



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1220849  
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: \_\_\_\_\_

1220849

Operator Name: \_\_\_\_\_ Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West County: \_\_\_\_\_

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

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

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

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: <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 <i>(Explain)</i> _____
---	--

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

<b>DISPOSITION OF GAS:</b> <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	<b>METHOD OF COMPLETION:</b> <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	<b>PRODUCTION INTERVAL:</b> _____ _____
--	---	---





**#1 Baker 31CD Unit**

335' FSL & 2580' FWL

5°N & 60°W of S/2 S/2 S/2 Section 31-15S-34W

Logan County, Kansas

API# 15-109-21294-0000

Elevation: 3049' GL\*, 3054' KB

\*Original GL at 3046' raised 3' after building location.

Sample Tops			Ref. Well
Anhydrite	2367'	+687	+3
B/Anhydrite	2387'	+667	+1
Stotler	3494'	-440	-1
Heebner	3855'	-801	-1
Toronto	3871'	-817	flat
Lansing	3901'	-847	+1
Muncie Shale	4065'	-1011	+3
Stark Shale	4171'	-1117	-5
Hush	4217'	-1163	-4
BKC	4258'	-1204	-4
Marmaton	4283'	-1229	-6
Altamont	4313'	-1259	-3
Pawnee	4392'	-1338	-8
Myrick	4430'	-1376	-8
Fort Scott	4449'	-1395	-10
Cherokee	4479'	-1425	-13
Johnson	4556'	-1502	-9
Morrow	4607'	-1553	-13
Mississippian	4636'	-1582	-14
RTD	4780'	-1726	



**CONSOLIDATED**  
Oil Well Services, LLC

268762

TICKET NUMBER 46964  
LOCATION Oakley Ks.  
FOREMAN Darren

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
6/6/14	7173	Baker 31CD Unit #1	31	15	34	Logan Ks.
CUSTOMER			TRUCK #	DRIVER	TRUCK #	DRIVER
Ritchie Exploration			731	Cory		
MAILING ADDRESS			693	Jake		
CITY	STATE	ZIP CODE				

JOB TYPE Long String HOLE SIZE 7 7/8 HOLE DEPTH \_\_\_\_\_ CASING SIZE & WEIGHT 5 1/2, 15.5  
 CASING DEPTH 4768.74 DRILL PIPE \_\_\_\_\_ TUBING \_\_\_\_\_ OTHER Part Collar 2357 (5/8)  
 SLURRY WEIGHT 14 1/2 SLURRY VOL \_\_\_\_\_ WATER gal/sk \_\_\_\_\_ CEMENT LEFT in CASING 21' Shoe Joint  
 DISPLACEMENT 112.99 DISPLACEMENT PSI \_\_\_\_\_ MIX PSI \_\_\_\_\_ RATE \_\_\_\_\_

REMARKS: Safety Meeting Rig up on WW-8 Run Casing + Float Equipment Turbos-  
on Jts # Shoe Joint #4 #13 #18 #19 #21 #55 #57 Baskets on #11 #55 #74 #94  
Part Collar on #56 Circulate 1 hr. 5 bbl water ahead mix mud Flush 5 bbl water behind  
Plug Rathole with 30 sks OWC 5\* Kolseal 4\* CDI-26 .14 CAF-38 mix 200 sks down  
Casing Displace Plug down with 112.99 bbl water Land Plug at 1900 \* Lift 1200\*  
Float Held Shut in at 500\* Rig Down

*Thanks Darren + Crew*

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5401C	1	PUMP CHARGE	\$ 3175.00	\$ 3175.00
5406	40	MILEAGE	\$ 5.25	\$ 210.00
5407A	1081	Ton Mileage Delivery	\$ 1.75	\$ 756.20
1126	230 SKS	OWC	\$ 23.70	\$ 5451.00
1137	58 "	CDI-26	\$ 10.20	\$ 591.60
1146	32 "	CAF-38	\$ 10.20	\$ 326.40
1110 A	1150 "	Kolseal	\$ .56	\$ 644.00
1144 G	500 gal	Mud Flush	\$ 1.00	\$ 500.00
4158	1	5 1/2 AFU Float Shoe (I)	\$ 404.25	\$ 404.25
4454	1	5 1/2 Latch Down Plug Assy (I)	\$ 318.25	\$ 318.25
4136	1	5 1/2 Turbolizers (w)	\$ 75.75	\$ 606.00
4104	8	5 1/2 Baskets (w)	\$ 290.00	\$ 1160.00
4285	1	5 1/2 Part Collar (I) SR #1401494	\$ 2178.75	\$ 2178.75
		Sub Total		\$ 16321.95
		Less 10%		\$ 1632.20
		Sub Total		\$ 14689.75
		SALES TAX		838.62
		ESTIMATED TOTAL		\$ 15528.37

completed

Flavin 3737

AUTHORIZATION [Signature] TITLE \_\_\_\_\_

DATE 6/7/14

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



**CONSOLIDATED**  
Oil Well Services, LLC

268881

TICKET NUMBER 46927  
LOCATION Oak Hills  
FOREMAN Michael Shaw

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

**FIELD TICKET & TREATMENT REPORT**  
**CEMENT**

US

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
6-13-14	7173	Baller 3/CD Unit #1	31	15S	34W	Logan
CUSTOMER Ritchie Exploration			Coulter Ws S to Gold 4W 2S W to 290rd 2 1/2 S Wrs into			
MAILING ADDRESS			TRUCK #	DRIVER	TRUCK #	DRIVER
CITY			STATE	ZIP CODE		
			399	Michael R		
			597107	Steven E		

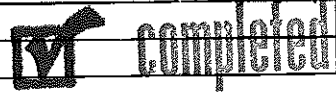
JOB TYPE Port Collar HOLE SIZE \_\_\_\_\_ HOLE DEPTH \_\_\_\_\_ CASING SIZE & WEIGHT 5 1/2" 15.5"  
CASING DEPTH 476.874 DRILL PIPE \_\_\_\_\_ TUBING 2 7/8" OTHER PL @ 2357'  
SLURRY WEIGHT 12.4 SLURRY VOL 1.9 WATER gal/sk \_\_\_\_\_ CEMENT LEFT in CASING \_\_\_\_\_  
DISPLACEMENT 12 1/2 DISPLACEMENT PSI \_\_\_\_\_ MIX PSI \_\_\_\_\_ RATE \_\_\_\_\_

REMARKS: Safety Meetings and rig upon Alternate Well Service fast casing to 1200 psi. Establish circulation mix 400 SKS 60/40 per 60 gal 1/4" Flaseal with SW # Cotton seed hulls. Shut test test to 1200 psi test shut Reversed clean with 25 bbls water

Cement did Circulate to surface 20 bbls test

Thanks Miles & crew

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5401R	1	PUMP CHARGE	1785.00	1785.00
5406	40	MILEAGE	5.25	210.00
5407A	17.2 Tons	Ton Mileage delivery	1.75	1204.00
1105	500 #	Cotton Seed hulls	.58	290.00
1107	100 #	Flaseal	2.97	297.00
1118B	2064 #	Bentonite gel	.27	557.28
1131	400 SKS	60/40 per Cement	15.86	6344.00
			Subtotal	10687.28
			less 1080.23 count	1068.73
			Subtotal	9618.55
			SALES TAX	491.10
			ESTIMATED TOTAL	10109.65



Ravin 3737 AUTHORIZATION [Signature] TITLE \_\_\_\_\_ 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.

# ALLIED OIL & GAS SERVICES, LLC 063301

Federal Tax I.D. # 20-8651475

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

SERVICE POINT:  
Oakley, ks

DATE <u>5-22-14</u>	SEC. <u>31</u>	TWP. <u>15</u>	RANGE <u>34</u>	CALLED OUT	ON LOCATION <u>6:30 PM</u>	JOB START <u>7:30 pm</u>	JOB FINISH <u>8 pm</u>
LEASE <u>Baker-31CD Unit</u>	WELL # <u>1</u>	LOCATION <u>Pance 3W, 3 3/4 N to</u>			COUNTY <u>Logan</u>	STATE <u>KS</u>	
OLD OR (NEW) (Circle one)		<u>2nd Tank Battery W, S, E side</u>					

CONTRACTOR WW 8 OWNER Same

TYPE OF JOB Surface

HOLE SIZE 12 1/4 T.D. 219' CBMENT

CASING SIZE 8 7/8 DEPTH 219' AMOUNT ORDERED 165 sk cement 320cc

TUBING SIZE DEPTH Logan

DRILL PIPE DEPTH

TOOL DEPTH

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT

CEMENT LEFT IN CSG. 151

PERFS.

DISPLACEMENT 1306

**EQUIPMENT**

PUMP TRUCK CEMENTER Falon Jones

# 431 HELPER Brandon Wilkerson (681.54/20%)

BULK TRUCK

# 891/310 DRIVER Juan Tamer (FW)

BULK TRUCK

# DRIVER Lakore E. Wauke

COMMON 165 sk @ 17.70 2953.50

POZ MIX @

GEL 3 sk @ 25.40 70.20

CHLORIDE 6 sk @ 64.00 384.00

ASC @

Material Total @ 390.70

@

@

@

@

@

@

@

HANDLING 178.86 473 @ 2.48 443.57

MILEAGE 811 mi X 85 X 2.60 1159.73

**REMARKS:**

Mix 165 sks cement  
Displace with water  
Cement did circulate  
sk to pit

Thank you

**SERVICE**

DEPTH OF JOB 219'

PUMP TRUCK CHARGE 1512.25

EXTRA FOOTAGE @

MILEAGE MT 4035 @ 7.70 423.50

MANIFOLD Swage @ 275.00

MTCV 534 @ 4.40 2342.00

@

(811.21/20%) 4,056.05

TOTAL

**PLUG & FLOAT EQUIPMENT**

@

@

@

@

@

0% TOTAL 0

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 Sp. Deutscher

SIGNATURE [Signature]

SALES TAX (If Any)

TOTAL CHARGES 7,463.75

DISCOUNT 1,492.75 (20%) IF PAID IN 30 DAYS

5,971.00 Net.

**Ritchie Exploration, Inc.  
Baker 31CD Unit No.1  
335' FSL and 2580' FWL  
5'N & 60'W of S2 S2 S2  
Sec 31 T15S R34W  
Logan County, Kansas**

Geological Report  
by

Macklin M. Armstrong, P.G.  
License Number 743

Scale 1:240 Imperial

Well Name:	Baker 31CD Unit No. 1	
Surface Location:	Sec 31 T15 R34W	
Bottom Location:	335' FSL and 2580' FWL	
API:	15-109-21294	
License Number:	4767	
Spud Date:	5/22/2014	Time: 3:30 PM
Region:	Logan County, Kansas	
Drilling Completed:	6/6/2014	Time: 7:42 AM
Surface Coordinates:		
Bottom Hole Coordinates:		
Ground Elevation:	3049.00ft	
K.B. Elevation:	3054.00ft	
Logged Interval:	3400.00ft	To: 4783.00ft
Total Depth:	4780.00ft	
Formation:	Mississippi	
Drilling Fluid Type:	Chemical/Fresh Water Gel	

**OPERATOR**

Company:	Ritchie Exploration, Inc.	
Address:	8100 East 22nd Street North, No. 700 Wichita, Kansas 67226	
Contact Geologist:	Pete Fiorini	
Contact Phone Nbr:	316-691-9500	
Well Name:	Baker 31CD Unit No. 1	
Location:	Sec 31 T15 R34W	API: 15-109-21294
Pool:	Oil	Field: Wildcat
State:	Kansas	Country: USA



**CONTRACTOR**

Contractor: WW Drilling, LLC  
 Rig #: 8  
 Rig Type: mud rotary  
 Spud Date: 5/22/2014  
 TD Date: 6/6/2014  
 Rig Release: 6/7/2014

Time: 3:30 PM  
 Time: 7:42 AM  
 Time: 7:30 AM

**SURFACE CO-ORDINATES**

Well Type: Vertical  
 Longitude: 101° 08' 30.513"      Latitude: 38° 42' 06.141"  
 N/S Co-ord:  
 E/W Co-ord:

**ELEVATIONS**

K.B. Elevation: 3054.00ft      Ground Elevation: 3049.00ft  
 K.B. to Ground: 5.00ft

**NOTES**

Date	Depth at 7 am	Activity
5-22-14	MIRU	Spud at 3:30 pm
5-23-14	219	Shut down
5-24-14	219	Shut down
5-25-14	219	Shut down
5-26-14	219	Shut down
5-27-14	219	Resume drilling at 8:30 am
5-28-14	2306	Drilling
5-29-14	3254	Drilling
5-30-14	3800	Drilling
5-31-14	3930	CFS
6-01-14	3953	TIH after DST No. 3
6-02-14	4110	CFS
6-03-14	4265	Drilling
6-04-14	4398	Drilling
6-05-14	4552	TOH after DST No. 7
6-06-14	4770	Drilling
6-07-14	4780	Set 5 1/2"

Surface Casing: 8 5/8" 23# at 219'  
 Production Casing: 5 1/2" 15.5# at 4670'

Deviation: 219' - 1/4°  
 3900' - 1°  
 4384' - 3/4°  
 4780' - 1/2°

Bit Record:	Make	Size	Type	Depth In	Depth Out	Hours
	SM	12 1/4"	RR	Surface	219	2 1/2
	SM	7 7/8"	F27	219	4780	124 3/4

**Drill Stem Tests:**

DST No. 1 3852 to 3900 Toronto  
 30-45-45-60  
 Recovery: 318' GO (2%G, 98%O - 22.4 degree gravity)  
 122' GWMO (4%G, 4%W, 44%M, 48%O)  
 IHP 1817      FHP 1797  
 IFP 15-103      FFP 109-182  
 ISIP 1080      FSIP 1064  
 Temp 111°

DST No. 2 3898 to 3930 Lansing A Zone  
 30-45-45-60

Recovery: 10' CO (20 degree gravity)  
160' OSMW (4%, 10%M, 86%W - Chl 28,000 ppm)

IHP 1828      FHP 1811  
IFP 9-73      FFP 76-114  
ISIP 1114      FSIP 1108  
Temp 110°

DST No. 3 3928 to 3953 Lansing C Zone  
30-45-45-60

Recovery: 430' CO (25.8 degree gravity)  
60' HO CM (30%O, 70%M)

IHP 1834      FHP 1798  
IFP 13-106      FFP 112-194  
ISIP 1108      FSIP 1096  
Temp 114°

DST No. 4 3983 to 4019 Lansing E, F Zones  
30-45-45-60

Recovery: 10' GO (22.8 degree gravity)  
251' VSOSMW with very thin scum of oil (20%M, 80%W - Chl 15,000 ppm)

IHP 1875      FHP 1873  
IFP 8-78      FFP 81-126  
ISIP 1140      FSIP 1142  
Temp 114°

DST No. 5 4108 to 4146 Lansing I Zone  
30-45-45-60

Recovery: 80' GO (23.6 degree gravity)  
45' GO CM (3%G, 13%O, 84%M)

IHP 1935      FHP 1928  
IFP 8-31      FFP 36-59  
ISIP 1188      FSIP 1172  
Temp 111°

DST No. 6 4352 to 4384 Altamont  
30-30-30-30

Recovery: 10' Mud  
IHP 2083      FHP 2074  
IFP 9-14      FFP 14-18  
ISIP 18      FSIP 21  
Temp 112°

DST No. 7 4526 to 4552 Lower Cherokee Lime  
30-45-45-60

Recovery: 2' VSOSDM with a scum of oil  
IHP 2204      FHP 2171  
IFP 8-9      FFP 10-11  
ISIP 117      FSIP 80  
Temp 115°

Formation	Sample	E-Log	Datum	Well 1	Well 2	Well 3
Anhydrite	2367	2366	+688	+4	+13	+21
B/Anhydrite	2386	2386	+668	+2	+10	+18
Stotler	3495	3495	-441	-2	+12	+18
Heebner	3855	3856	-802	0	+17	+23
Toronto	3872	3872	-818	-1	+19	+27
Lansing	3904	3904	-850	-2	+17	+24
Muncie Creek	4076	4076	-1022	-6	+21	+29
Stark	4172	4172	-1118	-6	+18	+25
Hushpuckney	4217	4219	-1165	-6	+17	+23
Base/Kansas City	4258	4260	-1206	-6	+15	+20
Marmaton	4283	4285	-1231	-8	+17	+21
Altamont	4317	4319	-1265	-9	+11	+24
Pawnee	4393	4394	-1340	-10	+13	+18
Myrick Station	4435	4436	-1382	-14	+15	+21
Fort Scott	4450	4451	-1397	-12	+12	+16
Cherokee Shale	4479	4480	-1426	-14	+11	+15
Johnson Zone	4558	4559	-1505	-12	+10	+16
Ross Penn Lime	4602	4602	-1540	-15	+16	+12

Base Perm Lime	4602	4603	-1349	-13	+16	+12
Morrow	4610	4611	-1557	-18	+16	+10
Mississippi	4640	4642	-1588	-20	+29	+41
Total Depth	4780	4783	-1729			

Well 1: Ritchie Exploration, Inc. Baker 31B No. 1 2235' FNL and 1090' FWL Sec 31 T15S R34W  
 Well 2: Russell Oil Company Edwards Trust B No. 1-32 2260' FSL and 1000' FWL Sec 32 T15S R34W  
 Well 3: Russell Oil Company Edwards Trust A No. 1-32 780' FNL and 400' FWL Sec 32 T15S R34W

Pipe was set to further test the Toronto and Lansing zones.

Respectfully submitted,  
 Macklin M. Armstrong

### ROCK TYPES

	Lmst fw7>		shale, gry		shale, red
	shale, grn		Carbon Sh		

### ACCESSORIES

<b>MINERAL</b>	<b>FOSSIL</b>	<b>STRINGER</b>	<b>TEXTURE</b>
▲ Chert, dark	☉ Coral	■ Sandstone	C Chalky
P Pyrite	○ Crinoids		
• Sandy	F Fossils < 20%		
• Silty	⊕ Oolite		
△ Chert White	⊕ Oomoldic		

### OTHER SYMBOLS

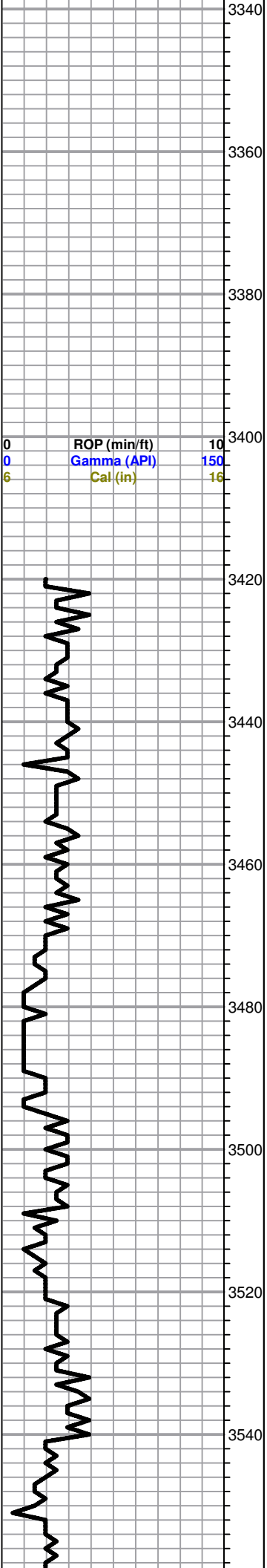
<b>MISC</b>	<b>DST</b>
Daily Report	DST Int
Digital Photo	DST alt
Document	Core
Folder	
Link	
Vertical Log File	
Horizontal Log File	
Core Log File	
Drill Cuttings Rpt	

Printed by GEOstrip VC Striplog version 4.0.7.0 (www.grsi.ca)

Curve Track #1			Depth   Intervals	DST	Lithology	Oil Show	Geological Descriptions	Comment
ROP (min/ft)	Gamma (API)	Cal (in)						
0	150	16	0					
0	150	16	0					
6	150	16	6					
			3320					
<p><b>Ritchie Exploration, Inc.</b>  <b>Baker 31CD Unit No. 1</b>  <b>335' FSL and 2580' FWL</b>  <b>5'N &amp; 60'W of S2 S2 S2</b>  <b>Sec 31 T15S R34W</b>  <b>Logan County, Kansas</b>  <b>GL 3049 KB 3054</b></p>								
<p>Mud Program:  Mud Co/Service Mud  Chemical Gel/Premix</p> <p>Sample Cuttings:  KGS Well Sample Library</p> <p>Testing: Diamond Testing</p>								

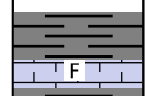
Electric Logs:  
Nabors Production &  
Completion Services  
Company  
DIL  
CDL/CNL  
MEL

Deviation:  
219' - 1/4°  
3900' - 1°  
4384' - 3/4°  
4780' - 1/2°

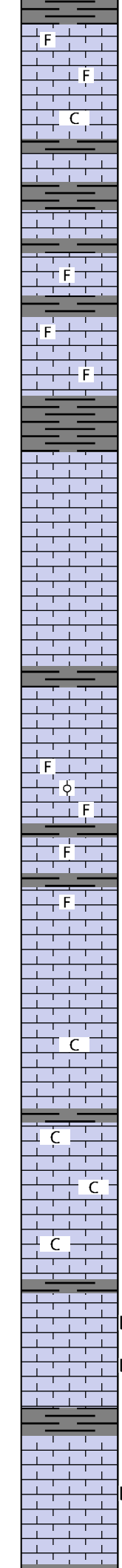
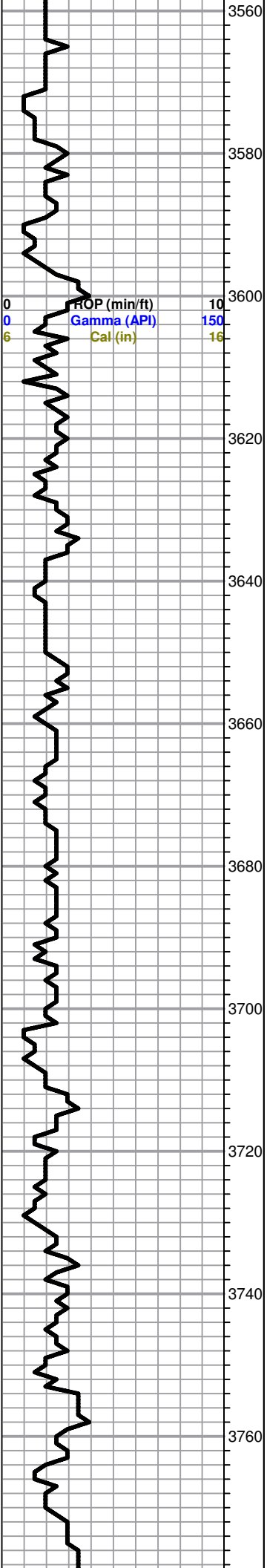


----- Stotler 3495 -441 -----

All formation tops on  
this geological log have  
been correlated back to  
the electric log



Sh-gry/dk gry  
Ls-gry/tan f/mxn mhd sl fos no por



Sh-gry/dk gry  
Ls-tan/lt gr f/mxln mhd sl fos no por

F

Ls-AA

C

Ls-tan/crm fxln mhd sl clk y no por  
Sh-gry/dk gry  
Ls-tan/lt gry f/mxln mhd/dns no por

Sh-gry/dk gry  
Ls-tan/lt gry f/mxln mhd/dns no por  
Sh-gry/dk gry

F

Ls-tan/lt gry f/mxln mhd sl fos no por  
Sh-gry/dk gry

F

Ls-tan/lt gry f/mxln mhd sl fos no por

F

Sh-gry/dk gry

Sh-gry/dk gry

Ls-tan/gry f/mxln dns no por  
Ls-tan/lt gry/gry f/mxln mhd no por  
Ls-tan/lt gry f/mxln dns no por

Ls-tan fxln mhd no por

Ls-AA

Ls-AA

Sh-gry/dk gry

Ls-tan fxln mhd/dns no por

Ls-AA

F

Ls-tan/lt gry f/mxln mhd no por sm Ls-tan/lt gry fxln mhd sl fos with blk ool no por

F

Sh-gry/dk gry

F

Ls-tan/lt gry f/mxln mhd/dns sl fos no por  
Sh-gry/dk gry

F

Ls-tan f/mxln mhd/dns sl fos no por

Ls-AA

Ls-tan fxln mhd/dns no por

C

Ls-tan fxln soft/mhd sl clk y no por  
Ls-tan fxln mhd no por

Sh-gry/dk gry

C

Ls-tan/crm fxln mhd sl clk y no por sm Ls-wt fxln soft clk y no por

C

Ls-AA

Ls-tan/crm fxln mhd/dns sl clk y no por

Sh-gry/dk gry

D

Ls-tan fxln dns no por sm Ls-tan fxln mhd pr vug por blk/dk brn spt dead oil stn

D

Ls-AA

Ls-tan fxln dns no por

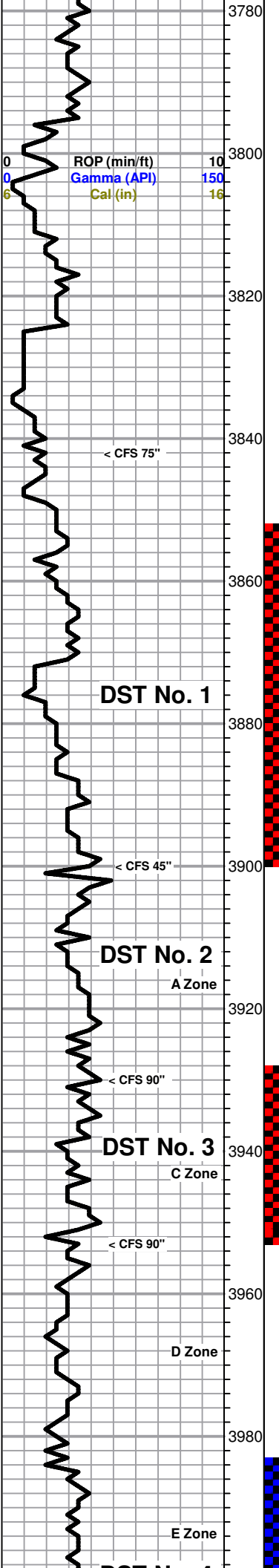
Sh-gry/dk gry

Ls-tan/lt gry fxln dns no por

D

Ls-tan fxln mhd no por sm Ls-tan fxln mhd pr vug por blk dead oil spt stn

Ls-tan fxln dns no por



Sh-gry/dk gry

Ls-tan/gry f/mxln dns sl fos no por

Sh-gry/dk gry

Ls-tan fxl n mhd sl fos fr vug/inter xln por blk/dk brn dead oil sat stn nsfo

Ls-tan fxl n mhd no por

Ls-tan fxl n mhd sl fos fr vug/inter xln por blk/dk brn dead oil sat stn ssfo fr cut no odor

Ls-tan/lt gry fxl n mhd/dns no por

Ls-tan fxl n dns no por

Ls-AA

Sh-gry/dk gry

Ls-tan fxl n mhd no por sm Ls-tan fxl n mhd blk/dk brn dead oil sat stn ssfo on brk sl cut no odor

Ls-AA

Ls-crm/lt tan/lt gry f/mxln mhd sl fos no por

Ls-tan/lt gry f/mxln mhd sl fos no por sm free crin and sm Ls-tan fxl n mhd fr vug/inter xln por blk/dk brn spt stn ssfo on brk sl cut

Ls-tan/lt gry fxl n dns no por

----- Heebner 3855 -801 -----

Sh-blk carb

Ls-tan/gry fxl n mhd/dns no por

Sh-gry/dk gry

----- Toronto 3872 -818 -----

Ls-tan f/mxln mhd fos fr vug/inter xln por dk brn spt to sat stn fr cut fsfo on brk fr odor

Ls-tan fxl n dns no por sm Cht-wt/lt gry/gry fsh opa

Ls-AA sm Cht-wt fsh opa and sm Ls-tan fxl n mhd fos fr vug/inter xln por dk brn sct stn ssfo on brk sl cut sl odor

Ls-tan fxl n dns no por sm Cht-wt fsh opa

Ls-crm/lt tan fxl n mhd/dns no por sm Pyrite and Cht-wt/lt gry fsh opa and sm Ls-tan fxl n mhd sl fos fr inter xln por dk brn sct stn ssfo on brk sl odor

Sh-gry/dk gry

----- Lansing 3904 -850 -----

Ls-crm/tan fxl n dns no por

Ls-AA with sm Ls-tan fxl n mhd fr vug por brk spt stain ssfo on brk sl odor

Ls-crm/tan fxl n gd vug por gsfo gd cut gd odor

Ls-tan/crm fxl n dns no por

Ls-AA with sm Ls-tan fxl n mhd fr vug por dk brn spt stn fsfo on brk sl cut sl odor

Ls-tan/crm fxl n dns no por

Sh-gry/dk gry

Ls-tan fxl n dns no por sm Ls-tan fxl n mhd pr vug por blk dead oil stn nsfo

Ls-tan/crm fxl n dns inter laced with pyrite sm Ls-tan mxln mhd fos fr vug por fsfo fr cut sl odor

Ls-tan fxl n mhd fos gd vug/inter fos por brn sat stn fgsfo gd cut gd odor

Ls-tan/crm fxl n mhd/dns inter laced with pyrite blk gils stn no por nsfo

Sh-gry/dk gry/grn

Ls-crm/tan/lt gry fxl n mhd/dns no por

Ls-AA

Ls-crm/lt tan/lt gry fxl n mhd/dns no por sm Ls-wt fxl n mhd clk

Ls-AA

Ls-crm/tan/lt gry fxl n mhd/dns no por

Sh-gry/dk gry

Ls-tan/crm fxl n mhd fos oom and ool fr inter fos/pp por brn spt to sat stn fgsfo on brk gd cut gd odor

Ls-AA

**DST No. 1**  
3852 to 3900  
30-45-45-60  
1st Open: BOB in 18"  
2nd Open: BOB in 21"  
Recovery:  
318' GO (2%G, 98%O  
22.4 deg grav)  
122' GWMO (4%G, 4%W  
44%M, 48%O)  
IHP 1817 FHP 1797  
IFP 15-103 FFP 109-182  
ISIP 1080 FSIP 1064  
Temp 111°

Mud Data at 3900' 11:55 am  
5-30-14 Wt 8.9 Vis 54 WL 6.4  
pH 11 Chl 3000 Sol 4.5%  
YP 16 LCM 2#

Pulled 35 stand short trip at 3900', then cir for test - 90°

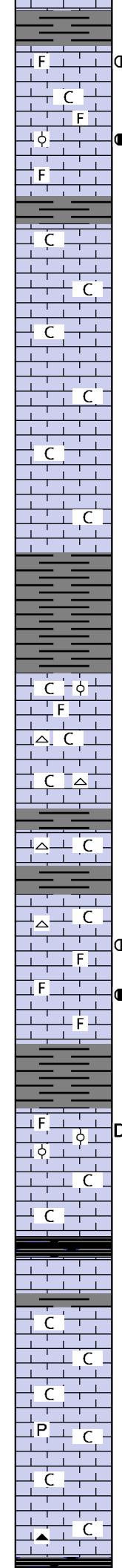
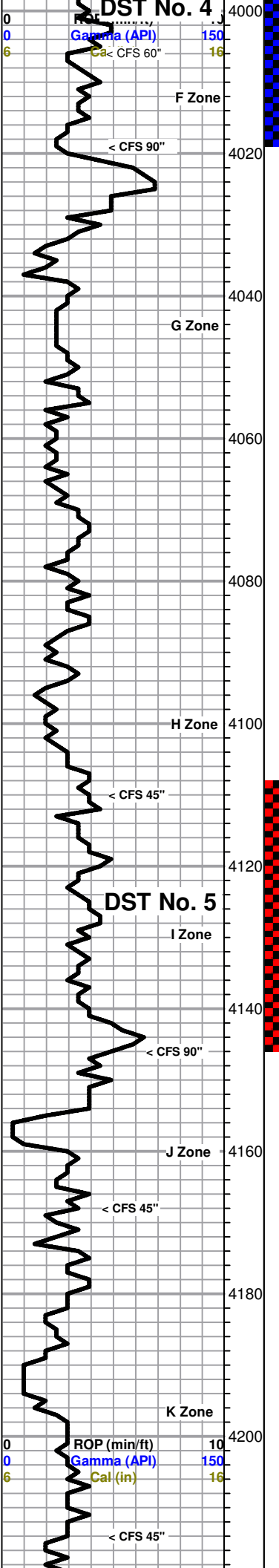
Pipe strap at 3900', short 0.27'

**DST No. 2**  
3898 to 3930  
30-45-45-60  
1st Open: Weak sur blow, building to 7.5"  
2nd Open: Very weak sur blow, building to 8"  
Recovery:  
10' CO (20 deg grav)  
160' OSMW (4%O, 10%M  
86%W - Chl 28,000 ppm)  
IHP 1828 FHP 1811  
IFP 9-73 FFP 76-114  
ISIP 1114 FSIP 1108  
Temp 110°

Mud Data at 3930' 10:30 am  
5-31-14 Wt 9 Vis 59 WL 7.2  
pH 11 Chl 4400 Sol 4.4%  
YP 17 LCM 2#

Mud Data at 3953' 8:00 am  
6-01-14 Wt 9 Vis 57 WL 8.8  
pH 10.5 Chl 5000 Sol 4.8%  
YP 16 LCM 1#

**DST No. 3**  
3928 to 3953  
30-45-45-60  
1st Open: BOB in 16"  
2nd Open: BOB in 18"  
Recovery:  
430' CO (25.8 deg grav)  
60' HOCM (30%O, 70%M)



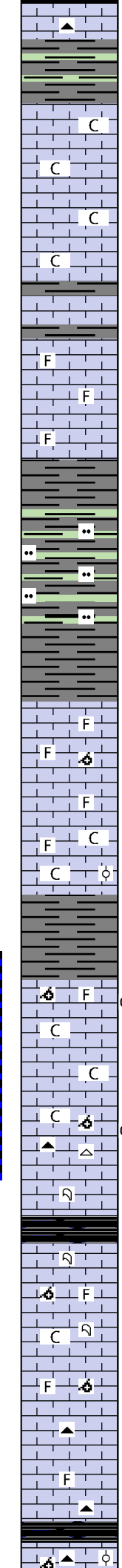
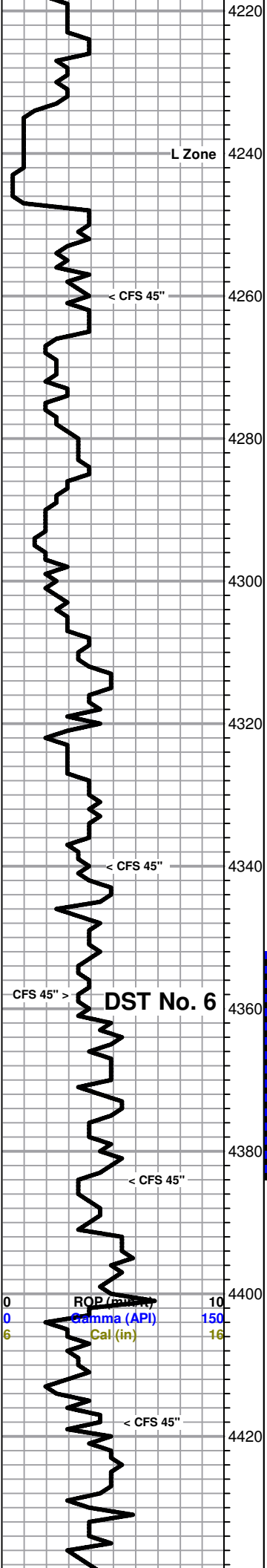
Sh-gry/dk gry  
 Ls-tan/brn/gry fxln mhd/dns no por sm Ls-tan/brn/lt gry fxln mhd fos fr inter xln por brn stp stn ssfo on brk sl cut faint odor  
 Ls-frm/lt gry fxln dns sl clkly no por  
 Ls--crm fxln mhd fos ool gd inter ool por lt brn spt stn fsfo on brk fr cut fr odor  
 Ls-frm/lt gry f/mxln mhd fos no por  
 Sh-gry/dk gry  
 Ls-frm/lt tan/lt gry fxln mhd clkly no por  
 Ls-frm/lt tan fxln dns sl clkly no por  
 Ls-frm/lt tan fxln mhd/dns sl clkly no por  
 Ls-AA  
 Ls-AA  
 Ls-frm/lt tan/lt gry fxln mhd sl clkly no por  
 Ls-AA  
 Ls-frm/lt tan/lt gry fxln dns sl clkly no por  
 ----- **Muncie Creek 4076 -1022** -----  
 Sh-gry/dk gry  
 Sh-AA  
 Ls-lt gry fxln mhd sub clkly with sm blk to gry ool no por and sm Ls-tan mxln mhd fos no por  
 Ls-AA with sm Ls-tan/gry f/mxln mhd fos no por  
 Ls-frm/lt gry/tan f/mxln mhd sl clkly no por sm Cht-wt/lt gry fsh opaq and Ls-wt fxln soft clkly no por  
 Ls-tan/gry mxln mhd fos no por sm Cht-AA  
 Sh-gry/dk gry  
 Ls-frm/tan/lt gry fxln mhd/dns sub clkly no por sm Cht-wt/lt gry fsh opaq  
 Sh-gry/dk gry  
 Ls-frm/tan/lt gry fxln mhd/dns sl clkly no por sm Cht-lt gry/wt fsh opaq  
 Ls-tan fxln mhd fos fr vug/inter fos por lt brn sct to sat stn ssfo on brk fr cut faint odor  
 Ls-tan mxln mhd fos gd vug/inter fos por lt brn sct to sat stn fgsfo on brk gd cut fair odor  
 Ls-tan/gry fxln dns no por  
 Sh-gry/dk gry  
 Ls-frm fxln mhd fos sl ool gd ooc por few pcs with blk tarry oil nsfo no odor  
 Ls-frm/lt tan fxln dns sl clkly no por  
 Ls-AA  
 ----- **Stark 4172 -1118** -----  
 Sh-blk carb  
 Ls-tan/gry f/mxln dns no por  
 Sh-gry/dk gry  
 Ls-frm/lt tan fxln mhd/dns sl clkly no por  
 Ls-wt fxln soft clkly no por  
 Ls-frm/tanfxln mhd/dns sl clkly no por sm Pyrite  
 Ls-frm/lt tan/lt gry fxln mhd/dns sl clkly no por  
 Ls-tan/lt gry fxln dns sl clkly no por sm Cht-lt gry fsh opaq  
 ----- **Hushpuckney 4217 -1163** -----

IHP 1834 FHP 1798  
 IFP 13-106 FFP 112-194  
 ISIP 1108 FSIP 1096  
 Temp 114°

**DST No. 4**  
 3983 to 4019  
 30-45-45-60  
 1st Open: Weak sur blow, bulding to 7"  
 2nd Open: Very weak sur blow, bulding to 8"  
 Recovery:  
 10' CO (22.8 deg grav)  
 251' VSOSMW with very thin scum of oil (20%M 80%W - Chl 15,000 ppm)  
 IHP 1875 FHP 1873  
 IFP 8-78 FFP 81-126  
 ISIP 1140 FSIP 1142  
 Temp 114°

**DST No. 5**  
 4108 to 4146  
 30-45-45-60  
 1st Open: Weak sur blow, bulding to 1 3/4"  
 2nd Open: Very weak sur blow, bulding to 1 1/2"  
 Recovery:  
 80' CO (23.6 deg grav)  
 45' GOCM (3%G, 13%O 84%M)  
 IHP 1935 FHP 1928  
 IFP 8-31 FFP 36-59  
 ISIP 1188 FSIP 1172  
 Temp 111°

Mud Data at 4146' 11:50 am  
 6-02-14 Wt 9 Vis 59 WL 9.6  
 pH 10.5 Chl 7000 Sol 4.7%  
 YP 22 LCM 1#



Ls-tan/gry/brn fxln dns no por sm Cht-lt gry fsh opa

Sh-gry/dk gry/grn

Ls-tan fxln mhd sl fos sl clkly fr pp/vug por nsfo

Ls-AA

Ls-tan fxln dns sl clkly no por

Ls-AA

----- **Base/Kansas City 4258 -1204** -----

Ls-tan/gry fxln dns no por

Sh-gry/dk gry

Ls-lt gry/tan f/mxln mhd sl fos no por

Ls-AA

Ls-lt gry/tan/gry f/mxln dns sl fos no por

----- **Marmaton 4283 -1229** -----

Sh-gry/dk gry

Sh-gry/dk gry/gry grn sl slty

Sh-AA

Sh-gry/dk gry

----- **Altamont 4317 -1263** -----

Ls-tan/gry fxln dns sl fos no por

Ls-crm/tan fxln mhd fos oom no por

Ls-crm/tan/lt gry fxln dns sl fos no por

Ls-AA sm Ls-wt fxln soft clkly no por

Ls-tan/lt gry f/mxln mhd/dns sl clkly sl fos no por sm Ls-crm fxln mhd fos ool sl clkly no por

Sh-gry/dk gry

Ls-crm fxln mhd fos oom pr vug/inter fos por lt brn to dk brn spt stn ssfo on brk fr cut no odor

Ls-crm/tan/lt gry fxln mhd/dns sl clkly no por

Ls-AA

Ls-crm/tan fxln mhd/dns sl clkly no por with sm Ls-crm fxln mhd fos oom lt brn to dk brn spt stn ssfo on brk fr cut no odor

Ls-tan/gry/brn f/mxln dns no por sm Cht-lt gry/gry/wt fsh opa

Ls-tan/gry fxln mhd/dns no por with few pcs of coral

Sh-blk carb

----- **Pawnee 4393 -1339** -----

Ls-tan/lt gry fxln dns no por with few psc of coral

Ls-tan/lt brn fxln mhd sl clkly fos sl oom pr inter xln por nsfo

Ls-tan/lt gry fxln dns sl clkly no por with few pcs of coral

Ls-AA

Ls-tan f/mxln mhd fos sl oom pr inter xln por nsfo

Ls-lt gry/gry fxln dns no por sm Cht-lt gry/gry fsh opa

Ls-gry mott dk gry f/mxln mhd sl fos no por

Ls-gry/brn f/mxln mhd fos no por sm Cht-gry fsh opa

----- **Myrick Station 4435 -1381** -----

Ls-gry/brn mxln mhd fos ool and oom no por sm Cht-lt gry/gry

Mud Data at 4312' 9:30 am  
6-03-14 Wt 8.9 Vis 54 WL 9.6  
pH 11 Chl 8000 Sol 3.8%  
YP 21 LCM 1#

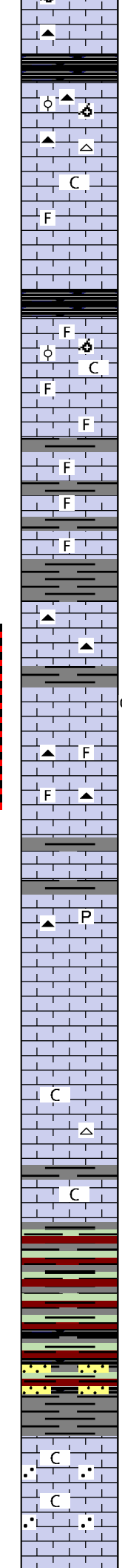
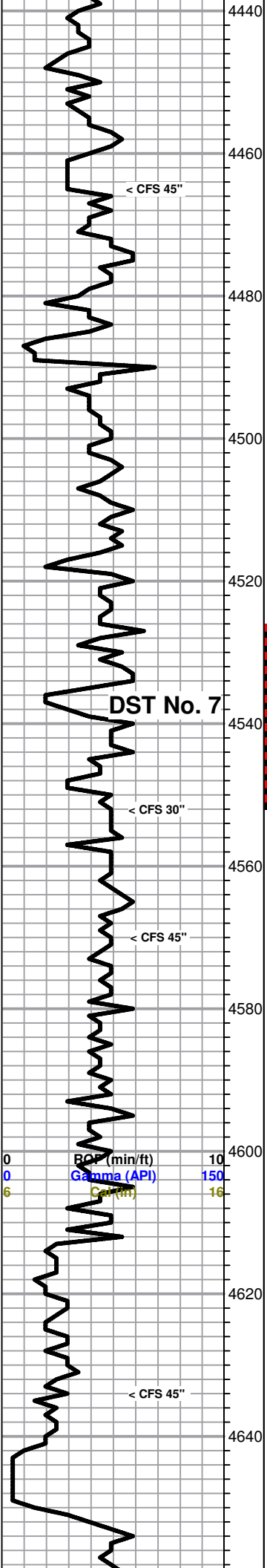
**DST No. 6**  
4352 to 4384  
30-30-30-30  
1st Open: No blow  
2nd Open: No blow, flushed  
tool, no help  
Recovery: 10' Mud  
IHP 2083 FHP 2074  
IFP 9-14 FFP 14-18  
ISIP 18 FSIP 21  
Temp 112°

Pulled 10 stand short trip at 4384', then cir for test - 90"

Mud Data at 4411' 10:00 am  
6-04-14 Wt 9.1 Vis 64 WL 8.8  
pH 11 Chl 5000 Sol 5.1%  
YP 20 LCM 1#

0 ROP (m) 10  
0 Gamma (API) 150  
6 Cal (in) 16



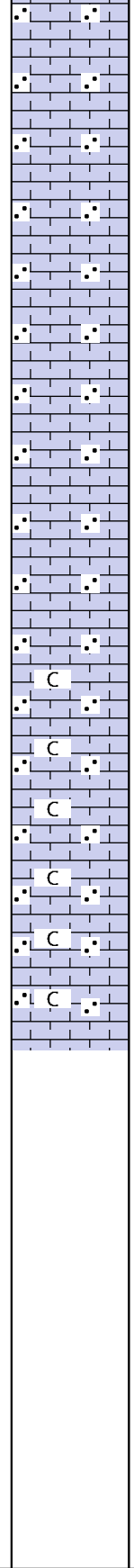
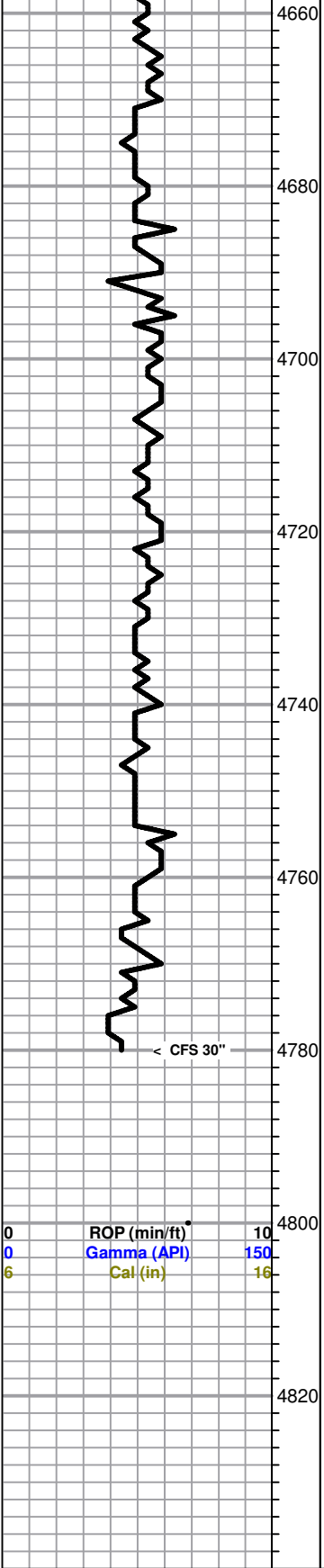


fsh opa with dk brn ool  
 Ls-AA with sm Cht-lt gry/gry fsh opa  
 Sh-blk carb  
 ----- **Fort Scott 4450 -1396** -----  
 Ls-gry/brn mxln mhd fos ool and oom no por sm Cht-lt gry/gry/wt fsh opa with dk brn ool  
 Ls-lt gry/tan fxln dns no por sm Cht-AA  
 Ls-tan/lt gry/brn fxln mdh sl clk no por  
 Ls-tan/lt gry fxln mhd/dns sl fos no por  
 Ls-tan/lt gry fxln dns no por  
 ----- **Cherokee Shale 4479 -1425** -----  
 Sh-blk carb  
 Ls-lt gry/gry fxln dns sl fos no por  
 Ls-tan/gry mxln mhd fos ool and oom sl clk pr inter xln por nsfo  
 Ls-lt gry/gry/tan fxln dns sl fos no por  
 Ls-AA  
 Sh-gry/dk gry  
 Ls-lt gry/gry fxln mhd sl fos no por  
 Sh-gry/dk gry  
 Ls-gry/brn f/mxln mhd/dns sl fos no por  
 Sh-gry/dk gry  
 Ls-lt gry/gry fxln dns sl fos no por  
 Sh-gry/dk gry  
 Ls-lt gry/gry/brn fxln dns no por sm Cht-lt gry/gry/brn fsh opa  
 Sh-gry/dk gry  
 Ls-tan fxln mhd gd vug por lt brn spt to sat stn gd cut fsfo on brk no odor  
 Ls-lt gry/tan fxln dns sl fos no por sm Cht-tan/brn fsh opa to semi trans  
 Ls-lt gry/tan fxln dns sl fos no por sm Cht-tan opa to semi trans  
 Ls-lt gry tan fxln dns no por  
 ----- **Johnson Zone 4558 -1504** -----  
 Ls-tan/gry fxln dns no por  
 Sh-gry/dk gry  
 Ls-tan/gry/lt gry fxln dns no por sm Pyrite and Cht-tan fsh opa  
 Ls-lt gry/gry fxln dns no por  
 Ls-AA  
 Ls-tan/lt gry/gry fxln dns no por  
 Ls-lt gry/gry fxln dns sub clk no por sm Cht-wt fsh opa  
 ----- **Base Penn Lime 4602 -1548** -----  
 Ls-tan/lt gry/crm fxln mhd sl clk no por  
 ----- **Morrow 4610 -1556** -----  
 Sh-gry/dk gry/grn/mar  
 Sh-AA  
 Sh-gry/dk gry/grn/mar/blk  
 Sh-AA with few clusters of Ss-wt/clr/lt gry f/mgrn tite cement  
 Sh-gry/dk gry  
 ----- **Mississippi 4640 -1586** -----  
 Ls-crm/tan fxln soft/mhd sl clk no por  
 Ls-AA  
 Ls-wt fgran mhd/dns no por

**DST No. 7**  
 4526 to 4552  
 30-45-45-60  
 1st Open: Weak intermittent surface blow  
 2nd Open: Very weak intermittent surface blow  
 Recovery:  
 2' VSOSDM with a scum of oil  
 IHP 2204 FHP 2171  
 IFP 8-9 FFP 10-11  
 ISIP 117 FSIP 80  
 Temp 115°

Pulled 15 stand short trip at 4552', then cir for test - 90°

Mud Data at 4552' 8:00 am  
 6-05-14 Wt 9.2 Vis 54 WL 10.4  
 pH 10.5 Chl 8500 Sol 5.7%  
 YP 21 LCM 1#









Ls-AA  
 Ls-AA  
 Ls-wt/crm fgran mhd/dns no por  
 Ls-AA  
 Ls-wt gran mhd/dns no por  
 Ls-AA  
 Ls-AA  
 Ls-wt/lt gry fgran mhd/dns no por  
 Ls-AA  
 Ls-wt fgran mhd/dns no por sm Ls-crm/lt tan fxln mhd sl clky no por  
 Ls-AA  
 Ls-crm/lt tan fxln mhd/dns sl clky no por sm Ls-wt fgran mhd/dns no por  
 Ls-AA  
 Ls-AA

----- **RTD 4780 -1726** -----

Finished drilling at 7:42 am on 6-06-14. Pulled 10 stand short trip, then circulated for log - 90 minutes.

Finished logging at 5:15 pm on 6-06-14

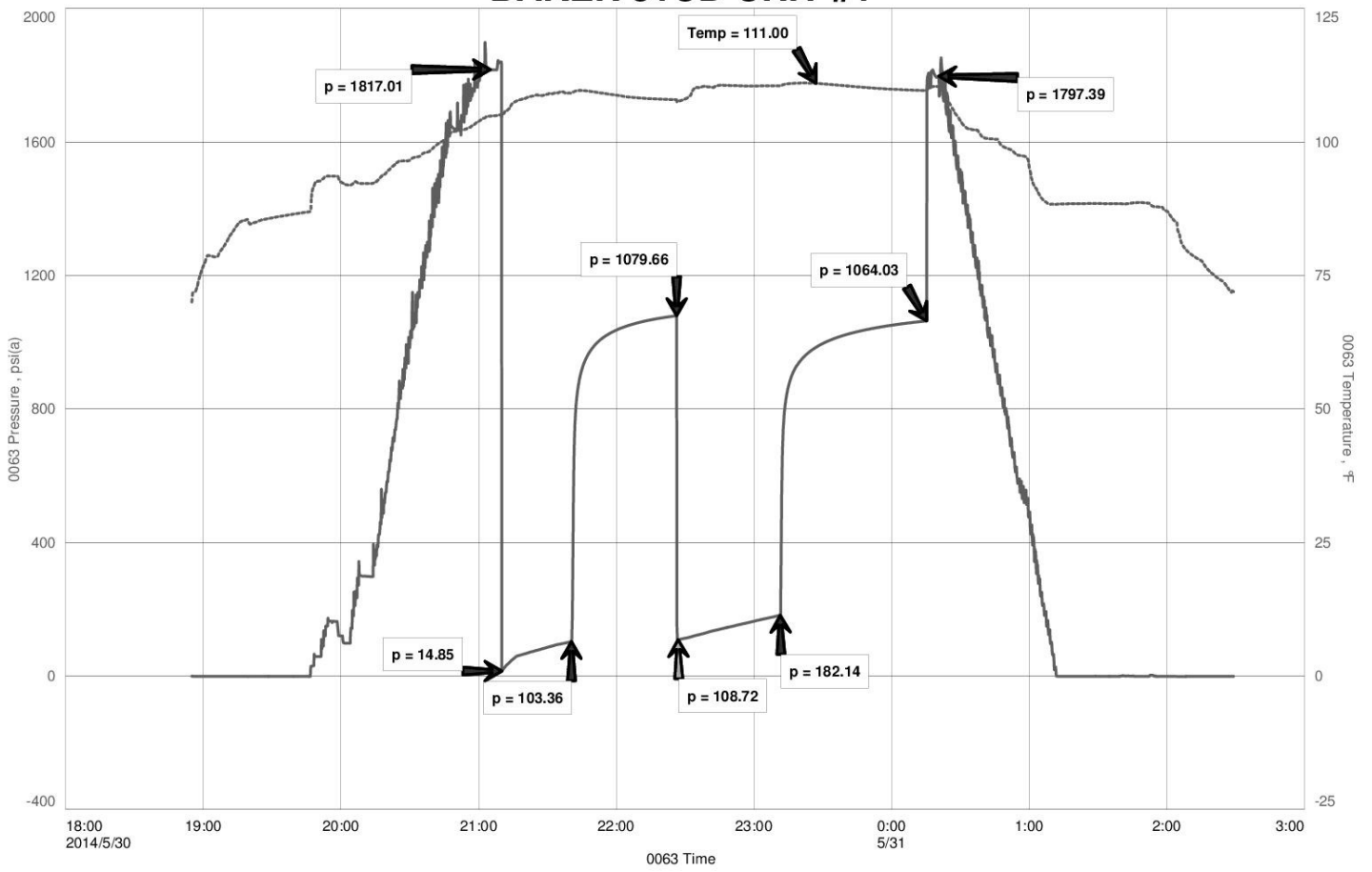
-  BKR31CDUNT1DST1ALL-3.jpg
-  BKR31CDUNT1DST2ALL-3.jpg
-  BKR31CDUNT1DST3ALL-3.jpg
-  BKR31CDUNT1DST4ALL-3.jpg
-  BKR31CDUNT1DST5ALL-3.jpg
-  BKR31CDUNT1DST6ALL-3.jpg
-  BKR31CDUNT1DST7ALL-3.jpg

Mud Data at 4780' 9:15 am  
 6-06-14 Wt 9.3 Vis 60 WL 10.8  
 pH 10.5 Chl 9000 Sol 6.6%  
 YP 24 LCM 1#

RITCHIE EXPLORATION, INC.  
DST#1 3852-3900 TORONTO  
Start Test Date: 2014/05/30  
Final Test Date: 2014/05/30

BAKER 31CD UNIT #1  
Formation: DST#1 3852-3900 TORONTO  
Pool: WILDCAT  
Job Number: M657

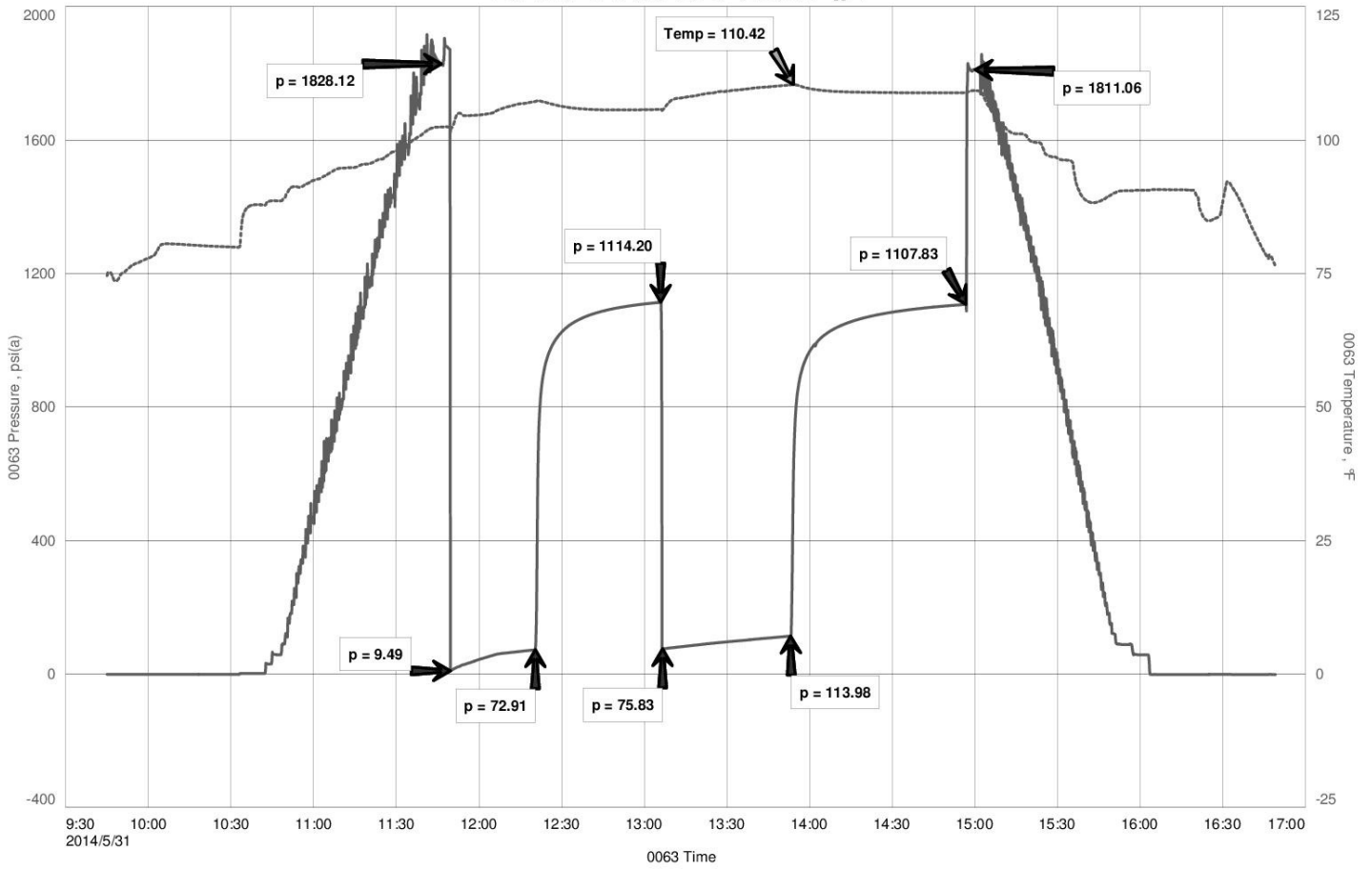
### BAKER 31CD UNIT #1



RITCHIE EXPLORATION, INC.  
DST#2 3898-3930 LANS. A  
Start Test Date: 2014/05/31  
Final Test Date: 2014/05/31

BAKER 31CD UNIT #1  
Formation: DST#2 3898-3930 LANS. A  
Pool: WILDCAT  
Job Number: M658

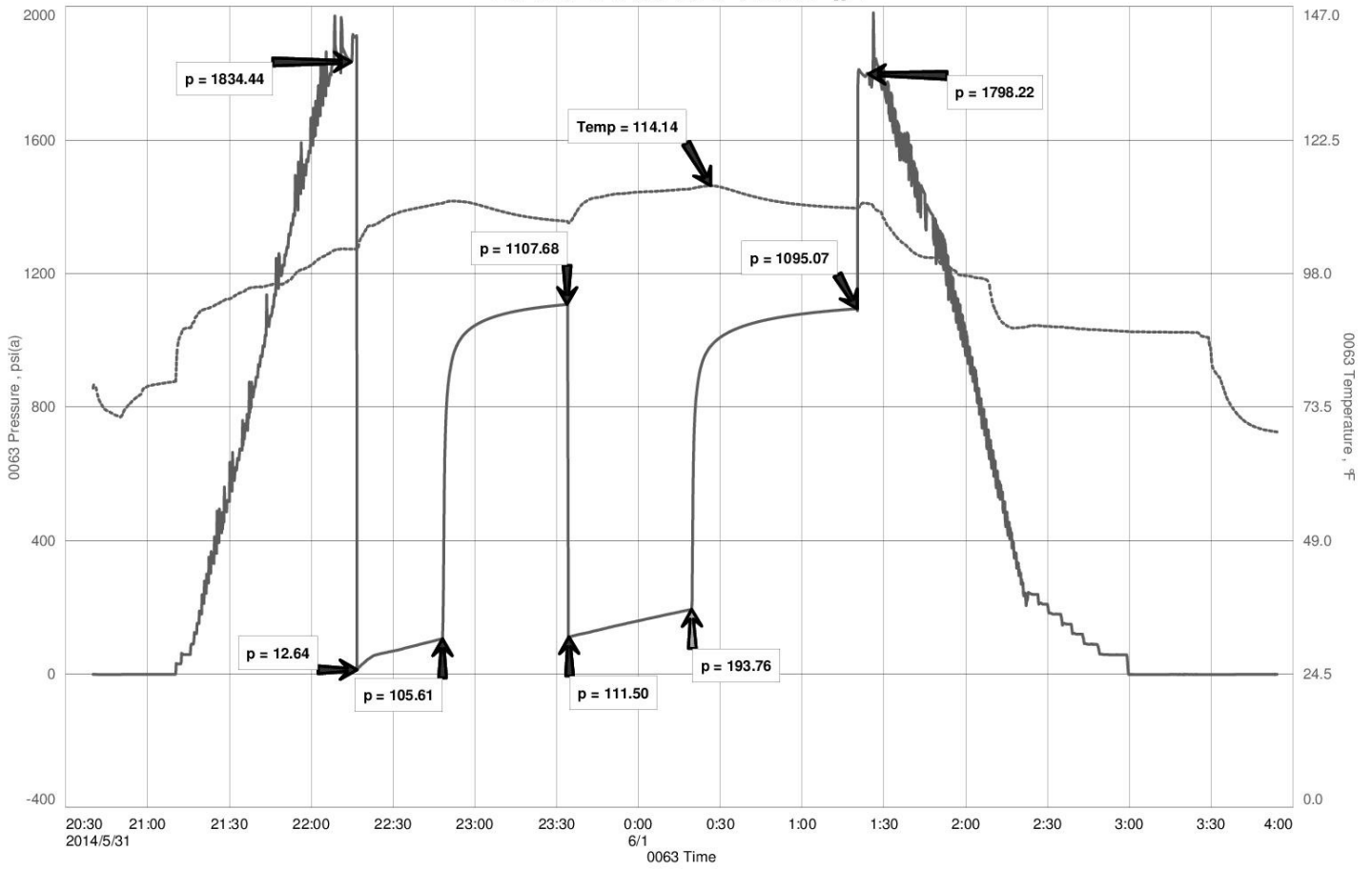
### BAKER 31CD UNIT #1



RITCHIE EXPLORATION, INC.  
DST#3 3828-3953 LANSING C ZONE  
Start Test Date: 2014/05/31  
Final Test Date: 2014/06/01

BAKER 31CD UNIT #1  
Formation: DST#3 3828-3953 LANSING C ZONE  
Pool: WILDCAT  
Job Number: M659

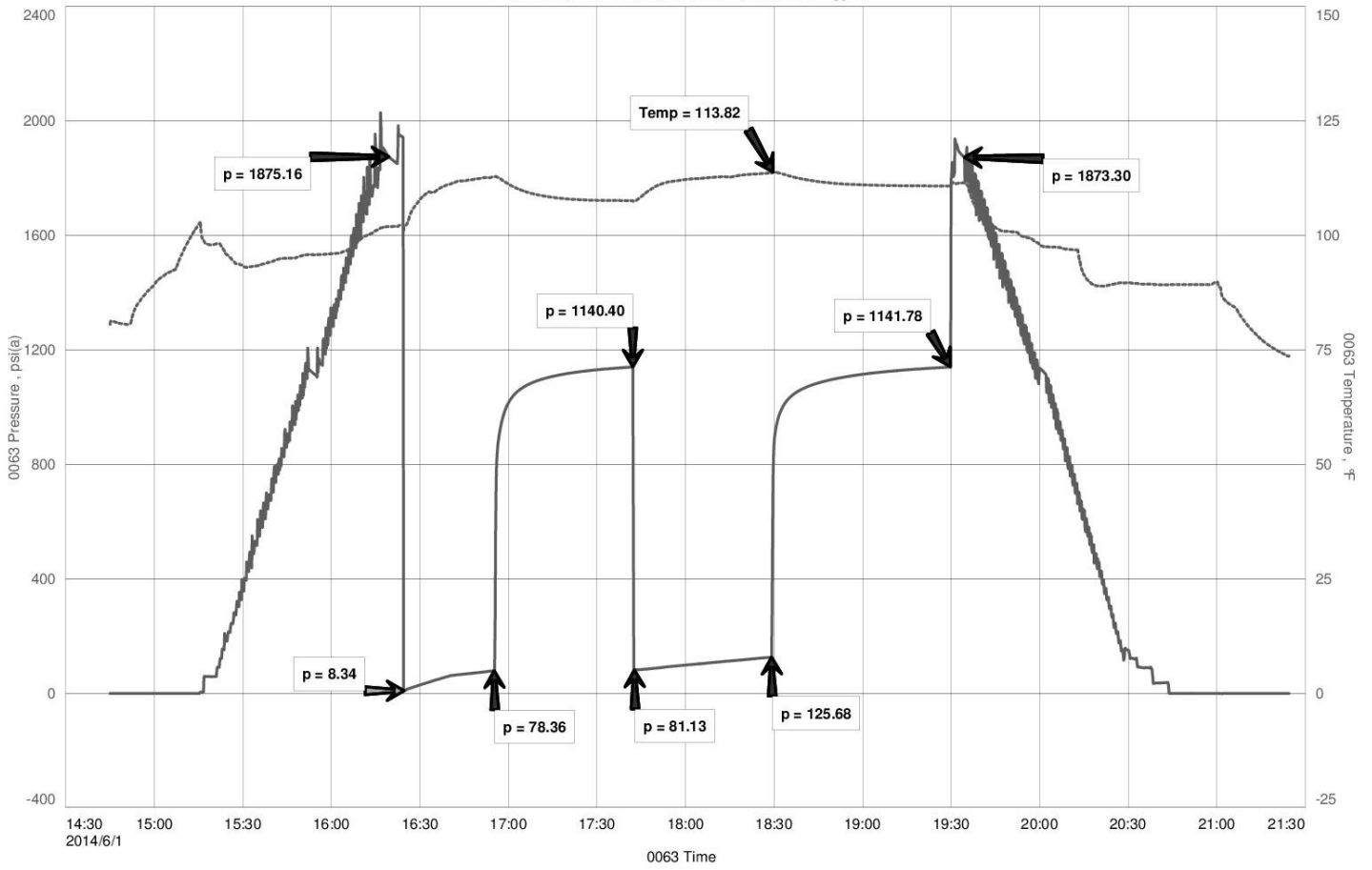
### BAKER 31CD UNIT #1



RITCHIE EXPLORATION, INC.  
DST#4 3983-4019 LANSING E&F  
Start Test Date: 2014/06/01  
Final Test Date: 2014/06/01

BAKER 31CD UNIT #1  
Formation: DST#4 3983-4019 LANSING E&F  
Pool: WILDCAT  
Job Number: M660

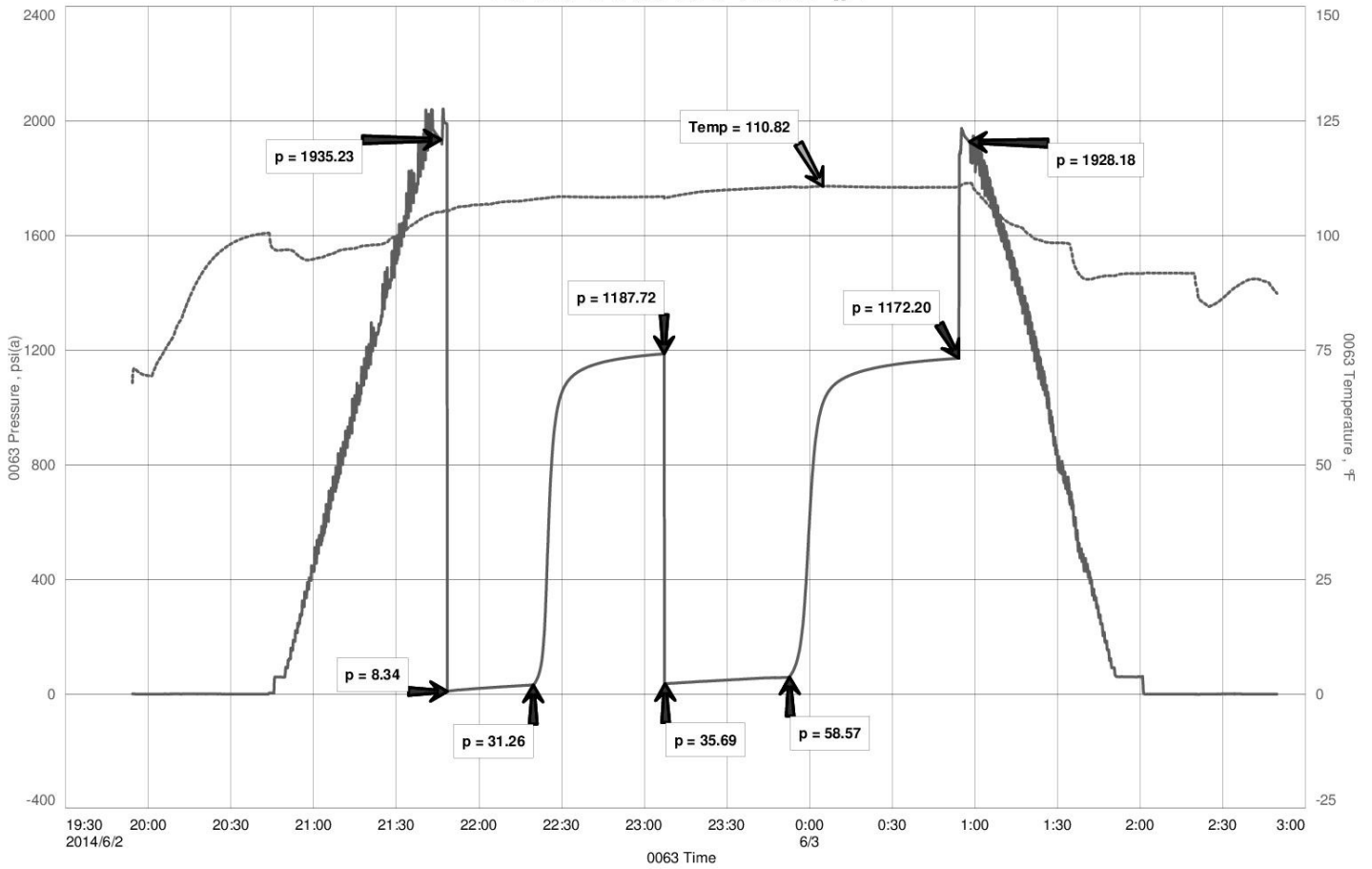
# BAKER 31CD UNIT #1



RITCHIE EXPLORATION, INC.  
DST#5 3983-4019 LANSING I ZN.  
Start Test Date: 2014/06/02  
Final Test Date: 2014/06/02

BAKER 31CD UNIT #1  
Formation: DST#5 3983-4019 LANSING I ZN.  
Pool: WILDCAT  
Job Number: M661

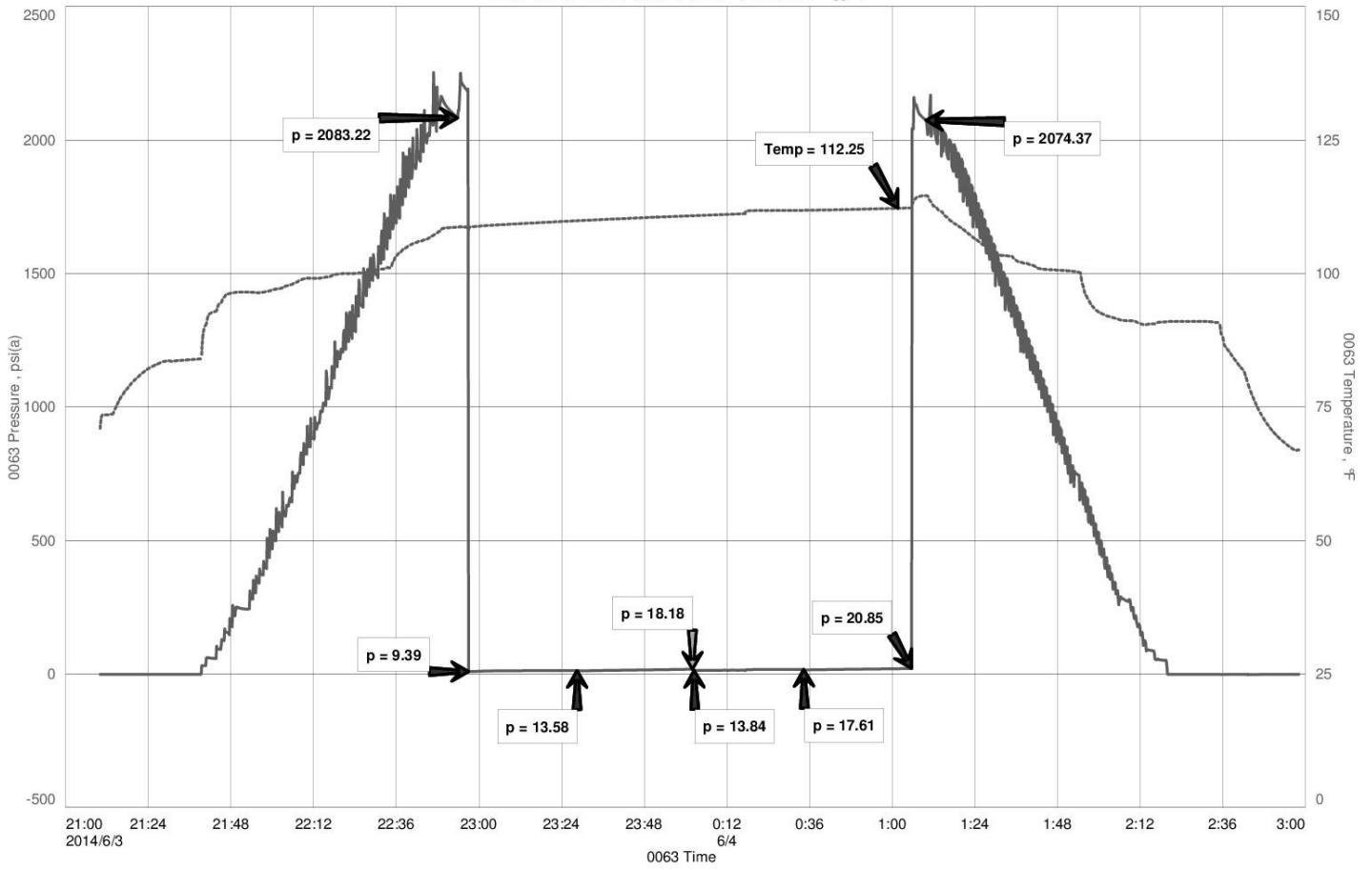
# BAKER 31CD UNIT #1



RITCHIE EXPLORATION, INC.  
 DST#6 4352-4384 ALTAMONT  
 Start Test Date: 2014/06/03  
 Final Test Date: 2014/06/04

BAKER 31CD UNIT #1  
 Formation: DST#6 4352-4384 ALTAMONT  
 Pool: WILDCAT  
 Job Number: M662

### BAKER 31CD UNIT #1





RITCHIE EXPLORATION, INC.  
DST#7 4526-4552 LOWER CHEROKEE LIME  
Start Test Date: 2014/06/05  
Final Test Date: 2014/06/05

BAKER 31CD UNIT #1  
Formation: DST#7 4526-4552 LOWER CHEROKEE LIME  
Pool: WILDCAT  
Job Number: M663

# BAKER 31CD UNIT #1

