

Confidentiality Requested:

☐ Yes ☐ No

KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION

1095512

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: \_\_\_\_\_



1095512

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 (Attach Additional Sheets)	<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 (Amount and Kind of Material Used)	Depth

TUBING RECORD:	Size:	Set At:	Packer At:	Liner Run: <input type="checkbox"/> Yes <input type="checkbox"/> No
Date of First, Resumed Production, SWD or ENHR.	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> 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 (If vented, Submit ACO-18.)	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled (Submit ACO-5) <input type="checkbox"/> Other (Specify) _____	PRODUCTION INTERVAL: _____ _____
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Conservation Division  
Finney State Office Building  
130 S. Market, Rm. 2078  
Wichita, KS 67202-3802



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

Mark Sievers, Chairman  
Thomas E. Wright, Commissioner  
Shari Feist Albrecht, Commissioner

Sam Brownback, Governor

October 03, 2012

DEAN PATTISSON  
Woolsey Operating Company, LLC  
125 N MARKET STE 1000  
WICHITA, KS 67202-1729

Re: ACO1  
API 15-007-23885-00-00  
DIEL F 2  
SW/4 Sec.23-34S-11W  
Barber 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,  
DEAN PATTISSON

**WOOLSEY OPERATING COMPANY, LLC**  
125 North Market, Suite 1000, Wichita, Kansas 67202  
Phone: 316-267-4379 Fax 316-267-4383

**DIEL F-2**

Thunder West Prospect  
Survey: 495' FSL 660' FWL  
SW SW Sec 23-34S-11W  
Barber County, Kansas

API: 15-007-23885-00-00  
Spud: 06/06/2012  
Elev: 1327' GL 1340' KB  
Field: Mayberry North

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**SQUEEZE JOBS PRIOR TO COMPLETION**

Perforate LOWER SQUEEZE PERFS 1' intervals at 4792'-4793' 4 JSPF.  
Pump cmt. 50 sx Class H, 2% gel, 5% salt and 175 sx Class H, 5 % salt

Perforate UPPER SQUEEZE PERFS 4648'-4649' 4 JSPF  
Pump cement 150 sx Class H, 5% salt

Shoot second set of UPPER SQUEEZE PERFS @ 4600'-4601' 4 JSPF.  
Squeeze perfs at 4600'-4601' 4 JSPF w/ 100 sx class "H" cement, 5% salt

# ALLIED OIL & GAS SERVICES, LLC 054033

Federal Tax I.D.# 20-5975804

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

SERVICE POINT:

*Mech. & Electric*

DATE <i>6-6-12</i>	SEC. <i>23</i>	TWP. <i>34S</i>	RANGE <i>11W</i>	CALLED OUT	ON LOCATION	JOB START <i>8:30pm</i>	JOB FINISH <i>7:30pm</i>
LEASE <i>Diel</i>	WELL # <i>F-2</i>	LOCATION <i>281 + 6er lane Bldg top</i>			COUNTY <i>Barber</i>	STATE <i>OK</i>	
OLD OR NEW (Circle one)		<i>E to Refel south to Angus west to Crane</i> <i>1/2 South west into</i>					

CONTRACTOR *Pike #7*

TYPE OF JOB *Surface*

HOLE SIZE *14 3/4"* T.D. *219'*

CASING SIZE *10 3/4"* DEPTH *202'*

TUBING SIZE DEPTH

DRILL PIPE DEPTH

TOOL DEPTH

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT

CEMENT LEFT IN CSG. *20'*

PERFS.

DISPLACEMENT *17665420*

## EQUIPMENT

PUMP TRUCK CEMENTER *Matt Starnach*

# *360/265* HELPER *Ron Gilley / Troy Len 2*

BULK TRUCK

# *360* DRIVER *Garret Mclemore*

BULK TRUCK

# DRIVER

## REMARKS:

*Thank You.*

## WELL FILE

Regulatory Correspondence  
Drill / Comp Workovers  
Tests / Meters Operations

CHARGE TO: *Woolsey Operating*

STREET

CITY STATE ZIP

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 *Donald Boyd*

SIGNATURE *Donald Boyd*

## CEMENT

AMOUNT ORDERED *240 sy A + 3 1/2 cc + 2 1/2 cc*

COMMON *240 sy "A"* @ *16.25* \$ *3900.00*

POZMIX @

GEL *5 sy* @ *21.25* *106.25*

CHLORIDE *8 sy* @ *58.20* *465.60*

ASC @

@

@

@

@

@

@

@

@

HANDLING *253* @ *2.25* *569.25*

MILEAGE *15 x .11 x 253* *417.45*

TOTAL *5458.55*

## SERVICE

DEPTH OF JOB *202'*

PUMP TRUCK CHARGE *1125-*

EXTRA FOOTAGE @

MILEAGE *15* @ *7.00* *105-*

MANIFOLD @

*light vehicle* *15* @ *4.00* *60-*

@

TOTAL *\$1290.00*

## PLUG & FLOAT EQUIPMENT

@

@

@

@

@

TOTAL

SALES TAX (If Any)

TOTAL CHARGES *\$6748.55*

DISCOUNT *1349.71 / 208* IF PAID IN 30 DAYS

*None*

*JUN 22 2012*

# ALLIED CEMENTING CO., LLC. 32682

Federal Tax ID # 20-5975804

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

SERVICE POINT:

*Medicine Lodge*

DATE <i>6-15-12</i>	SEC <i>23</i>	TWP <i>34s</i>	RANGE <i>11W</i>	CALL OUT <i>4:00AM</i>	ON LOCATION <i>6:00AM</i>	JOB START <i>1:15</i>	JOB FINISH <i>2:15</i>
LEASE <i>Dial</i>	WELL # <i>F2</i>	LOCATION <i>2810. Berlane E to Bethel Rd</i>			COUNTY <i>Barber</i>	STATE <i>KS</i>	
OLD OR NEW (Circle one)				<i>Sta Angus Rd, W to line, 1/2 S, W into</i>			

CONTRACTOR *Duke 7*  
TYPE OF JOB *Production*  
HOLE SIZE *7 7/8* T.D. *5173*  
CASING SIZE *5 1/2* DEPTH *5042*  
TUBING SIZE DEPTH  
DRILL PIPE DEPTH  
TOOL DEPTH  
PRES. MAX MINIMUM  
MEAS. LINE SHOE JOINT *44.22*  
CEMENT LEFT IN CSG. *44.22*  
PERFS.  
DISPLACEMENT *121 Bbls*  
EQUIPMENT

PUMP TRUCK CEMENTER *Don G*  
# *545-548* HELPER *Eddie P*  
BULK TRUCK  
# *421-252* DRIVER *Troy L*  
BULK TRUCK  
# DRIVER

REMARKS:

*See Cement Log*

OWNER *Woolsey Operating*  
CEMENT  
AMOUNT ORDERED *90x 60 1/4 1/2 3/4 gel*  
*150 SK H + 102 gyp + 102 Salt + 102 Kolsal*  
*220 EL-160 + 472 No Seal*  
COMMON *54 @ 16.25 877.50*  
POZ MIX *36 @ 8.50 306.00*  
GEL *4 @ 21.25 85.00*  
CHLORIDE  
ASC  
KOL *13 @ 31.25 406.25*  
"H" *150 @ 19.25 2887.50*  
GYP *14 @ 34.20 478.80*  
SIT *16 @ 12.00 192.00*  
KOL seal *900 @ .87 801.00*  
EL-160 *10 @ 17.20 172.00*  
Fla Seal *375 @ 2.70 101.25*  
HANDLING *842 @ 2.10 1768.20*  
MILEAGE *12.46 / 15 / 2.35 439.26*  
TOTAL *9,127.92*

SERVICE

DEPTH OF JOB *5173'*  
PUMP TRUCK CHARGE *2,695.00*  
EXTRA FOOTAGE @  
MILEAGE *15 @ 7.00 105.00*  
MANIFOLD @  
Light Veh. *15 @ 4.00 60.00*  
TOTAL *3,060.00*

CHARGE TO: *Woolsey Operating*  
STREET  
CITY STATE ZIP

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

PRINTED NAME *Donald Boyd*

SIGNATURE *Donald Boyd*

*5 1/2* PLUG & FLOAT EQUIPMENT

*1-AFH Float Shoe @ 349.00 349.00*  
*1-batch Down Plug @ 277.00 277.00*  
*10-Turbolizers @ 80.00 800.00*  
*24-Recip. Seccatchers @ 74.00 1,774.00*  
TOTAL *3,250.00*

SALES TAX (If Any) *15437.92*  
TOTAL CHARGES *3087.58 / 108*  
DISCOUNT *12,350.34*  
IF PAID IN 30 DAYS

# ALLIED OIL & GAS SERVICES, LLC 054045

Federal Tax I.D.# 20-5975804

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

SERVICE POINT:

DATE <u>7-28-12</u>	SEC.	TWP.	RANGE	CALLED OUT	ON LOCATION	JOB START <u>12:00pm</u>	JOB FINISH <u>1:30pm</u>
LEASE <u>D-1</u>	WELL # <u>F-2</u>	LOCATION <u>Gerlong to Bethel south to Angus</u>				COUNTY <u>Barber</u>	STATE <u>KS</u>
OLD OR NEW (Circle one)		<u>west to Gene K. south west to</u>					

CONTRACTOR Red Hills  
TYPE OF JOB grout  
HOLE SIZE \_\_\_\_\_ T.D. \_\_\_\_\_  
CASING SIZE 5 1/2" DEPTH \_\_\_\_\_  
TUBING SIZE 2 7/8" DEPTH 4700'  
DRILL PIPE \_\_\_\_\_ DEPTH \_\_\_\_\_  
TOOL \_\_\_\_\_ DEPTH \_\_\_\_\_  
PRES. MAX 1100 psi MINIMUM \_\_\_\_\_  
MEAS. LINE \_\_\_\_\_ SHOE JOINT \_\_\_\_\_  
CEMENT LEFT IN CSG. \_\_\_\_\_  
PERFS. \_\_\_\_\_  
DISPLACEMENT 27 bbls  
EQUIPMENT

OWNER W. Wayne Operating  
CEMENT  
AMOUNT ORDERED 60.5x class #1 2 1/2" x 5 1/2" soft  
175.5x class #1 2 1/2" x 5 1/2" soft

COMMON <u>H 225 SX</u>	@ <u>19.25</u>	<u>4331.25</u>
POZ MIX	@	
GEL <u>1.5x</u>	@ <u>21.25</u>	<u>21.25</u>
CHLORIDE	@	
ASC	@	
<u>5217 24 SX</u>	@ <u>12.00</u>	<u>288.00</u>
	@	
	@	
	@	
	@	
	@	
	@	
HANDLING <u>241</u>	@ <u>2.10</u>	<u>506.10</u>
MILEAGE <u>10.70/15/235</u>		<u>384.22</u>
		<u>163.49</u>
		<u>TOTAL 5530.82</u>

PUMP TRUCK CEMENTER Matthew Sch 1  
# 0471/302 HELPER Brett 6025/1 mile 2  
BULK TRUCK  
# 364 DRIVER Troy Leiz 3  
BULK TRUCK  
# DRIVER

REMARKS:

**WELL FILE**

Regulatory Correspondence  
Drig / Comp Workovers  
Tests / Meters Operations

SERVICE

DEPTH OF JOB <u>4700'</u>		
PUMP TRUCK CHARGE	<u>1050.00</u>	
EXTRA FOOTAGE	@	
MILEAGE <u>15</u>	@ <u>7.00</u>	<u>105.00</u>
MANIFOLD <u>Excessum Field</u>	@	<u>200.00</u>
<u>1347 vehicle 15</u>	@ <u>4.00</u>	<u>60.00</u>
	@	

TOTAL 1415.00

CHARGE TO: W. Wayne Operating  
STREET \_\_\_\_\_  
CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

PLUG & FLOAT EQUIPMENT

	@	
	@	
	@	
	@	
	@	

TOTAL AUG 20 2012

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.

SALES TAX (If Any) \_\_\_\_\_  
TOTAL CHARGES 6945.82  
DISCOUNT 20/1389.17 IF PAID IN 30 DAYS  
NET 5556.65

PRINTED NAME Allen F. Dick  
SIGNATURE [Signature]

# ALLIED OIL & GAS SERVICES, LLC 053861

Federal Tax I.D.# 20-5975804

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

SERVICE POINT:

Medicine Lodge, KS

DATE 07-26-12	SEC. 23	TWP. 34S	RANGE 11W	CALLED OUT	ON LOCATION	JOB START	JOB FINISH 7:30 PM
LEASE Dried F		WELL # 2	LOCATION			COUNTY Barber	STATE KS
OLD OR NEW (Circle one)				1-05			

CONTRACTOR Red Hills w/s  
TYPE OF JOB Squeeze  
HOLE SIZE T.D.  
CASING SIZE 5 1/2" 15' DEPTH  
TUBING SIZE 2 7/8" DEPTH 4543  
DRILL PIPE DEPTH  
TOOL DEPTH  
PRES. MAX 2 (20) MINIMUM  
MEAS. LINE SHOE JOINT  
CEMENT LEFT IN CSG. Approx. 85'  
PERFS.  
DISPLACEMENT 27 1/2 Bbls Fresh H<sub>2</sub>O

## EQUIPMENT

PUMP TRUCK CEMENTER D. Fedio /  
#558-555 HELPER D. Franklin /  
BULK TRUCK  
#353-290 DRIVER B. Boon 3  
BULK TRUCK  
# DRIVER

## REMARKS:

Sec Job 100  
left 500# on well  
THX

OWNER Woolsey  
CEMENT  
AMOUNT ORDERED 150 sx class H+ 5%  
Salt

COMMON class # 150sx @ 19.25	2887.50
POZ MIX @	
GEL @	
CHLORIDE @	
ASC @	
Salt 8sx @ 12.00	96.00
HANDLING 155.3 (min) @ 2.10	324.00
MILEAGE 7.24 x 15 x 2.35	252.21
107.32	TOTAL \$359.71

## SERVICE

DEPTH OF JOB 4543	
PUMP TRUCK CHARGE	1050.00
EXTRA FOOTAGE @	
MILEAGE 15 @ 7-	105.00
MANIFOLD Squeeze @	250.00
Light + Bulk 15 @ 4-	60.00

TOTAL 1465.00

CHARGE TO: Woolsey  
STREET  
CITY Regulatory STATE Correspondence  
Drig / Comp Work ZIPS  
Tests / Meters Operations

## PLUG & FLOAT EQUIPMENT

None	@	
	@	
	@	
	@	
	@	

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 Allen F. Dick

SIGNATURE Allen F. Dick

SALES TAX (If Any) 10%  
TOTAL CHARGES \$5044.71  
DISCOUNT 20% \$1008.94 IF PAID IN 30 DAYS

\$4035.77

AUG 20 2012

# ALLIED OIL & GAS SERVICES, LLC 053984

Federal Tax I.D.# 20-5975804

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

SERVICE POINT:  
Medicine Lodge, KS

DATE <u>7-31-2012</u>	SEC. <u>23</u>	TWP. <u>34S</u>	RANGE <u>11W</u>	CALLED OUT	ON LOCATION	JOB START <u>12:30</u>	JOB FINISH <u>1:30pm</u>
LEASE <u>D. &amp; F</u>		WELL # <u>2</u>		LOCATION <u>2810 Gordon Rd, east to</u>		COUNTY <u>Barber</u>	STATE <u>KS</u>
OLD OR (NEW) (Circle one)		Bethel, South to BNSF, West to Creek Rd, 4th, W. 1st					

CONTRACTOR Red H. 115

TYPE OF JOB Sever

HOLE SIZE \_\_\_\_\_ T.D. \_\_\_\_\_

CASING SIZE 5 1/2 DEPTH \_\_\_\_\_

TUBING SIZE 2 7/8 DEPTH 4476

DRILL PIPE \_\_\_\_\_ DEPTH \_\_\_\_\_

TOOL \_\_\_\_\_ DEPTH \_\_\_\_\_

PRES. MAX \_\_\_\_\_ MINIMUM \_\_\_\_\_

MEAS. LINE \_\_\_\_\_ SHOE JOINT \_\_\_\_\_

CEMENT LEFT IN CSG. \_\_\_\_\_

PERFS. 4600'-4601'

DISPLACEMENT 15 1/2 bbls of fresh water

OWNER Woolsey Operating

CEMENT

AMOUNT ORDERED 100 sv Class 112542504

COMMON Class 112542504	@ 19.25	1925.00
POZMIX	@	
GEL	@	
CHLORIDE	@	
ASC	@	
Sgt 1/2 2542504	@ 23.95	119.75

**WELL FILE**

Regulatory Correspondence  
Drill Comp Workovers  
Operations

HANDLING Tests / Meters \_\_\_\_\_

MILEAGE \_\_\_\_\_

TOTAL 2044.75

PUMP TRUCK CEMENTER D. & F.

# 360-265 HELPER Jason T.

BULK TRUCK

# 381-290 DRIVER Kevin W. 3

BULK TRUCK

# \_\_\_\_\_ DRIVER \_\_\_\_\_

## REMARKS:

Log backside to 500 psi, Injection Rate  
2 1/2 bpm at 1400 psi, in 100 sv of cement  
Shut down, wash pump & lines, Displace  
on u/c on for 13 1/2 bbls, pump 1/2 bpm 2 bbls  
Block back hole, Pressure out with 20 bbls  
Pull 5 strokes, Pressure Way to 500 psi.  
Shut in

CHARGE TO: Woolsey Operating

STREET \_\_\_\_\_

CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

## SERVICE

DEPTH OF JOB <u>4476</u>		
PUMP TRUCK CHARGE		1050.00
EXTRA FOOTAGE	@	
MILEAGE <u>23</u>	@ 7.00	161.00
MANIFOLD <u>Sever</u>	@	250.00
1 1/2 hr work	@ 4.00	92.00

TOTAL 1553.00

## PLUG & FLOAT EQUIPMENT

<u>none</u>	@	
	@	
	@	
	@	
	@	

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 x Allen F. Dick

SIGNATURE x Allen F. Dick

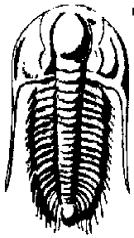
SALES TAX (If Any) \_\_\_\_\_

TOTAL CHARGES 3597.75

DISCOUNT 20 719.55 IF PAID IN 30 DAYS

Net \$3597.75

AUG 20 2012



**TRILOBITE**  
**TESTING, INC.**

## DRILL STEM TEST REPORT

Woolsey Operating CO LLC

**23-34s-11w**

125 N Market STE 1000  
Wichita KS 67202

**Diel F #2**

Job Ticket: 47556

**DST#: 1**

ATTN: Dean Pattisson/Scott

Test Start: 2012.06.11 @ 18:13:00

### GENERAL INFORMATION:

Formation: **Mississippi**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 22:16:45

Time Test Ended: 05:18:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Chris Staats

Unit No: 47

**Interval: 4551.00 ft (KB) To 4696.00 ft (KB) (TVD)**

Total Depth: 4696.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1340.00 ft (KB)

1327.00 ft (CF)

KB to GR/CF: 13.00 ft

**Serial #: 6773 Outside**

Press @ Run Depth: 60.88 psig @ 4552.00 ft (KB)

Start Date: 2012.06.11

End Date:

2012.06.12

Start Time: 18:13:05

End Time:

05:18:30

Capacity: 8000.00 psig

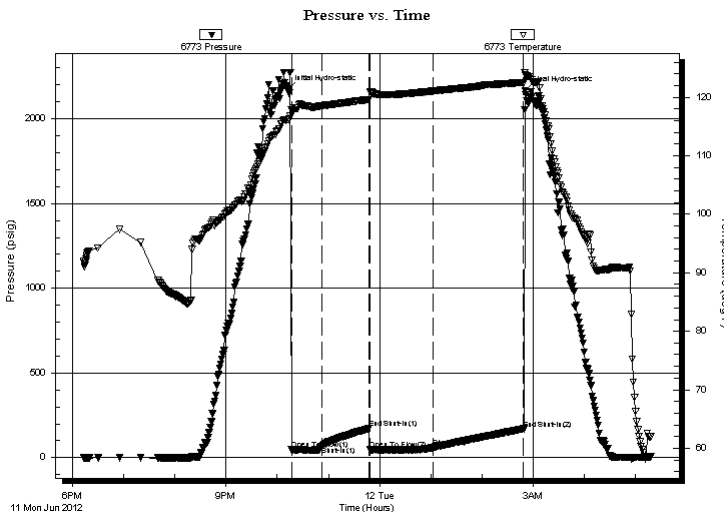
Last Calib.: 2012.06.12

Time On Btm: 2012.06.11 @ 22:12:45

Time Off Btm: 2012.06.12 @ 02:51:00

TEST COMMENT: IF: Fair blow 5"  
IS: No blow back  
FF: Fair blow 5"  
FS: No blow back

### PRESSURE SUMMARY



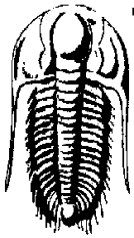
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2169.84	116.18	Initial Hydro-static
4	47.57	117.91	Open To Flow (1)
40	68.63	118.53	Shut-In(1)
95	173.41	119.63	End Shut-In(1)
97	47.98	120.97	Open To Flow (2)
170	60.88	121.06	Shut-In(2)
276	170.63	122.56	End Shut-In(2)
279	2166.91	123.77	Final Hydro-static

### Recovery

Length (ft)	Description	Volume (bbl)
60.00	mud	0.30

### Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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**TRILOBITE**  
**TESTING, INC.**

## DRILL STEM TEST REPORT

Woolsey Operating CO LLC

**23-34s-11w**

125 N Market STE 1000  
Wichita KS 67202

**Diel F #2**

Job Ticket: 47556

**DST#: 1**

ATTN: Dean Pattisson/Scott

Test Start: 2012.06.11 @ 18:13:00

### GENERAL INFORMATION:

Formation: **Mississippi**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 22:16:45

Time Test Ended: 05:18:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Chris Staats

Unit No: 47

**Interval: 4551.00 ft (KB) To 4696.00 ft (KB) (TVD)**

Total Depth: 4696.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1340.00 ft (KB)

1327.00 ft (CF)

KB to GR/CF: 13.00 ft

**Serial #: 6755 Inside**

Press @ Run Depth: psig @ 4552.00 ft (KB)

Start Date: 2012.06.11

End Date:

2012.06.12

Start Time: 18:13:05

End Time:

05:22:30

Capacity: 8000.00 psig

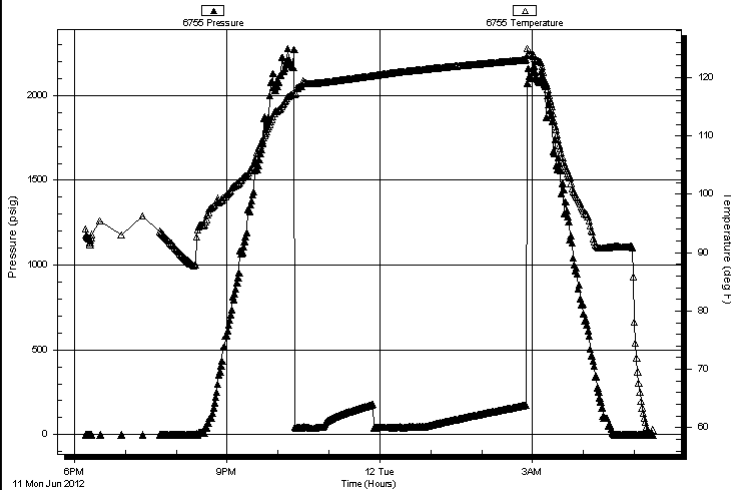
Last Calib.: 2012.06.12

Time On Btm:

Time Off Btm:

TEST COMMENT: IF: Fair blow 5"  
IS: No blow back  
FF: Fair blow 5"  
FS: No blow back

Pressure vs. Time



### PRESSURE SUMMARY

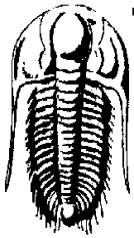
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
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### Recovery

Length (ft)	Description	Volume (bbl)
60.00	mud	0.30

### Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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**TRILOBITE**  
**TESTING, INC.**

## DRILL STEM TEST REPORT

### FLUID SUMMARY

Woolsey Operating CO LLC

**23-34s-11w**

125 N Market STE 1000  
Wichita KS 67202

**Diel F #2**

Job Ticket: 47556

**DST#: 1**

ATTN: Dean Pattisson/Scott

Test Start: 2012.06.11 @ 18:13:00

### Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 50.00 sec/qt

Water Loss: 8.98 in<sup>3</sup>

Resistivity: 0.00 ohm.m

Salinity: 3000.00 ppm

Filter Cake: 0.02 inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

ft

bbl

psig

Oil API:

Water Salinity:

deg API

ppm

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	mud	0.295

Total Length: 60.00 ft

Total Volume: 0.295 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

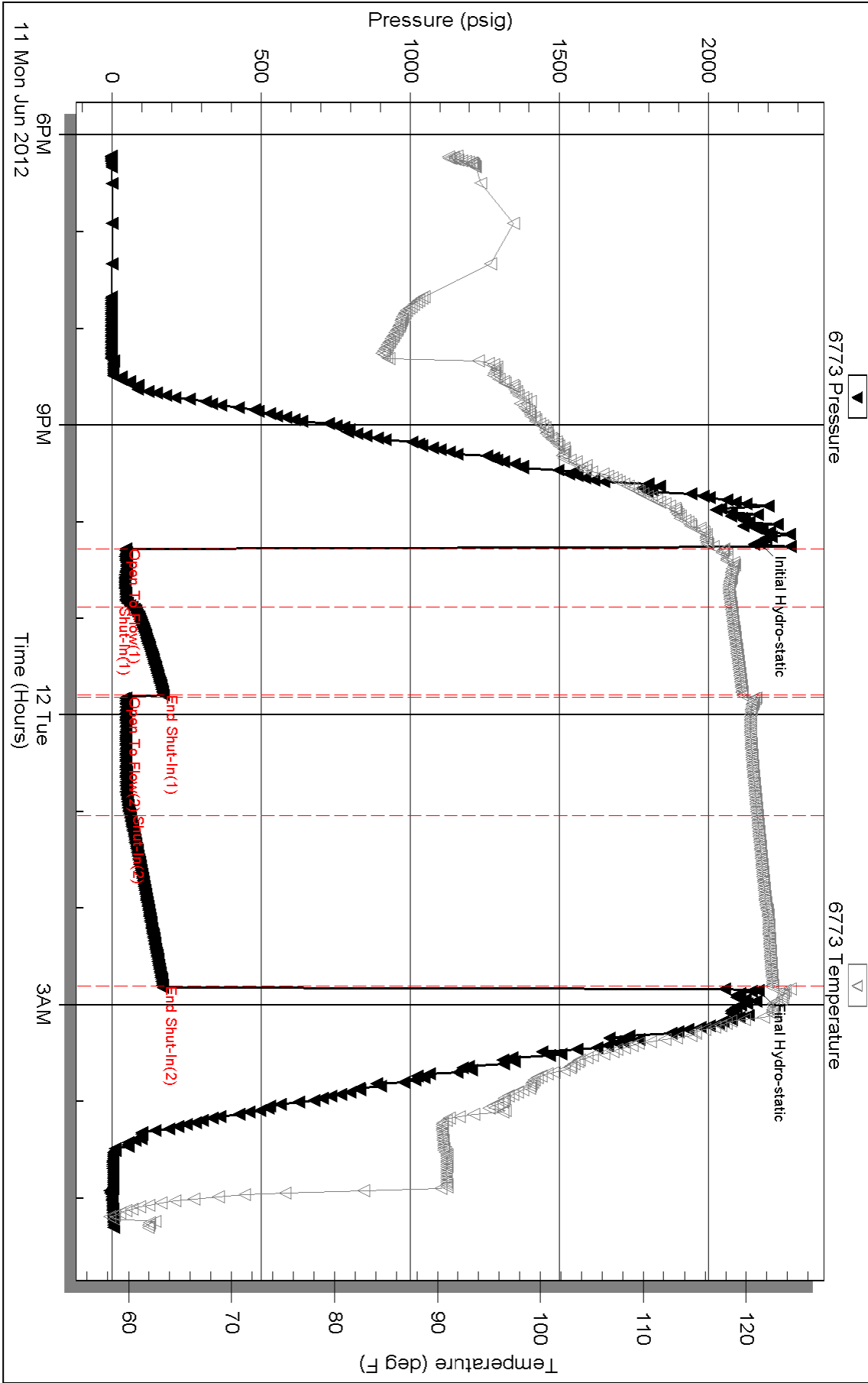
Serial #: 6773

Outside Woodsey Operating CO LLC

Del F #2

DST Test Number: 1

Pressure vs. Time



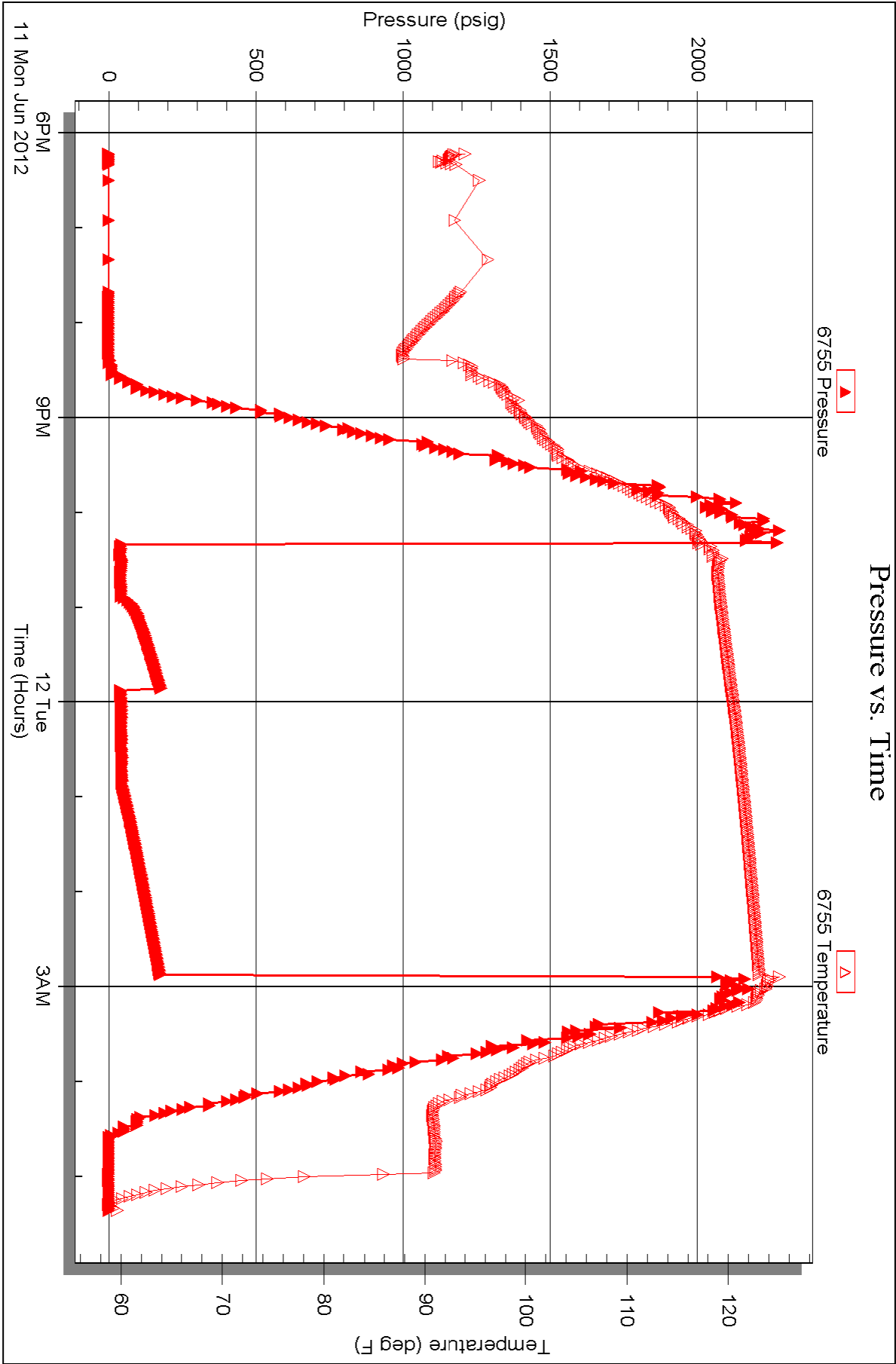
Serial #: 6755

Inside

Woodsey Operating CO LLC

Diel F #2

DST Test Number: 1





**Woolsey Operating Company, LLC**

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

Well Name: Diel F #2  
Location: N/2 S/2 SW SW  
License Number: API: 15-007-23885-00-00  
Spud Date: June 7, 2012  
Surface Coordinates: 495' FSL, 660' FWL Section 23-Twp 34 South - Rge 11 West  
Bottom Hole Coordinates: Vertical Hole  
Ground Elevation (ft): 1327  
Logged Interval (ft): 4000 To: 5173  
Formation: McLish Shale  
Type of Drilling Fluid: Chemical Mud, Displace at 3115'

Region: Barber County, Kansas

Drilling Completed: June 14, 2012

K.B. Elevation (ft): 1340

Total Depth (ft): 5173

Printed by WellSight Log Viewer from WellSight Systems 1-800-447-1534 [www.WellSight.com](http://www.WellSight.com)

**OPERATOR**

Company: Woolsey Operating Company, LLC  
Address: 125 N. Market, Suite 1000  
Wichita, KS 67202

**GEOLOGIST**

Name: W. Scott Alberg  
Company: Alberg Petroleum, LLC  
Address: 609 Meadowlark Lane  
Pratt, Kansas 67124

## FORMATION TOPS

### SAMPLE TOPS

### LOG TOPS

HUSHPUCKNEY SHALE	4380(-3040)	4381(-3041)
B/KC	4434(-3094)	4432(-3092)
PAWNEE	4530(-3191)	4529(-3190)
CHEROKEE GROUP	4582(-3242)	4582(-3242)
MISSISSIPPIAN	4650(-3310)	4644(-3304)
KINDERHOOK SHALE	4908(-3568)	4905(-3565)
WOODFORD SHALE	4927(-3587)	4926(-3586)
VIOLA	4951(-3611)	4951*(-3611)
SIMPSON GROUP	5082(-3742)	5082(-3742)
SIMPSON SAND	5104(-3765)	5098(-3759)
MCLISH SHALE	5144(-3804)	5147(-3807)
RTD	5173(-3833)	
LTD		5174(-3834)

## COMMENTS

Surface Casing: Set 5 joints 10 3/4" at 219' with 240 sxs Class A, 2% gel, 3% cc, plug down at 9:30 pm on June 6, 2012. Cement did Circulate.

Production Casing: Ran 5 1/2" Casing

Deviation Surveys: 1/4 - 219', 3/4 - 547', 3/4 - 1016', 3/4 - 1516', 1/2 - 1986. 1/4 - 2488', 1/2 - 3021', 1/2 - 3490, 1/2 - 3615', 3/4 - 3742', 1/2 - 3867', 1 - 3962', 1/2 - 4025', 1/2 4118', 1 1/2 - 4274', 1 1/4 - 4401', 3/4 - 4495', 1 1/2 - 4696', 1 1/2 - 4779', 1 - 4904', 1-5173'.

Contractor Bit Record:

- 1- 14 3/4" out at 219'.
- 2- 7 7/8" out at 4401'(PDC)
- 3 - 7 7/8" out at 5173'.

Pipe Strap - 4403.62'

Board - 4401.25'

Strap 2.37' long

Gas Detector: Woolsey Operating Company, Trailer #1

Mud System: Mud Co, Brad Bortz, Engineer

DSTs: Trilobite Testing

Logged by Superior Well Services.

LTD - 5174'.

## DSTs

DST #1 4551-4696 Mississippi

Times 30-60-60-120

1st opening - fair blow 5 inches - no blow back

2nd Opening - fair blow 5 inches - no blow back

Recovery: 60' Drilling Mud (slight odor at tool)

IFP 48-69# FFP 48-61#

ISIP 173# FSIP 170#

IHP 2170# FHP 2167#

Temp 120

## CREWS

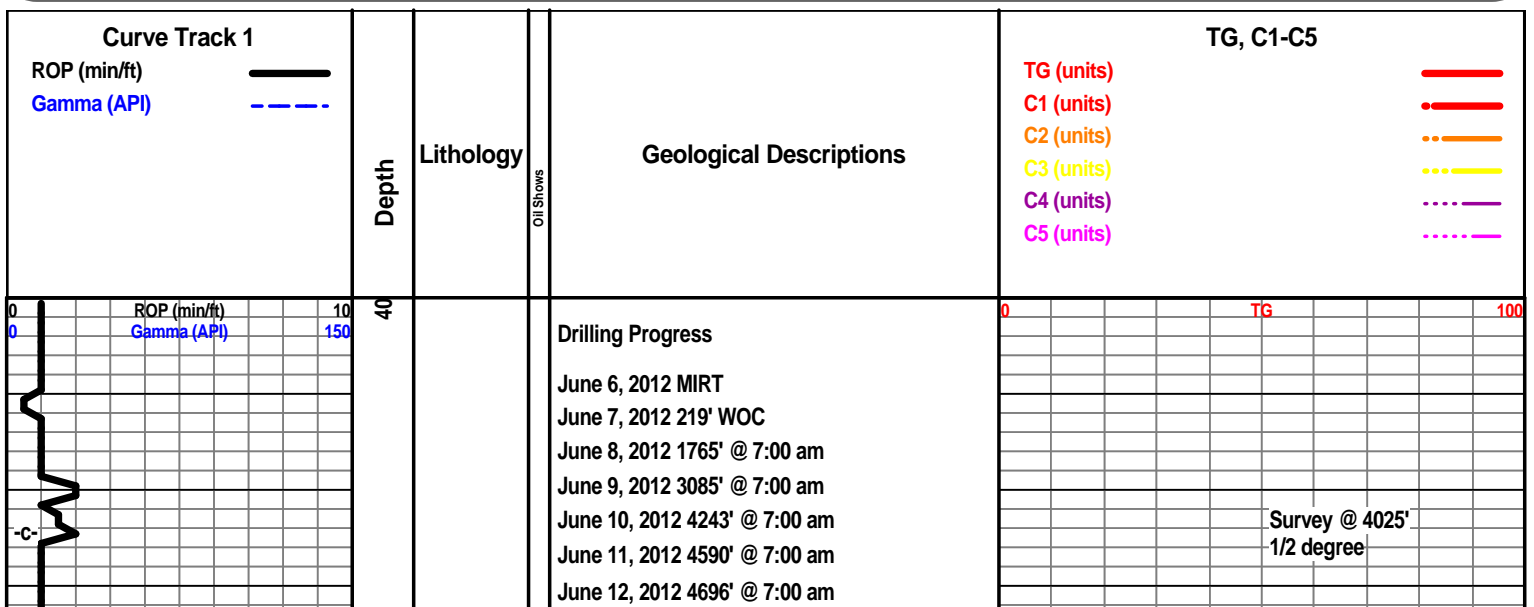
Duke Drilling  
Tool Pusher - Galen Roach  
Drillers - Shane Meitler  
Charles Stout  
Craig Mertens

## ROCK TYPES

	Anhy		Congl		Lmst		Black sh
	Bent		Sdy dolo		Mrlst		Gry sh
	Brec		Shy dolo		Salt		Shale
	Cht		Dol		Shale		Shyslts
	Clyst		Gyp		Sltst		Sltys
	Coal		Sdy lmst		Ss		

## ACCESSORIES

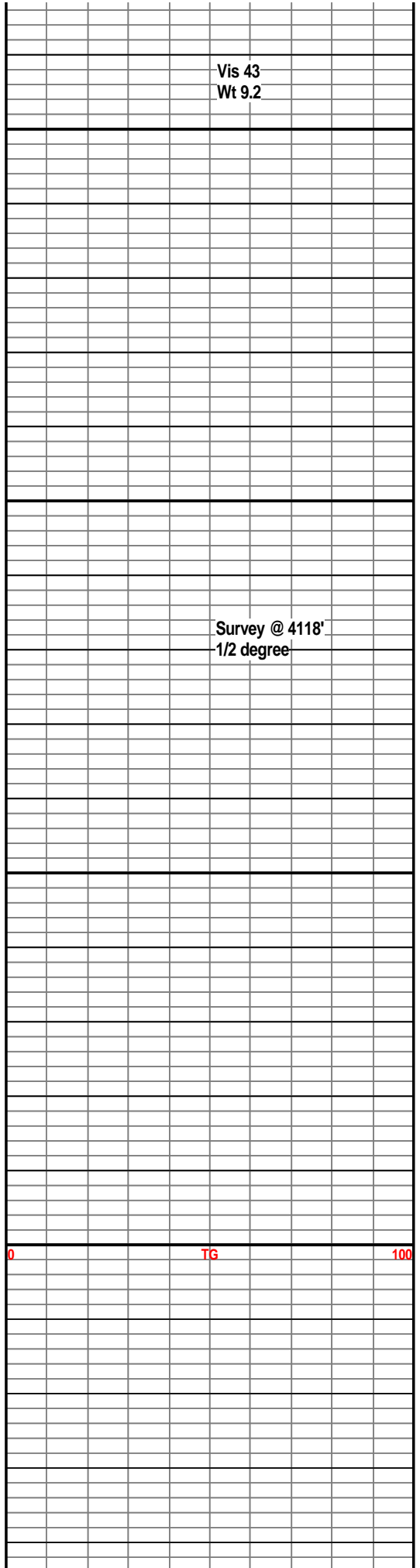
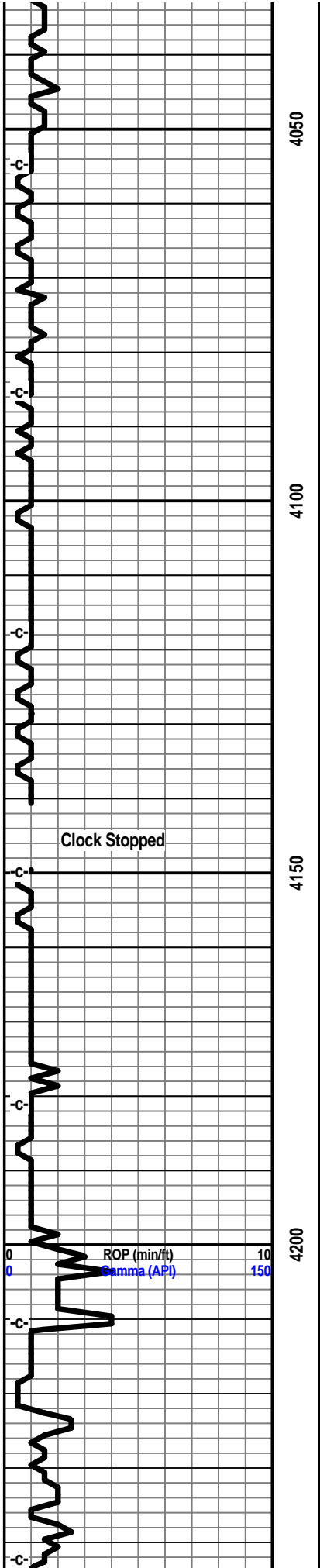
MINERAL		FOSSIL		STRINGER		TEXTURE	
	Anhy		Chlorite		Pelec		Grysh
	Arg		Dol		Pellet		Gryslt
	Bent		Sand		Pisolite		Lms
	Bit		Silty		Plant		Sandylms
	Brecfrag				Strom		Sh
	Calc		Algae		Fuss		Sltstn
	Carb		Amph		Oomoldic		
	Chtdk		Belm				
	Chtlt		Bioclst		Anhy		Boundst
	Dol		Brach		Arg		Chalky
	Ferrpel		Bryozoa		Bent		Cryxln
	Ferr		Cephal		Coal		Earthy
	Glau		Coral		Dol		Finexln
	Gyp		Crin		Gyp		Grainst
	Marl		Echin		Ls		Lithogr
	Nodule		Fish		Mrst		Microxln
	Phos		Foram		Sltstrg		Mudst
	Pyr		Fossil		Ssstrg		Packst
	Salt		Gastro		Carbsh		Wackest
	Sandy		Oolite		Clystn		
	Silt		Ostra		Dol		

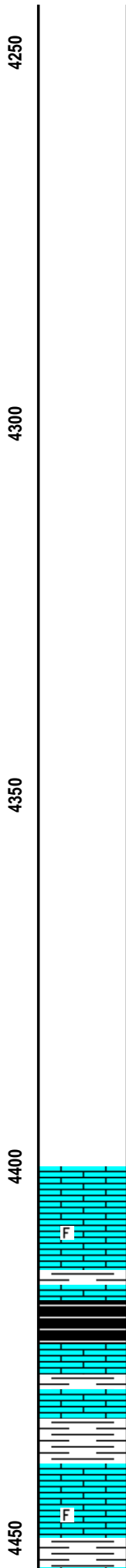
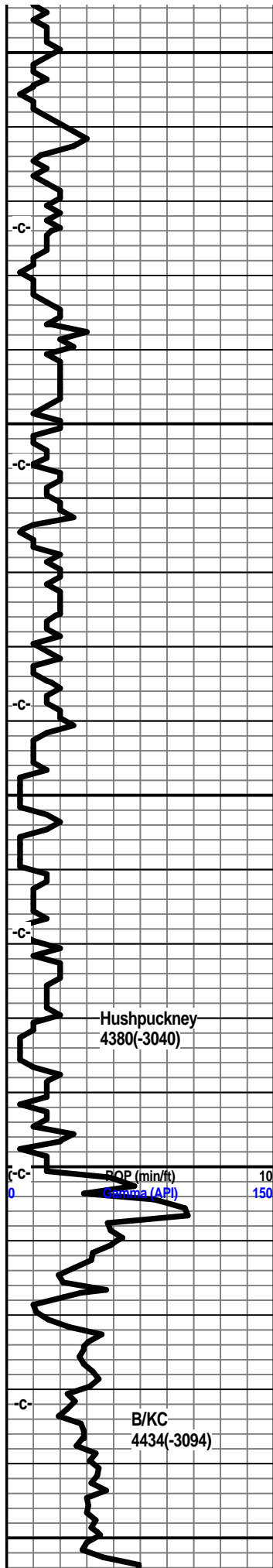


June 13, 2012 4975' @ 7:00 am  
June 14, 2012 5155' @ 7:00 am  
June 15, 2012 5173' @ 7:00 am Running Casing

Vis 43  
Wt 9.2

Survey @ 4118'  
1/2 degree





Limestone, cream, tan, buff, xln, dense, trace foss.

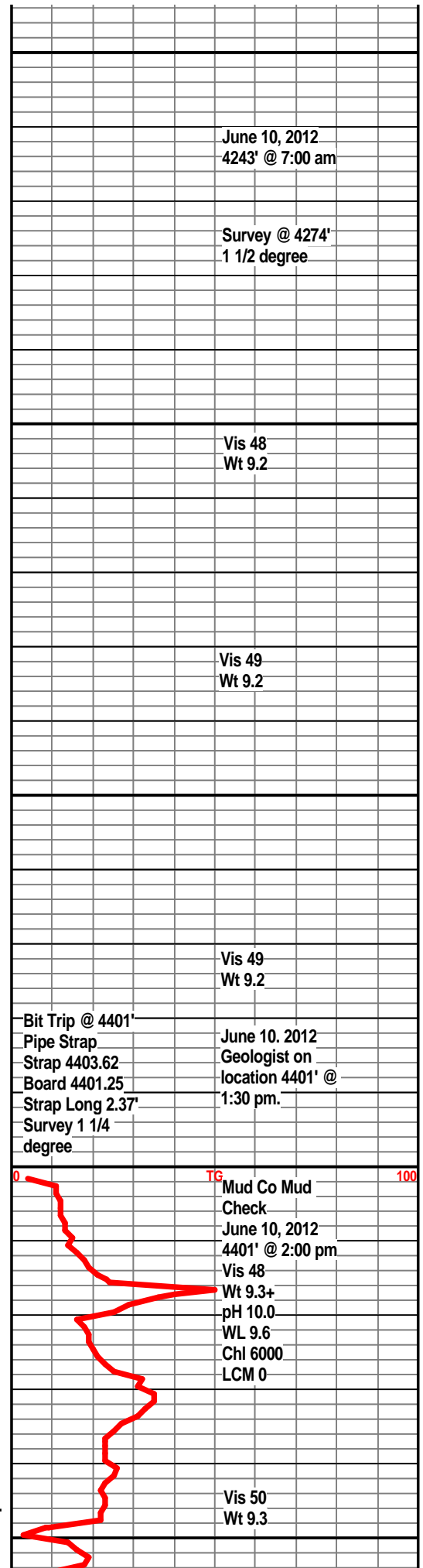
Shale, grey-black, silty, slightly carb.

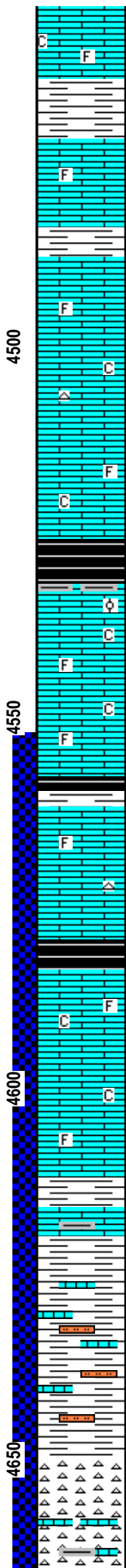
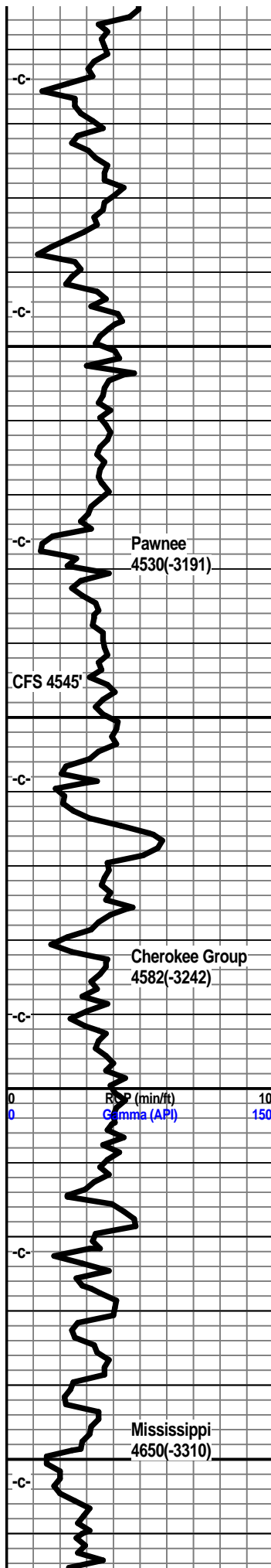
Limestone, tan, cream, brown, xln, dense, slightly foss.

Shale, light grey, slightly silty.

Liimestone, tan-brown, xln, dense, foss in part.

Shale, light grey, silty, green





Shale, light grey, pale green.  
Limestone, pale green, light grey, xln, dense, subchalky, trace foss.

Shale, grey, light green, calcitic.

Limestone, cream, tan, pale grey-green, xln, slightly shaley, trace foss, trace chalky.

Shale, light grey, grey.

Limestone, cream, tan, buff, light grey-green, xln, dense, slightly foss, subchalky.

Limestone, buff-white, tan, xln, dense in part, subchalky, trace foss, trace tan chert.

Shale, grey-black, slightly carb.

Limestone, tan, cream, buff, xln, fxln, poor xln porosity, foss in part, trace oolite, trace foss frags, no visible shows, slightly chalky in part, dull mineral fluor.

Limestone, tan, buff-tan, xln, dense, slightly foss, trace chalky.

Shale, grey, dark grey.

Limestone, tan, cream, buff, xln, dense, slightly foss, trace tan chert.

Shale, grey-black, slightly carb.

Limestone, buff, grey-white, xln, dense, foss, sub chalky.

Limestone, tan, grey-white, fxln, dense, trace foss, trace chalky.

Shale, grey, light grey.

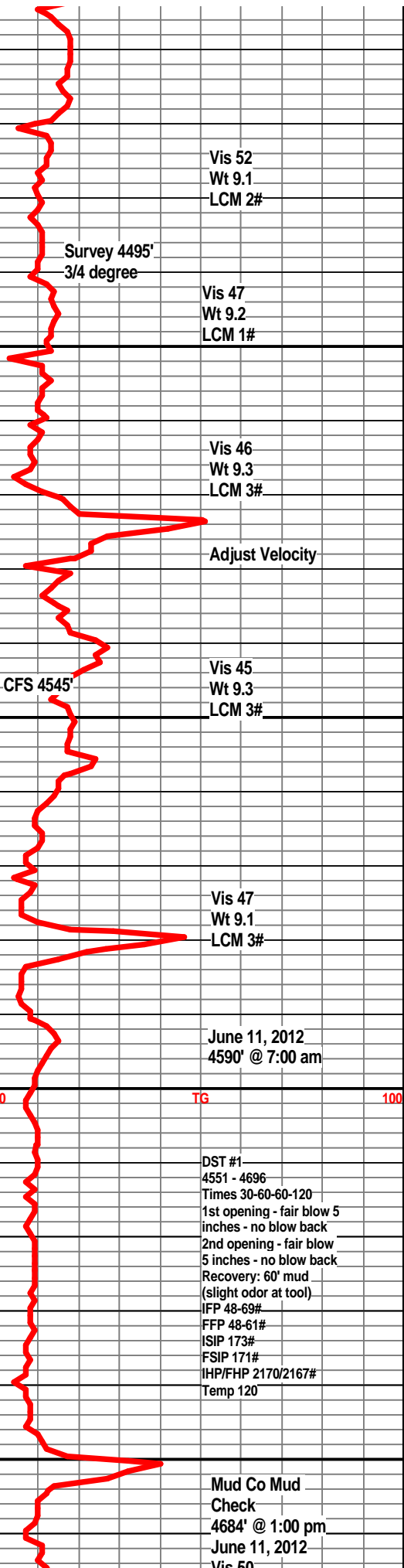
Limestone, tan, buff, xln, some vari-colored shales.

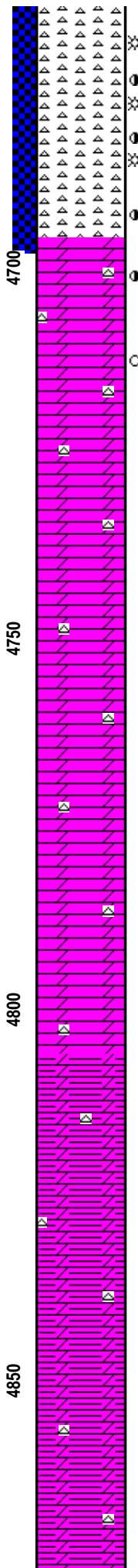
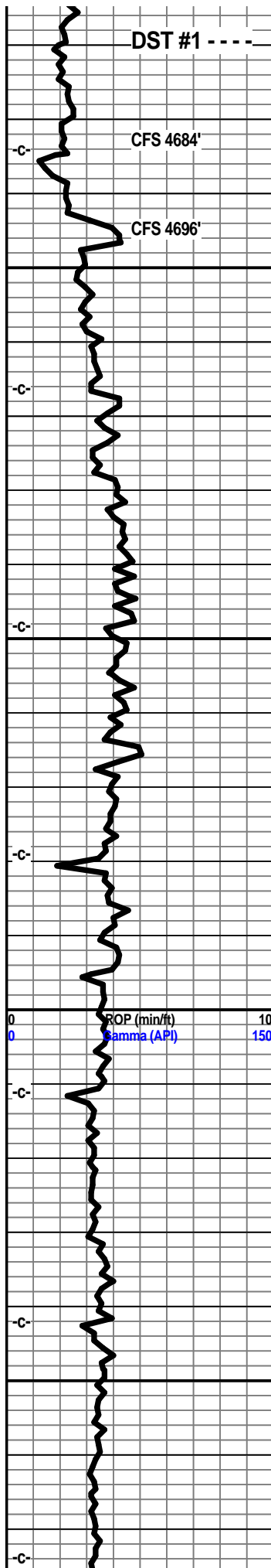
Shale, light grey, grey, some vari-colored, limestone, frags.

Shale, vari-colored, soft, silty, some embedded sand grains, ls frags, few pieces vari-colored chert.

Chert, grey-white, sharp, v. slightly weathered, mostly fresh, trace pp porosity, slight show gas, questionable dark stain, some lighter stain along fractured edges, abundant shales and ls frags.

Chert, grey-white, sharp, abundant ls frags, some slight staining, fresh cherts, vari-colored shales.





Chert, grey-white, off-white, sharp to weathered, some pp porosity, trace light brown staining, very slight show oil, no odor, some light brown edge staining, dull fluor.

Chert, off-white, buff, light grey, pale green, sharp to weathered, traces of pp porosity, slight show oil, faint odor, very few small vugs, light brown spotted staining, few grey green shales.

60 min - chert a/a - good show of oil, fair odor

Chert, off-white, grey, tan, weathered to sharp, pp porosity, small vugs, good show oil, good odor, light brown staining, dull fluor.

Dolo. grey-white, xln, dense, w/ chert a/a.

Dolo, grey-white, xln, dense, traces of weathered chert, very faint show, some spotted staining.

Dolo, grey-white, off-white, xln, dense, traces of off-white chert, very few shows of staining, mostly fresh chert.

Dolo, light grey, grey, xln, dense, traces of chert, few grey shales.

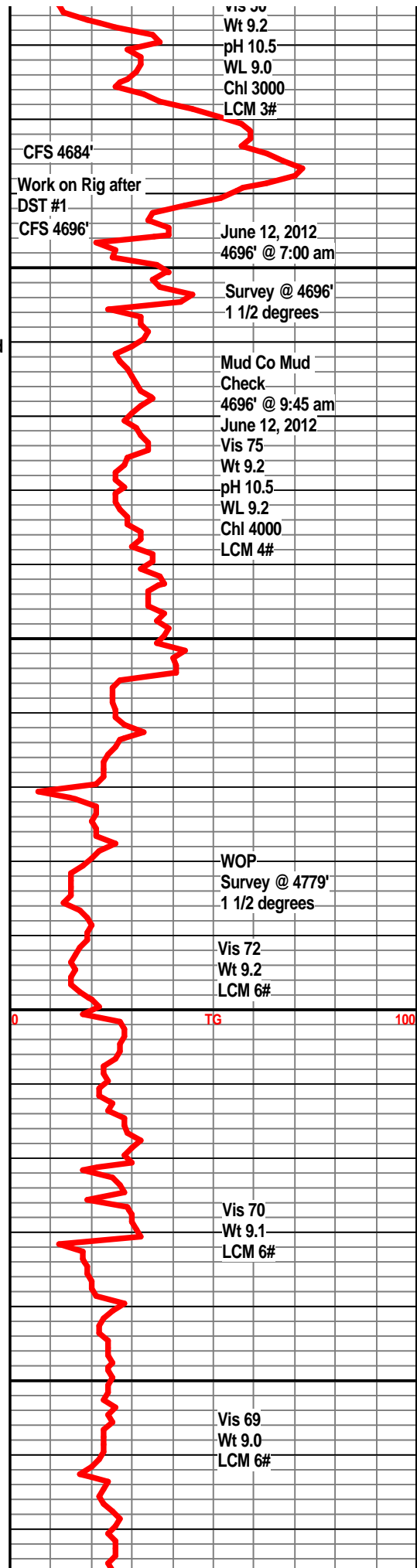
Dolo, light grey, grey, xln, light grey silty shales, trace fresh chert.

Dolo, grey, light grey-white, xln, dense, silty in texture, trace fresh chert, trace grey shale.

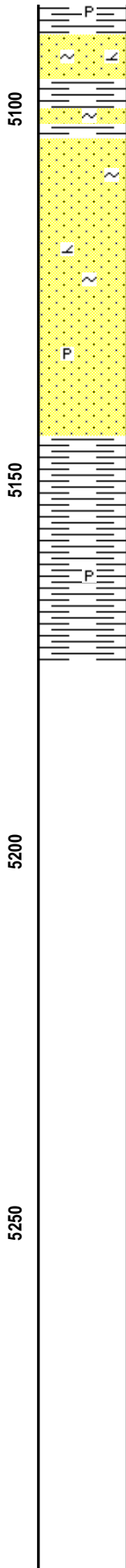
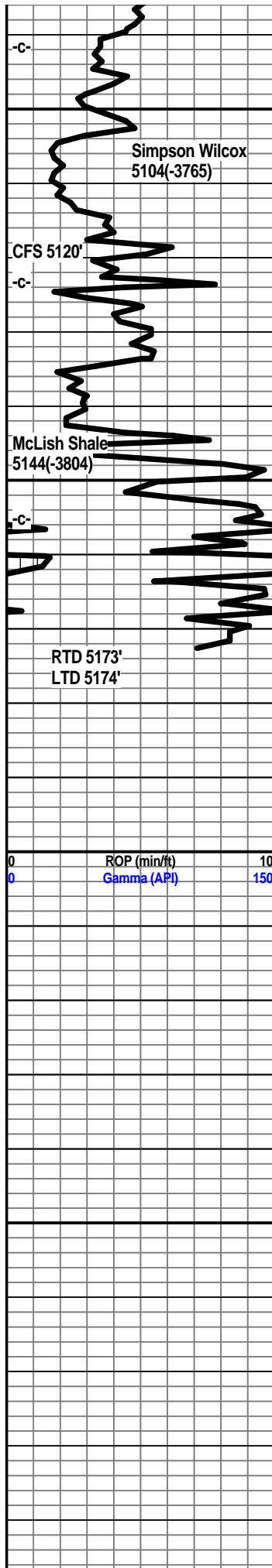
Dolo, grey, light grey, xln, slightly silty, trace fresh sharp chert, trace grey shales.

Dolo, grey, light grey, xln, silty texture, grey shales.

Dolo, light grey, grey, xln, silty, grey shales, trace chert.







pyrite.  
Sandstone, clear to grey-white, poorly sorted, well cemented, glauc, slightly dolo, slight gas indication, questionable light stain.

Shale, teal green, firm.

Sandstone, clear to frosted white, SA to SR, friable, slightly dolo in part, glauc, questionable spotted stain, no visible shows, no odor, no fluor.

Sandstone, clear, tan-white, friable in part, questionable scattered light brown staining, no odor, no fluor, glauc., slightly dolo in part.

Sandstone, grey-white, tan, friable in part, some well cemented, glauc, some gil, sa fair sorting, pyrite, no visible shows, no odor, no kick

A/A

Shale, teal green, grey-green, firm, massive, some sand stringers.

Shale, teal green, dark green, firm to soft, slightly pyritic.

