



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1227315
OIL & GAS CONSERVATION DIVISION

Form ACO-1

August 2013

Form must be Typed
Form must be Signed
All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

- New Well Re-Entry Workover
- Oil WSW SWD SIOW
- Gas D&A ENHR SIGW
- OG GSW Temp. Abd.
- CM (Coal Bed Methane)
- Cathodic Other (Core, Expl., etc.): _____

If Workover/Re-entry: Old Well Info as follows:

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

- Deepening Re-perf. Conv. to ENHR Conv. to SWD
- Plug Back Conv. to GSW Conv. to Producer
- Commingled Permit #: _____
- Dual Completion Permit #: _____
- SWD Permit #: _____
- ENHR Permit #: _____
- GSW Permit #: _____

Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date
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API No. 15 - _____

Spot Description: _____

_____ - _____ - _____ Sec. _____ Twp. _____ S. R. _____ East West

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE NW SE SW

GPS Location: Lat: _____, Long: _____
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite:

Operator Name: _____

Lease Name: _____ License #: _____

Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West

County: _____ Permit #: _____

AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

KCC Office Use ONLY

- Confidentiality Requested
Date: _____
- Confidential Release Date: _____
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT I II III Approved by: _____ Date: _____



1227315

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
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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

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Hembree, Robert F
Well Name	Schwartzkopf K 2
Doc ID	1227315

Tops

Name	Top	Datum
Anhydrite	1580	+741
Base Anhydrite	1604	+717
Heebner	3695	-1374
Toronto	3718	-1397
Lansing	3736	-1415
Base KC	4046	-1725
Marmaton	4069	-1748
Pawnee	4153	-1832
Ft. Scott	4230	-1909
Mississippi	4329	-2008
LTD	4342	-2021
RTD	4343	-2022



Services, Inc.

TICKET 27811

CHARGE TO: ROBERT F. HEMBRER
 ADDRESS:
 CITY, STATE, ZIP CODE:

PAGE 1 OF 2

1. SERVICE LOCATION Ness City, KS	WELL/PROJECT NO. R B 2	LEASE SCHWARTZKOPF	COUNTY/PARISH NESS	STATE KS	CITY Ness City, KS.	DATE 25 AUG 14	OWNER
2.	TICKET TYPE <input type="checkbox"/> SERVICE <input type="checkbox"/> SALES	CONTRACTOR PREKRELL DRILLING RIGS	RIG NAME/NO.	SHIPPED VIA	DELIVERED TO	ORDER NO.	
3.	WELL TYPE OIL	WELL CATEGORY DEVELOPMENT	JOB PURPOSE 2 1/2 LONG STRING	WELL PERMIT NO.	WELL LOCATION 3 W 15 E 10 T 0		
4. REFERRAL LOCATION	INVOICE INSTRUCTIONS						

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	MILEAGE	QTY.	UM	QTY.	UM	UNIT PRICE	AMOUNT
		LOC	ACCT	DF								
575						\$115	10	mil			60	600
578					PUMP CHARGE		1	JOB			1500	1500
402					CEMENTIZERS		1	DEA			650	650
403					CEMENT BASKETS		2	BA.			275	550
404					PORT COLLAR		1	EA.	1577	PT.	2700	2700
405					FORMATION PACKER SNOE		1	EA.			1650	1650
406					LATCH DOWN PLUG & BAFFLE		1	EA.			225	225
281					MUD FLUSH		5	00 gal			195	975
221					LIQUID KEL		2	gal			250	500

LEGAL TERMS: Customer hereby acknowledges and agrees to the terms and conditions on the reverse side hereof which include, but are not limited to, **PAYMENT, RELEASE, INDEMNITY,** and **LIMITED WARRANTY** provisions.

MUST BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO START OF WORK OR DELIVERY OF GOODS

DATE SIGNED: 25 AUG 14 TIME SIGNED: 2230 A.M. P.M.

REMIT PAYMENT TO:
 SWIFT SERVICES, INC.
 P.O. BOX 466
 NESS CITY, KS 67560
 785-798-2300

SURVEY

OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?	AGREE	UN-DECIDED	DIS-AGREE
WE UNDERSTOOD AND MET YOUR NEEDS?			
OUR SERVICE WAS PERFORMED WITHOUT DELAY?			
WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?			
ARE YOU SATISFIED WITH OUR SERVICE?	<input type="checkbox"/> YES	<input type="checkbox"/> NO	

CUSTOMER DID NOT WISH TO RESPOND

PAGE TOTAL: 1 8010 2 4724

NESS TAX 6.15%

TOTAL: 13,381.23

DATE SIGNED: 25 AUG 14

SWIFT OPERATOR: [Signature]

APPROVAL: [Signature]

Thank You!



PO Box 466
Ness City, KS 67560
Off: 785-798-2300

TICKET CONTINUATION

TICKET No. 27811

DRIVER
ROBERT F. HEMBREE

WELL
SCHAARROKOPF R02

DATE
JAN 14 2012

PRICE REFERENCE	SECONDARY REFERENCE PART NUMBER	ACCOUNTING			TIME	DESCRIPTION	QTY		U/M		UNIT PRICE	AMOUNT
		LOC	ACCT	DF			QTY	U/M	QTY	U/M		
276						ELDFE	50	lbs			2.50	125.00
283						SALT	1000	lbs			0.25	250.00
284						QALSEAL	9	bx			35.00	315.00
285						CFR-1	100	lbs			2.15	450.00
290						D-AIR	2	sqm			42.00	84.00
325						STANDARD EA-2	200	bx			1.45	290.00
581						SERVICE CHARGE	200	sq			2.00	400.00
582						MILEAGE CHARGE	208	mi			2.50	520.00
						LOADED MILES	10	mi				
						CUBIC FEET	200	sq				
						TON MILES	104	sq				
CONTINUATION TOTAL												4724.00

JOB LOG

SWIFT Services, Inc.

DATE 25 AUG 14 PAGE NO.

CUSTOMER ROBERT F. HEMBREE WELL NO. K # 2 LEASE SCHWARTZKOPF JOB TYPE 4 1/2 LONGSTRING TICKET NO. 27811

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1700							ON LOCATION
	1855							START PIPE 4 1/2 - 10.5 # RTD @ SET @ SHOE JT. 42.15 CENTRALIZERS 1, 2, 4, 6, 8, 10, 12, 14, 16, 5, 6, 7 BASKETS 2, 166 PORT COLLAR # 166 @ 1577
	2044						1000	SET PACKER SHOE - CIRCULATE
	2127	6	12				300	Pump 500 gal MUD FLUSH
		6	20				300	Pump 20 Bbl KCL FLUSH
	2140		7					PLUG RH - 30 SX
	2143	5	41				400	MIX 170 SX EA-2
	2154							WASH OUT Pump & LINES
	2157	8						START DISPLACING PLUG
	2206	8	68				1500	PLUG DOWN LATCH PLUG IN.
	2208							RELEASE PSI - DRY
	2210							WASH TRUCK
	2245							JOB COMPLETE THANKS #115 JASON DAVE JARED

ALLIED OIL & GAS SERVICES, LLC 063714

Federal Tax I.D. # 20-8651475

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

SERVICE POINT:
great Bend Kz

DATE <i>9-2-14</i>	SEC. <i>35</i>	TWP. <i>18</i>	RANGE <i>29</i>	CALLED OUT	ON LOCATION <i>8:30am</i>	JOB START <i>10:00 am</i>	JOB FINISH <i>11:00am</i>
LEASE <i>Wootshop</i>		WELL # <i>K-2</i>		LOCATION <i>near city 2w 15 1/2 E</i>		COUNTY <i>Perm</i>	STATE <i>Kz</i>
<input checked="" type="radio"/> OLD OR NEW (Circle one)							

CONTRACTOR *patzer well service*

TYPE OF JOB *port collar*

HOLE SIZE _____ T.D. _____

CASING SIZE *4 1/2* DEPTH _____

TUBING SIZE *2 3/8* DEPTH *1580*

DRILL PIPE _____ DEPTH _____

TOOL *port collar* DEPTH *1580*

PRES. MAX _____ MINIMUM _____

MEAS. LINE _____ SHOE JOINT _____

CEMENT LEFT IN CSG. _____

PERFS. _____

DISPLACEMENT *H2O 5881*

EQUIPMENT

OWNER _____

CEMENT

AMOUNT ORDERED *370 cu 65135*

67 gal 4 flr

COMMON _____ @ _____

POZMIX _____ @ _____

GEL _____ @ _____

CHLORIDE _____ @ _____

ASC _____ @ _____

<i>370 cu 65/35 + 6%</i>	@ <i>19.88</i>	<i>7,355.60</i>
<i>flr seal 93</i>	@ <i>2.97</i>	<i>276.21</i>
<i>Metering</i>		
	@ <i>total</i>	<i>7,631.81</i>
	<i>Disc 25%</i>	<i>1907.95</i>
	@ <i>Service</i>	
HANDLING <i>410.24</i>	@ <i>2.48</i>	<i>1,017.40</i>
MILEAGE <i>18.09 x 10 x</i>	<i>2.75</i>	<i>497.48</i>

PUMP TRUCK CEMENTER *Chadler King*

597 HELPER *Brian Pang*

BULK TRUCK

870-844 DRIVER *Dan Cooper*

BULK TRUCK

_____ DRIVER _____

REMARKS:

Run 1580' 2 3/8 tubing pressure to 1000ft & held open port collar pump 2881 H2O mix 370 cu 65135 67 gal 4 flr discharge 5881 H2O close port collar pressure to 1000ft & held Run 5 joints Reverse tubing clean

DEPTH OF JOB *1580*

PUMP TRUCK CHARGE *2249.84*

EXTRA FOOTAGE _____ @ _____

MILEAGE *Hvm 10* @ *7.70* *77.00*

MANIFOLD _____ @ *100.00* *100.00*

hvm 10 @ *4.40* *44.00*

CHARGE TO: *Robert F Hambree*

STREET _____

CITY _____ STATE _____ ZIP _____

TOTAL *3,985.72*

Disc 25% *996.43*

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 *Fred J Hambree*

SIGNATURE *Fred J Hambree*

SALES TAX (If Any) _____

TOTAL CHARGES *11,617.53*

25% *2,904.38* *(65/25%)*

DISCOUNT _____ IF PAID IN 30 DAYS

8,713.15



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Robert F Hembree
P. O. Box 542
Ness City KS 67560-0542
ATTN: Clint Musgrove

35 18s 24w Ness
Schwartzkopf K 2
Job Ticket: 56135 **DST#: 1**
Test Start: 2014.08.24 @ 05:38:00

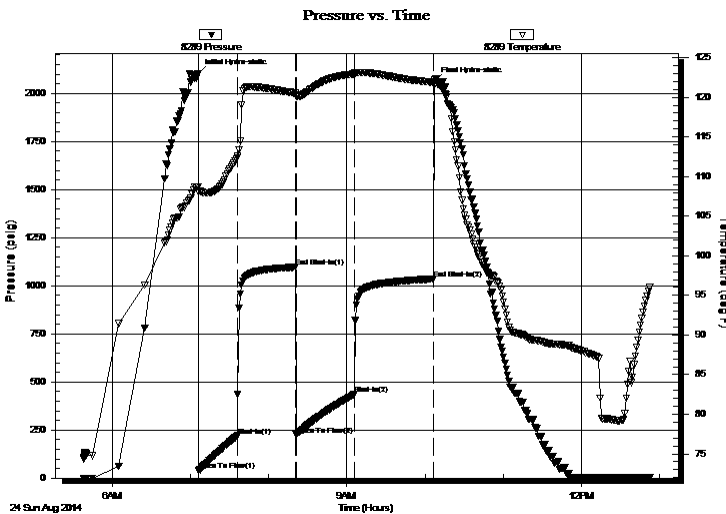
GENERAL INFORMATION:

Formation: **Ft Scott**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 07:06:15
Time Test Ended: 12:53:00
Interval: **4214.00 ft (KB) To 4258.00 ft (KB) (TVD)**
Total Depth: 4258.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Test Type: Conventional Bottom Hole (Initial)
Tester: Jim Svaty
Unit No: 76
Reference Elevations: 2322.00 ft (KB)
2314.00 ft (CF)
KB to GR/CF: 8.00 ft

Serial #: 8289 Outside
Press @ Run Depth: 435.86 psig @ 4223.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2014.08.24 End Date: 2014.08.24 Last Calib.: 2014.08.24
Start Time: 05:38:02 End Time: 12:53:00 Time On Btm: 2014.08.24 @ 07:06:00
Time Off Btm: 2014.08.24 @ 10:07:15

TEST COMMENT: 30-IFP- BOB in 6min.
45-ISIP- 1/4in. Blow in 2min.
45-FFP- BOB in 7 1/2min.
60-FSIP- No Blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2101.99	108.68	Initial Hydro-static
1	38.54	108.06	Open To Flow (1)
30	220.25	112.35	Shut-In(1)
75	1096.42	120.51	End Shut-In(1)
75	225.75	120.16	Open To Flow (2)
120	435.86	122.95	Shut-In(2)
181	1035.46	121.88	End Shut-In(2)
182	2058.90	122.20	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
567.00	MCW 5% m 95% w Show of Oil	7.95
375.00	GOSMCW 10% g 2% o 20% m 68% w	5.26
3.00	CO 100%	0.04
0.00	140 GIP	0.00

Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Robert F Hembree
P. O. Box 542
Ness City KS 67560-0542
ATTN: Clint Musgrove

35 18s 24w Ness
Schwartzkopf K 2
Job Ticket: 56135 **DST#: 1**
Test Start: 2014.08.24 @ 05:38:00

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API: 37 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: 28000 ppm
Viscosity: 50.00 sec/qt	Cushion Volume: bbl	
Water Loss: 8.78 in ³	Gas Cushion Type:	
Resistivity: ohm.m	Gas Cushion Pressure: psig	
Salinity: 4900.00 ppm		
Filter Cake: 1.00 inches		

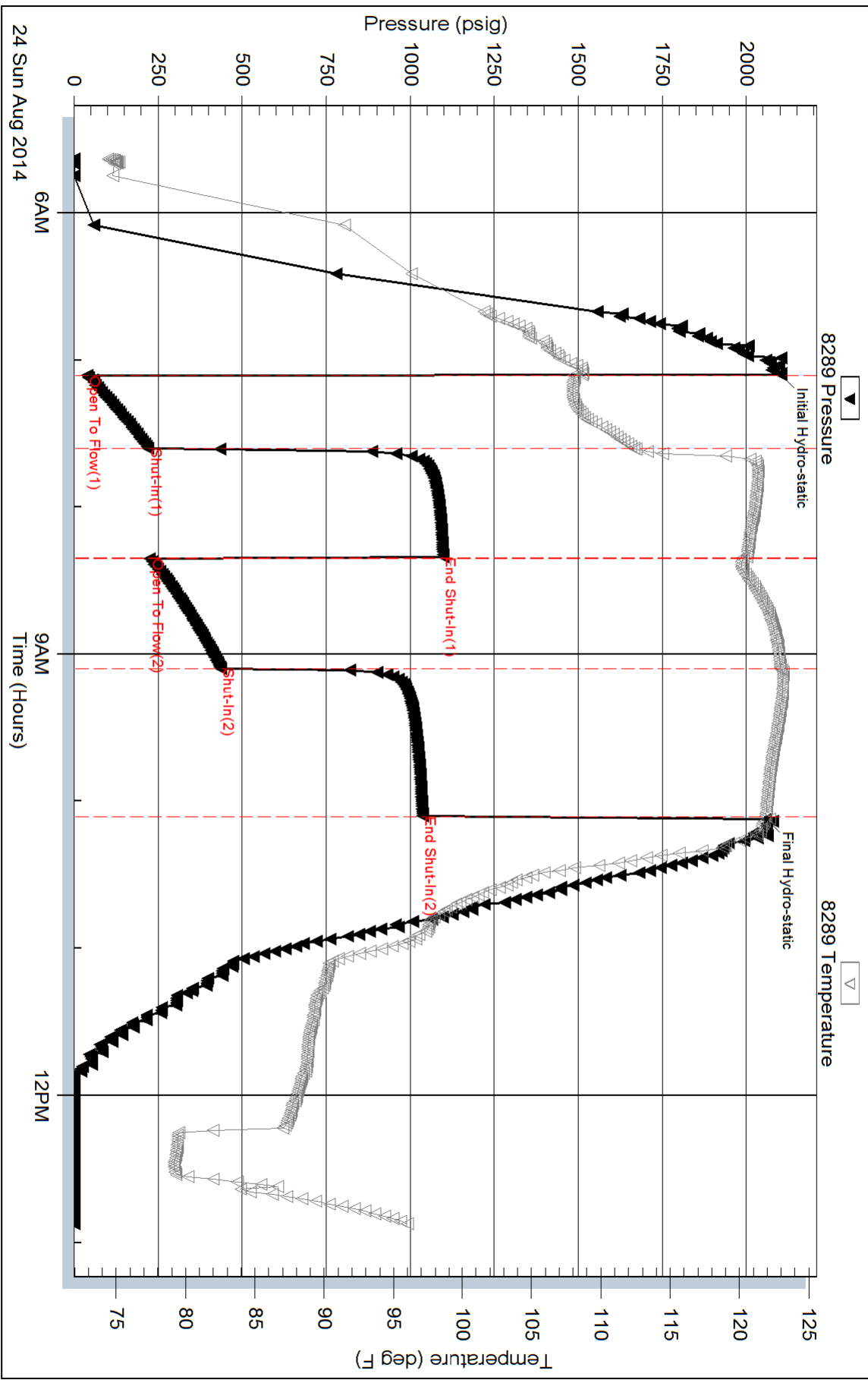
Recovery Information

Recovery Table

Length ft	Description	Volume bbl
567.00	MCW 5% <i>m</i> 95% <i>w</i> Show of Oil	7.954
375.00	GOSMCW 10% <i>g</i> 2% <i>o</i> 20% <i>m</i> 68% <i>w</i>	5.260
3.00	CO 100%	0.042
0.00	140 GIP	0.000

Total Length: 945.00 ft Total Volume: 13.256 bbl
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments: .190 @ 90

Pressure vs. Time



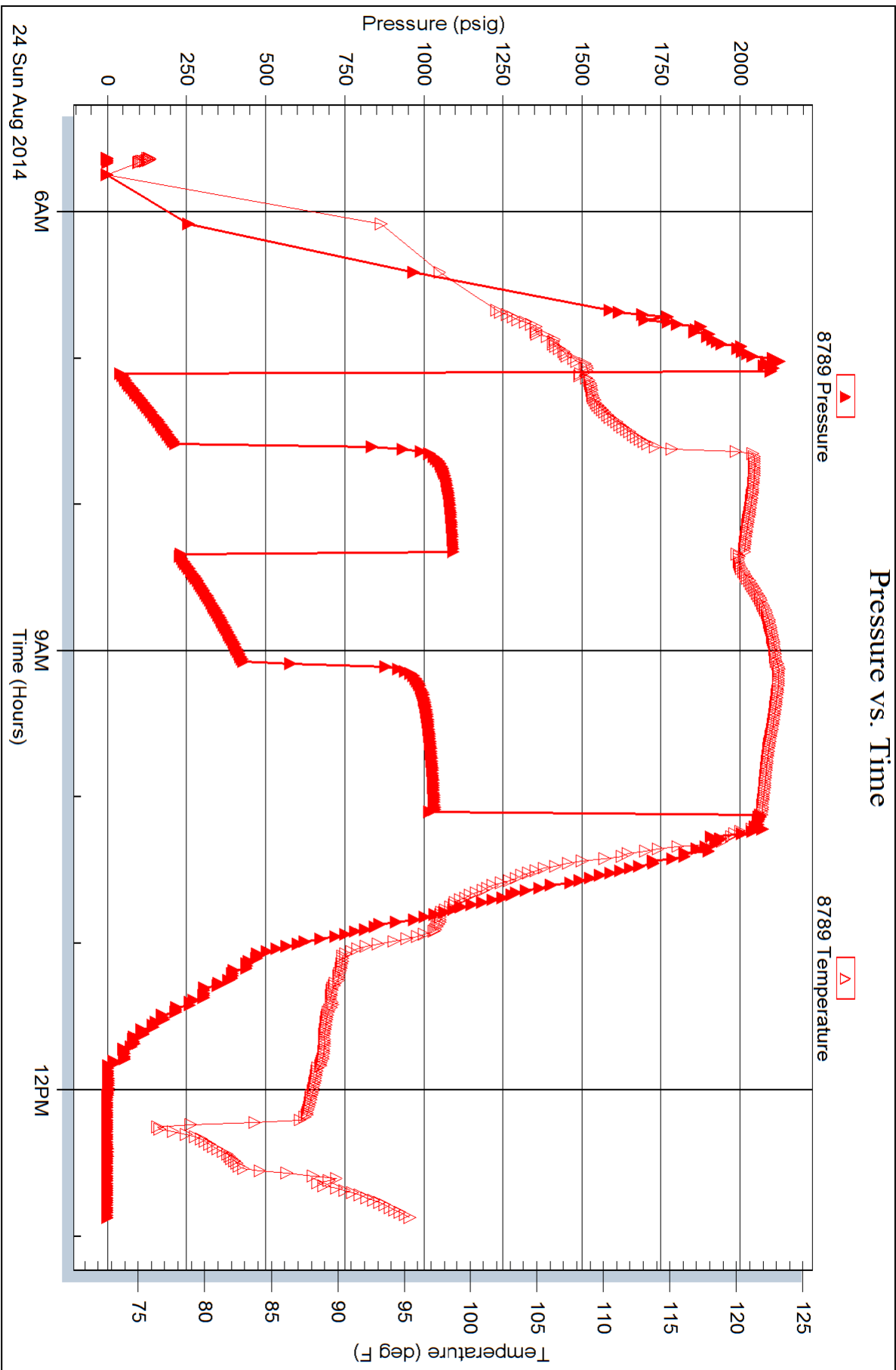
Serial #: 8789

Inside

Robert F Herbrree

Schw artzkopf K 2

DST Test Number: 1





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Robert F Hembree
P. O. Box 542
Ness City KS 67560-0542
ATTN: Clint Musgrove

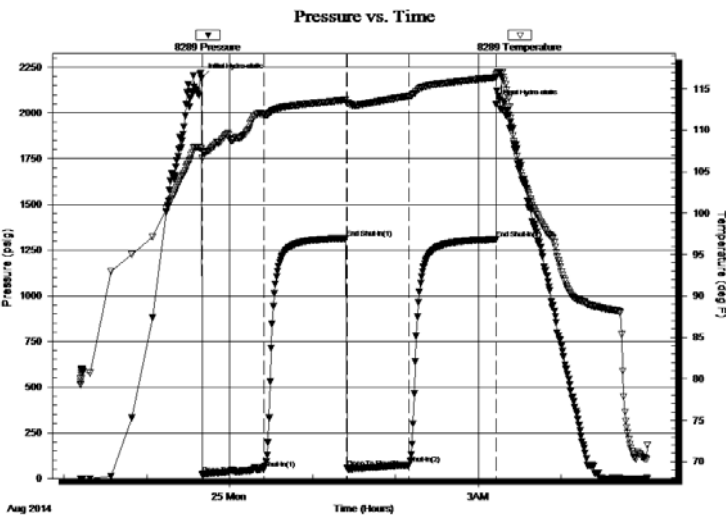
35 18s 24w Ness
Schwartzkopf K 2
Job Ticket: 56136 **DST#: 2**
Test Start: 2014.08.24 @ 22:12:00

GENERAL INFORMATION:

Formation: **Miss**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 23:40:00
Time Test Ended: 05:02:00
Interval: **4300.00 ft (KB) To 4343.00 ft (KB) (TVD)**
Total Depth: 4343.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Test Type: Conventional Bottom Hole (Reset)
Tester: Jim Svaty
Unit No: 76
Reference Elevations: 2322.00 ft (KB)
2314.00 ft (CF)
KB to GR/CF: 8.00 ft

Serial #: 8289 **Outside**
Press@RunDepth: 74.78 psig @ 4308.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2014.08.24 End Date: 2014.08.25 Last Calib.: 2014.08.25
Start Time: 22:12:02 End Time: 05:02:15 Time On Btm: 2014.08.24 @ 23:39:45
Time Off Btm: 2014.08.25 @ 03:12:45

TEST COMMENT: 45-IFP- Surface Blow Building to 7in.
60-ISIP- No Blow
45-FFP- Surface Blow Building to 8in.
60-FSIP- No Blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2190.39	107.77	Initial Hydro-static
1	21.40	106.60	Open To Flow(1)
45	49.32	111.88	Shut-In(1)
105	1314.62	113.66	End Shut-In(1)
105	55.34	113.21	Open To Flow(2)
150	74.78	114.14	Shut-In(2)
213	1308.80	116.35	End Shut-In(2)
213	2043.87	116.69	Final Hydro-static

Recovery

Length (ft)	Description	Volume(bbl)
30.00	WOCM 10%w 30%o 60%m	0.42
38.00	WMCO 5%w 20%m 75%o	0.53
67.00	CO 100%	0.94
0.00	52 GIP	0.00

Gas Rates

	Choke(inches)	Pressure (psig)	Gas Rate(Mcf/d)

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Robert F Hembree
P. O. Box 542
Ness City KS 67560-0542

ATTN: Clint Musgrove

35 18s 24w Ness
Schwartzkopf K 2
Job Ticket: 56136 **DST#: 2**
Test Start: 2014.08.24 @ 22:12:00

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API: 36 deg API
Mud Weight: 10.00 lb/gal	Cushion Length: ft	Water Salinity: ppm
Viscosity: 49.00 sec/qt	Cushion Volume: bbl	
Water Loss: 9.56 in ³	Gas Cushion Type:	
Resistivity: ohm.m	Gas Cushion Pressure: psig	
Salinity: 5200.00 ppm		
Filter Cake: inches		

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	WOCM 10%w 30%o 60%m	0.421
38.00	WMCO 5%w 20%m 75%o	0.533
67.00	CO 100%	0.940
0.00	52 GIP	0.000

Total Length: 135.00 ft Total Volume: 1.894 bbl
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

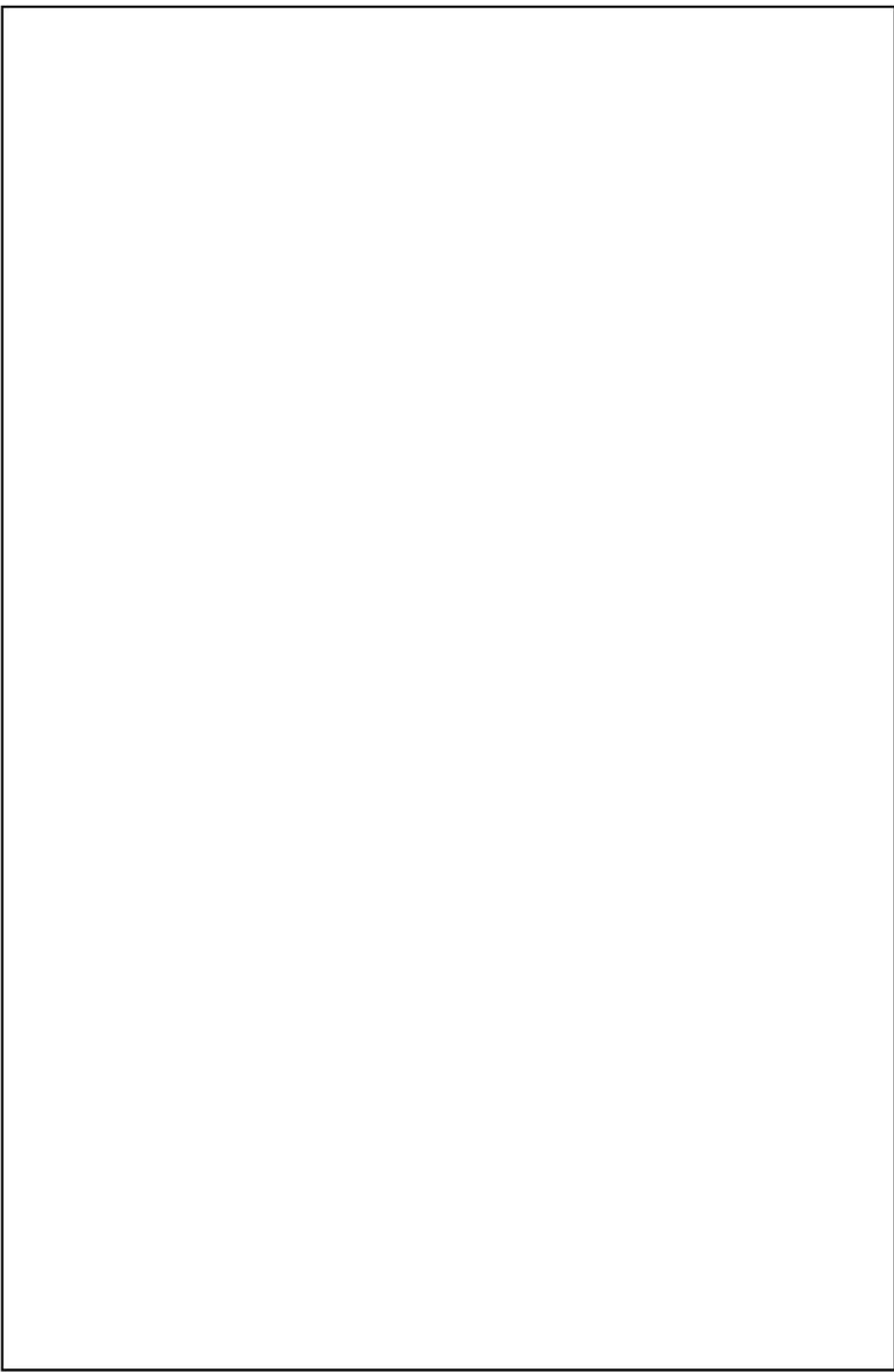
Serial #: 8289

Outside

Robert F Hembree

Schwartzkopf K 2

DST Test Number: 2



Triobite Testing, Inc

Ref. No: 56136

Printed: 2014.08.25 @ 05:54:54



Geologist's Report

Company: Robert F. Hembree
Lease: Schwartzkopf 'K' #2
Field: McDonald Northeast
Surface Location: W2-SE-SW-SW (330' FSL & 823' FWL)
Sec: 35 **Twp:** 18S **Rge:** 24W
County: Ness **State:** Kansas
GL: 2314' **KB:** 2321'

Contractor: Pickrell Rig #10
Spud: 8/19/14 **Comp:** 8/25/14
RTD: 4343' **LTD:** 4342'
Mud Up: 3500' **Mud Type:** Chemical Displaced









Drilling Time Kept From: 3600' to RTD
Samples Saved From: 3600' to RTD
Samples Examined: 3600' to RTD
Geological Supervision: 3600' to RTD
Geologist on Well: Clint Musgrove

Surface Casing: 8 5/8" @ 222'
Production Casing: 4 1/2" @ 4342'

Wireline Logs: By Pioneer: CNL/CDL, DIL, MEL

Well Comparison

ROCK TYPES

 Chtcongl	 Lmst fw<7	 shale, gry	 shale, red
 Dolprim	 shale, grn	 Carbon Sh	 Shcol

OTHER SYMBOLS

EVENTS

- ⌋ Casing Shoe
- ▷ RTF
- ▶ Sidewall
- ▲ Left Casing Shoe
- ▼ Right Casing Shoe

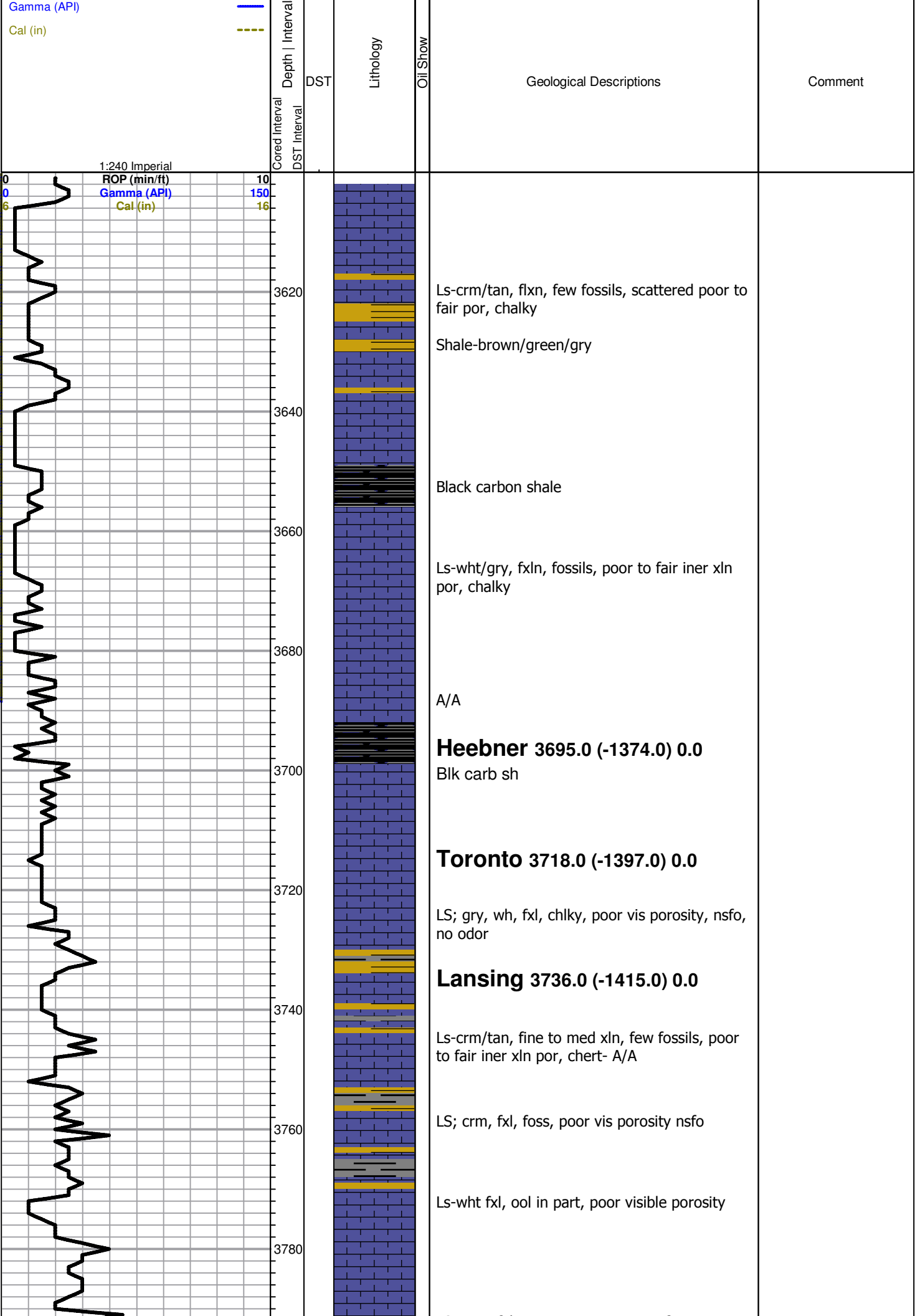
INTERVALS

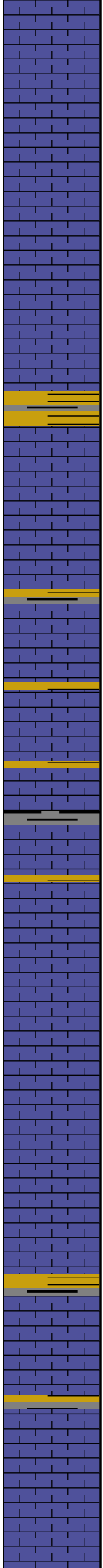
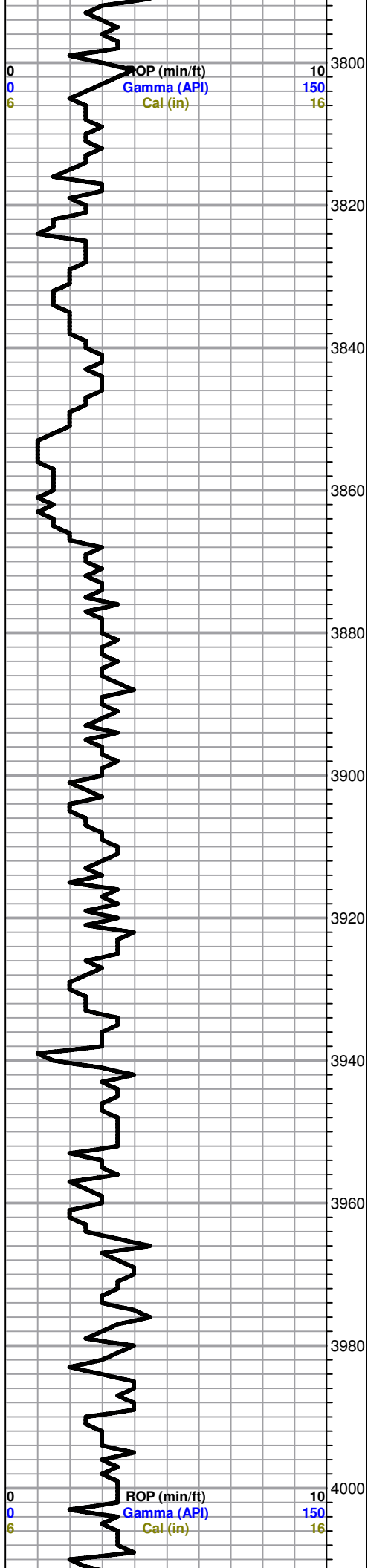
- Core
- DST

DST

- DST Int
- DST alt

Curve Track #1					
ROP (min/ft)	—	∞			





LS; crm, fxl, scatt ppt porosity, nsfo

LS-wht/crm, fxl, highly ool, poor vis por, boney wht chert,

LS: crm, fxl, scatt ppt oom porosity, nsfo no odor

LS; crm, fxl, scatt oom porosoty, (barren)

LS: crm, fxl, foss, poor vis porosity, nsfo

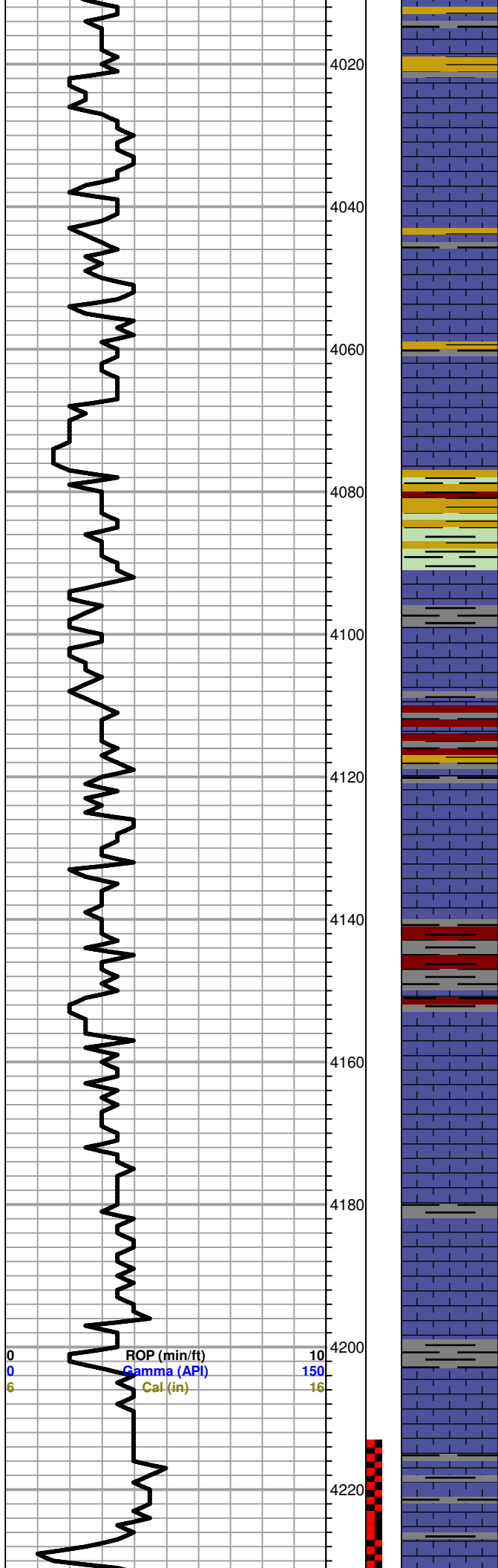
LS-wht/lt gry, fxl, dense, slightly ool, poor vis por

LS-wht/crm, fxl, ool, scattered iner ool, to sub oom por, chlky

LS-wht/crm, fxl, ool, poor scattered por, chalky, chert-boney wh

LS-crm/tan, fxl, highly oom poor vis por,

LS-crm/tan, fxl, highly ool, poo riner ool to sub oom por, chalky



Ls-crm/wht, fxln, ool, poor vis por, chalky, cherty

Ls-crm/tan, fxln, ool, few fossils, scattered oom por

Base KC 4046.0 (-1725.0) 0.0

Ls-crm/tan, fxl, highly ool, poor vis por, cherty in part

Ls-crm/lt gry, fxl, ool, fossils, scattered vis porosity

Marmaton 4069.0 (-1748.0) 0.0

Sh. gry/ gren VC

LS; tan, buff, xln, ft blk stn, nsfo, poor vis porosity

LS; crm, fxl, scatt vis porosity, nsfo, no odor

Shale-gry/brown

Ls-wht/gry, fxln, poor vis por, trace wht chert-fossils

Shale-gry/maroon/brwn

Pawnee 4153.0 (-1832.0) 0.0

LS crm/tan, fxl, suc, chlky

Sh gry/ green shof

LS; crm, fxl, cherty, nsfo, poor vis porosity

Ls-A/A

Ls-wht/lt gry, fxln, few fossils/ool, cherty in part, dense

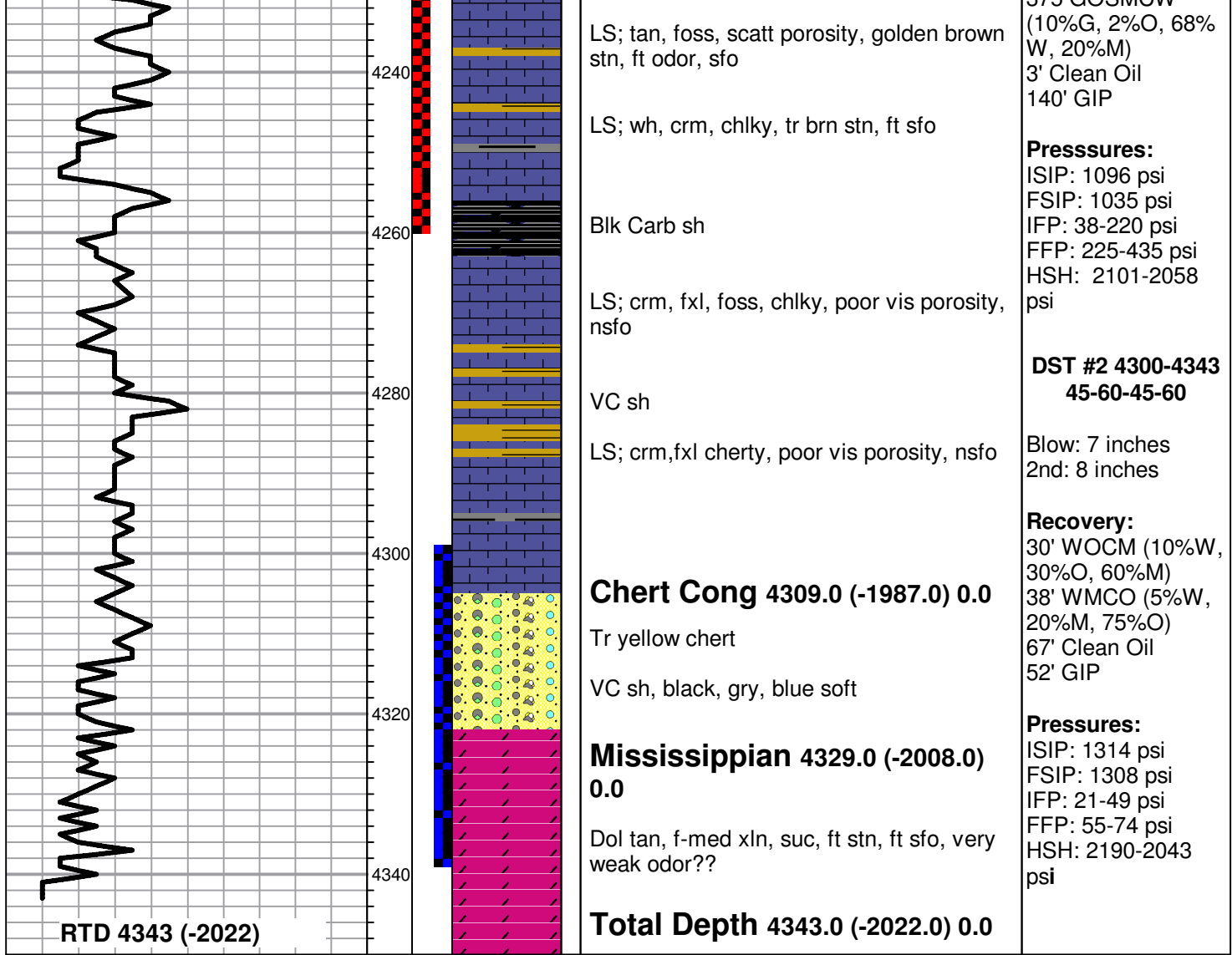
Shale-gry/grn soft

Fort Scott 4230.0 (-1909.0) 0.0

**DST #1 4214-4258
30-45-45-60**

Blow: BOB 6 mins
2nd: BOB 7.5 mins

Recovery:
567' MCW(95%W,
5%M)
375 GOSMCW



PICKRELL DRILLING COMPANY, INC.

100 SOUTH MAIN – SUITE 505
WICHITA, KANSAS 67202-3738
(316) 262-8427 - FAX 262-0893

#2 Schwartzkopf “K”
W/2 SE SW SW
Section 35-18S-24W
Ness County, Kansas
Operator: Robert F. Hembree

Projected RTD: 4375'

API#: 15-135-25799-00-00
330' From South Line of Section
823' From West Line of Section
ELEV: 2321'KB, 2319'DF, 2314'GL
Contractor: Pickrell Drilling Co. Inc. Rig #10

- 8-19-14: MI & RURT. Probable Spud.
- 8-20-14: (On 8-19) MI & RURT. Spud @ 2:00 PM. Drld 12 ¼" surface hole to 222'KB. SHT @ 222' = 3/4°. Ran 5 jts. of New 8 5/8" 20# surface casing set @ 220', cmt w/150sx Class A, 2% gel, 3% CC. PD @ 7:30 PM on 8-19-14. CDC. Allied ticket #63573. WOC 8 hrs. (On 8-20 Drlg ahead @ 492'.
- 8-21-14: Drlg ahead @ 2280'. SHT @ 710' = 1/4°, at 1273' = 3/4°, at 1773' = 1/2°, at 2273' = 1/2°.
- 8-22-14: Drlg ahead @ 3410'. SHT @ 2804' = 1/2°. Displaced from 3492'-3541'. Made BT @ 3600'. (1.02 Short to board). SHT @ 3614' = 1°.
- 8-25-14: (On 8/23) Drlg. ahead @ 3960'. (On 8/24) Taking DST #1 @ 4258'. DST #1: 4214-4258' (Ft Sc). Strap was .09 short to board. SHT @ 4258' = 1/2°. (On 8-25) W/O loggers. Took DST #2: 4300-4343'. SHT @ 4343' = 1/2°. RTD 4343'. LTD 4342'.
- 8-26-14: (On 8-25) Ran E-Logs. LTD 4342'. Ran 104 jts. of New 4 ½" 10.5# prod. csg. set @ 4329', cmt w/170sx EA-2, 30sx in RH. PC @ 1577'. PD @ 10:00 PM on 8-25-14. Swift ticket # ?. Released Rig. **Final Report.**

SAMPLE TOPS

Top/Anhydrite 1580 (+ 741)
Base/Anhydrite 1604 (+ 717)