



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1227309
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: _____



1227309

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> _____ <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Hembree, Robert F
Well Name	H & S 1
Doc ID	1227309

Tops

Name	Top	Datum
Anhydrite	1597	+745
Base Anhydrite	1632	+710
Heebner	3716	-1374
Lansing	3760	-1422
Base KC	4052	-1710
Marmaton	4094	-1752
Pawnee	4174	-1840
Ft. Scott	4252	-1910
Cherokee	4274	-1932
Mississippi	4353	-2011
LTD	4363	-2021
RTD	4364	-2022

ALLIED OIL & GAS SERVICES, LLC 063707

Federal Tax I.D. # 20-8651475

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

SERVICE POINT:
great Bend

H & S #1

8-12-14 DATE	SEC. 35	TWP. 18	RANGE 35	CALLED OUT	ON LOCATION 4:30 pm	JOB START 7:00 pm	JOB FINISH 8:00 pm
LEASE <u>schmidt # K</u>		WELL # <u>2</u>	LOCATION <u>Ness city 2W 2S 2W</u>		COUNTY <u>Ness</u>	STATE <u>KL</u>	
OLD OR <input checked="" type="radio"/> NEW (Circle one)							

CONTRACTOR Pickrell 10

TYPE OF JOB surface

HOLE SIZE 12 1/4 T.D. 223

CASING SIZE 8 5/8 24# DEPTH 223

TUBING SIZE _____ DEPTH _____

DRILL PIPE _____ DEPTH _____

TOOL _____ DEPTH _____

PRES. MAX _____ MINIMUM _____

MEAS. LINE _____ SHOE JOINT _____

CEMENT LEFT IN CSG. 15'

PERFS. _____

DISPLACEMENT H2O 13.24 BBI

EQUIPMENT _____

OWNER same

CEMENT AMOUNT ORDERED 175 cu class A 31 cc 21 gal

COMMON	<u>175</u>	@ <u>17.90</u>	<u>3,132.50</u>
POZMIX		@	
GEL	<u>329</u>	@ <u>.50</u>	<u>164.50</u>
CHLORIDE	<u>493</u>	@ <u>1.10</u>	<u>542.30</u>
ASC		@	
Material total			<u>3,839.30</u>
Dial @ 20%			<u>767.86</u>
Service			
HANDLING	<u>189.23</u>	@ <u>2.48</u>	<u>469.29</u>
MILEAGE	<u>8.64 x 10 x 2.75 = 237.50</u>		<u>380.00</u>

PUMP TRUCK CEMENTER Charles Hinger

398 HELPER Brian Lang

BULK TRUCK # 544-198 DRIVER Kevin Weighouse

BULK TRUCK # _____ DRIVER _____

REMARKS:

Rig Ran 223' 8 5/8 csg Broke circ 2W
Rig mud pump 5 BBI H2O mix 175 cu
class A 31 cc 21 gal displac 13.24
BBI H2O cement did circalyto
shut dln

DEPTH OF JOB 223

PUMP TRUCK CHARGE 1512.25

EXTRA FOOTAGE @ _____

MILEAGE Hum 10 @ 7.70 77.00

MANIFOLD @ _____

Hum 10 @ 4.40 44.00

CHARGE TO: Robert F. Hembree

STREET _____

CITY _____ STATE _____ ZIP _____

TOTAL 2,482.54
20% 496.51

PLUG & FLOAT EQUIPMENT

_____	@	_____
_____	@	_____
_____	@	_____
_____	@	_____
_____	@	_____

0% TOTAL 0

Thank you!

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 Mike Keln

SIGNATURE Mike Keln

SALES TAX (If Any) _____

TOTAL CHARGES 6,321.84

DISCOUNT 20% 1,264.31 (20/20/0) IF PAID IN 30 DAYS

5,057.47



Services, Inc.

TICKET 26687

CHARGE TO: **ROBERT F. HEMBREE**
 ADDRESS: _____
 CITY, STATE, ZIP CODE: _____

PAGE 1 OF 2

SERVICE LOCATIONS
 1. **Ness City, KS** WELL PROJECT NO. # **1** LEASE **H.S.** COUNTY/PARISH **Ness** STATE **Ks** CITY _____ DATE **8-18-14** OWNER **same**
 2. _____ TICKET TYPE **CONTRACTOR** CONTRACTOR **Pickens Drilling #10** RIG NAME/NO. _____ SHIPPED **via** **CT** DELIVERED TO **LOCATION** ORDER NO. _____
 3. _____ WELL TYPE **Oil** WELL CATEGORY **Development** JOB PURPOSE **5 1/2" LOGGING** WELL PERMIT NO. _____ WELL LOCATION **Ness City, KS - 2nd 1/2 S. W.**
 4. _____ INVOICE INSTRUCTIONS

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	LOC	ACCT	DE	DESCRIPTION	QTY.	UM	QTY.	UM	UNIT PRICE	AMOUNT
575		1			MILEAGE # 115	10	MI			6.00	60.00
578		1			Pump Charge	1	CHRG	4350	FT	1500.00	1500.00
221		1			Leakoff Gel	2	Gal			25.00	50.00
281		1			MUDFLUSH	500	Gal			1.25	625.00
402		1			CEMENTIZERS	10	EA	5 1/2"		70.00	700.00
403		1			Cement BASKETS	2	EA			300.00	600.00
404		1			POOR CONDUIT	1	EA	1603	FT	2900.00	2900.00
405		1			FORWARDED PACKISHOE	1	EA			1650.00	1650.00
406		1			LATCH DOWN PLUG - BASKET	1	EA			275.00	275.00

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 **8-18-14** TIME SIGNED **2300** A.M. P.M.
 SIGNED **[Signature]**

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

SURVEY
 OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?
 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?
 CUSTOMER DID NOT WISH TO RESPOND

PAGE TOTAL # **1** AMOUNT **8360.00**
 SUB TOTAL **4382.50**
 TAX **12,742.50**
 TOTAL **13,395.32**

SWIFT OPERATOR **Davey Wilson** APPROVAL _____
 CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES The customer hereby acknowledges receipt of the materials and services listed on this ticket
 APPROVAL _____
 Thank You!



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

TICKET CONTINUATION

TICKET No. 26687

CUSTOMER
ROBERT F. HEMBRER

WELL H.S #1

DATE 8-18-14

PAGE 2 OF 2

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			TIME	DESCRIPTION	WELL				UNIT PRICE	AMOUNT		
		LOC	ACCT	DE			QTY	U/M	QTY	U/M			DATE	
325		1				STANDARD CEMENT EA-2	175	SBS			14.50	2537.50		
276		1				FLOCCEL	50	lbs			2.50	125.00		
283		1				SALT	900	lbs			20	180.00		
284		1				CAISSAL	8	SBS	800	lbs	35.00	280.00		
285		1				CFR-1	100	lbs			4.50	450.00		
290		1				D-ADR	5	gals			42.00	210.00		
581		1				SERVICE CHARGE					175	2.00	350.00	
582		1				MILEAGE CHARGE					18300	10	91.5	250.00
TOTAL WEIGHT 18300 LOADED MILES 10 CUBIC FEET 175 TON MILES 91.5														

CONTINUATION TOTAL 4382.50

JOB LOG

SWIFT Services, Inc.

DATE 8-18-14 PAGE NO. 1

CUSTOMER ROBERT F. HEMBREE WELL NO. #1 LEASE H-S JOB TYPE 5 1/2" LONGSTRING TICKET NO. 26687

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL/GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	2230							ON LOCATION
	0100							START 5 1/2" CASING IN WELL
								TD-4363 SET=4350 TP-4350 5 1/2" 15.5 SJ-30' CENTRALIZERS-1,2,4,6,8,10,12,14,64,66 CMT BSKTS-2,65 PORT COWS-1603 TOP JT # 65
	0300							BREAK CIRCULATION
	0315				✓		1000	DROP BALL - SET PACKERSHOE
	0345	6	12		✓		450	PUMP 500 GAL MUD FLUSH
	0347	6	20		✓		450	PUMP 20 BBL KCL-FLUSH
	0355		7					PLUG RH (30SKS)
	0400	4	35		✓		250	MIX CEMENT- 145 SKS EA-2 @ 15.4 PPG
	0410							WASH OUT PUMP - LEVES
	0410							RELEASE LATCH DOWN PLUG
	0415	7	0		✓			DISPLACE PLUG
		7	100				800	
	0430	6	102.8				1500	PLUG DOWN - PSE UP LATCH IN PLUG
	0435						OK	RELEASE PSE-HEAD
								WASH TRUCK
	0530							JOB COMPLETE

THANK YOU
WAYNE, DOUG, PRESTON



Services, Inc.

TICKET 27809

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

PAGE 1 OF

SERVICE LOCATIONS: 1. NESS CITY, KS. WELL/PROJECT NO. LEASE HHS #1 COUNTY/PARISH NESS STATE KS. CITY NESS CITY, KS. DATE 25 AUG 14 OWNER
 2. TICKET TYPE CONTRACTOR FRI TELLER TRUCKING. RIG NAME/NO. SHIPPED DELIVERED TO ORDER NO.
 3. WELL TYPE SALES WELL CATEGORY DEVELOPMENT JOB PURPOSE CEMENT PORT COLLAR WELL PERMIT NO. WELL LOCATION 300, 25, WITUTO
 4. REFERRAL LOCATION INVOICE INSTRUCTIONS

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.			UNIT PRICE	AMOUNT
		LOC	ACCT	DF		QTY.	UM	QTY.		
575-					MILEAGE #115	10	MIL		60	600
576D					PUMP CHARGE	15	DBS		1500	1500
105-					PORT COLLAR OPENING TBX	1	TBS		350	350
276					FLOECE	5	DBS		250	1250
290					D-AIR	2	PK		42	84
330					SMD CEMENT	175	SK		18	3237
581					CEMENT SERVICE CHARGE	175	SK		2	350
582					MINIMUM DRAYAGE	174	DBS	87.07m	250	250

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

X Fred O. Hemberg
 DATE SIGNED 25 AUG 14 TIME SIGNED 1130 A.M. P.M.

REMIT PAYMENT TO:

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

SURVEY	AGREE	UN-DECIDED	DIS-AGREE	PAGE TOTAL
OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?				5956
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		
TOTAL				6189 98

CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES The customer hereby acknowledges receipt of the materials and services listed on this ticket.
 SWIFT OPERATOR [Signature] APPROVAL
 TAX 7.55% 233 48
 Thank You!

JOB LOG

SWIFT Services, Inc.

DATE 25 AUG 14 PAGE NO.

CUSTOMER ROBERT F. HEMBREE

WELL NO.

LEASE

H 35 B 1

JOB TYPE

CEMENT PORT COLLAR

TICKET NO.

27809

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	0940							ON LOCATION
								PORT COLLAR @ 11602
	1002				✓		1000	TEST - HELD
	1005							OPEN PORT COLLAR
	1008	4	97	✓		400		MIX 175 SX SMD
		3	5 1/2	✓		200		DISPLACE CEMENT
								CIRCULATE 20 SX TO PIT
	1038				✓		1000	CLOSE PORT COLLAR - TEST - HELD
	1042							RUN 4 ITS.
	1047	3 1/2	20		✓		300	REVERSE CLEAN
	1055							WASH TRUCK
	1130							JOB COMPLETE
								THANKS B 115
								JASON DAVE PRESTON



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Robert F Hembree
 PO Box 542
 Ness City, Ks 67560
 ATTN: Kurt Talbot

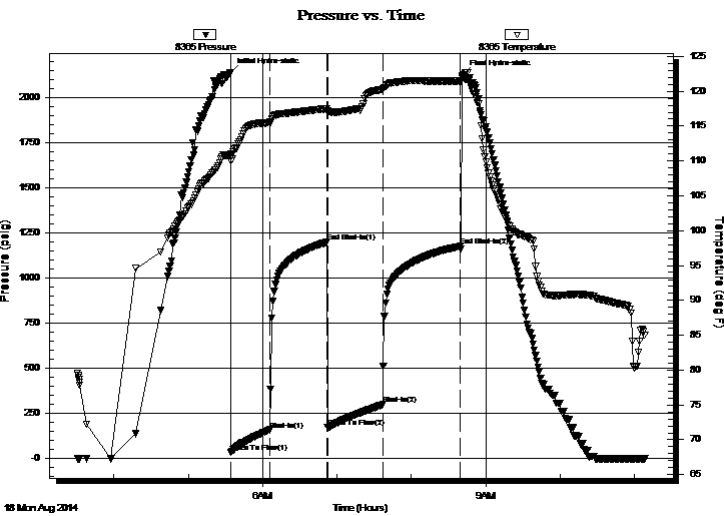
34 18s 35w Ness, Ks
H&S #1
 Job Ticket: 59146 **DST#: 1**
 Test Start: 2014.08.18 @ 03:30:30

GENERAL INFORMATION:

Formation: **Mississippian**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 05:34:30
 Time Test Ended: 11:08:15
 Interval: **4317.00 ft (KB) To 4364.00 ft (KB) (TVD)**
 Total Depth: 4364.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Bradley Walter
 Unit No: 69
 Reference Elevations: 2342.00 ft (KB)
 2335.00 ft (CF)
 KB to GR/CF: 7.00 ft

Serial #: 8365 **Inside**
 Press@RunDepth: 298.55 psig @ 4318.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.08.18 End Date: 2014.08.18 Last Calib.: 2014.08.18
 Start Time: 03:30:35 End Time: 11:08:14 Time On Btm: 2014.08.18 @ 05:34:15
 Time Off Btm: 2014.08.18 @ 08:41:45

TEST COMMENT: IF: BOB @ 7 min.
 IS: 2" return, receded to a surface blow .
 FF: BOB @ 8 min.
 FS: No return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2140.20	110.97	Initial Hydro-static
1	33.14	110.06	Open To Flow (1)
32	158.81	115.50	Shut-In(1)
78	1199.10	117.51	End Shut-In(1)
79	169.74	117.16	Open To Flow (2)
123	298.55	120.24	Shut-In(2)
186	1175.79	121.47	End Shut-In(2)
188	2129.07	122.27	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
370.00	gmco 35g 25m 40o	5.19
450.00	go 30g 70o	6.31
0.00	230'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
PO Box 542
Ness City, Ks 67560
ATTN: Kurt Talbot

34 18s 35w Ness, Ks
H&S #1
Job Ticket: 59146 **DST#: 1**
Test Start: 2014.08.18 @ 03:30:30

Mud and Cushion Information

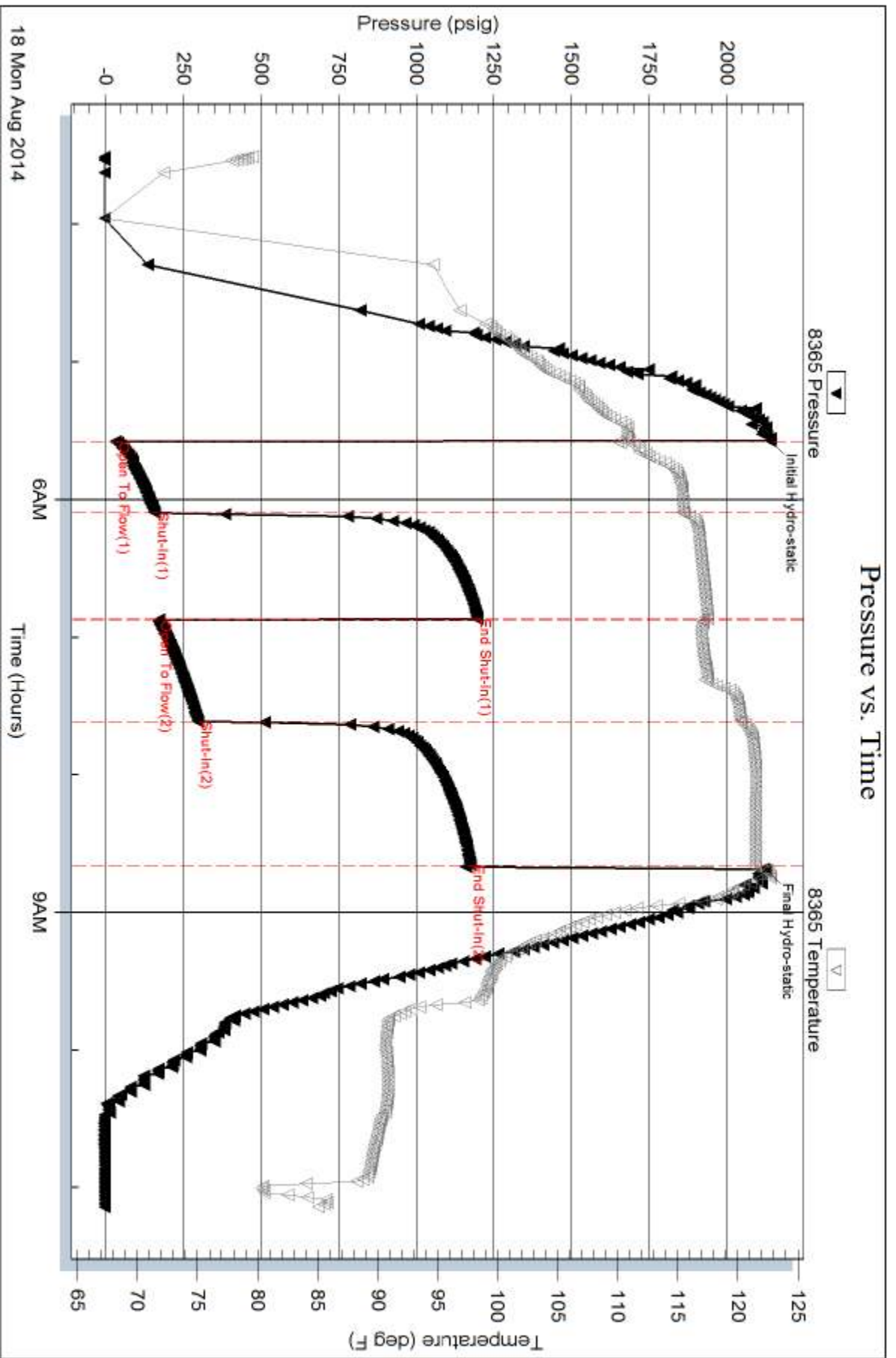
Mud Type: Gel Chem	Cushion Type:	Oil API: 37 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: 0 ppm
Viscosity: 52.00 sec/qt	Cushion Volume: bbl	
Water Loss: 9.19 in ³	Gas Cushion Type:	
Resistivity: ohm.m	Gas Cushion Pressure: psig	
Salinity: 3100.00 ppm		
Filter Cake: 1.00 inches		

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
370.00	gmco 35g 25m 40o	5.190
450.00	go 30g 70o	6.312
0.00	230'GIP	0.000

Total Length: 820.00 ft Total Volume: 11.502 bbl
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:





Geologist's Report

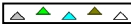







Company: Robert F. HembreeLease: H & S #1Field: McDonald NortheastSurface Location: SE/4 (2457' FSL & 1998' FEL)Sec: 34 Twp: 18S Rge: 24WCounty: Ness State: KansasGL: 2335' KB: 2342'Contractor: Pickrell Drilling Rig #10Spud: 8/8/14 Comp: 8/18/14RTD: 4364' LTD: 4363'Mud Up: +/- 3400' Mud Type: Chemical DisplacedDrilling Time Kept From: 3650' to RTDSamples Saved From: 3650' to RTDSamples Examined: 3700' to RTDGeological Supervision: 3950' to RTDGeologist on Well: Kurt TalbottSurface Casing: 8 5/8" @ 223'Production Casing: 5 1/2" @ 4351'Wireline Logs: By Pioneer: CNL/CDL, DIL, MEL

Well Comparison

	WELL BEING DRILLED		OFFSET		OFFSET	
	HEMBREE		HEMBREE		HEMBREE	
	H & S #1		SCHWARTZKOPF A 1		SCHWARTZKOPF K 1	
	2342 KB		2336 KB		2320 KB	
FORMATION	Log	Log SS	Log	SS	MD	SS
ANHYDRITE	1597	745	1591	745		
BASE ANHY	1633	3716	1627	709		
HEEBNER	3716	-1374	3713	-1377	3699	-1379
LANSING	3760	-1422	3757	-1421	3741	-1421
BASE KC	4052	-1710	4047	-1711	4052	-1732
MARMATON	4094	-1752	4086	-1750	4082	-1762
PAWNEE	4174	-1840	4171	-1835	4159	-1839

FORT SCOTT	4252	-1910	4247	-1911	4236	-1916
CHEROKEE	4274	-1932	4271	-1935		
MISSISSIPPI	4353	-2011	4346	-2010	4331	-2011
TOTAL DEPTH	4063	-2021	4359	-2022	4343	-2023

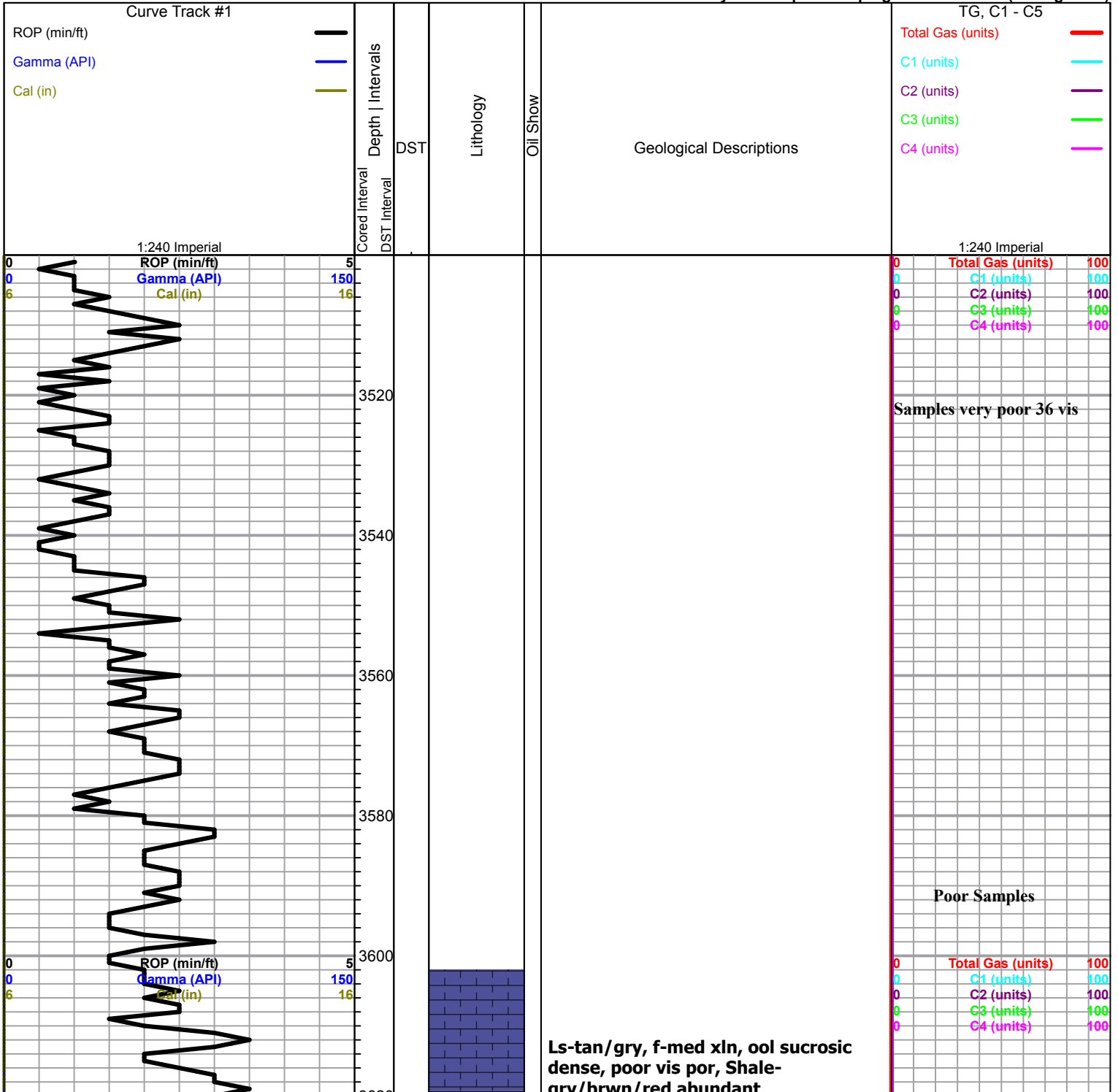
ROCK TYPES

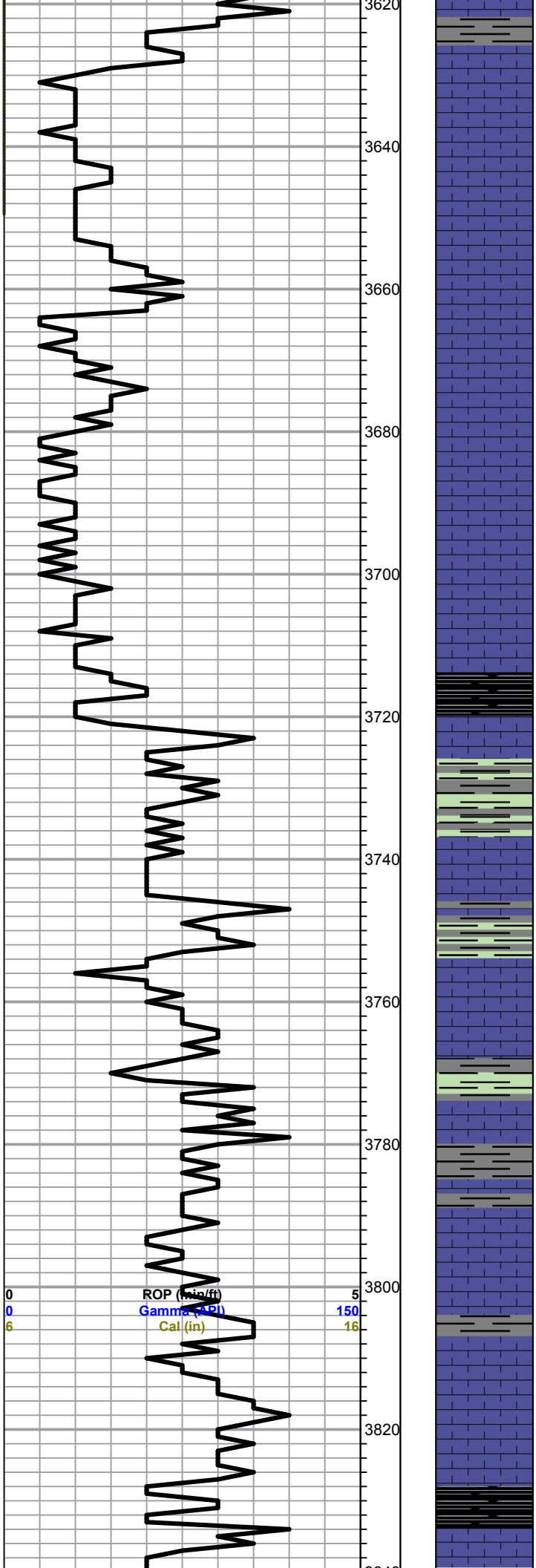
 Cht vari	 Lmst fw<7	 shale, gry	 shale, red
 Dolprim	 shale, gm	 Carbon Sh	 Shcol

OTHER SYMBOLS

EVENTS	INTERVALS	DST
<ul style="list-style-type: none"> ⌋ Casing Shoe ▷ RTF ▷ Sidewall ▲ Left Casing Shoe ▼ Right Casing Shoe 	<ul style="list-style-type: none"> ■ Core ⋅ DST 	<ul style="list-style-type: none"> ■ DST Int ■ DST alt

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gry/brwn/red abundant

Ls-crm/tan, fossils, fair iner xln por, no vis shows, cherty in part

Ls-crm/tan, granular in part, fair por, no vis shows, cherty

Ls-crm/wht, f-med xln, fossils, fair iner part por,

A/A chert-tan/boney wht

Ls-crm/tan/wht, fxln, dense, few fossils, poor vis por, chert A/A

Heebner 3719.0 (-1377.0) - 1374.0
Black carbon shale

Shale gry/grn

Toronto 3739.0 (-1397.0) - 1393.0
Ls-wht/lt gry, f-med xln, granular, chalky, poor vis por,

Lansing 3762.0 (-1420.0) - 1422.0
Ls-wht, chalky, ool, poor scatt por, chert-gry/boney wht
Shale-gry/grn/red/brwn abundant

Shale Abundant
Trace Ls Crm/tan, fxln, slightly ool, poor vis por, slightly chalky

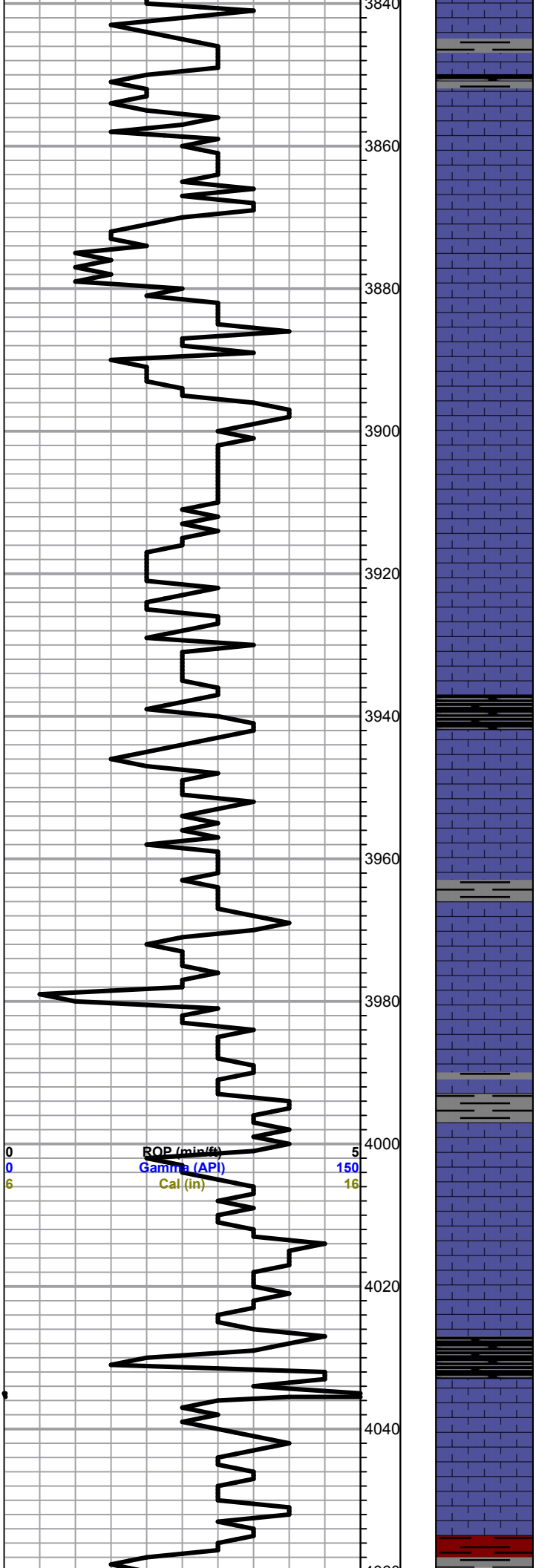
A/A

Ls- lt gry/crm fxln ,poor vis por, chalky

Trace black carbon shale

Poor Samples 40 vis

0	Total Gas (units)	100
0	C1 (units)	100
0	C2 (units)	100
0	C3 (units)	100
0	C4 (units)	100



Ls-tan/gry, fxln, dense, poor vis por,

Ls-crm/tan, fxln, slightly sucrosic, poor vis por,

Ls- crm/tan, fxln, sucrosic, poor scattered por, chalky, chert-boney wht/gry
Coffee brown shale

A/A

Ls-wht/crm/lt gry, fxln, ool, poor vis por, chalk, chert-boney wht

A/A

Ls-wht/lt gry, fxln, dense, poor vis por, chert-gry/tan, Pyrite

Ls- A/A

Ls-wht/crm/wht, flxn, ool, oom, fair oom por, barren, slightly chalky

Ls-wht/ta, fxln, scattered oom por, chalky, cherty AA

Ls-wht/tan, flxn, dense, poor vis por, slightly chalky, cherty in part

A/A

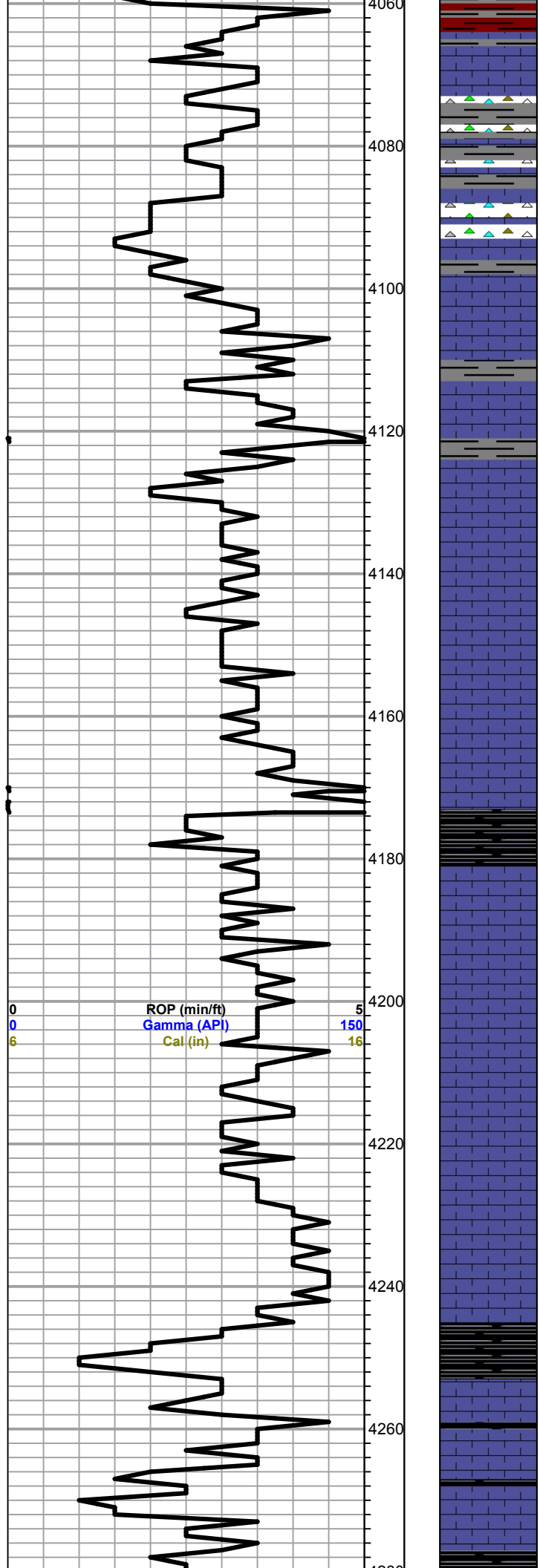
Black carbon shale

Ls-tan/crm, fxln, dense, poor vis por, chert-boney wht-ool/tan

Base KC 4054.0 (-1712.0) - 1710.0

Black carbon shale

0	Total Gas (units)	100
0	C1 (units)	100
0	C2 (units)	100
0	C3 (units)	100
0	C4 (units)	100



Shale-gry/grn/brwn

Ls-tan/gry, few fossils, chert-gry/tan, shale-gry/grn

Shale-gry/grn, LS A/A chert-gry/tan

Marmaton 4095.0 (-1753.0) - 1752.0

Ls-tan/gry, fxln, few fossils, poor vis por,

Ls-tan/buff, poor scattered por, trace stains,NSFO

Ls-tan/buff, fxln, few fossils, poor vis por, slightly chalky

A/A

Ls-tan/buff/crm, fxln, dense, poor vis por, cherty in part

Shale-gry/blk carbon

Pawnee 4178.0 (-1836.0) - 1840.0

Ls-lt gry/wht, fxln, dense, poor vis por,

A/A Slightly chalky

Ls-gry/wht, fxln, dense, poor vis por, chalky in part

Ls-gry/tan, fxln, dense, poor vis por, cherty in part, slightly chalky

Fort Scott 4252.0 (-1910.0) - 1910.0

Black carbon shale

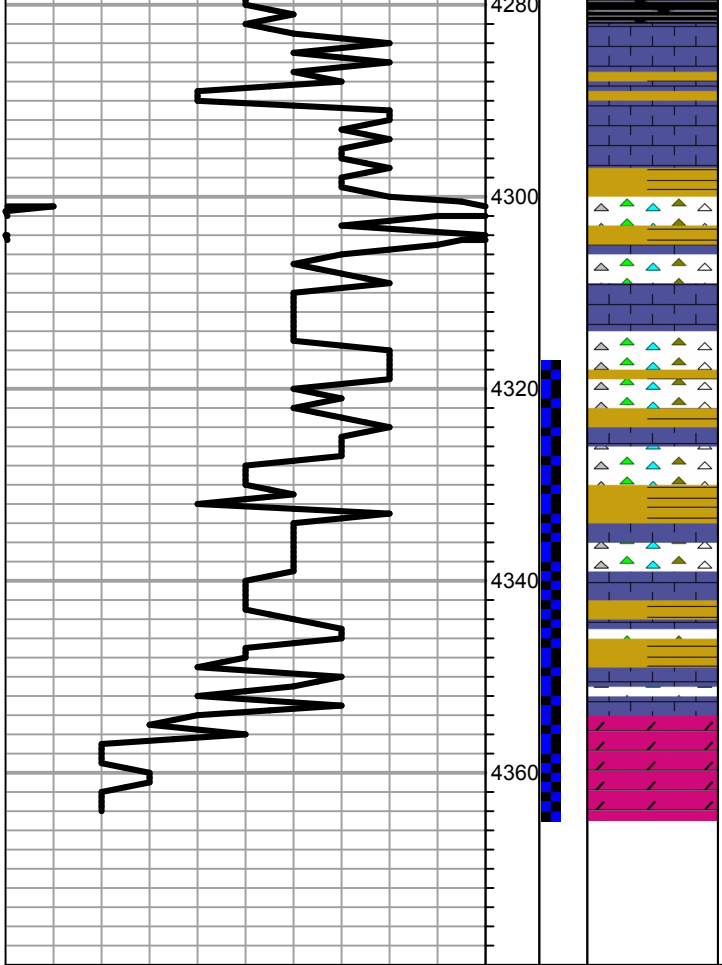
Ls-tan/lt gry, fxln, slightly ool, poor vis por, cherty in part

Ls-crm/tan, fxln, fair to good iner xln to vuggy por, light brown to golden brown stains, TrSFO, faint odor

Cherokee 4278.0 (-1936.0) - 1932.0

0	Total Gas (units)	100
0	C1 (units)	100
0	C2 (units)	100
0	C3 (units)	100
0	C4 (units)	100

ROP (min/ft) 5
 Gamma (API) 150
 Cal (in) 16



Black carbon shale

Ls-tan/buff, fxln, cherty in part, poor vis por

Shale-gry/grn

Shale-A/A Chert-gry/tan

**Shale-brown/gry/grn
Chert-A/A**

Shale- A/A slightly silty

Chert-gry/tan/wht,

**Mississippian 4353.0 (-
2011.0) 0.0**

**Dol-tan/crm, fxln, sucrosic, fair iner
xln to vug por, stain/sat, SFO, odor**

**Total Depth 4364.0 (-2022.0) -
2021.0**

**DST #1 4317-4364
30-45-45-60**

**IF: BOB 7 min
ISI: 2" return**

Recovery:
230' Gas In Pipe
450' Gassy Oil
(30g 70o)
370' Gas Mud Cut Oil
(35g 25m 40o)

Pressures:
ISIP 1199 psi
ESIP 1176 psi
HFP 33-159 psi
FFP 170-299 psi
HSH 2140-2129 psi

PICKRELL DRILLING COMPANY, INC.

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

#1 H & S
NE NW NW SE
Section 34-18S-24W
Ness County, Kansas
Operator: Robert F. Hembree

Projected RTD: 4375'

API#: 15-135-25797-00-00
2457' From South Line of Section
1998' From East Line of Section
ELEV: 2342'KB, 2340'DF, 2335'GL
Contractor: Pickrell Drilling Co. Inc. Rig #10

8-11-14: Too wet to MI.

8-12-14: MI & RURT. Probable Spud.

8-13-14: (On 8/12) Spud @ 2:15PM. Drilled to 223'. SHT @ 223' = 1/4°. Ran 5jts new 20# 8 5/8" surface casing. Set @ 221' (tally 211'). Cement with 175sx Class A, 2% gel, 3%CC. PD @ 8:00 PM, cement circ. Allied ticket #63707. (On 8/13) Drlg. ahead @ 523'.

8-14-14: Depth 2241'. Circulating for survey. SHT @ 741' = 1/2°, @ 1242 = 3/4°, @ 1741 = 3/4°.

8-15-14: Drlg. ahead @ 2925'. BT @ 2398'. SHT @ 2241' = 3/4°, @ 2804' – 3/4°.

8-18-14: (On 8/16) Drlg. ahead @ 3586'. (On 8/17) Drlg. ahead @ 4110. (On 8/18) Testing @ 4364'. DST #1 4317-4364'. 47' Anchor. SHT @ 4364' = 1/2°.

8-19-14: RTD 4364'. Ran E-Logs. LTD 4362'. Ran 104 jts. of 5 1/2" 15.50# prod csg. set @ 4350', (tally was 4345'), cmt w/145sx EA-2, 30sx in RH. PD @ 4:30 AM on 8-19-14. Port collar @ 1603'. Swift ticket # 26687. Released Rig. **Final Report.**

SAMPLE TOPS

Top/Anhydrite 1597 (+745)
Base/Anhydrite 1632 (+710)