fn xln, sm foss fuss/frags, mostly dense, sm brittle, most uniform, rare scat vug por, svrl pcs of pur chlk, ns.

LS: tan/lt gry, fn xln, sm foss frags, mostly dense, sm flakey/mealy, tr-nvp, fw pcs profus ool, rare pr intool por, mostly dense, sm hard, fw pcs pur chlk, ns.

LS: tan/lt gry, fn xln, mostly dense, fw pcs ool, sm hard, tr-nvp, 1-2 pcs pr intxln por w/ ssfo, dul fluor, strm cut, svrl Chert: wht/opaque, sm SH: grn/brn.

LS: tan/lt gry, fn xln, mostly dense, sm chlky, sm brittle, tr-nvp in most. 1-2 pcs w/ pr intxln por on frac facies w/ ssfo, dul fluor, strm cut, svrl Chert: wht/opaque, foss sharp.

LS tan/lt tan, micro-fn xln, sm foss fuss/crin/frags, mostly dense, mostly brittle, uniform, sm fr scat vug/intfoss por, pos light brn stns, wk/? fluor, fw pcs pur chlk, sm Chert: wht/opaque, foss sharp, nsfo.

LS: tan/lt gry, micro-fn xln, fw foss frags, mostly dense, sm brittle, fw flakey/mealy, fw chlky, pr scat vug por in sm, svrl pcs pur chlk, ns.

LS: tan/lt gry, fn xln, mostly dense, sm brittle, sm chlky, fw hard, sm pr fn intxln por, fw light brn stns, wk fluor, slw cut, vssfo in 3-4 pcs, svrl pcs pur chlk.

LS: tan/lt gry, fn xln, sm foss brach/crin/frags, fw ool, sm dense, sm chlky, sm brittle, sm fr intxln/intfoss por, svrl pcs w/ fr sfo, dul yel fluor, strm cut pal blu.

LS: tan/lt gry, fn xln, sm foss brach/fuss/frags, sm dense, sm chlky, sm brittle, fw/ pcs w/ fr intfoss pr w/ fr ssfo (5-6 pcs), dul yel fluor, strm cut pal blu.

LS: lt tan/lt gry, fn xln, fw foss brach/frags, sm profus ool, sm brittle, sm dense, sm fr intool/fn intxln por w/ frsfo, 3-4 pcs total, dul yel fluor, strm cut.

LS: lt tan/lt gry, micro-fn xln, mostly dense, fw flakey/mealy, sm hard, tr-nvp, 1-2 pcs lt tan, fn xln, foss fr intxln por, ssfo, possibly did not get sample box cleaned out good.

Queen Hill SH 3917' (-841)

Stuck and 3947' @ 8:00pm 12/31/12 Spotted 80bbl Oil, ran in sm every 1/2hr and work kelly, down for total of 20hrs.

Heebner SH 3980' (-904)

Toronto 4002' (-926)

Mud-Co Check #5 @ 4007' 01/01/13 11:15am

wt	vis	pH	chl
8.8	67	10.5	6,500
Filt	LCM		
5.6	4#		

Lansing 4024' (-948)

All samples had a strong hydro-carbon odor from spotting oil.

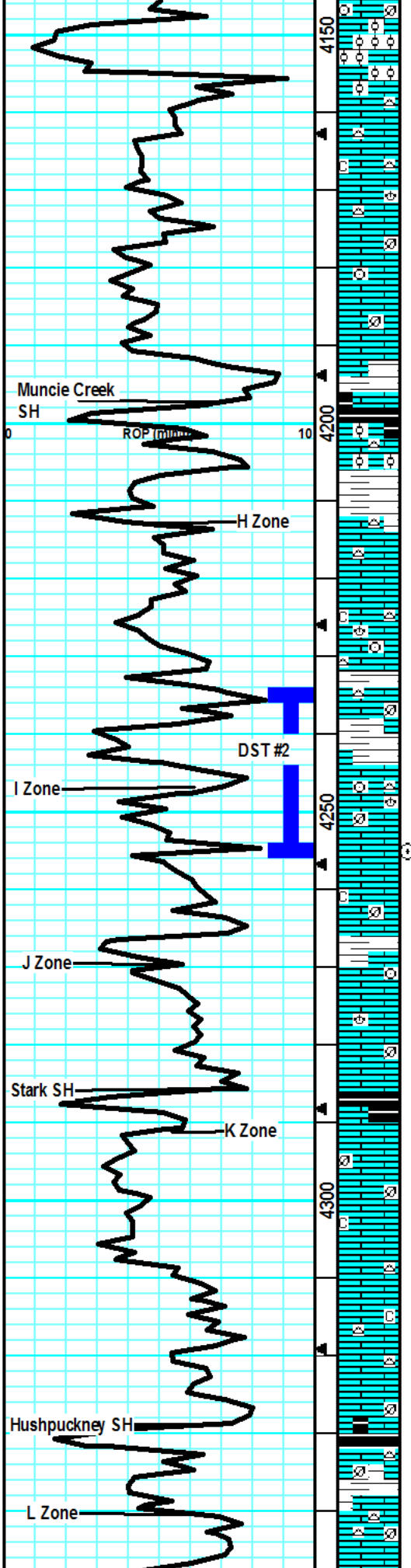
DST #1 "KC E/F Zone" 4110-4135' 01/02/13
1st Open: Wk Surf Blw built to BOB in 28.5" (VWk Surf BB)
2nd Open: VWk Surf Blw built to BOB in 41" (No BB)
IFP = 21-117# ISIP= 1076# FFP = 118-216# FSIP = 1058#
HYP = 1900-1857#
450' Total Fluid, 450' GMW w/ Oil Scum (2%GAS, 90%WTR)

Mud-Co Check #6 @ 4135' 01/02/13 10:20am

wt	vis	pH	chl
8.9	79	10.0	7,000
Filt	LCM		
6.4	5#		

Survey @ 4135' = 3/4 Degree

CFS @ 4135' (30"/60")



LS: tan/lt gry, fn xln, sm foss crin/frags, fw profus ool, sm brittle, 2-3 pcs w/ pr fn intxln/intfoss por, vssfo, fw Chert: wht/opaque, sharp.
LS: tan/lt gry, fn xln, mostly dense, sm brittle, fw chlky, fw flakey/mealy, fw hard, tr-nvp, fw Chert: wht/opaque, sharp, ns.

LS: lt tan/lt gry, fn xln, sm dense, sm brittle, sm chlky, fw hard, fw pcs w/ por vug por, fw Chert: wht/opaque, sharp, ns.

LS: lt gry/lt tan, fn xln, fw foss crin/brach/frags, sm brittle, fw dense/hard, fw flakey/mealy, fw pcs w/ por scat vug por, fw pcs pur chlk, ns.

LS: gry/lt tan, fn xln, fw foss frags, mostly dense, sm hard, sm brittle, sm flakey/mealy, v fw chlky, tr-nvp, fw pcs pur chlk, ns.

LS: tan/gry, sm mott, mostly dense, sm hard, sm flakey/mealy, tr-nvp, abund SH: blk/grn/gry, silty, v fw fissile, most carb, med crush, ns.
LS: gry/tan, sm mott, fn xln, fw ool, mostly dense, sm hard, fw flakey/mealy, fw chlky/brittle, tr-nvp, sm Chert: wht/gry, sharp, ns.
LS: lt tan/crm, micro-fn xln, mostly dense, mostly uniform, sm brittle, sm chlky, tr-nvp, sm Chert: gry/wht, sharp, ns.

LS: gry/lt tan, fn xln, mostly dense, sm hard, sm flakey/mealy, fw brittle, fw chlky, fw pcs w/ pr scat vug por, svrl Chert: gry/smoke, sharp, ns.
LS: tan/lt gry, fn xln, foss crin/brach/frags, mostly dense, sm chlky/brittle, fw flakey/mealy, tr/? intxln por, fw pcs pur chlk, ns.
LS: lt tan/lt gry, fn xln, fw foss frags, mostly dense, sm brittle, sm chlky, 2-3 pcs w/ fr intxln por w/ ssfo, fw Chert: wht/opaque, foss sharp.
LS: tan/lt gry, fn-crs xln, sm foss crin/brach, sm dense, mostly brittle, fw chlky, fr intxln/intfoss por, dul yel flour, strm cut, fr-gd sfo, gd cup odr
LS: tan/gry, sm mott, fn xln, mostly dense, sm flakey/mealy, sm hard, fw brittle, tr-nvp, 1-2 pcs w/ pr intxln por lght brn stns, scat dul yel fluor, vssfo.
LS: gry/tan, fn xln, v fw foss frags, mostly dense, sm hard, fw pcs brittle/fiable, tr-nvp, fw chlky/brittle, fw SH: gry/grn, silty, fw fissile, easy-med crush, ns.
LS: gry/tan, fn xln, sm foss crin/brach/frags, mostly dense, sm hard, fw pcs brittle, fw pcs flakey/mealy, sm chlky, tr-nvp, sm SH: gry/grn/blk, silty, fw fissile, sm carb, ns.

SH: blk/gry/grn, silty, v fw fissile, mostly med crush, mostly carb, sm LS: tan/lt gry, fn xln, mostly dense, sm hard, fw flakey/mealy, tr-nvp, ns.
LS: lt tan/lt gry, micro-fn xln, fw foss frags, mostly dense, sm brittle, sm chlky, gd large intxln/nr vuggy por w/ fr-gd sfo, du yel fluor, strm cut, strng cup odr.
LS: fw pcs like disc above, mostl lt gry/lt tan, fn xln, mostly dense, sm flakey/mealy, sm chlky, mostly brittle/friable, tr-nvp, ns.
LS: tan/lt gry, fn xln, mostly dense, sm flakey/mealy, mostly hard, fw brittle/chlky, tr-nvp, sm Chert: wht/gry, sharp, ns.

LS: tan/lt gry, fn xln, mostly dense, tr-nvp, fw pcs LS: tan, fn xln, mostly dense, sm ppt-intxln por w/ rare vug por, ssfo, only 3-4 pcs/try, abund SH: blk, carb.
LS: lt tan/lt gry, micro-fn xln, fw foss frags, mostly dense, mostly chlky, sm brittle, tr-nvp, sm Chert: gry/smoke, sharp, sm SH: blk, silty, carb, ns.
LS: lt gry/tan, fn xln, v fw foss frags, mostly dense, sm hard, sm brittle, tr-nvp, fw chlky pcs, sm SH: gry/brn, silty, fw fissile, med crush, ns.

Muncie Creek SH 4197' (-1121)

DST #2 "KC I Zone" 4235-4255'
01/03/13
1st Open: Wk Surf Blw built to 1/2" (No BB)
2nd Open: VWk Surf Blw built to 1/4" (No BB)
IFP = 15-29# ISIP = 958# FFP = 30-38# FSIP = 901#
HYP = 1970-1943#
15' Total Fluid, 15' Mud (Slight odor w/ slick of oil)

CFS @ 4255' (30"/60)

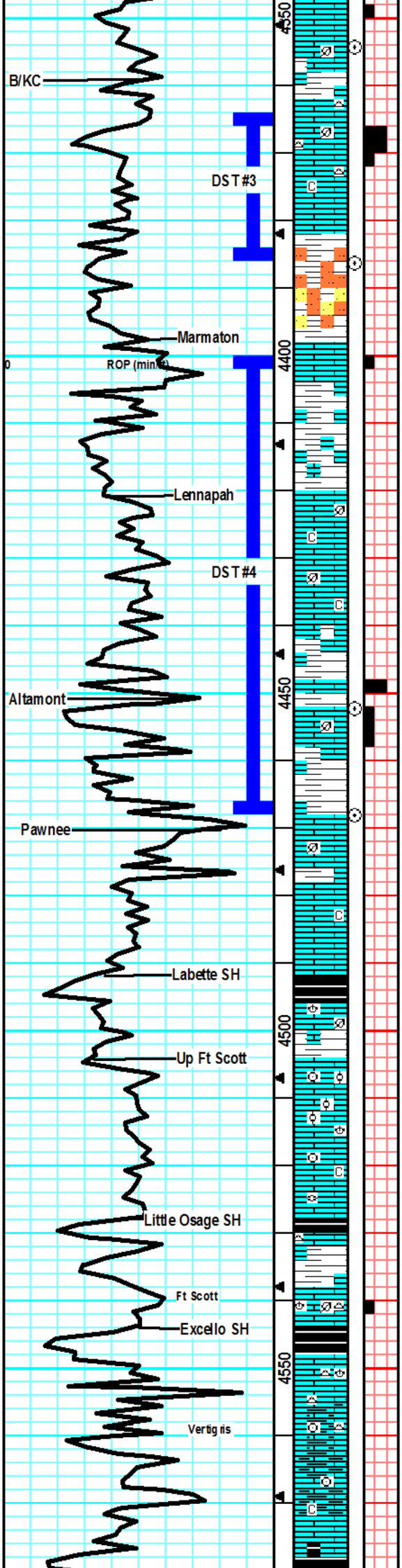
Mud-Co Check #7 @ 4255'
01/03/13 11:30am

wt	vis	pH	chl
9.0	57	11.0	7,400
Filt	LCM		
7.2	5#		

Stark SH 4286' (-1210)

DST #3 "Pleasanton" 4364-4386'
01/04/13
1st Open: Strg Surf Blw built to BOB in 5.5" (6" BB)
2nd Open: Strg Surf Blw built to BOB in 14" (5 BB)
IFP = 28-110# ISIP = 209# FFP = 115-168# FSIP = 210#
HYP = 2090-2071#
369' Total Fluid, 141' GO (75% Oil), 47' Lost Down Hole (GO?), 181' GHOCM (15% Gas, 30% Oil)

Hushpuckney SH 4329' (-1253)



LS: tan/lt gry, fn xln, fw foss frags, mostly dense, fw flakey/mealy, sm chlky, tr-nvp, fw pcs w/ v lght brn stns, nsfo, fw pcs pur chlk.
LS: lt tan/lt gry, fn xln, fw foss frags, mostly dense, fw flakey/mealy, sm chlky, sm brittle, tr-nvp, v fw SH: gry/brn/grn, silty, easy-med crush, ns.
LS: lt gry/tan, fn xln, fw foss frags, mostly dense, sm flakey/mealy, sm chlky, fw brittle, tr-nvp, fw Chert: wht/opaque, sharp, ns.
LS: tan/lt tan, fn xln, sm dense, mostly brittle, fw chlky, pr fn intxln/fr vug por in svrl pcs, ssfo in 15-20 pcs/try, dul yel fluor, strm cut, fr-gd cup odr.
SH: gry/brn/grn, silty, mostly soft, sm SltStn: gry, very soft, sm muddy, like, fw LS: tan, fn xln, dense, tr-nvp, ns.

LS: tan/lt tan, fn-crs xln, mostly dense, sm flakey/mealy, sm hard, tr-nvp, sm SH; gry/grn, silty, sm fissile, easy-med crush, fw SltStn: gry/brn, soft, sm muddy, fw SS: tan, fn grn, arg, tr-nvp, ns.
LS: tan, fn xln, mostly dense, sm flakey/mealy, fw hard, 1-2 pcs w/ pr intxln por, vssfo, wk fluor, pos from up hole, svrl SH/SltStn: gry/brn, silty, sm soft, sm muddy.

LS: tan/gry, fn-crs xln, fw foss brach/crin, mostly dense, sm brittle, fw flakey/mealy, tr-nvp, sm SH; gry/brn, silty, fw fissile, easy-med crush, ns.
LS: tan/lt gry, fn xln, fw foss frags, fw dense, sm brittle, fw chlky, tr/? intxln por in sm, fw SH: gry/grn, silty, easy-med crush, ns.
LS: tan/gry, fn-crs xln, mostly dense, sm flakey/mealy, sm brittle, fw hard, tr/? intxln por in sm, fw SH: gry/brn, silty, sm fissile, med crush, ns.
LS: tan/gry, fn-crs xln, mostly dense, fw brittle, fw flakey/mealy, 4-5 pcs/try, w/ pr vug por, vssfo, fw SH: gry/brn, silty, easy-med crush.
LS: tan, fn-crs xln, mostly dense, fw flakey/mealy, sm brittle, fw pcs w/ pr intxln por, sm gd vug por w/ 2nd rxln in 4-5 pcs/try, fr sfo, sm cup odr.
LS: tan/lt tan, fn xln, sm foss, sm dense, sm brittle, sm fr fn intxln por/sm pr intfoss por, sm lght brn stns, ssfo, dul yel fluor, strm cut.
Mostly SH: gry/grn/brn, silty, sm fissile, easy-med crush, fw LS: tan, fn xln, fw foss, sm dense, sm brittle, sm pcs fn intxln por, 1-2 pcs w/ vssfo.
LS: lt tan/lt gry, fn xln, fw foss frags, mostly dense, mostly brittle, sm chlky, fw flakey/mealy, fw hard, tr-nvp, fw SH: gry/grn/brn, silty, med crush, ns.

LS: lt tan/lt gry, fn xln, mostly dense, mostly brittle, sm chlky, fw flakey/mealy & hard, tr/? intxln por in sm, fw pcs pur chlk, fw SH: gry/brn, silty, ns.
LS: gry/lt tan, fn xln, fw foss brach/frags, sm ool, sm dense, sm brittle, fw chlky, fw hard, tr-nvp, sm SH: gry/brn/blk, silty, sm carb, med crush, ns.
LS: gry/tan, fn xln, mostly dense, sm uniformity, sm hard, fw flakey/mealy, tr-nvp, abund SH: gry/brn, silty, sm fissile, easy-med crush, ns.
LS: tan/gry, fw mott, sm foss brach/crin, fw ool, sm dense, sm brittle, sm chlky, tr-nvp, fw pcs pur chlk, fw SH: gry/brn, silty, fw fissile, med crush, ns.
LS: tan/gry, fn-crs xln, foss crin/brach/fuss, fw ool, sm dense, sm brittle, fw chlky, tr-nvp, fw pcs pur chlk, abund SH: gry/brn/grn/blk, silty, sm carb, easy-med crush, ns.

LS: tan/lt gry, fn xln, sm foss brach/crin/frags, mostly dense, sm brittle, fw hard, fw chlky, tr-nvp, sm Chert: gry/smoke, foss, sharp, svrl SH: gry/brn, silty, med crush, ns.

LS: tan/gry, fw mott, fn xln, fw foss brach/frags, sm ool, mostly dense, tr-nvp in most, 1-2 pcs w/ lght brn stns, wk fluor, slw cut, fw Chert: gry/smoke, foss, sharp, svrl SH: gry/brn/blk, silty, sm carb.
SH: gry/brn/blk, silty, fw fissile, sm carb, med crush, fw LS: lt tan, fn xln, foss, sm ool, mostly dense, tr-nvp, fw Chert: gry/smoke, foss, sharp, ns.
LS: gry/tan, fn xln, foss crin/brach/frags, sm ool, mostly dense, tr-nvp, fw pcs chlk, abund SH: gry/grn/brn, silty, sm fissile, easy-med crush, ns.

SH: gry/grn/brn, silty, sm fissile, easy-med crush, fw LS: tan/gry, fn xln, mostly dense, fw chlky, sm brittle, tr-nvp, ns.

CFS @ 4354' (30'/60")

Base of KC 4359' (-1283)

Mud-Co Check #8 @ 4360' 01/04/13
11:00am

wt	vis	pH	chl
9.0	67	11.0	7,000
Filt	LCM		
6.4	5#		

CFS @ 4386' (30"/60")

Marmaton 4397' (-1321)

DST #4 "Lennapah/Altamont"
4400-4468' 01/05/13
1st Open: Wk Surf Blw built to 3/4" then died at 15" (No BB)
2nd Open: Few bubbles, then No Blw (No BB)
IFP = 31-43# ISIP = 921# FFP = 46-53# FSIP = 755#
HYP = 2076-2065#
10' Total Fluid 50' GIP 10' GSOM
(Scum of Oil w/ Gas Odor)

Mud-Co Check #9 @ 4452'
01/05/13 11:40am

wt	vis	pH	chl
8.9	56	10.5	7,700
Filt	LCM		
7.2	5#		

CFS @ 4452' (30"/60")

CFS @ 4468' (30"/60")

Pawnee 4470' (-1394)

Labette SH 4492' (-1416)

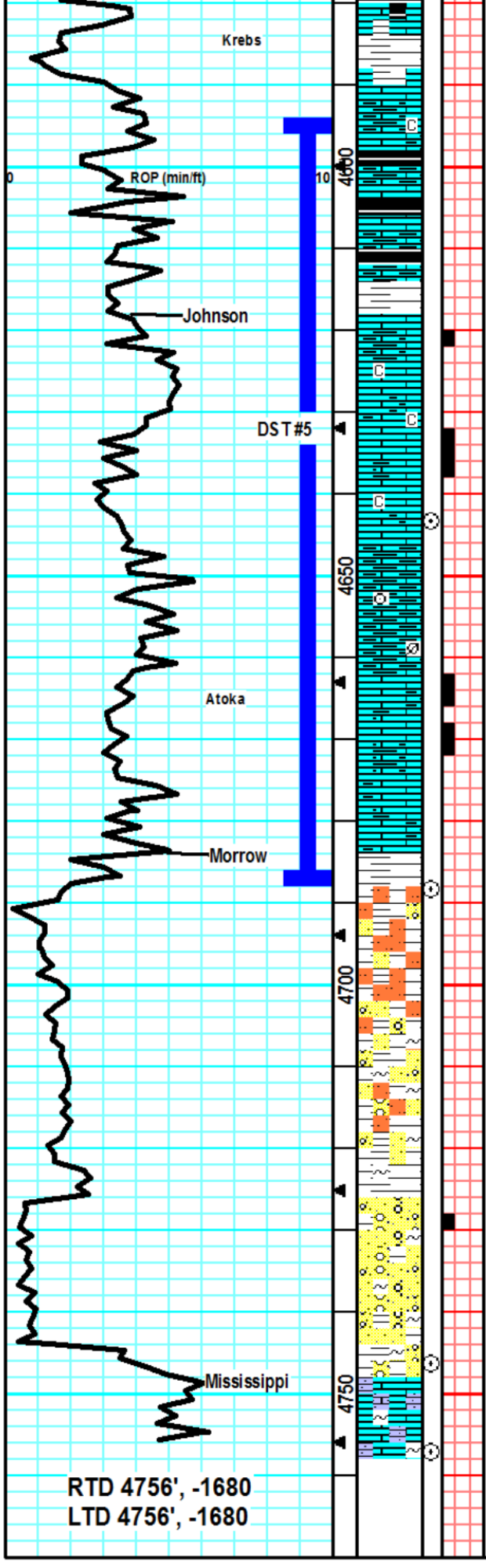
Up Ft Scott 4504' (-1426)

Little Osage SH 4528' (-1452)

Excello SH 4544' (-1468)

Mud-Co Check #10 @ 4562'
01/06/13 11:00am

wt	vis	pH	chl
9.0	58	11.0	8,000
Filt	LCM		
6.4	6#		



SH: gry/grn/drk gry/brn, silty, sm fissile, sm waxy, easy-med crush, fw LS: gry/tan, fn xln, mostly dense, sm chlky, fw v ool, sm pr intool por, ns.

SH: gry/brn/grn/blk, silty, sm fissile, fw carb, mostly med crush, fw LS: gry/tan, fn xln, fw foss crin/frags, mostly dense, sm chlky, tr-nvp, ns.

SH: gry/brn/grn, silty, sm fissile, med crush, fw LS: gry/lt tan, fn-crs xln, foss crin/brach/frags, sm flakey/mealy, sm brittle, tr-nvp, ns.

SH: gry/brn/grn, silty, sm fissile, easy-med crush, fw LS: tan/gry, fn xln, mostly dense, fw flakey/mealy, fw hard, tr-nvp, ns.

LS: tan/lt tan, fn xln, sm dense, mostly brittle, sm chlky, fw pcs w/ pr-fr fn intxln/rare pr vug por, ssfo 4-5 pcs/try, svrl SH: gry/brn, silty, easy-med crush.

LS: lt tan/tan, fn xln, sm dense, mostly brittle, fw chlky, fw pcs w/ pr intxln por, vssfo, lght brn stns on fw pcs/try, abund of SH: gry/brn, silty, sm fissile.

LS: tan/gry, fn xln, sm dense, few flakey/mealy, sm brittle, fw pcs w/ pr intxln por/sm scat vug por, 4-5 ssfo, fw pcs lght brn stns, abund SH: gry/brn.

SH: gry/brn/grn, silty, sm fissile, easy-med crush, fw LS: tan, fn xln, mostly dense, fw chlky, fw pcs w/ pr intxln por, ns.

LS: gry/tan, fn xln, sm foss crin/frags, mostly dense, fw chlky, sm flakey/mealy, fw brittle, tr-nvp, abund of Shale: brn/red/gry, silty, sample quality is bad.

LS: lt gry/lt tan, fn xln, mostly dense, mostly brittle, fw chlky, sm pr-fr intxln por, ssfo in 3-4 pcs/try, dul yel fluor, stream cut, abund SH: brn/gry, silty.

LS: tan/lt tan, fn xln, sm dense, sm chlky, 2-3 pcs w/ fr itnxln/pr vug por, vssfo, dyl yel fluor, strm cut, abund of Shale: brn/red/gry, sample quality is bad.

LS: tan/lt tan, fn xln, sm dense, 1-2 pcs w/ vssfo, much like above, mostly SH: brn/gry, sm soft, fw SltStn: gry/brn, soft, sm muddy like.

SH: gry/brn, silty, fw fissile, easy-med crush, sm SltStn: brn/lt brn/gry, soft, sm muddy, v fw LS: lt tan, fn xln, mostly dense, sm brittle, tr-nvp.

SH: gry/grn/brn/olive, silty, sm fissile, easy-med crush, fw SltStn: gry/grn/brn, soft, sm muddy, fw SS: gry/blu/wht, fn grn, arg, soft, tr-nvp, ns.

SH: gry/brn/gry, silty, sm fissile, easy-med crush, svrl SS: wht/blu, fn grn, arg, hard, glauc, tr-nvp, no fluor/cut under crush, ns.

SS: blu/grn, fn grn, arg, hard, galuc, tr-nvp, no fluor/cut under crush, fw SH: gry/grn/brn, silty, sm fissile, fw SltStn: gry/tan, soft, muddy, ns.

SS: blu/grn/wht, fn grn, well srted, mostly arg, sm hard, fw pcs/ w/ pr intgrn por, aftercrushing under water, 1 small dropplet of oil was found, vssfo.

SS: blu/grn/wht, fn grn, fw crs grn, mostly well sort, mostly arg, fw pcs w/ pr intgrn, por, no fluor/cut, after crush, nsfo, fw chlky/muddy.

SS: blu/grn/wht, fn grn, fw crs xln, mostly well sorted, most arg, fw pcs w/ por intgrn por, no fluor/cut after crush, nsfo, sm LS: wht/crm, fn xln, sandy/gritty, brittle, tr-nvp, ns.

LS: crm/lt tan, fn xln, mostly brittle, mostly sandy/gritty, tr-nvp, sm SS: blu/grn/wht, fn grn, well srtd, glauc, tr-nvp, abund SH: gry/brn, silty, sm fissile, ns.

Sample Quality was bad...abund of Shale in the samples.

Johnson 4618' (-1542)

Sample Quality was bad...abund of Shale in the samples.

CFS @ 4643' (30"60")

DST#5 "Johnson/Atoka"
4595-4688' 01/07/13
1st Open: Strg Surf Blw built to BOB in 24" (1/2 BB)
2nd Open: Strg Surf Blw built to BOB in 8.5" (No BB)
IFP = 23-47# ISIP = 378#
FFP = 46-69# FSIP = 402#
HYP = 2207-2156#
145' Total Fluid 1040' GIP
145' SOSM (Oil 1%)

Morrow 4684' (-1608)

CFS @ 4688' (30"/60")

Mud-Co Check #11 @ 4688'
01/07/13 10:00am

wt	vis	pH	chl
9.2	68	11.0	8,000
Filt	LCM		
7.6	6#		

Stuck and 4741' @ 7:55pm 01/07/13
Spotted 60bbl Oil, ran in sm every 1/2hr and work kelly, down for total of 7.5hrs.

CFS @ 4746' (30"/60")

Mississippi 4748' (-1672)

CFS @ 4756 After being stuck for 2 hrs to condition the hole.

Survey @ 4756' = 1 1/4 Degrees

DIAMOND TESTING

Pressure Survey Report

General Information

Company Name	**GRAND MESA OPERATING COMPANY**	**Job Number**	**M452**
Well Name	**DBY #4-16**	**Representative**	**MIKE COCHRAN**
Unique Well ID	**DST#1 4110-4135 "F"**	**Well Operator**	**GRAND MESA OPERATING COMPANY**
Surface Location	**SEC.16-16S-33W SCOTT CO.KS.**	**Report Date**	**2013/01/02**
Field	**WILDCAT**	**Prepared By**	**MIKE COCHRAN**
Well Type	**Vertical**	**Qualified By**	**JOHN GOLDSMITH**
		Test Unit	**NO. 1**

Test Information

Test Type	**CONVENTIONAL**
Formation	**DST#1 4110-4135 "F"**
Test Purpose (AEUB)	**Initial Test**

Start Test Date	**2013/01/02**	**Start Test Time**	**08:55:00**
Final Test Date	**2013/01/02**	**Final Test Time**	**18:20:00**
		Well Fluid Type	**01 Oil**

Gauge Name	**0063**
Gauge Serial Number	

Test Results

Remarks **RECOVERED:**

450' GMW 2% GAS, 90% WTR, 8% MUD W/ A SCUM OF OIL (331' DP, 119'DC)

450' TOTAL FLUID

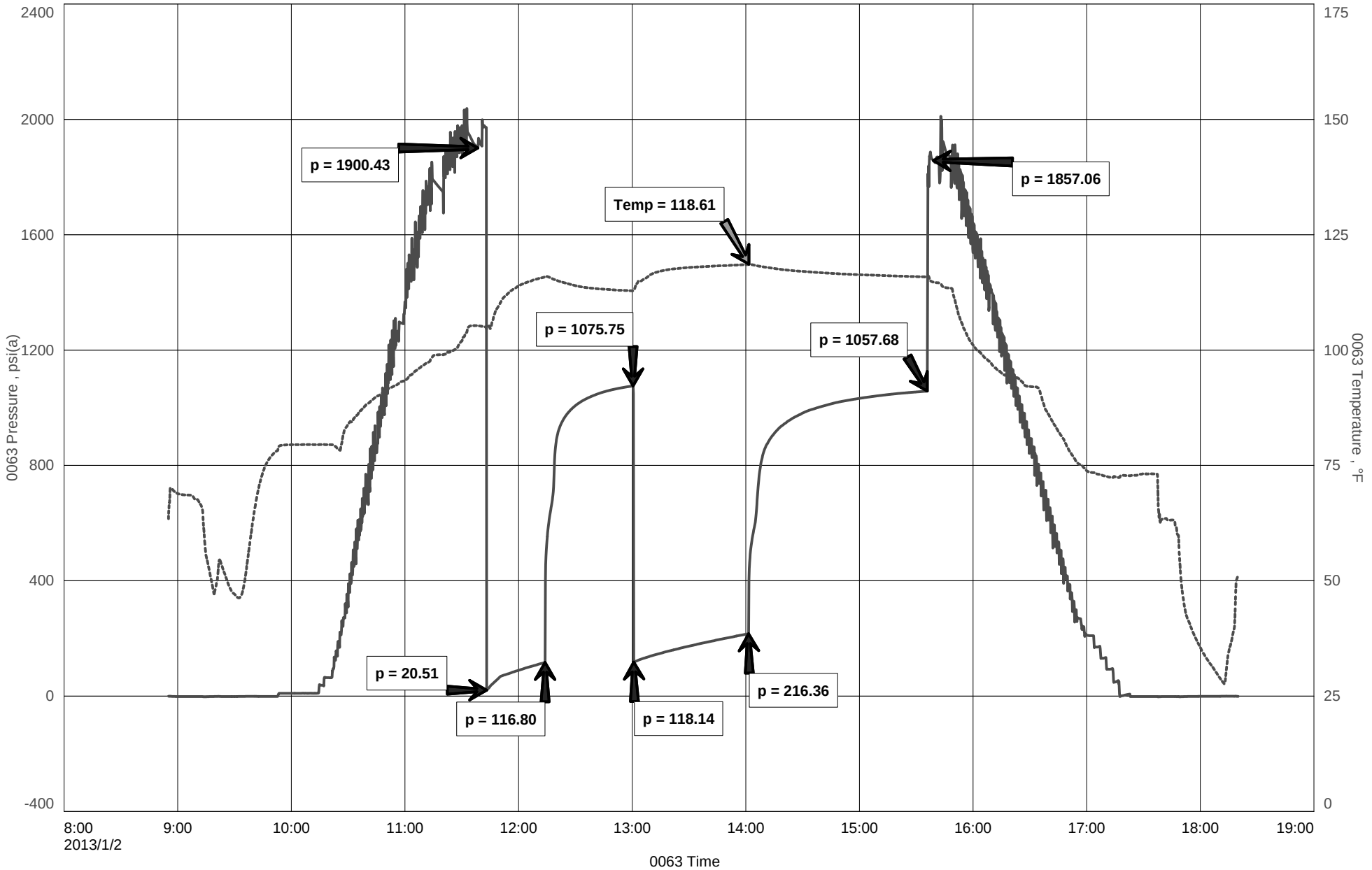
CHLOR: 22,000 PPM
PH:7.0
RW: .45 @ 45 DEG

TOOL SAMPLE: 2% GAS, 93% WTR, 5% MUD W/ A THIN SCUM OF OIL

GRAND MESA OPERATING COMPANY
DST#1 4110-4135 "F"
Start Test Date: 2013/01/02
Final Test Date: 2013/01/02

DBY #4-16
Formation: DST#1 4110-4135 "F"
Pool: WILDCAT
Job Number: M452

DBY #4-16



DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313

DRILL-STEM TEST TICKET
FILE: DBY4-16DST1

TIME ON: 0855
TIME OFF: 1820

Company GRAND MESA OPERATING COMPANY Lease & Well No. DBY #4-16

Contractor MURPHIN 24 Charge to GRAND MESA OPERATING COMPANY

Elevation 3076 KB Formation "F" Effective Pay Ft. Ticket No. M452

Date 1/02/2013 Sec. 16 Twp. 16 S Range 33 W County SCOTT State KANSAS

Test Approved By JOHN GOLDSMITH Diamond Representative MIKE COCHRAN

Formation Test No. 1 Interval Tested from 4110 ft. to 4135 ft. Total Depth 4135 ft.

Packer Depth 4105 ft. Size 6 3/4 in. Packer depth NA ft. Size 6 3/4 in.

Packer Depth 4110 ft. Size 6 3/4 in. Packer depth NA ft. Size 6 3/4 in.

Depth of Selective Zone Set

Top Recorder Depth (Inside) 4092 ft. Recorder Number 0063 Cap. 6,000 P.S.I.

Bottom Recorder Depth (Outside) 4132 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 80+ Drill Collar Length 119 ft. I.D. 2 1/4 in.

Weight 8.9 Water Loss 5.6 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in

Chlorides 6,500 P.P.M. Drill Pipe Length 3964 ft. I.D. 3 1/2 in

Jars: Make STERLING Serial Number 1 Test Tool Length 27 ft. Tool Size 3 1/2-IF in

Did Well Flow? NO Reversed Out NO Anchor Length 25 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: WSB, INC. TO BOB 28½ MIN (VWS BB)

2nd Open: WSB, INC. TO BOB 41 MIN (NO BB)

Recovered 450 ft. of GMW 2% GAS, 90% WTR, 8% MUD W/ A SCUM OF OIL (331' DP, 119'DC)

Recovered 450 ft. of TOTAL FLUID

Recovered ft. of

Recovered ft. of CHLOR: 22,000 PPM

Recovered ft. of PH: 7.0

Recovered ft. of RW: .45 @ 45 DEG

Remarks:

TOOL SAMPLE: 2% GAS, 93% WTR, 5% MUD W/ A THIN SCUM OF OIL

Price Job	
Other Charges	
Insurance	
Total	

Time Set Packer(s) 11:45 A.M. A.M. P.M. Time Started Off Bottom 3:30 P.M. A.M. P.M. Maximum Temperature 119

Initial Hydrostatic Pressure..... (A) 1900 P.S.I.

Initial Flow Period..... Minutes 30 (B) 21 P.S.I. to (C) 117 P.S.I.

Initial Closed In Period..... Minutes 45 (D) 1076 P.S.I.

Final Flow Period..... Minutes 60 (E) 118 P.S.I. to (F) 216 P.S.I.

Final Closed In Period.....Minutes 90 (G) 1058 P.S.I.

Final Hydrostatic Pressure..... (H) 1857 P.S.I.

DIAMOND TESTING

Pressure Survey Report

General Information

Company Name	**GRAND MESA OPERATING COMPANY**	**Job Number**	**M454**
Well Name	**DBY #4-16**	**Representative**	**MIKE COCHRAN**
Unique Well ID	**DST#2 4235-4255 "I"**	**Well Operator**	**GRAND MESA OPERATING COMPANY**
Surface Location	**SEC.16-16S-33W SCOTT CO.KS.**	**Report Date**	**2013/01/03**
Field	**WILDCAT**	**Prepared By**	**MIKE COCHRAN**
Well Type	**Vertical**	**Qualified By**	**JOHN GOLDSMITH**
		Test Unit	**NO. 1**

Test Information

Test Type	**CONVENTIONAL**
Formation	**DST#2 4235-4255 "I"**
Test Purpose (AEUB)	**Initial Test**

Start Test Date	**2013/01/03**	**Start Test Time**	**11:55:00**
Final Test Date	**2013/01/03**	**Final Test Time**	**17:20:00**
		Well Fluid Type	**01 Oil**

Gauge Name	**0063**
Gauge Serial Number	

Test Results

Remarks **RECOVERED:**

15' DM 100% DRLG MUD W/ SLIGHT ODOR & SMALL SLICK OF TARRY OIL

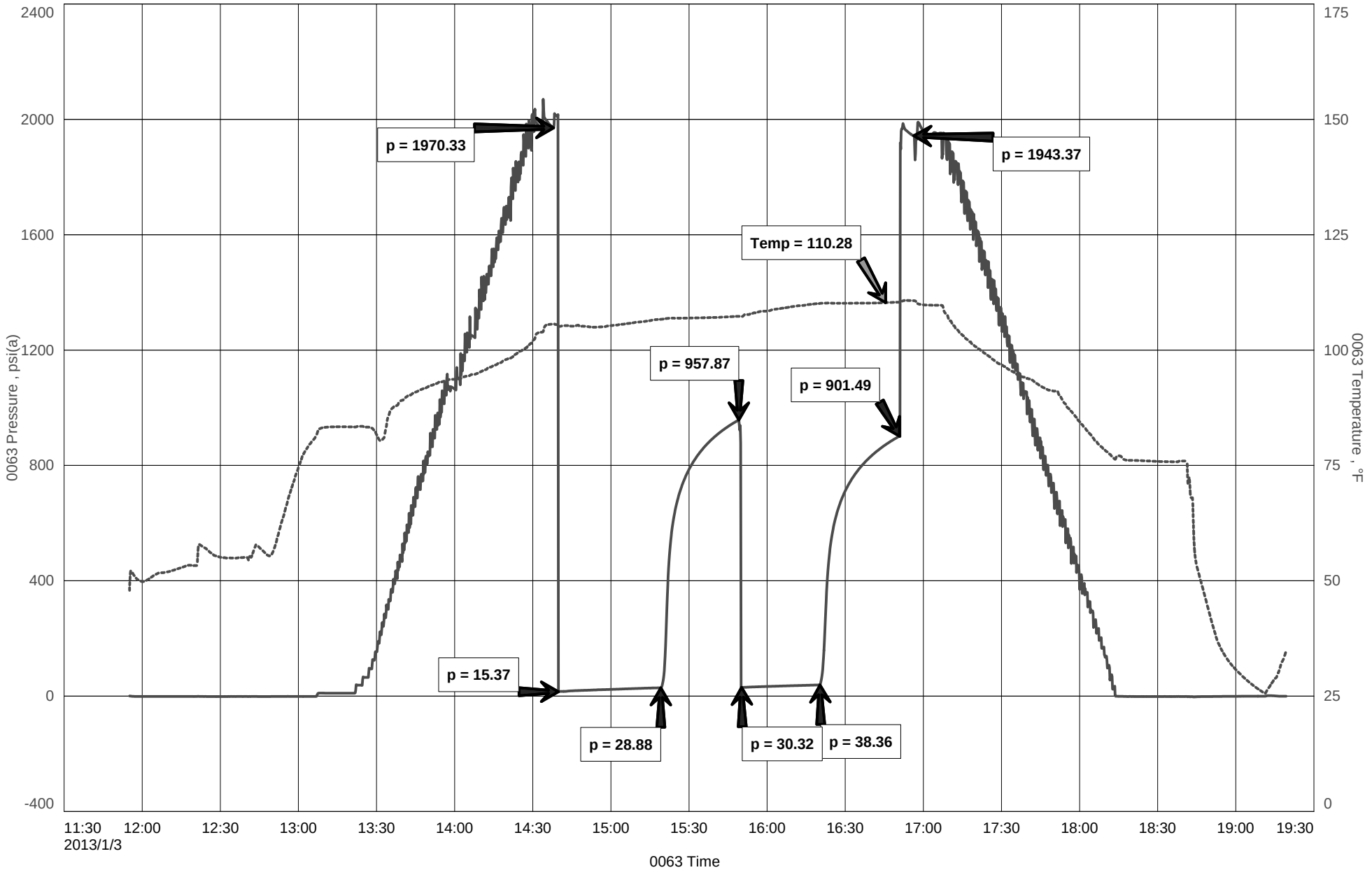
15' TOTAL FLUID

TOOL SAMPLE: 100% DRLG MUD W/ A FEW GASSY BUBBLES & SOME SPOTS OF OIL

GRAND MESA OPERATING COMPANY
DST#2 4235-4255 "I"
Start Test Date: 2013/01/03
Final Test Date: 2013/01/03

DBY #4-16
Formation: DST#2 4235-4255 "I"
Pool: WILDCAT
Job Number: M453

DBY #4-16



DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313

DRILL-STEM TEST TICKET
FILE: DBY4-16DST2

TIME ON: 1155
TIME OFF: 1920

Company GRAND MESA OPERATING COMPANY Lease & Well No. DBY #4-16
Contractor MURPHIN 24 Charge to GRAND MESA OPERATING COMPANY
Elevation 3076 KB Formation "I" Effective Pay Ft. Ticket No. M453
Date 1/03/2013 Sec. 16 Twp. 16 S Range 33 W County SCOTT State KANSAS
Test Approved By JOHN GOLDSMITH Diamond Representative MIKE COCHRAN

Formation Test No. 2 Interval Tested from 4235 ft. to 4255 ft. Total Depth 4255 ft.
Packer Depth 4230 ft. Size 6 3/4 in. Packer depth NA ft. Size 6 3/4 in.
Packer Depth 4235 ft. Size 6 3/4 in. Packer depth NA ft. Size 6 3/4 in.
Depth of Selective Zone Set

Top Recorder Depth (Inside) 4217 ft. Recorder Number 0063 Cap. 6,000 P.S.I.
Bottom Recorder Depth (Outside) 4252 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 65 Drill Collar Length 119 ft. I.D. 2 1/4 in.
Weight 8.8 Water Loss 7.2 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in
Chlorides 7,400 P.P.M. Drill Pipe Length 4089 ft. I.D. 3 1/2 in
Jars: Make STERLING Serial Number 1 Test Tool Length 27 ft. Tool Size 3 1/2-IF in
Did Well Flow? NO Reversed Out NO Anchor Length 20 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: WSB THAT INC. TO & MAINTAINED A WEAK ½" BLOW (NO BB)
2nd Open: A VWSB THAT INC. TO ¼" (NO BB)

Recovered 15 ft. of DM 100% DRLG MUD W/ SLIGHT ODOR & SMALL SLICK OF TARRY OIL ON TOP OF TOOL
Recovered 15 ft. of TOTAL FLUID
Recovered ft. of
Recovered ft. of
Recovered ft. of
Recovered ft. of
Recovered ft. of
Remarks:

TOOL SAMPLE: 100% DRLG MUD W/ A FEW GASSY BUBBLES & SOME SPOTS OF OIL

Price Job	
Other Charges	
Insurance	
Total	

Time Set Packer(s) 2:45 P.M. A.M. P.M. Time Started Off Bottom 4:45 P.M. A.M. P.M. Maximum Temperature 110°F

Initial Hydrostatic Pressure ..... (A) 1970 P.S.I.
Initial Flow Period ..... Minutes 30 (B) 15 P.S.I. to (C) 29 P.S.I.
Initial Closed In Period ..... Minutes 30 (D) 958 P.S.I.
Final Flow Period ..... Minutes 30 (E) 30 P.S.I. to (F) 38 P.S.I.
Final Closed In Period ..... Minutes 30 (G) 901 P.S.I.
Final Hydrostatic Pressure ..... (H) 1943 P.S.I.

DIAMOND TESTING

Pressure Survey Report

General Information

Company Name	**GRAND MESA OPERATING COMPANY**	**Job Number**	**M454**
Well Name	**DBY #4-16**	**Representative**	**MIKE COCHRAN**
Unique Well ID	**DST#3 4364-4386 PLEASANTON**	**Well Operator**	**GRAND MESA OPERATING COMPANY**
Surface Location	**SEC.16-16S-33W SCOTT CO.KS.**	**Report Date**	**2013/01/05**
Field	**WILDCAT**	**Prepared By**	**MIKE COCHRAN**
Well Type	**Vertical**	**Qualified By**	**JOHN GOLDSMITH**
		Test Unit	**NO. 1**

Test Information

Test Type	**CONVENTIONAL**
Formation	**DST#3 4364-4386 PLEASANTON**
Test Purpose (AEUB)	**Initial Test**

Start Test Date	**2013/01/04**	**Start Test Time**	**15:45:00**
Final Test Date	**2013/01/05**	**Final Test Time**	**01:20:00**
		Well Fluid Type	**01 Oil**

Gauge Name	**0063**
Gauge Serial Number	

Test Results

Remarks **RECOVERED:**

1331' GIP
141' GO 25% GAS, 75% OIL
47' LOST DOWN HOLE (EST TO BE CLEAN GASSY OIL)
181' GHOCM 15% GAS, 30% OIL, 55% MUD (62'D.P. 119'DC)
369' TOTAL FLUID

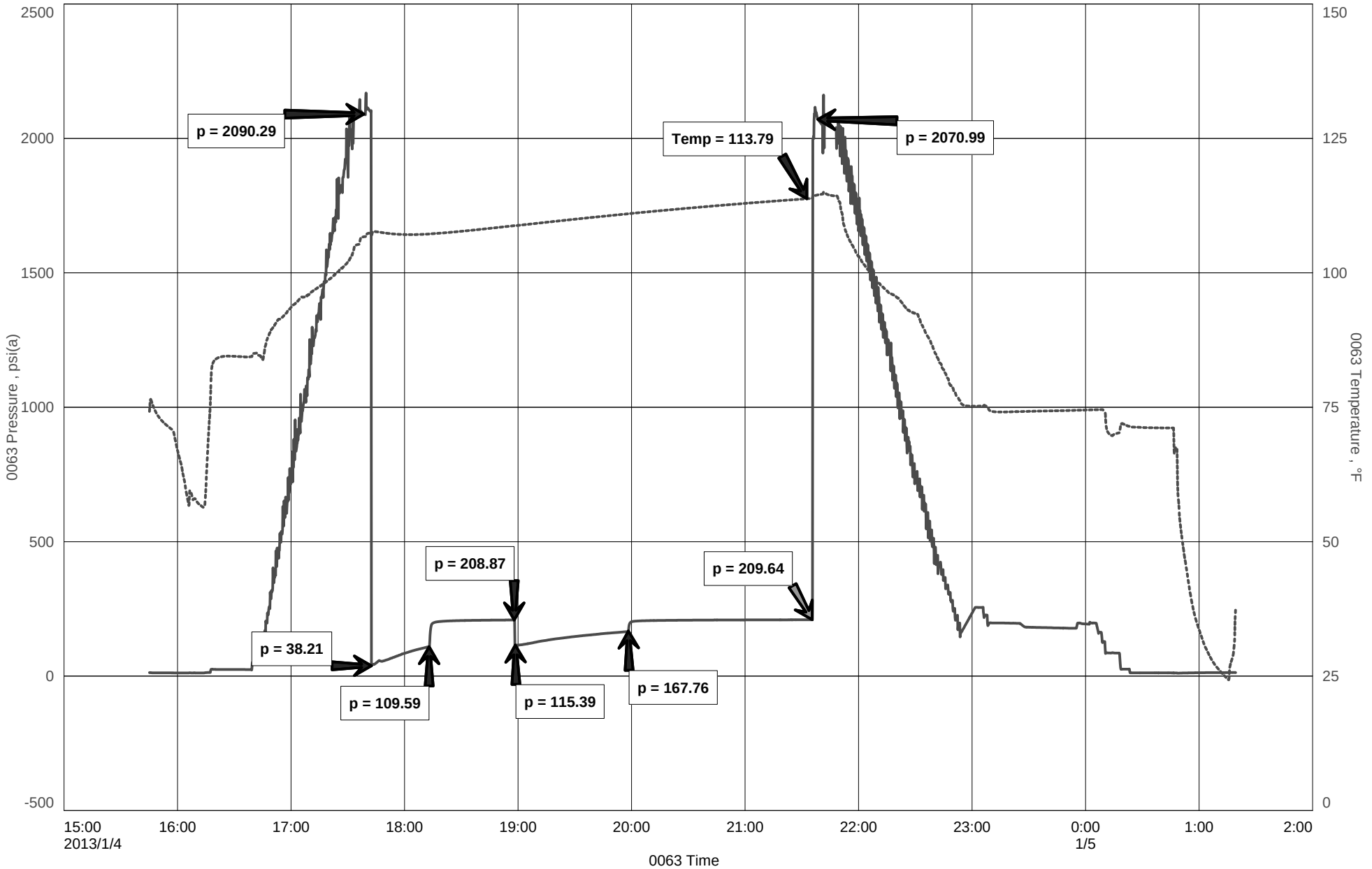
GRAVITY: 38.2 @ 60

TOOL SAMPLE: 5% GAS,60% OIL, 35% MUD

GRAND MESA OPERATING COMPANY
DST#3 4364-4386 PLEASANTON
Start Test Date: 2013/01/04
Final Test Date: 2013/01/05

DBY #4-16
Formation: DST#3 4364-4386 PLEASANTON
Pool: WILDCAT
Job Number: M454

DBY #4-16



DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313

DRILL-STEM TEST TICKET
FILE: DBY4-16DST3

TIME ON: 1545 (1/4)
TIME OFF: 0120 (1/5)

Company GRAND MESA OPERATING COMPANY Lease & Well No. DBY #4-16

Contractor MURPHIN 24 Charge to GRAND MESA OPERATING COMPANY

Elevation 3076 KB Formation PLEASANTON Effective Pay _____ Ft. Ticket No. M454

Date 1/04/2013 Sec. 16 Twp. 16 S Range 33 W County SCOTT State KANSAS

Test Approved By JOHN GOLDSMITH Diamond Representative MIKE COCHRAN

Formation Test No. 3 Interval Tested from 4364 ft. to 4386 ft. Total Depth 4386 ft.

Packer Depth 4359 ft. Size 6 3/4 in. Packer depth NA ft. Size 6 3/4 in.

Packer Depth 4364 ft. Size 6 3/4 in. Packer depth NA ft. Size 6 3/4 in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 4366 ft. Recorder Number 0063 Cap. 6,000 P.S.I.

Bottom Recorder Depth (Outside) 4383 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 67 Drill Collar Length 119 ft. I.D. 2 1/4 in.

Weight 9.0 Water Loss 6.4 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in

Chlorides 7,000 P.P.M. Drill Pipe Length 4218 ft. I.D. 3 1/2 in

Jars: Make STERLING Serial Number 1 Test Tool Length 27 ft. Tool Size 3 1/2-IF in

Did Well Flow? NO Reversed Out YES Anchor Length 22 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: SSB, BOB 5½ MIN. (6" BB)

2nd Open: SSB, BOB 14 MIN (5" BB)

Recovered 1331 ft. of GIP

Recovered 141 ft. of GO 25% GAS, 75% OIL GRAVITY: 38.2 @ 60°

Recovered 47 ft. of LOST DOWN HOLE (EST TO BE CLEAN GASSY OIL)

Recovered 181 ft. of GHOCM 15% GAS, 30% OIL, 55% MUD (62'D.P. 119'DC)

Recovered 369 ft. of TOTAL FLUID

Recovered _____ ft. of _____

Remarks: WATER HAULER EST 2 BBL ON TRUCK 2 BBL/.0142 BBL/FT=141'

DROPPED BAR @ 369'

TOOL SAMPLE: 5% GAS,60% OIL, 35% MUD

Price Job	
Other Charges	
Insurance	
Total	

Time Set Packer(s) 5:45 P.M. A.M. P.M. Time Started Off Bottom 9:30 P.M. A.M. P.M. Maximum Temperature 114

Initial Hydrostatic Pressure..... (A) 2090 P.S.I.

Initial Flow Period..... Minutes 30 (B) 38 P.S.I. to (C) 110 P.S.I.

Initial Closed In Period..... Minutes 45 (D) 209 P.S.I.

Final Flow Period..... Minutes 60 (E) 115 P.S.I. to (F) 168 P.S.I.

Final Closed In Period.....Minutes 90 (G) 210 P.S.I.

Final Hydrostatic Pressure..... (H) 2071 P.S.I.

DIAMOND TESTING

Pressure Survey Report

General Information

Company Name	**GRAND MESA OPERATING COMPANY**	**Job Number**	**M455**
Well Name	**DBY #4-16**	**Representative**	**MIKE COCHRAN**
Unique Well ID	**DST#4 4400-4468 LENNAPAH/ALTAMONT**	**Well Operator**	**GRAND MESA OPERATING COMPANY**
Surface Location	**SEC.16-16S-33W SCOTT CO.KS.**	**Report Date**	**2012/01/05**
Field	**WILDCAT**	**Prepared By**	**MIKE COCHRAN**
Well Type	**Vertical**	**Qualified By**	**JOHN GOLDSMITH**
		Test Unit	**NO. 1**

Test Information

Test Type	**CONVENTIONAL**
Formation	**DST#4 4400-4468 LENNAPAH/ALTAMONT**
Test Purpose (AEUB)	**Initial Test**

Start Test Date	**2012/01/05**	**Start Test Time**	**15:45:00**
Final Test Date	**2012/01/05**	**Final Test Time**	**23:10:00**
		Well Fluid Type	**01 Oil**

Gauge Name	**0063**
Gauge Serial Number	

Test Results

Remarks **RECOVERED:**

50' GIP

10' SOSDM ~100%DM W/ A THIN SCUM OF OIL & GASSY ODOR

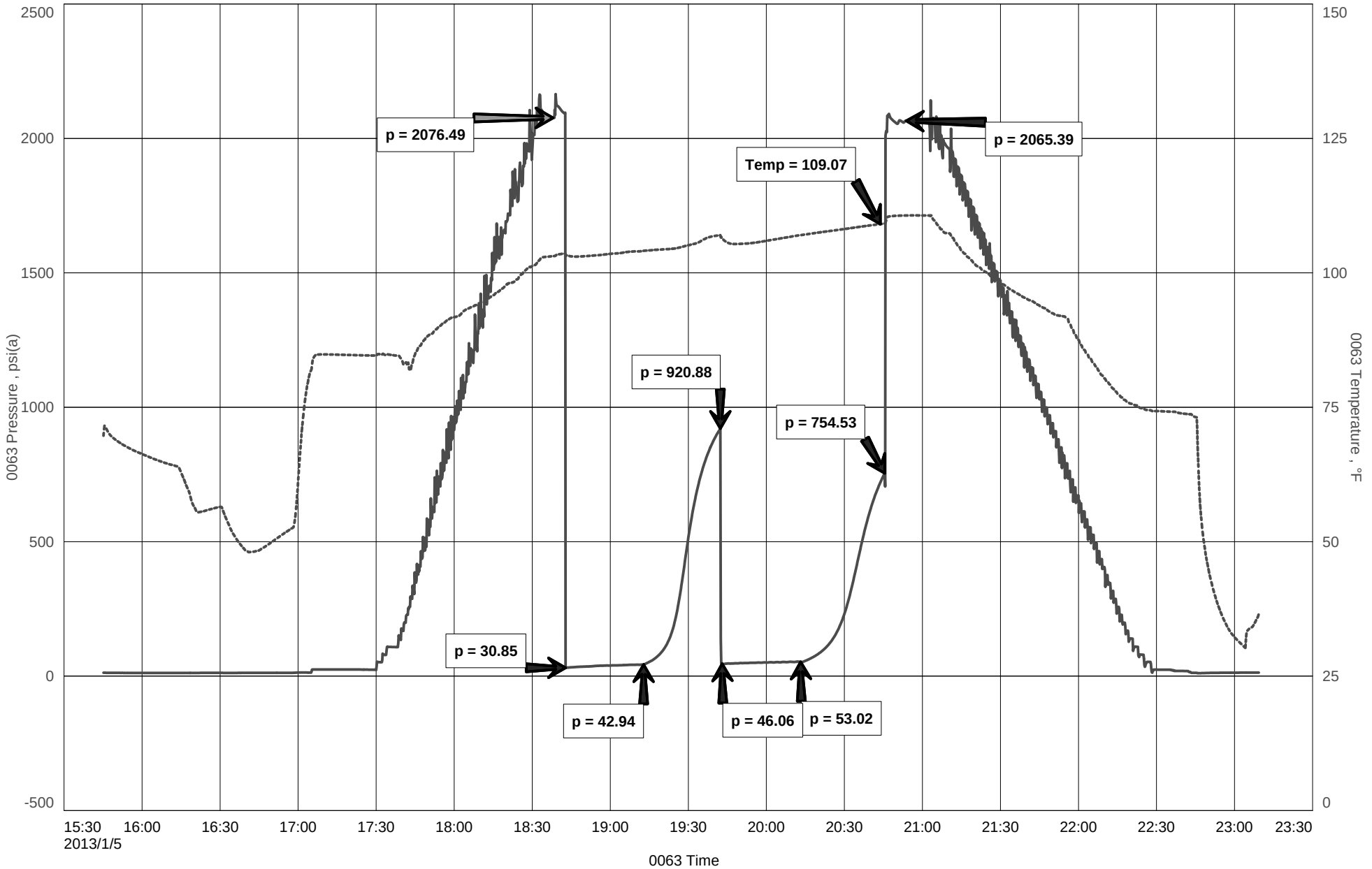
10' TOTAL FLUID

TOOL SAMPLE: ~100%DM W/ A THICK SCUM OF OIL & GASSY ODOR

GRAND MESA OPERATING COMPANY
DST#4 4400-4468 LENNAPAH/ALTAMONT
Start Test Date: 2012/01/05
Final Test Date: 2012/01/05

DBY #4-16
Formation: DST#4 4400-4468 LENNAPAH/ALTAMONT
Pool: WILDCAT
Job Number: M455

DBY #4-16



DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313

DRILL-STEM TEST TICKET
FILE: DBY4-16DST3

TIME ON: 1545
TIME OFF: 2310

Company GRAND MESA OPERATING COMPANY Lease & Well No. DBY #4-16

Contractor MURPHIN 24 Charge to GRAND MESA OPERATING COMPANY

Elevation 3076 KB Formation LENNAPAH/ALTAMONT Effective Pay _____ Ft. Ticket No. M455

Date 1/05/2013 Sec. 16 Twp. 16 S Range 33 W County SCOTT State KANSAS

Test Approved By JOHN GOLDSMITH Diamond Representative MIKE COCHRAN

Formation Test No. 4 Interval Tested from 4400 ft. to 4468 ft. Total Depth 4468 ft.

Packer Depth 4395 ft. Size 6 3/4 in. Packer depth NA ft. Size 6 3/4 in.

Packer Depth 4400 ft. Size 6 3/4 in. Packer depth NA ft. Size 6 3/4 in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 4402 ft. Recorder Number 0063 Cap. 6,000 P.S.I.

Bottom Recorder Depth (Outside) 4465 ft. Recorder Number 6884 Cap. 6,275 P.S.I.

Below Straddle Recorder Depth 4438 ft. Recorder Number E1150 Cap. 5,000 P.S.I.

Mud Type CHEM Viscosity 56 Drill Collar Length 119 ft. I.D. 2 1/4 in.

Weight 8.9 Water Loss 7.2 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in

Chlorides 7,700 P.P.M. Drill Pipe Length 4254 ft. I.D. 3 1/2 in

Jars: Make STERLING Serial Number 1 Test Tool Length 27 ft. Tool Size 3 1/2-IF in

Did Well Flow? NO Reversed Out NO Anchor Length 68 ft. Size 4 1/2-FH in

Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in. (31' DP) Surface Choke Size 1 in. Bottom Choke Size 5/8 in

Blow: 1st Open: WSB THAT BUILT TO ¾" IN 15 MIN DIMINISHING UNTIL DEAD @ SHUT IN (NO BB)

2nd Open: A FEW BUBBLES ON TOOL OPEN THEN NO BLOW (NO BB)

Recovered 50 ft. of GIP

Recovered 10 ft. of SOSDM ~100%DM W/ A THIN SCUM OF OIL & GASSY ODOR

Recovered 10 ft. of TOTAL FLUID

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Remarks: _____

TOOL SAMPLE: ~100%DM W/ A THICK SCUM OF OIL & GASSY ODOR

Price Job	
Other Charges	
Insurance	
Total	

Time Set Packer(s) 6:45 P.M. A.M. P.M. Time Started Off Bottom 8:45 P.M. A.M. P.M. Maximum Temperature 109

Initial Hydrostatic Pressure ..... (A) 2076 P.S.I.

Initial Flow Period ..... Minutes 30 (B) 31 P.S.I. to (C) 43 P.S.I.

Initial Closed In Period ..... Minutes 30 (D) 921 P.S.I.

Final Flow Period ..... Minutes 30 (E) 46 P.S.I. to (F) 53 P.S.I.

Final Closed In Period ..... Minutes 30 (G) 755 P.S.I.

Final Hydrostatic Pressure ..... (H) 2065 P.S.I.

DIAMOND TESTING

Pressure Survey Report

General Information

Company Name	**GRAND MESA OPERATING COMPANY**	**Job Number**	**M456**
Well Name	**DBY #4-16**	**Representative**	**MIKE COCHRAN**
Unique Well ID	**DST#5 4535-4688 JOHNSON/ATOKA**	**Well Operator**	**GRAND MESA OPERATING COMPANY**
Surface Location	**SEC.16-16S-33W SCOTT CO.KS.**	**Report Date**	**2013/01/07**
Field	**WILDCAT**	**Prepared By**	**MIKE COCHRAN**
Well Type	**Vertical**	**Qualified By**	**JOHN GOLDSMITH**
		Test Unit	**NO. 1**

Test Information

Test Type	**CONVENTIONAL**
Formation	**DST#5 4535-4688 JOHNSON/ATOKA**
Test Purpose (AEUB)	**Initial Test**

Start Test Date	**2013/01/06**	**Start Test Time**	**22:55:00**
Final Test Date	**2013/01/07**	**Final Test Time**	**13:45:00**
		Well Fluid Type	**01 Oil**

Gauge Name	**0069**
Gauge Serial Number	

Test Results

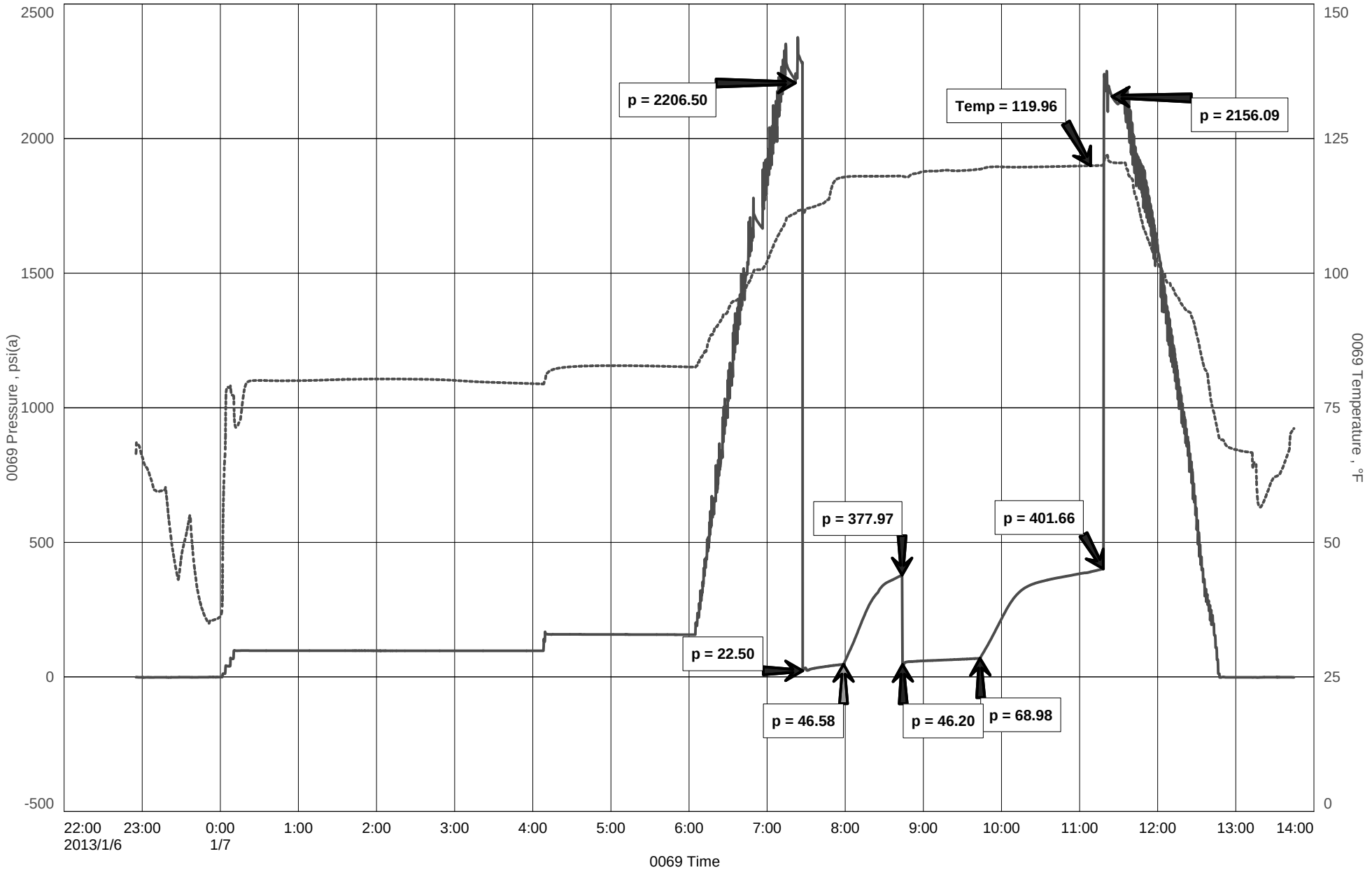
Remarks **RECOVERED:**
1040' GIP
145' SOSM 1% OIL, 99% MUD
145' TOTAL FLUID

TOOL SAMPLE: 10% GAS, 26% OIL, 18% EMULSIFIED OIL, 1% WTR, 45% MUD

GRAND MESA OPERATING COMPANY
DST#5 4535-4688 JOHNSON/ATOKA
Start Test Date: 2013/01/06
Final Test Date: 2013/01/07

DBY #4-16
Formation: DST#5 4535-4688 JOHNSON/ATOKA
Pool: WILDCAT
Job Number: M456

DBY #4-16



DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313

DRILL-STEM TEST TICKET
FILE: DBY4-16DST5

TIME ON: 2255 (1/6)
TIME OFF: 1345 (1/7)

Company GRAND MESA OPERATING COMPANY Lease & Well No. DBY #4-16

Contractor MURPHIN 24 Charge to GRAND MESA OPERATING COMPANY

Elevation 3076 KB Formation JOHNSON/ATOKA Effective Pay ____ Ft. Ticket No. M456

Date 1/06/2013 Sec. 16 Twp. 16 S Range 33 W County SCOTT State KANSAS

Test Approved By JOHN GOLDSMITH Diamond Representative MIKE COCHRAN

Formation Test No. 5 Interval Tested from 4595 ft. to 4688 ft. Total Depth 4688 ft.

Packer Depth 4590 ft. Size 6 3/4 in. Packer depth NA ft. Size 6 3/4 in.

Packer Depth 4595 ft. Size 6 3/4 in. Packer depth NA ft. Size 6 3/4 in.

Depth of Selective Zone Set ____

Top Recorder Depth (Inside) 4597 ft. Recorder Number 0063 Cap. 6,000 P.S.I.

Bottom Recorder Depth (Outside) 4685 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 58 Drill Collar Length 119 ft. I.D. 2 1/4 in.

Weight 9.0 Water Loss 6.4 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in

Chlorides 8,000 P.P.M. Drill Pipe Length 4449 ft. I.D. 3 1/2 in

Jars: Make STERLING Serial Number 1 Test Tool Length 27 ft. Tool Size 3 1/2-IF in

Did Well Flow? NO Reversed Out NO Anchor Length 93 ft. Size 4 1/2-FH in

Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in. (63' DP) Surface Choke Size 1 in. Bottom Choke Size 5/8 in

Blow: 1st Open: SSB, BOB 24 MIN (½" BB)

2nd Open: SSB, BOB 8½ MIN (NO BB)

Recovered 1040 ft. of GIP

Recovered 145 ft. of SOSM 1% OIL, 99% MUD

Recovered 145 ft. of TOTAL FLUID

Recovered ____ ft. of ____

Recovered ____ ft. of ____

Recovered ____ ft. of ____

Remarks: ____

TOOL SAMPLE: 10% GAS, 26% OIL, 18% EMULSIFIED OIL, 1% WTR, 45% MUD

Price Job	
Other Charges	
Insurance	
Total	

Time Set Packer(s) 7:30 A.M. A.M. P.M. Time Started Off Bottom 11:15 A.M. A.M. P.M. Maximum Temperature 120

Initial Hydrostatic Pressure..... (A) 2207 P.S.I.

Initial Flow Period..... Minutes 30 (B) 23 P.S.I. to (C) 47 P.S.I.

Initial Closed In Period..... Minutes 45 (D) 378 P.S.I.

Final Flow Period..... Minutes 60 (E) 46 P.S.I. to (F) 69 P.S.I.

Final Closed In Period..... Minutes 90 (G) 402 P.S.I.

Final Hydrostatic Pressure..... (H) 2156 P.S.I.

CONSOLIDATED
Oil Well Services, LLC

TICKET NUMBER 39230
LOCATION Oakley KS
FOREMAN Miles Shaw

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
12-27-12	3372	DBY #4-16	16	16S	33W	Scott KS

CUSTOMER: Grand Mesa Operating
MAILING ADDRESS:
CITY: STATE: ZIP CODE:

TRUCK #	DRIVER	TRUCK #	DRIVER
463	Chris		
653	Jordan		

JOB TYPE Surface HOLE SIZE 12 1/4" HOLE DEPTH 262 CASING SIZE & WEIGHT 8 5/8" 23#
CASING DEPTH 261.97 DRILL PIPE TUBING OTHER
SLURRY WEIGHT 14.8 SLURRY VOL 1.36 WATER gal/sk CEMENT LEFT in CASING 20'
DISPLACEMENT 15 4/6 bbls DISPLACEMENT PSI MIX PSI RATE

REMARKS: Safety Meeting and rig up on Murfin drilling #24 Circulate casing Mix 175 sks Common Class A cement with 3% Calcium 2% gel displace 15 4/6 bbls water Shut in Cement did Circulate 5 bbls to pit

Thanks Miles & Crew

ACCOUNT CODE	QUANITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5401S	1	PUMP CHARGE	1085.00	1085.00
5406	30	MILEAGE	5.00	150.00
5407A	8.22 TONS	Ton Mileage delivery	1.67	411.90
11045	175 sks	Common Class A Cement	17.65	3088.75
1102	493 #	Calcium Chloride	.89	438.77
1118B	329#	Bentonite gel	.25	82.25
			Subtotal	5256.67
			less 10% discount	525.67
			Subtotal	4731.00
			SALES TAX	269.16
			ESTIMATED TOTAL	5000.66

Completed

Ravin 3737

AUTHORIZTION Chris Mart TITLE Pusher Rig #24 DATE

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

12621 10

JOB LOG

SWIFT Services, Inc.

DATE 1-8-13 | PAGE NO. 1

CUSTOMER	WELL NO.	LEASE	JOB TYPE	TICKET NO.
Grand Mesa	4-16	DBY	Cement 5½" Longstring "2 stage"	23738

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS T	PUMPS C	PRESSURE (PSI) TUBING	PRESSURE (PSI) CASING	DESCRIPTION OF OPERATION AND MATERIALS 5½ 15.5#
								TD - 4756 TP - 4750
								SJ - 10' Set @ 4747
								D.V. Tool @ Jt #55 - 2464
								Centralizer - #2 #4 #6 #8 #10 #12 #14 # 54
								Basket - #3 #55
								175 sks EA-2 w/¼ Flo 300 sks SMD w/¼ Flo
	2000							on Location
	2140							Start 5½" 15.5# Casing in well
	2340							Drop ball Circulate - Rotate -
1-9-13	0005	6¾	12		✓		300	Pump 500 gal Mud Flush
		6¾	20		✓		300	Pump 20 bbl KCL Flush
	0010	4½	42		✓		300	Mix 175 sks EA-2 @ 15.6 ppg
								Wash-out Pump + Line
								Release Latch Down Plug
	0025	6¾	Ø		✓		Ø	Start Displacement
		6¾	93		✓		300	lift PSI
		6¾	112.7		✓		700	Max Lift PSI
	0048	6¾	112.8		✓		1500	Land Latch Down Plug
								Release PSI Hold
	0110							Drop Bomb Open D.V. Tool
	0115							Circulate
	0230	6¾	20		✓		300	Pump 20 bbl KCL Flush
			16-11					RH - MH (30 - 20)
	0245	5½	138		✓		200	mix 250 sks SMD @ 11.2 ppg
								Wash out Pump + Line
								Release Top Plug
	0321	6¾	Ø		✓		Ø	Start Displacement 30 sks to pit
		6¾	30		✓		350	Lift PSI
		6¾	58.5		✓		600	Max Lift PSI Release PSI
	0330	6¾	58.6		✓		1500	Land Top Plug Close D.V. Tool Hold
								Wash up Truck
	0430							Job Complete Thank You Duane Blaine TJ Flint & Doug

Acidizing Report

PRO-STIM CHEMICALS

Date 2-6-13

Customer Grand Mesa	Pro-Stim Chemical Yard Dighton		Pro-Stim Number A-4
Well Name & Number DBy 4-16	Field		Formation Spot 1B61
County Scott / State KS	BHT	YD	Interval 4654-58

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

Job Pumped Via: Tubing ☐ Casing ☐ Annulus ☐ CTU ☐ Combination ☐			Plug Depth			Packer Depth 4607	
Casing Size: 5 1/2	GRD	WT	Depth	Tubing Size: 2 7/8	GRD	WT	Spot 1B61
Casing Vol.	Tbg Vol 26.7		Ann Vol	OH Vol		Total Displacement 27 Bbl	
Maximum Pressure	Tubing		Casing	Proposed Pump Time		AOL	Leave Loc

Special Instructions: Staged All the way to 1500 Pound Never took more than .7 of a bbl so we stopped 600 gal 15% RWR-1 w/additives

Treatment Record

Time	Type Fluid	Rate BMP	Increment Vol Bbls	Cum Vol Bbls	Pressure Tubing	Pressure Casing	Observations
							Safety Meeting
							Prs Test to _____ psi
9:14	Acid	2.5		1.0	0	0	SPOT
9:27	Acid	2.5		14.0	0	0	Acid Gone
9:27	Flush	2.5		14.1	E	0	
9:37	Flush	2.5		26.2	0	0	Loaded
9:37	flush	0		26.2	300	0	
9:40	" "	0		26.2	300	0	
10:00	" "	0		26.3	400	0	
10:10	" "	0		26.3	500	0	
10:23	" "	0		26.6	600	0	
10:36	" "	0		26.6	700	0	
11:06	" "	0		26.6	800	0	
11:18	" "	0		26.6	900	0	
12:00	" "	0		26.8	1000	0	
12:23	" "	0		27.0	1100	0	
12:38	" "	0		27.0	1200	0	
12:53	" "	0		27.0	1300	0	
1:11	" "	0		27.0	1400	0	
1:24	" "	0		27.0	1500	0	Bled off & Quit

Treatment Synopsis

Avg Inj Rate	Fluid BPM		Total Injected	H20 13	Acid 14	Oil		
Treating Prs.	Max	Final	Avg.	ISIP	5'SI	10'SI	15' SI	

Customer Representative _____ Pro-Stim Supervisor Cody Z

Pro-Stim Chemicals LLC

Date 2-7-13

Acidizing Report

Customer Grand Mesa	Pro-Stim Chemical Yard Dighton		Pro-Stim Number A6
Well Name & Number DBY 4-16	Field		Formation Spot 1 barrel
County Scott / State KS	BHT	YD	Interval 4653-59

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

Job Pumped Via: Tubing ☑ Casing ☐ Annulus ☐ CTU ☐ Combination ☐ Plug Depth Packer Depth 4600

Casing Size: 5 1/2	GRD	WT	Depth	Tubing Size: 2 7/8		GRD	WT	Spot	
Casing Vol. 1.4	Tbg Vol 26.6		Ann Vol	OH Vol		Total Displacement			
Maximum Pressure	Tubing		Casing	Proposed Pump Time		AOL		Leave Loc	

Special Instructions: 600 gals 15% RWR-1 w/additives

Treatment Record

Time	Type Fluid	Rate BMP	Increment Vol Bbls	Cum Vol Bbls	Pressure Tubing	Pressure Casing	Observations
	[redacted]						Safety Meeting
							Prs Test to _____ psi
1	Acid						
16	Acid	3.3		14	30		Acid gone loaded
20	Flush	0		26.4	60		
22	Flush	0		26.5	500		
26	Flush	.1		26.9	700		
31	Flush	.5		27.6	900		
34	Flush	1.0		29.3	880		
34	Flush	1.5		33	1000		max
39	Flush	1.2		36	900		
44	Flush	1.2		42	900		Total load

Treatment Synopsis

Avg Inj Rate	Fluid BPM		Total Injected	H2O 26	Acid 14	Oil	
Treating Prs	Max 1000	Final 900	Avg.	ISIP 800	4 SI VAC	10'SI	15'SI
Customer Representative					Pro-Stim Supervisor	Shannon Mc	

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

Kansas
Corporation Commission

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

March 19, 2013

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

Re: ACO1
API 15-171-20922-00-00
DBY 4-16
SW/4 Sec.16-16S-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