



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1188915
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
-----------------------------------	-----------------	---

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: _____

1188915

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: _____ _____
--	---	---

Form	ACO1 - Well Completion
Operator	Grand Mesa Operating Company
Well Name	EPLEY 1-10
Doc ID	1188915

All Electric Logs Run

CPDCN Micro Log
AI Shallow Focused Elect Log
Micro Log
Caliper Log

Form	ACO1 - Well Completion
Operator	Grand Mesa Operating Company
Well Name	EPLEY 1-10
Doc ID	1188915

Tops

Name	Top	Datum
Stone Corral	2407	+628
Bs/Stone Corral	2424	+611
Heebner	3950	-915
Lansing	3994	-959
Muncie Creek	4172	-1137
Stark	4261	-1226
Marmaton	4379	-1344
Excello	4520	-1485
Mississippian	4708	-1671
LTD	4882	

ALLIED OIL & GAS SERVICES, LLC 062142

Federal Tax I.D. # 20-8651475

REMIT TO P.O. BOX 93999
SOUTHLAKE, TEXAS 76092

SERVICE POINT: Dakley Ks

DATE <u>1/20/14</u>	SEC. <u>10</u>	TWP. <u>18</u>	RANGE <u>33</u>	CALLED OUT	ON LOCATION	JOB START <u>8:45 am</u>	JOB FINISH <u>1:00 pm</u>
LEASE <u>Epley</u>	WELL # <u>1-10</u>	LOCATION <u>Hwy 95 - Hence Rd 2W1W W00N100</u>			COUNTY <u>Scott</u>	STATE <u>Ks</u>	
OLD OR NEW (Circle one)							

CONTRACTOR <u>Dakley</u>	OWNER <u>Some</u>
TYPE OF JOB <u>grout</u>	CEMENT
HOLE SIZE <u>12 1/4</u>	T.D. <u>222</u>
CASING SIZE <u>8 1/2</u>	DEPTH <u>218 set @</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>13.1259</u>	

EQUIPMENT

PUMP TRUCK CEMENTER <u>Mr Ryan</u>
<u>413281</u> HELPER <u>Kevin Ryan</u>
BULK TRUCK
<u>46-306</u> DRIVER <u>Chris Helpingline</u>
BULK TRUCK
DRIVER

AMOUNT ORDERED <u>165 can 3% CC</u>
<u>20 bags</u>
COMMON <u>165</u>
POZMIX
GEL <u>3</u>
CHLORIDE <u>6</u>
ASC
HANDLING MILEAGE
TOTAL

REMARKS:
Dakley Circulate, Mix Cement, Displace
Cement, Shoot in
Cement Disl Circulate in
Cellar
Tank
Play, Kevin, Chris

CHARGE TO: Grand Mesa Oper.
 STREET _____
 CITY _____ STATE _____ ZIP _____

SERVICE

DEPTH OF JOB <u>222'</u>
PUMP TRUCK CHARGE
EXTRA FOOTAGE
MILEAGE <u>40 miles</u>
MANIFOLD <u>Head</u>
<u>12' @ 40 miles</u>
TOTAL

PLUG & FLOAT EQUIPMENT

_____ @ _____
_____ @ _____
_____ @ _____
_____ @ _____
_____ @ _____
TOTAL _____

To: Allied Oil & Gas Services, 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 Riah Wheeler
 SIGNATURE Riah Wheeler

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

FORMATION TOPS

FORMATION	SAMPLE TOPS		LOG TOPS	
	Depth	Datum	Depth	Datum
Heebner Shale	3950'	-915	3950'	-915
Lansing	3994'	-959	3994'	-959
Muncie Creek Shale	4172'	-1137	4172'	-1137
Stark Shale	4260'	-1225	4261'	-1226
Hushpuckney Shale	4303'	-1268	4303'	-1268
Marmaton	4380'	-1345	4379'	-1344
Pawnee	4442'	-1407	4442'	-1407
Little Osage Shale	4503'	-1468	4503'	-1468
Excello Shale	4520'	-1485	4520'	-1485
Johnson Zone	4596'	-1561	4596'	-1561
Morrow	4662'	-1627	4662'	-1627
Mississippian	4709'	-1674	4709'	-1674
RTD	4880'	-1845		
LTD			4880'	-1845






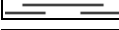



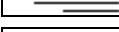









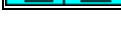


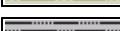



DSTs

DST #1 E/F Zone 4072'-4112' 30-45-45-60
 1st Blow: Gd Blw, blt to BOB in 11" (No BB)
 2nd Blow: Gd Blw, blt to BOB in 13" (No BB)
 IFP: 13-99# ISIP: 1055# FFP: 104-222# FSIP: 1041#
 HYD: 1931-1912#
 380' MW (90% WTR)

DST #2 Johnson/Atoka 4548'-4656' 30-45-60-90
 1st Blow: Gd Blw, blt to BOB in 18" (1" BB)
 2nd Blow: Gd Blw, blt to BOB in 8" (2" BB)
 IFP: 13-61# ISIP: 1009# FFP: 66-129# FSIP: 1010#
 HYD: 2208-2191#
 465' GIP, 255' GOCM (35% Gas, 25% Oil)

DST #3 Morrow 4660-4715' 30-30-30-30
 1st Blow: Wk Blw, blt to 1" (No BB)
 2nd Blow: No Blw (No BB)
 IFP: 9-13# ISIP: 321# FFP: 12-14# FSIP: 175#
 HYD: 2260-2253#
 10' Mud

ROCK TYPES

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

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

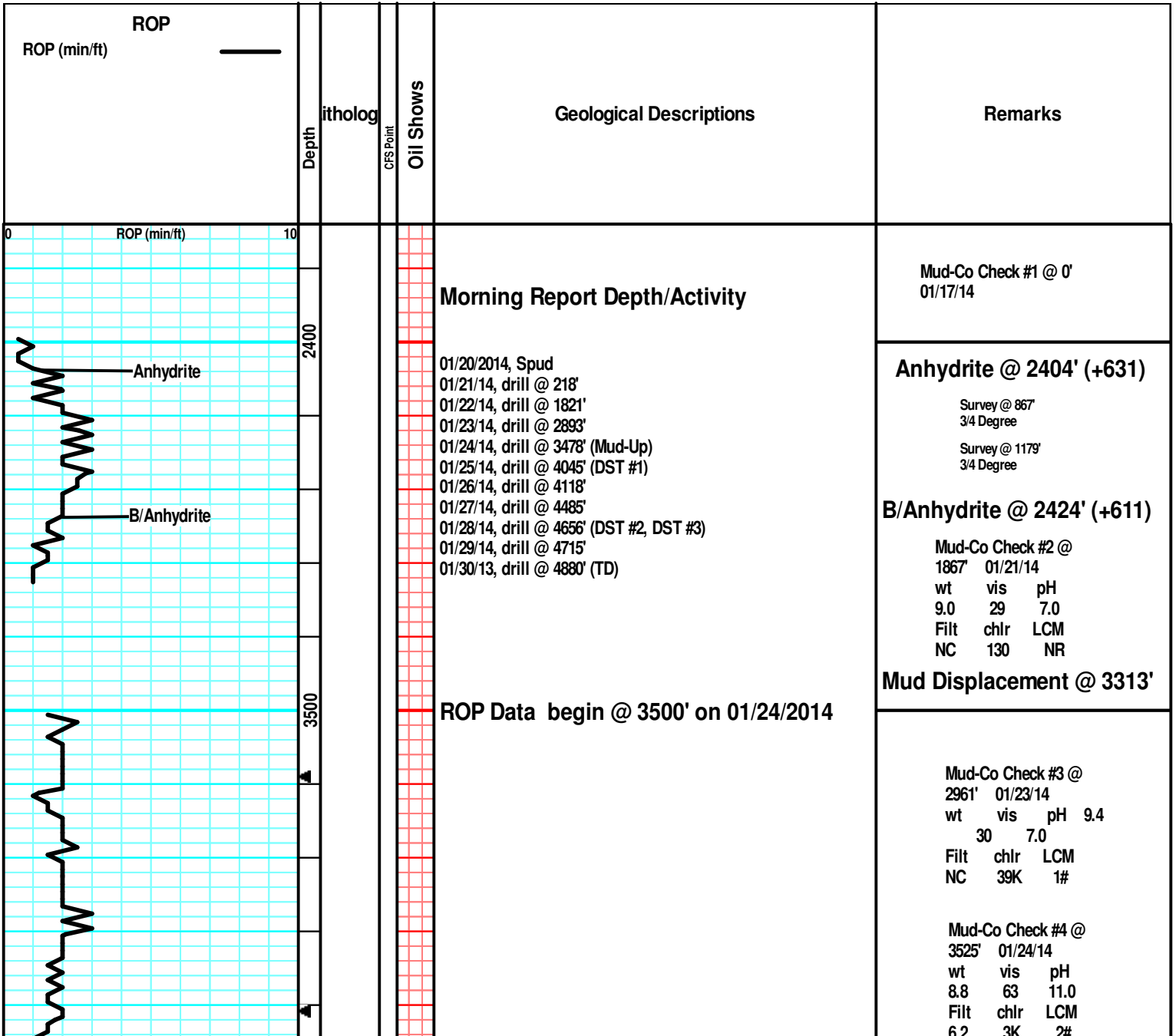
- Anhy
- Arggrn
- Arg
- Bent
- Bit
- Breclrag
- Calc
- Carb
- Chtdk
- Chtlt
- Dol
- Feldspar
- Ferrpel
- Ferr

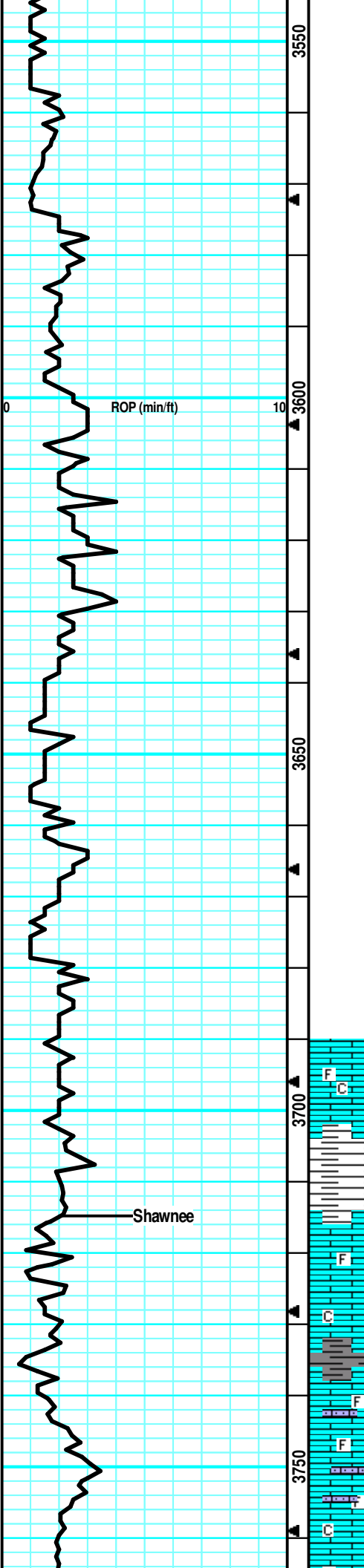
-
-
-
-
-
-
-
-
-
-
-
-
-
-
-
-
-
-
-
-
-
-
-
-
-
-
-
-
-
-
-
-
-
-
-
-
-
-
-
-
-
-
-
-
-
-
-
-
-
-
-
-
-
-
-
-
-
-
-
-
-
-
-
-
-
-
-
-
-
-
-
-
-
-
-
-
-
-
-
-
-
-
-
-
-
-
-
-
-
-
-
-
-
-
-
-
-
-
-
-

- Glau
- Gyp
- Hvymn
- 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
- Carbsth
- Clystn
- Dol
- Grysh
- Grystl
- Lms
- Sandylms
- Sh
- Sltstn





Survey @ 1711'
3/4 Degree

Survey @ 2238'
3/4 Degree

Survey @ 2704'
3/4 Degree

Survey @ 3262'
3/4 Degree

Sample began @ 3700' on 01/24/2014

LS: lt gry/lt tan, fn xln, fw foss in prt, sm dense, sm brittle, fw flakey, sm chlky in prt, tr-nvp, fw SH: gry, silty, soft, no cup odr, ns.

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

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

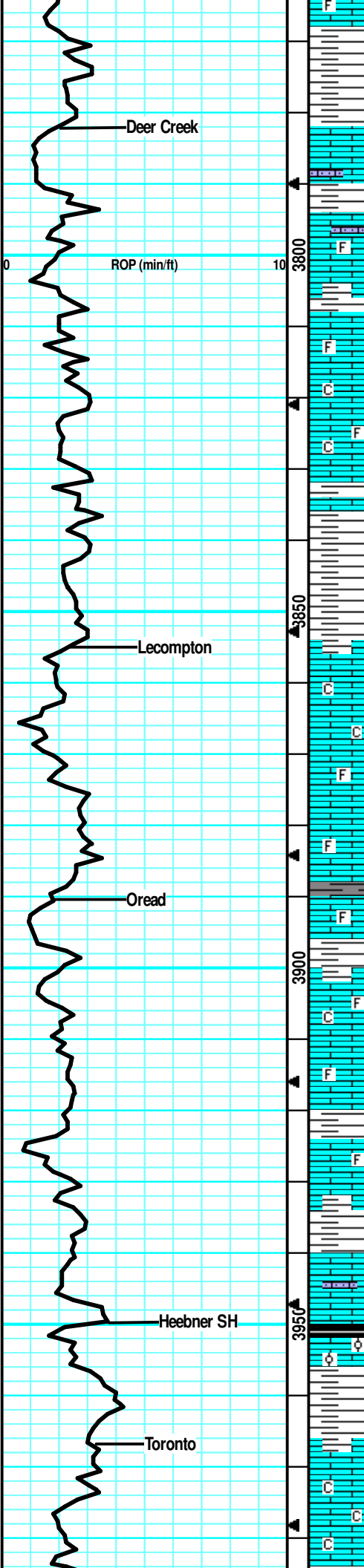
LS: gry/tan, fw mott in prt, fn xln, sm chlky, fw brittle, sm flakey, tr-nvp, fw SH: gry, silty, sm soft, no cup odr, ns.

LS: lt tan/lt gry, fw mott in prt, fn xln, fw foss in prt, sm brittle, fw flakey, sm chlky, tr-nvp, fw SH: gry/brn, silty, fw soft, no cup odr, ns.

LS: tan/lt gry, fw mott in prt, fn xln, fw sandy like, fw foss frags, sm sub-chlky, fw flakey, tr-nvp, fw SH: gry, silty, sm soft, no cup odr, ns.

LS: lt gry/lt tan, fw mott in prt, fn xln, fw scat foss frags, sm sub-chlky, fw brittle, fw sandy/gritty, tr-nvp, fw SH: gry, silty, soft, no cup odr, ns.

LS: tan/lt gry, fw mott in prt, fn xln, sm brittle, fw foss frags, fw



sandy, tr-nvp, fw pcs pur chlk, fw SH: gry, silty, soft, no cup odr, ns.

LS: lt tan/lt gry, fn xln, sm brittle, fw dense, sm sandy like, fw chlky, tr-nvp, fw pcs pur chlk, fw SH: gry/lt brn, silty, soft, no cup odr, ns.

LS: tan/lt gry, fn xln, fw dense, sm brittle, fw sandy/gritty, sub-chlky in prt, tr-nvp, fw pcs pur chlk, fw SH: gry, silty, soft, no cup odr, ns.

LS: tan/lt gry, fn xln, sm brittle, fw sandy/gritty, fw chlky in prt, tr-nvp, fw pcs pur chlk, fw SH: gry, silty, sm soft, no cup odr, ns.

LS: tan/gry, sm mott in prt, fn xln, fw scat foss frags, sm dense, sm brittle, fw sub-chlky in prt, tr-nvp, fw pcs pur chlk, fw SH: gry/blk, silty, fw carb, no cup odr, ns.

LS: tan/lt gry, fw mott in prt, fn xln, fw foss frags, sm dense, fw brittle, fw sub-chlky in prt, tr-nvp, fw pcs pur chlk, fw SH: gry/blk, silty, fw carb, no cup odr, ns.

LS: tan/lt gry, fw mott in prt, fn xln, v fw foss frags, mostly dense, fw brittle, sub-chlky in prt, tr-nvp, fw pcs pur chlk, fw SH: drk gry, silty, soft, no cup odr, ns.

LS: tan/gry, fw mott in prt, fn xln, many dense, sm brittle, sub-chlky in prt, fw flakey like, tr-nvp, fw pcs pur chlk, fw SH: gry, silty, easy-med crush, no cup odr, ns.

LS: gry/lt tan, fn xln, many dense, fw brittle, sm flakey, sub-chlky in prt, tr-nvp, fw pcs pur chlk, fw SH: gry/drk brn, silty, soft, no cup odr, ns.

LS: gry/tan, fn xln, mostly dense, fw brittle, sm flakey/mealy, tr-nvp, fw pcs pur chlk, v fw SH: gry, silty, sm soft, no cup odr, ns.

LS: tan/gry, slght mott in prt, fn xln, mostly dense, sm brittle, fw sub-chlky, tr-nvp, fw pcs pur chlk, no cup odr, ns.

LS: tan/lt gry, fw mott in prt, fn xln, fw foss frags, sm brittle, fw dense, fw sub-chlky in prt, tr-nvp, fw pcs pur chlk, no cup odr, ns.

LS: lt tan/lt gry, fw mott in prt, fn xln, fw foss in prt, sm brittle, sm dense, sub-chlky, tr-nvp, svrl pcs pur chlk, no cup odr, ns.

LS: lt tan/lt gry, slght mott in prt, fn xln, sm foss, sm brittle, v fw dense, sub-chlky in prt, tr-nvp, svrl pcs pur chlk, no cup odr, ns.

LS: lt tan/lt gry, sm mott in prt, fn xln, sm foss frags, many brittle, fw dense, sub-chlky in prt, tr-nvp, sm pur chlk, no cup odr, ns.

LS: lt tan/gry, sm mott in prt, fn xln, foss, many brittle, fw dense, fw gritty like, sub-chlky in prt, tr-ppt intxdn por in fw, fw pcs pur chlk, no cup odr, ns.

LS: gry/lt tan, fw slght mott, fn xln, fw scat foss frags, many dense, sm brittle, sm sub-chlky in prt, tr-nvp, fw SH: gry/brn, silty, no cup odr, ns.

LS: gry/lt tan, fn xln, many dense, sm brittle, fw sub-chlky in prt, fw flakey, tr-nvp, fw pcs pur chlk, no cup odr, ns.

LS: lt gry/lt tan, fn xln, sm dense, sm brittle, fw gritty like, sub-chlky in prt, sm scat 2nd rxln, tr-? ppt intxdn por in fw, fw pcs pur chlk, no cup odr, ns.

LS: gry/lt tan, sm mott, fn xln, many dense, sm ool, fw brittle, sub-chlky, tr-nvp, fw pcs pur chlk, sm SH: gry/blk, silty, sm carb, no cup odr, ns.

LS: gry/tan, slght mott in prt, fn xln, fw dense, mostly brittle, chlky/sub-chlky, tr-nvp, svrl pcs pur chlk, sm SH: gry/blk, silty, fw carb, no cup odr, ns.

LS: gry/tan, sm mott in prt, fn xln, sm dense, sm brittle, fw flakey/like, tr-nvp, 1 pc LS: crm, micro-fn xln, dense, 2 small sphr oil on surf, no cup odr, ns.

LS: tan/lt gry, slght mott in prt, fn xln, many dense, fw brittle, sub-chlky in prt, tr-nvp, fw pcs pur chlk, fw SH: gry/blk, silty, no cup odr, ns.

Heebner @ 3950' (-915)

Mud-Co Check #5 @ 3985' 01/25/14

wt	vis	pH
9.0	66	10.5
Filt	chl r	LCM
6.4	3.4K	2#

sharp, sm SH: gry, silty, soft, no cup odr, ns.

Lansing @ 3994' (-959)

LS: tan/lt gry, fn xln, many dense, sm brittle, sub-chlky in prt, pr fn intxn por in sm, 2 pcs w/ scat dul yel fluor, cut pal blu, ssfo on brk, no cup odr, sm SH: gry/brn, silty.

LS: gry/lt tan/crm, fn xln, mostly dense, sm ool, sm brittle, sub-chlky in prt, tr-nvp, fw Chert: wht/opaque, sharp, no cup odr, ns.

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

LS: gry/tan, fn xln, mostly dense, sm brittle, sm chlky/sub-chlky in prt, tr-nvp, fw Chert: wht/opaq, sharp, sm SH: gry/grn/brn, silty, soft, no cup odr, ns.

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

LS: tan/lt gry, fn xln, many dense, sm ool, fw brittle, sm pr 2nd rxln, pr-fr intool por in fw, 5-6 pcs w/ fn salt/pepr look, dul yel fluor/cut pal blu, ssfo, no cup odr.

LS: lt gry/crm, fn xln, sm v ool, sm dense, many brittle, many chlky/sub-chlky, friable, tr-nvp, svrl pcs pur chl, fw SH: gry/grn, silty, soft, no cup odr, ns.

LS: tan/lt gry/crm, fn xln, many dense, sm chlky in prt, sm brittle, tr-nvp, svrl pcs pur chl, fw Chert: wht/opaque, sharp, 1-2 pcs LS: crm, micro xln, v chlky, pr fn intxn por, ssfo, dul yel fluor, strm cut, no cup odr.

LS: lt tan/crm, fn xln, chlky/sub-chlky, brittle, rare 2nd rxln, sm dense, pr fn intxn por, 3-4 w/ dul yel fluor/strm cut, ssfo on brk, 1-2 pcs w/ small sphr oil on watery surf, wk-fnt cup odr.

LS: gry/tan, fn xln, sm dense, sm brittle, fw sub-chlky, tr-pr fn intxn por in sm, fw SH: gry/grn, silty, soft, fw waxy, no cup odr, ns.

LS: gry/tan, fn xln, sm ool/foss, sm brittle, sm dense, v fw pcs w/ pr intool por, 1-2 dul yel fluor, strm cut, vssfo, no cup odr.

LS: tan/lt tan, fn xln, mostly brittle, fw dense, sub-chlky in prt, fr intxn por in sm, svrl pcs w/ smal sphr oil on surf, ssfo on brk, dul yel fluor, strm cut, faint-slight cup odr.

LS: tan/lt gry, fn xln, mostly brittle, chlky/sub-chlky, fw dense, fw flakey, tr-pr intxn por in sm, fw pcs pur chl, no cup odr, ns.

LS: crm/lt gry, micro-fn xln, mostly dense, sm brittle, fw chlky, tr-nvp, fw Chert: wht/opaq, sharp, no cup odr, ns.

LS: lt gry/lt tan, fn xln, sm dense, sm brittle, fw sub-chlky in prt, sm ool, fw oolcast por, fw SH: gry/brn/grn, silty, soft, no cup odr, ns.

LS: tan/lt brn, fn xln, profus ool, sm brittle, fw sub-chlky, gd oolcast por, fw Chert: wht/opaq, sharp, foss, fw SH: gry/brn, silty, soft, no cup odr, ns.

LS: tan/lt gry, fn xln, sm profus ool, sm dense, sm chlky, many brittle, many gd oolcast por, svrl pcs pur chl, no cup odr, ns.

LS: lt gry/crm/lt tan, micro-fn xln, mandy dense, many brittle, chlky/sub-chlky, tr-nvp, svrl pcs pur chl, fw Chert: wht/opaq, sharp, foss, no cup odr, ns.

LS: lt tan/lt gry, micro-fn xln, mostly dense, fw scat foss frags, many chlky, many brittle, tr-nvp, svrl pcs pur chl, no cup odr, ns.

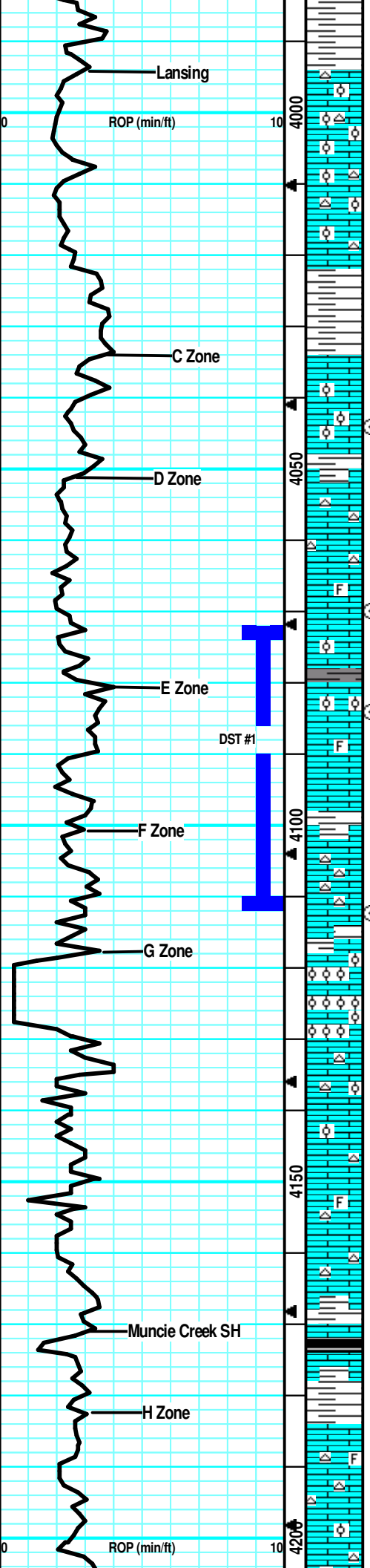
LS: lt tan/lt gry, micro-fn xln, many dense, mostly brittle, sub-chlky in prt, tr-nvp, fw pcs pur chl, fw Chert: wht/opaq, sharp, no cup odr, ns.

LS: tan/lt gry, fw mott in prt, fn xln, sm dense, fw brittle, sm scat 2nd rxln, tr-? intxn por in sm, sm SH: gry/blk, silty, fw carb, soft, no cup odr, ns.

LS: gry/lt tan, fw mott in prt, fn xln, many dense, fw foss frags, chlky/sub-chlky, tr-nvp, svrl SH: gry/grn, silty, soft, no cup odr, ns.

LS: lt gry/lt tan/crm, micro-fn xln, mostly dense, sm brittle, sub-chlky in prt, fw flakey like, tr-nvp, fw Chert: gry/smokey, sharp, fw SH: gry/grn, silty, no cup odr, ns.

LS: gry/tan/lt brn, fw mott in prt, fn xln, fw foss frags, mostly



CFS @ 4044' (30"/60")

CFS @ 4070' (30"/60")

CFS @ 4084' (30"/60")

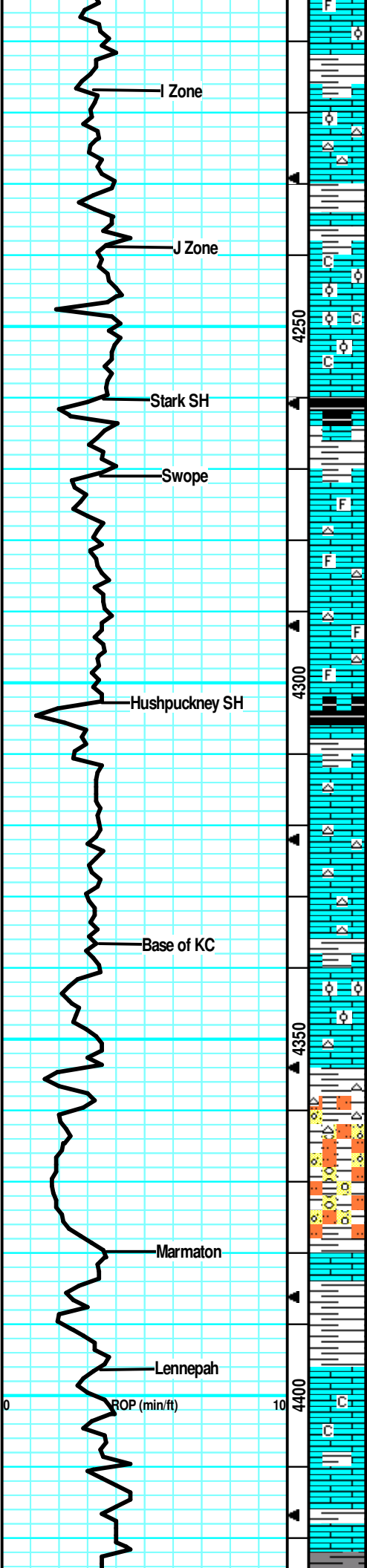
Survey @ 4112' 1/2 Degree

CFS @ 4112' (30"/60")

Mud-Co Check #6 @ 4112' 01/26/14

wt	vis	pH	9.1
57	10.0		
Filt	chl'r	LCM	
7.2	4.4K	2#	

Muncie Creek @ 4172' (-1137)



dense, sm firm, fw flakey/mealy, tr-nvp, fw pcs chlky/brittle, tr-nvp, no cup odr, ns.

LS: tan/lt tan, fw mott in prt, fn xln, fw ool, mostly dense, fw brittle, sub-chlky in prt, fw flakey, tr-nvp, fw pcs w/ drk min stns, no fluor/cut, no cup odr, ns.

LS: tan/lt gry, fn xln, many dense, sm brittle, sm sub-chlky in prt, tr-nvp, fw Chert: wht/opaq, sharp, fw pcs pur chl, fw SH: gry/brn, silty, no cup odr, ns.

LS: tan/lt tan, fn xln, many dense, sm brittle, sub-chlky in prt, fw flakey/mealy, tr-nvp, fw pcs pur chl, fw SH: gry/brn, silty, no cup odr, ns.

LS: lt gry/lt tan, fn xln, mostly brittle, fw dense, sub-chlky in most, tr-nvp, fw pcs LS: profus ool, gd oolcast por, fw pcs pur chl, no cup odr, ns.

LS: lt gry/lt tan/crm, micro-fn xln, mostly dense, mostly brittle, sub-chlky in prt, tr-nvp, fw pcs pur chl, fw SH: gry, silty, no cup odr, ns.

LS: gry/lt tan, fn xln, mostly dense, mostly brittle, sub-chlky in prt, fw flakey/mealy, tr-nvp, fw pcs pur chl, abund SH: blk/drk gry, silty, soft, carb, no cup odr, ns.

LS: lt gry/lt tan/crm, fn xln, sm foss in prt, sm dense, many brittle, sub-chlky, fw flakey/mealy, rare scat 2nd rxln, tr-nvp, fw pcs pur chl, no cup odr, ns.

LS: tan/lt gry, fn xln, fw foss frags, mostly dense, sm brittle, sub-chlky in prt, tr-nvp, fw Chert: wht/opaq, sharp, fw SH: gry/brn, silty, no cup odr, ns.

LS: tan/lt gry, fn xln, v fw foss frags, mostly dense, sm brittle, sub-chlky in prt, fw flakey, tr-nvp, fw Chert: wht/opaq, foss, sharp, fw SH: gry/grn, silty, sm soft, no cup odr, ns.

LS: tan/gry, sm mott in prt, fn xln, fw foss frags, mostly dense, many brittle, sub-chlky in prt, scat 2nd rxln, tr-vp, abund SH: blk/drk gry, silty, carb, soft, no cup odr, ns.

LS: lt tan/gry, micro-fn xln, mostly dense, sm brittle, sub-chlky in prt, fw flakey/mealy, tr-nvp, fw pcs pur chl, 2-3 pcs w/ pos patchy brn stns, wk-? fluor, no cut, no cup odr, nsfo.

LS: lt gry/crm/lt tan, micro-fn xln, mostly dense, fw brittle, sm sub-chlky in prt, tr-nvp, fw Chert: wht/opaq, sharp, fw pcs pur chl, no cup odr, ns.

LS: lt gry/lt tan, micro-fn xln, mostly dense, sm brittle, sub-chlky in prt, tr-nvp, fw pcs pur chl, fw Chert: wht/opaq, sharp, sm SH: gry/brn, silty, no cup odr, ns.

LS: tan/lt gry, fn xln, sm dense, sm brittle, fw ool, sub-chlky, sm 2nd rxln on edge, fw pcs w/ fr intxln por on edges, tr-nvp in most, no cup odr, ns.

LS: tan/lt gry, fn xln, many dense, sm brittle, sub-chlky in prt, scat 2nd rxln in fw, fw flakey, tr-nvp, sm SH: gry/brn, silty, no cup odr, ns.

LS: lt gry/lt tan, fn xln, mostly dense, fw brittle, sm sub-chlky in prt, flakey/mealy, fw firm, tr-nvp, fw Chert: wht/opaq, sm SH: gry/grn, silty, no cup odr, ns.

LS: lt tan, fn xln, mostly dense, fw brittle, tr-nvp, fw SS: lt gry, fn grn, arg, fw glauc, friable, fw soft, sm SH: gry/grn/brn, silty, fw waxy, fw SitStn: lt brn, v soft, muddy like, no cup odr, ns.

SS: gry/grn, fn xln, arg, fw soft, friable, tr-nvp, fw SitStn: lt brn, gritty, sm muddy like, svrl LS: tan/lt tan, fn xln, brittle, fw dense, sub-chlky, tr-nvp, no cup odr, ns.

LS: gry/tan, fw slight mott in prt, fn xln, scat foss frags, mostly dense, fw firm, sm flakey/mealy, tr-nvp, fw pcs pur chl, fw SH: gry/grn, silty, soft, no cup odr, ns.

LS: gry/lt tan, fn xln, mostly dense, sm brittle, sub-chlky in prt, fw firm, many flakey/mealy, tr-pr fn intxln por in fw, 2-3 w/ drk scat stns on edge, scat dul yel fluo, strm cut, vssfo on brk, no cup odr.

LS: tan/lt gry, fn xln, mostly dense, sm brittle, fw firm, fw pcs sub-chlky, sm flakey/mealy, tr-pr intxln por in sm, 3-4 pcs w/ drk sptd stns, wk-? fluor, no cut, pos drk dead oil, no cup odr, nsfo.

LS: lt gry/lt tan, micro-fn xln, mostly dense, sm brittle, sub-chlky in prt, v fw flakey like, tr-nvp, fw SH: grn/blu, silty, sm

Stark @ 4260' (-1225)

CFS @ 4277'
(30"/60")

Hushpuckney @ 4303' (-1268)

B/KC @ 4337' (-1302)

CFS @ 4354'
(30"/60")

Marmaton @ 4380' (-1345)

sub-chlky in prt, v fw flakey like, tr-nvp, fw SH: grn/blu, silty, gritty, med crush, no cup odr, ns.
 LS: lt tan/crm, micro-fn xln, many dense, sm brittle, fw sub chlky, scat 2nd rxln in sm, sm patchy fn ppt intxln por in sm, patchy lght brn stns, wk dul yeal fluor, strm cut, sso on brk, faint cup odr, 4-5 pcs in 30" smpl, 6-7 in 60" smple.

Pawnee @ 4442' (-1407)

CFS @ 4454'
(30"/60")

Mud-Co Check #7 @
4496' 01/27/14

wt	vis	pH
9.1	53	10.0
Filt	chl	LCM
7.2	4K	2#

Little Osage @ 4503' (-1468)

CFS @ 4506'
(30"/60")

Excello @ 4520' (-1485)

Cherokee @ 4552' (-1517)

DST #2 Johnson/Atoka
4548'-4656' 30-45-60-90
1st Blow: Gd Blw, bit to BOB in 18" (1" BB)
2nd Blow: Gd Blw, bit to BOB in 8" (2" BB)
IFP: 13-61# ISIP: 1009# FFP:
66-129# FSIP: 1010#
HYD: 2208-2191#
465' GIP, 255' GOCM (35% Gas, 25% Oil)

Johnson @ 4596' (-1561)

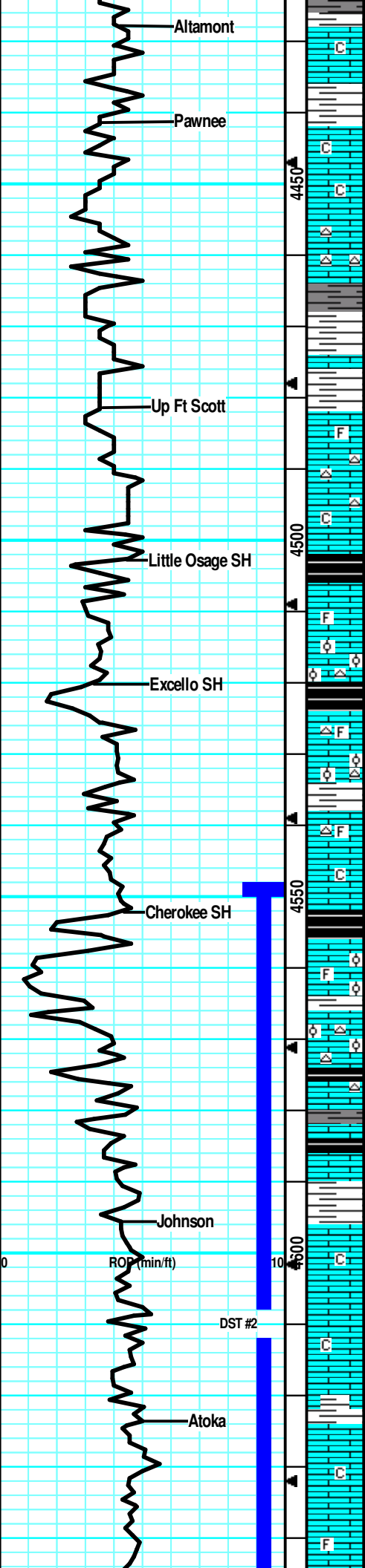
CFS @ 4618'
(30"/60")

Atoka @ 4624' (-1589)

Mud-Co Check #8 @
4656' 01/28/14

wt	vis	pH
9.2	57	10.5
Filt	chl	LCM

LS: lt gry/lt tan, micro-fn xln, mostly dense, many brittle, sub-chlky, tr-nvp, 1 pcs w/ small 2nd rxln spt, fr intxln por, vssfo, no cup odr.
 LS: lt gry/lt tan, fn xln, mostly dense, sm brittle, sub-chlky in prt, tr-nvp, 3-4 pcs LS: tan, micro xln, dense, firm, gd 2nd rxln, fr intxln por, scat dul yel fluor, strm cut, sso on brk, fnt-? cup odr.
 LS: lt gry/crm, fn xln, mostly dense, many brittle, chlky/sub chlky in prt, tr-nvp, fw Chert: wht/opaq, sharp, svrl SH: gry/blk, silty, many carb, no cup odr, ns.
 LS: gry/lt tan, fn xln, mostly brittle, chlky, fw dense, tr-nvp, abund chl, svrl SH: gry/blk, silty, fw carb, sm gritty like, no cup odr, ns.
 LS: tan/lt brn, micro-fn xln, fw foss fags, mostly dense, sub-chlky, brittle, v fw pcs w/ pr intxln por, fw Chert: lt brn, foss, sharp, fw SH: gry/lt brn, silty, med crush, no cup odr, ns.
 LS: gry/tan/lt brn, sm mott in prt, fn-crs xln, many dense, fw firm, fw sub-chlky/brittle, tr-? intxln por in fw, sm SH: gry/blk, silty, soft, carb, no cup odr, ns.
 LS: gry/tan, sm mott in prt, fn-crs xln, many dense, firm, sub-chlky in prt, tr-? intxln por in sm, abund SH: blk/gry, silty, carb, soft, no cup odr, ns.
 LS: tan/lt gry, fn xln, fw foss frags, fw dense, sm brittle, sub-chlky in prt, 2-3 pcs dense, micro xln, ppt intxln por in prt, patchy brn stns, wk dul yel fluor, slw cut, vssfo, no cup odr.
 LS: gry/tan, fn xln, sm ool, dense, sm firm, fw sub-chlky, tr-pr intxln por in fw, dul yel fluor, wk cut, sso on brk, no cup odr, svrl Chert: gry, foss, sharp, abund SH: blk/gry, silty, carb, soft, no cup odr, ns.
 LS: tan/gry, fn xln, mostly dense, fw firm, fw ool, tr-nvp, fw pcs w/ drk hvy stns, wk-? fluor, no cut, pos drk dead oil, svrl Chert: wht/gry, ool, sharp, svrl SH: gry/brn, silty, no cup odr, ns.
 LS: tan/lt gry, fn xln, mostly dense, sm brittle, fw sub-chlky in prt, tr-nvp, svrl Chert: wht/gry, foss, sharp, sm SH: brn/gry, silty, no cup odr, ns.
 LS: tan/gry, slight mott in prt, fn-crs xln, dense, fw brittle, fw foss frags, sm flakey/mealy, tr-nvp, svrl SH: gry/brn/blk, silty, fw carb, med crush, no cup odr, ns.
 LS: lt tan/crm, fw slight mott, micro-fn xln, dense, brittle, sub-chlky, fw ool, sm foss in prt, tr-nvp, fw pcs w/ pos lght brn stns, wk-? fluor, no cut, fw SH: gry/blk, silty, fw carb, no cup odr, nsfo.
 LS: gry/tan, sm mott in prt, fn xln, sm dense, fw firm sm flakey/mealy, fw chlky/brittle, tr-nvp, fw Chert: wht/gry, ool, sharp, svrl SH: gry/blk, silty, carb, soft, no cup odr, ns.
 LS: tan/lt brn/gry, sm mott, fn xln, sm firm, fw dense, sandy, sm 2nd rxln, tr-nvp, fw pcs chl, svrl SH: gry/blk, silty, sm carb, no cup odr, ns.
 LS: lt brn/gry, fn xln, mostly dense, sm hard, sm 2nd rxln, sm flakey/mealy, tr-nvp, sm SH: gry/grn, silty, sm waxy, soft, no cup odr, ns.
 LS: lt tan/lt gry, micro-fn xln, mostly dense, sm brittle, fw sub-chlky in prt, tr-? ppt intxln por, fw pcs w/ patchy lght brn stns, scat wk fluor, slw cut, vssfo, no cup odr.
 LS: lt tan/lt gry, micro-fn xln, mostly dense, sm brittle, scat pr ppt intxln por sites, patchy lght brn stns, sso on brk, scat dul yel fluor, strm cut, faint-? cup odr.
 LS: gry/tan, fn xln, mostly dense, fw brittle, tr-? ppt intxln por, fw pcs patchy brn stns, scat fluor, wk cut, many pcs flakey/mealy, fw SH: gry/brn, silty, no cup odr, nsfo.
 LS: lt tan/lt gry, fn xln, mostly dense, sm brittle, fw sub-chlky, 1-2 pcs w/ pr intxln por, hvy vis fo on surf, majority, tr-nvp, no cup odr.
 LS: lt tan/lt gry, micro-fn xln, mostly dense, brittle, fw foss



frags, sub-chlky in prt, pr ppt intxn por, smal sphr oil on surf, ssfo on brk, svrl pcs/try, no cup odr.

SS: lt gry/clr, fn-crs qrtz grn, sub-rnd, brittle, v friable, hvv stns in wet and dry, ssfo on brk, gd cut resid, no cup odr.

LS: lt tan/lt gry, fn xln, mostly dense, fw sandy, many brittle, sub-chlky, fw flakey, tr-nvp, abund SH: gry/brn/grn, silty, sm soft, fw waxy, fw SS: lt gry/crm, fn grn, arg, friable, tr-nvp, no cup odr, ns.

SS: crm/lt gry, fn grn, sub-rnd, arg, sub-chlky in prt, tr-nvp, fw pcs w/ drk min stns, no fluor/cut, no fo on brk in wtr, abund SH: gry/brn/grn, silty, fw waxy, no cup odr, ns.

SH: gry/grn/brn, silty, sm soft, fw med crush, sm SS: lt gry/crm, fn grn, sub-rnd, arg/limey, brittle, many friable, sm lght brn min stns, no fluor/cut, no cup odr, nsfo. 30' smple had a fw more pcs of SS, fw SlStn: lt brn, v soft, muddy like.

SS: lt gry/crm, fn grn, sub-rd, well srtd, fw tight, sm arg, fw sub-chlky, friable, sm fr intgnr por, wk fluor, strn cut on brk, fr sfo, wk no cup odr.

SS: lt tan/crm, fn-med grn, arg, fr srtd, chlky, brittle, friable, tr-nvp, sm SS: gry, fn grn, frible, fw firm, well srtd, fn intgnr por, hvv sat stns, wk fluor, strn cut, fr-gd sfo, no cup odr.

LS: tan/lt gry, fn xln, mostly dense, sm brittle, fw sub-chlky in prt, fw flakey/mealy, tr-nvp, fw SH: gry/grn/brn, silty, sm soft, no cup odr, ns.

LS: tan/lt gry, fn xln, mostly brittle, v fw dense, sandy/gritty, sm v friable, tr-nvp, fw SS: lt gry, fn grn, well srtd, arg, limey, tr-nvp, v friable, no cup odr, ns.

LS: tan/lt gry, fn xln, sm dense, sm brittle, fw firm, sandy/gritty, sm sub-chlky in prt, fw w/ lrg qrtz grns, tr-nvp, fw SH: gry/grn, silty, no cup odr, ns.

LS: lt tan/lt gry, fn xln, many dense, sm brittle, sub-chlky in prt, fw sandy/gritty, fw flakey/mealy, tr-nvp, sm SH: gry/grn, silty, sm soft, no cup odr, ns.

LS: gry/lt tan/crm, fn xln, sm dense, mostly brittle, sub-chlky in prt, fw sandy/gritty, tr-nvp, sm SH: gry/brn, silty, sm soft, no cup odr, ns.

LS: tan/lt gry, fn xln, sm dense, sm sub-chlky/brittle, fw flakey/mealy, fw w/ 2nd rlxn, tr-nvp, svrl SH: gry/brn/grn, silty, sm soft, no cup odr, ns.

LS: tan/lt gry, fn xln, many dense, sm brittle, sm sub-chlky in prt, fw flakey/mealy, tr-nvp, svrl SH: gry/blu/brn, silty, sm soft, no cup odr, ns.

LS: tan/lt gry, micro-fn xln, mostly dense, sm brittle, sub-chlky in prt, mostly uniform, fw flakey, svrl SH: gry/brn/blu, silty, sm soft, no cup odr, ns.

LS: tan/lt tan, micro-fn xln, mostly dense, sm brittle, fw firm, fw sub-chlky in prt, mostly uniform, tr-nvp, abund SH: gry/blu/grn, silty, sm soft, no cup odr, ns.

LS: tan/lt tan, micro-fn xln, mostly dense, fw brittle, fw flakey like, sub-chlky in prt, tr-nvp, fw SH: gry/brn, silty, no cup odr, ns.

LS: lt tan/tan, micro-fn xln, mostly dense, fw firm, fw brittle/sub-chlky, fw flakey like, tr-nvp, sm SH: gry/brn/grn, silty, sm soft, no cup odr, ns.

LS: tan/lt tan, micro-fn xln, mostly dense, sm brittle, fw firm, fw sub-chlky in prt, fw flakey, tr-nvp, abund SH: gry/brn, silty, no cup odr, ns.

LS: tan/lt gry, micro-fn xln, mostly dense, fw brittle, sm firm, semi-uniform, tr-nvp, abund SH: gry/brn/grn, silty, sm soft, no cup odr, ns.

LS: tan/lt gry, micro-fn xln, dense, fw brittle, fw flakey, sub-chlky in prt, tr-nvp, svrl SH: brn/gry, silty, fw fissile, no cup odr, ns.

LS: lt gry/tan, micro-fn xln, mostly dense, fw brittle, sm firm, fw flakey like, sub-chlky in prt, tr-nvp, fw SH: brn/gry, silty, sm soft, no cup odr, ns.

LS: lt gry/tan, micro-fn xln, dense, fw brittle, sub-chlky, tr-nvp,

CFS @ 4656' (30"/60") Survey @ 4656' 3/4 Degree

Morrow @ 4662' (-1627)

DST #3 Morrow 4660-4715' 30-30-30-30
1st Blow: Wk Blw, blt to 1" (No BB)
2nd Blow: No Blw (No BB)
IFP: 9-13# ISP: 321# FFP: 12-14# FSP: 175#
HYD: 2260-2253#
10' Mud

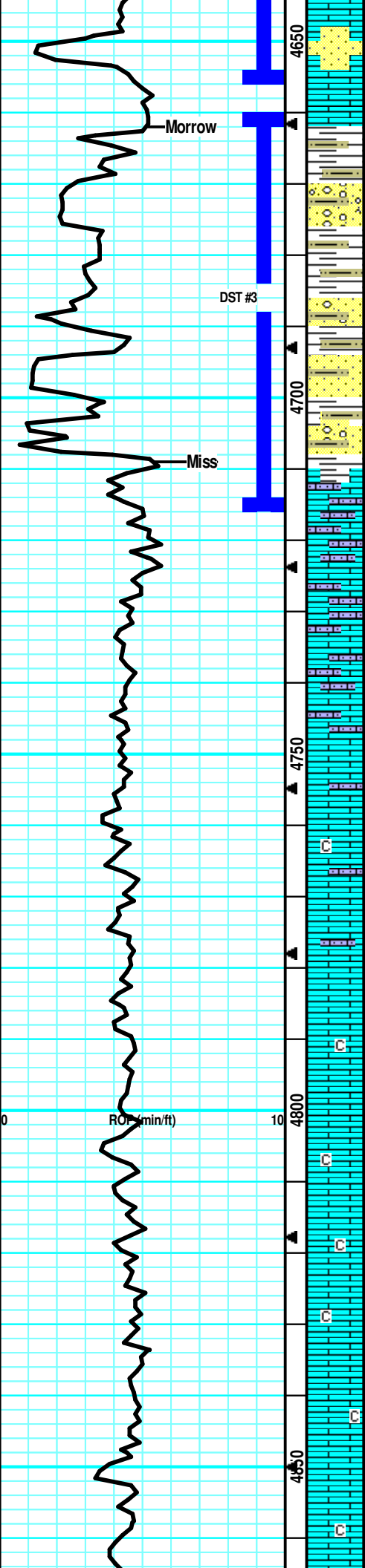
CFS @ 4678' (30"/60")

CFS @ 4695' (30"/60")

Miss @ 4709' (1674)

CFS @ 4715' (30"/60")

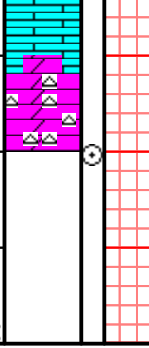
Mud-Co Check #9 @ 4719' 01/29/14
wt vis pH 9.1
54 10.5
Filt chlr LCM
6.4 4.5K 2#





RTD 4880', -1845
LTD 4880', -1845

00



tw DOL: lt tan, fn xln, fw dense, many brittle, friable, fw chky, tr-nvp, no cup odr, ns.

DOL: lt gry/tan, fn xln, mostly brittle, sm dense, sm friable, tr sub-chky, tr-nvp, svrl Chert: lt gry, semi-trans, sharp, no cup odr, ns.

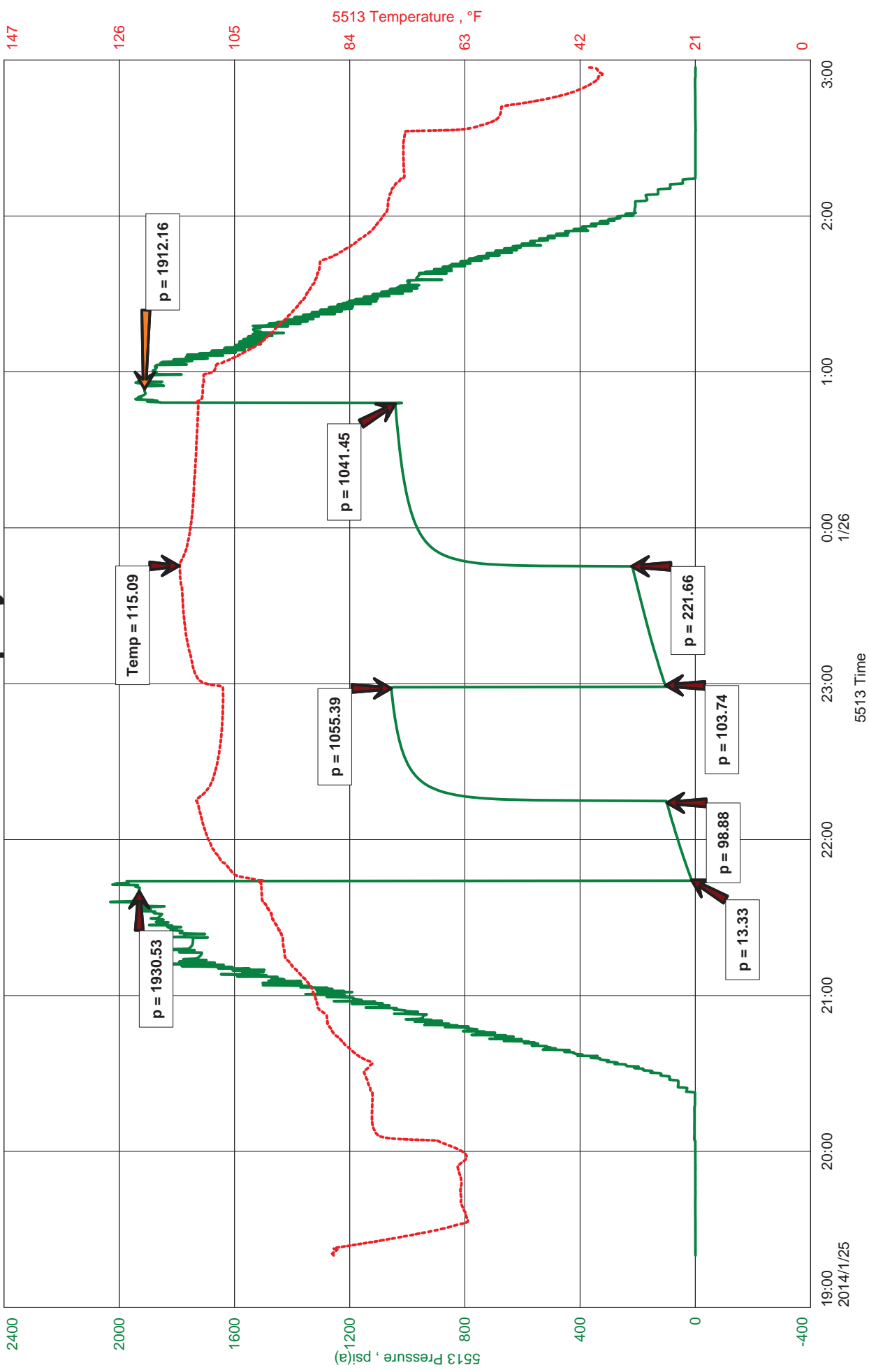
CFS @ 4880'
(30"/60')

Survey @ 4880'
3/4 Degree

Grand Mesa
DST #1 Lansing E-F 4072-4112
Start Test Date: 2014/01/25
Final Test Date: 2014/01/26

#1-10 Epley
Formation: Lansing E-F
Pool: Wildcat
Job Number: K083

#1-10 Epley





JASON MCLEMORE

CELL # 620-617-0527

General Information

Company Name	Grand Mesa	Mike Reilly	Job Number	K083
Contact		#1-10 Epley	Representative	Jason McLemore
Well Name		DST #1 Lansing E-F 4072-4112	Well Operator	Grand Mesa
Unique Well ID		10-16s-33w-Scott	Prepared By	Jason McLemore
Surface Location		Wildcat	Qualified By	John Goldsmith
Field		Vertical	Test Unit	#7
Well Type				

Test Information

Test Type	Drill Stem Test	Representative	Jason McLemore
Formation	Lansing E-F	Well Operator	Grand Mesa
Well Fluid Type	01 Oil	Report Date	2014/01/26
Test Purpose (AEUB)	Initial Test	Prepared By	Jason McLemore

Start Test Date	2014/01/25	Start Test Time	19:20:00
Final Test Date	2014/01/26	Final Test Time	02:58:00

Test Results

RECOVERED:

380 Muddy Water,90% Water, 10% Mud
380 TOTAL FLUID

CHLORIDES: 30000

PH: 7

RW: .320 @ 50



DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: epley1dst1

TIME ON: 7:20 PM
TIME OFF: 2:58 AM

Company Grand Mesa Lease & Well No. #1-10 Epley
Contractor Duke #4 Charge to Grand Mesa
Elevation 3035 KB Formation _____ E-F Effective Pay _____ Ft. Ticket No. K083
Date 1-25-14 Sec. 10 Twp. _____ 16 S Range _____ 33 W County _____ Scott State KANSAS
Test Approved By John Goldsmith Diamond Representative Jason McLemore

Formation Test No. 1 Interval Tested from 4072 ft. to 4112 ft. Total Depth 4112 ft.
Packer Depth 4067 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
Packer Depth 4072 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 4053 ft. Recorder Number 5513 Cap. 5000 P.S.I.
Bottom Recorder Depth (Outside) 4054 ft. Recorder Number 5588 Cap. 6000 P.S.I.
Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type Chemical Viscosity 66 Drill Collar Length 0 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 3400 P.P.M. Drill Pipe Length 4039 ft. I.D. 3 1/2 in.
Jars: Make STERLING Serial Number 6 Test Tool Length 33 ft. Tool Size 3 1/2-IF in.
Did Well Flow? NO Reversed Out NO Anchor Length 40 ft. Size 4 1/2-FH in.
Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in. 31' DP in Anchor Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: Good Blow, BOB in 11 Min., No Blowback
2nd Open: Good Blow, BOB in 13 Min., No Blowback

Recovered 380 ft. of Muddy Water, 90% Water, 10% Mud
Recovered 380 ft. of TOTAL FLUID
Recovered _____ ft. of _____
Recovered _____ ft. of CHLORIDES: 30,000

Recovered _____ ft. of <u>PH: 7</u>	Price Job
Recovered _____ ft. of <u>RW: .320 @ 50</u>	Other Charges
Remarks: <u>Tool Sample: Salt Water</u>	Insurance
	Total

Time Set Packer(s) 9:45 PM A.M. P.M. Time Started Off Bottom 12:45 AM A.M. P.M. Maximum Temperature 115

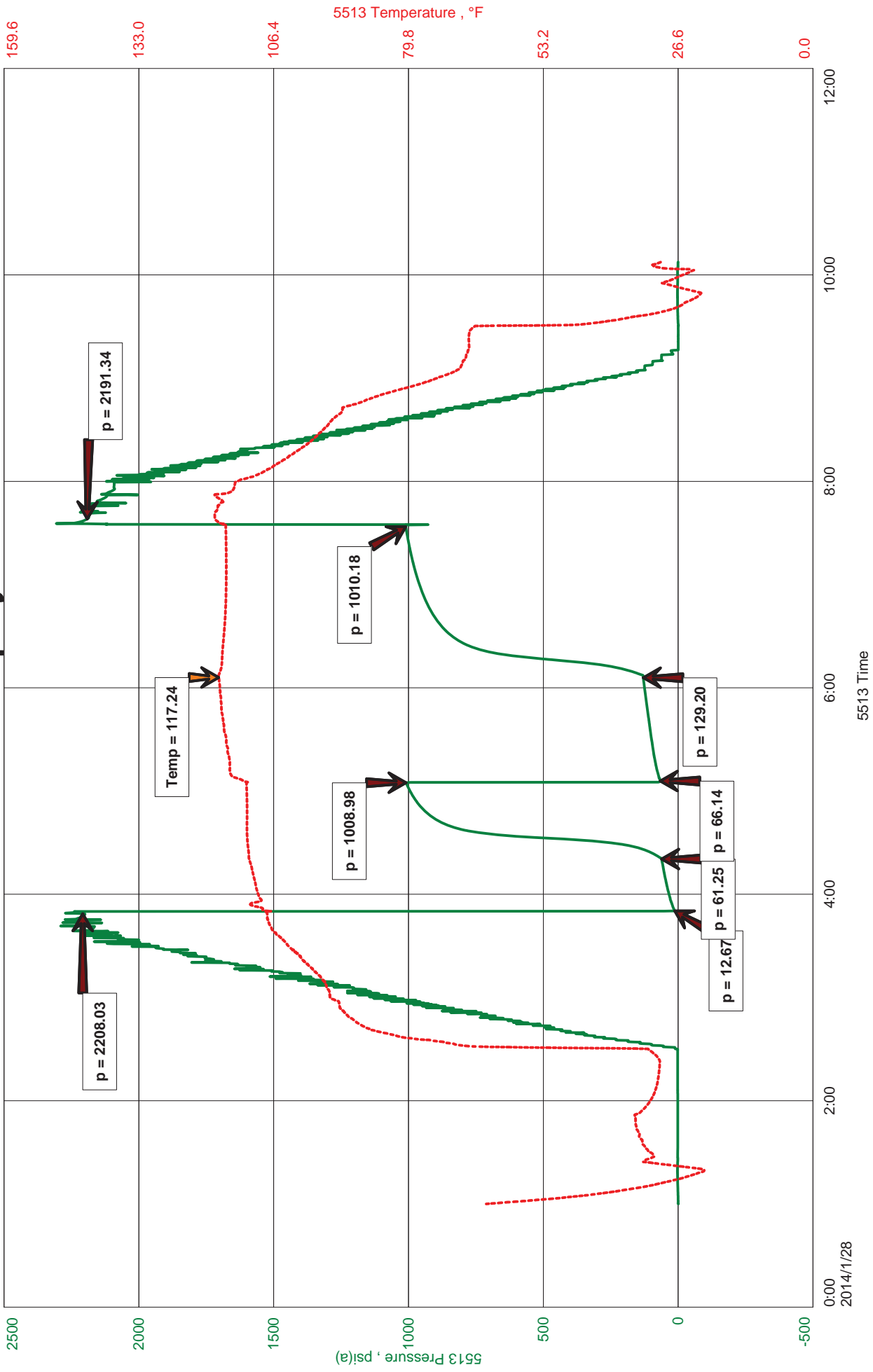
Initial Hydrostatic Pressure..... (A) 1931 P.S.I.
Initial Flow Period..... Minutes 30 (B) 13 P.S.I. to (C) 99 P.S.I.
Initial Closed In Period..... Minutes 45 (D) 1055 P.S.I.
Final Flow Period..... Minutes 45 (E) 104 P.S.I. to (F) 222 P.S.I.
Final Closed In Period..... Minutes 60 (G) 1041 P.S.I.
Final Hydrostatic Pressure..... (H) 1912 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.

#1-10 Epley
 Formation: Johnson-Atoka
 Pool: Wildcat
 Job Number: K084

Grand Mesa
 DST #2 Johnson-Atoka 4548-4656
 Start Test Date: 2014/01/28
 Final Test Date: 2014/01/28

#1-10 Epley





JASON MCLEMORE

CELL # 620-617-0527

General Information

Company Name	Grand Mesa	Mike Reilly	Job Number	K084
Contact		#1-10 Epley	Representative	Jason McLemore
Well Name		DST #2 Johnson-Atoka 4548-4656	Well Operator	Grand Mesa
Unique Well ID		10-16s-33w-Scott	Prepared By	Jason McLemore
Surface Location		Wildcat	Qualified By	John Goldsmith
Field		Vertical	Test Unit	#7
Well Type				

Test Information

Test Type	Drill Stem Test	Representative	Jason McLemore
Formation	Johnson-Atoka	Well Operator	Grand Mesa
Well Fluid Type	01 Oil	Report Date	2014/01/28
Test Purpose (AEUB)	Initial Test	Prepared By	Jason McLemore

Start Test Date	2014/01/28	Start Test Time	01:00:00
Final Test Date	2014/01/28	Final Test Time	10:10:00

Test Results

RECOVERED: 255 Gassy Oil Cut Mud, 35% Gas, 25% Oil, 40% Mud
255 Total Fluid

465' Gas In Pipe

TOOL SAMPLE: Muddy Oil, 75% Oil, 25% Mud



DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: epley1dst2

TIME ON: 1:00 AM
TIME OFF: 10:10 AM

Company Grand Mesa Lease & Well No. #1-10 Epley
Contractor Duke #4 Charge to Grand Mesa
Elevation 3035 KB Formation Johnson-Atoka Effective Pay _____ Ft. Ticket No. K084
Date 1-28-14 Sec. 10 Twp. _____ 16 S Range _____ 33 W County _____ Scott State KANSAS
Test Approved By John Goldsmith Diamond Representative Jason McLemore

Formation Test No. 2 Interval Tested from 4548 ft. to 4656 ft. Total Depth 4656 ft.
Packer Depth 4543 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
Packer Depth 4548 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.

Depth of Selective Zone Set _____
Top Recorder Depth (Inside) 4529 ft. Recorder Number 5513 Cap. 5000 P.S.I.
Bottom Recorder Depth (Outside) 4530 ft. Recorder Number 5588 Cap. 6000 P.S.I.
Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type Chemical Viscosity 53 Drill Collar Length _____ 0 ft. I.D. 2 1/4 in.
Weight 9.1 Water Loss 7.2 cc. Weight Pipe Length _____ 0 ft. I.D. 2 7/8 in.
Chlorides 4000 P.P.M. Drill Pipe Length 4515 ft. I.D. 3 1/2 in.
Jars: Make STERLING Serial Number 6 Test Tool Length 33 ft. Tool Size 3 1/2-IF in.
Did Well Flow? NO Reversed Out NO Anchor Length 108 ft. Size 4 1/2-FH in.
Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in. 93' DP in Anchor Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: Good Blow, BOB in 18 Min., Blowback Built to 1"
2nd Open: Good Blow, BOB in 8 Min., Blowback Built to 2"

Recovered 255 ft. of Gassy Oil Cut Mud, 35% Gas, 25% Oil, 40% Mud
Recovered 255 ft. of Total Fluid
Recovered _____ ft. of _____
Recovered _____ ft. of 465' Gas In Pipe

Recovered _____ ft. of _____	Price Job
Recovered _____ ft. of _____	Other Charges
Remarks: <u>Tool Sample: Muddy Oil, 75% Oil, 25% Mud</u>	Insurance
_____	Total

Time Set Packer(s) 3:53 AM A.M. P.M. Time Started Off Bottom 7:38 AM A.M. P.M. Maximum Temperature 117

Initial Hydrostatic Pressure..... (A) 2208 P.S.I.
Initial Flow Period..... Minutes 30 (B) 13 P.S.I. to (C) 61 P.S.I.
Initial Closed In Period..... Minutes 45 (D) 1009 P.S.I.
Final Flow Period..... Minutes 60 (E) 66 P.S.I. to (F) 129 P.S.I.
Final Closed In Period..... Minutes 90 (G) 1010 P.S.I.
Final Hydrostatic Pressure..... (H) 2191 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.