



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1213296
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: _____

1213296

Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. R. _____ East West County: _____

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

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

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

CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate				
<input type="checkbox"/> Protect Casing				
<input type="checkbox"/> Plug Back TD				
<input type="checkbox"/> Plug Off Zone				

Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*

Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? Yes No *(If No, fill out Page Three of the ACO-1)*

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth

TUBING RECORD: Size: _____ Set At: _____ Packer At: _____ Liner Run: Yes No

Date of First, Resumed Production, SWD or ENHR: _____ Producing Method: Flowing Pumping Gas Lift Other *(Explain)* _____

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

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

Form	ACO1 - Well Completion
Operator	Hembree, Robert F
Well Name	Petersilie 5
Doc ID	1213296

All Electric Logs Run

Microresistivity
Dual Induction
Dual Compensated Porosity
Sonic Cement Bond

Form	ACO1 - Well Completion
Operator	Hembree, Robert F
Well Name	Petersilie 5
Doc ID	1213296

Tops

Name	Top	Datum
Anhydrite	1571	+758
Base Anhydrite	1616	+713
Heebner	3756	-1427
Toronto	3775	-1446
Lansing	3804	-1465
Base KC	4120	-1791
Marmaton	4162	-1833
Altamont	4187	-1858
Pawnee	4237	-1908
Fort Scott	4311	-1982
Cherokee	4335	-2006
Mississippian	4411	-2082



INVOICE

PO Box 93999
Southlake, TX 76092

Invoice Number: 143531
Invoice Date: May 28, 2014
Page: 1

Voice: (817) 546-7282
Fax: (817) 246-3361

Bill To:
Robert F. Hembree P O Box 542 Ness City, KS 67560

Customer ID	Field Ticket #	Payment Terms	
Hem	62972	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-01	Great Bend	May 28, 2014	6/27/14

Quantity	Item	Description	Unit Price	Amount
1.00	WELL NAME	Petersilie #5l		
150.00	CEMENT MATERIALS	Class A Common	17.90	2,685.00
3.00	CEMENT MATERIALS	Gel	23.40	70.20
423.00	CEMENT MATERIALS	Chloride	0.80	338.40
162.50	CEMENT SERVICE	Cubic Feet Charge	2.48	403.00
115.38	CEMENT SERVICE	Ton Mileage Charge	2.60	299.99
1.00	CEMENT SERVICE	Surface	1,512.25	1,512.25
10.00	CEMENT SERVICE	Pump Truck Mileage	7.70	77.00
10.00	CEMENT SERVICE	Light Vehicle Mileage	4.40	44.00
1.00	CEMENT SUPERVISOR	Tim Dickson		
1.00	EQUIPMENT OPERATOR	Kevin Eddy		
1.00	OPERATOR ASSISTANT	Brian Lang		

Subtotal	5,429.84
Sales Tax	190.26
Total Invoice Amount	5,620.10
Payment/Credit Applied	
TOTAL	5,620.10

ALL PRICES ARE NET, PAYABLE
30 DAYS FOLLOWING DATE OF
INVOICE. 1 1/2% CHARGED
THEREAFTER. IF ACCOUNT IS
CURRENT, TAKE DISCOUNT OF

\$ 1,085.97

ONLY IF PAID ON OR BEFORE
Jun 27, 2014

<1,085.97>
4,534.13

SWIFT



Services, Inc.

P. O. Box 466
Ness City, KS 67560
Off: 785-798-2300



Invoice

DATE	INVOICE #
6/4/2014	26334

BILL TO
Robert F. Hembree PO Box 542 Ness City, KS 67560-0542

- Acidizing
- Cement
- Tool Rental

TERMS	Well No.	Lease	County	Contractor	Well Type	Well Category	Job Purpose	Operator
Net 30	#5	Petersilie	Ness	Pickrell Drilling	Oil	Development	Cement LongStri...	Blaine

PRICE REF.	DESCRIPTION	QTY	UM	UNIT PRICE	AMOUNT
575D	Mileage - 1 Way	15	Miles	6.00	90.00
578D-L	Pump Charge - Long String	1	Job	1,500.00	1,500.00
402-5	5 1/2" Centralizer	8	Each	70.00	560.00T
403-5	5 1/2" Cement Basket	2	Each	300.00	600.00T
404-5	5 1/2" Port Collar	1	Each	2,900.00	2,900.00T
406-5	5 1/2" Latch Down Plug & Baffle	1	Each	275.00	275.00T
407-5	5 1/2" Insert Float Shoe With Auto Fill	1	Each	375.00	375.00T
325	Standard Cement	175	Sacks	14.50	2,537.50T
284	Calseal	8	Sack(s)	35.00	280.00T
283	Salt	900	Lb(s)	0.20	180.00T
292	Halad 322	100	Lb(s)	8.00	800.00T
276	Flocele	50	Lb(s)	2.50	125.00T
281	Mud Flush	500	Gallon(s)	1.25	625.00T
221	Liquid KCL (Clayfix)	2	Gallon(s)	25.00	50.00T
290	D-Air	2	Gallon(s)	42.00	84.00T
581D	Service Charge Cement	175	Sacks	2.00	350.00
582D	Minimum Drayage Charge	1	Each	250.00	250.00
	Subtotal				11,581.50
	Sales Tax Ness County			6.15%	577.58

We Appreciate Your Business!

Total

\$12,159.08



Services, Inc.

CHARGE TO:

Robert F. Hembree

ADDRESS

CITY, STATE, ZIP CODE

TICKET 26334

PAGE 1 OF 2

1. SERVICE LOCATION Muskogee KS	WELL/PROJECT NO. 45	LEASE Peteside	COUNTY/PARISH Leos	STATE KS	CITY New City	DATE 4 Jan 14	OWNER
2. TICKET TYPE <input type="checkbox"/> SERVICE <input type="checkbox"/> SALES	CONTRACTOR	RIG NAME/NO. 10	SHIPPED VIA OT	DELIVERED TO location	ORDER NO.	WELL LOCATION 12-20-24	
3. WELL TYPE	WELL CATEGORY Development	JOB PURPOSE cement long string					
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		1			TRK 114	15	mi				90.00	90.00
578		1			Pump Charge	1	ea				1500.00	1500.00
402		1			Centralizer	52	in			8.00	70.00	560.00
403		1			Cement Bucket	52	in			7.00	300.00	600.00
404		1			Post Collar	52	in			1.00	2900.00	2900.00
406		1			latch down plug 3/8" baggie	52	in			1.00	275.00	275.00
407		1			insert float shoe w/ auto fill	52	in			1.00	375.00	375.00
419		1			Rotating head rental	52	in			4.00	200.00	200.00

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: 7 Feb 14 TIME SIGNED: AM A.M. P.M.

DATE SIGNED: _____ TIME SIGNED: _____

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	
<input type="checkbox"/> CUSTOMER DID NOT WISH TO RESPOND			

PAGE TOTAL 1 3
 6400.00
 5281.50
 Subtotal 1 11681.50
 7.00 TAX 577.58
 6.15% 577.58
 TOTAL 12,159.08

SWIFT OPERATOR: _____ APPROVAL: _____

CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES: _____

The customer hereby acknowledges receipt of the materials and services listed on this ticket.

Thank You!

JOB LOG

SWIFT Services, Inc.

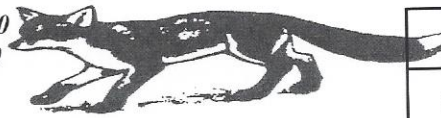
DATE Jun 14 PAGE NO. 1

CUSTOMER Robert F Hembree WELL NO. #5 LEASE Petersite JOB TYPE cement long string TICKET NO. 26334

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
								175 sk SA-2 cement w/ 1/4" floccle 5 1/2" x 14" casing 106 joints 9453' RTD 4455' shoe jt 27.42' Port collar *69 1602' Concr 2,4,6,8,10,12 68, 70 Prodnt 2, 68
	0615							on loc TRK 114
	0625							start 5 1/2" x 14" casing in well
	0830							Drop ball - circulate - ROTATE
	0915	4 1/2	12				200	Pump 500 gal mud flush
		4 1/2	20				200	Pump 20 bbl KCL flush
	0923		7					Plug RH 30 sk
	0926	4 1/2	35				200	Mix SA-2 cement 145 sk @ 15.3 ppg
	0937							Drop latch down plug wash out pump & line
	0943	6					200	Displace plug
		6	100				650	
	1000	6	107				1500	Land plug
	1004							Release pressure to truck - dried up
	1010							wash truck
								Rack up
	1040							job complete
								Thanks Frank Blaine, 3/15/00



P. O. Box 466
 Ness City, KS 67560
 Off: 785-798-2300



Invoice

DATE	INVOICE #
6/19/2014	26368

BILL TO
Robert F. Hembree PO Box 542 Ness City, KS 67560-0542

- Acidizing
- Cement
- Tool Rental

TERMS	Well No.	Lease	County	Contractor	Well Type	Well Category	Job Purpose	Operator
Net 30	#5	Petersilie	Ness	Husker Energy Se...	Oil	Development	Cement Port Collar	Jason
PRICE REF.	DESCRIPTION				QTY	UM	UNIT PRICE	AMOUNT
575D	Mileage - 1 Way				15	Miles	6.00	90.00
576D-D	Pump Charge - Port Collar				1	Job	1,500.00	1,500.00
288	Sand (20/40 Brady)				1	Sack(s)	22.00	22.00T
276	Flocele				45	Lb(s)	2.50	112.50T
290	D-Air				2	Gallon(s)	42.00	84.00T
330	Swift Multi-Density Standard (MIDCON II)				175	Sacks	18.50	3,237.50T
102	Service Retrievable Bridge Plug Rental				1	Each	1,200.00	1,200.00T
105	Port Collar Tool Rental With Man				1	Each	350.00	350.00T
581D	Service Charge Cement				175	Sacks	2.00	350.00
582D	Minimum Drayage Charge				1	Each	250.00	250.00
	Subtotal							7,196.00
	Sales Tax Ness County						6.15%	307.87
We Appreciate Your Business!							Total	\$7,503.87



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

TICKET 26368

PAGE 1 OF

SERVICE LOCATIONS
 1. **Ness City, KS** WELL/PROJECT NO. _____ LEASE **PETERSVILLE #5** COUNTY/PARISH **Ness** STATE **KS** CITY **Ness City, KS** DATE **19 JUN 14** OWNER _____
 2. _____ TICKET TYPE **CONTRACTOR** CONTRACTOR **HUSKER ENERGY SERV.** RIG NAME/NO. _____ SHIPPED VIA _____ DELIVERED TO _____ ORDER NO. _____
 3. _____ WELL TYPE **OIL** WELL CATEGORY **DEVELOPMENT** JOB PURPOSE **Cement Port Collar** WELL PERMIT NO. _____ WELL LOCATION **95, 120, 120, WETS**
 4. _____ INVOICE INSTRUCTIONS _____

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	MILEAGE	QTY.	UM	QTY.	UM	UNIT PRICE	AMOUNT
		LOC	ACCT	DF								
575					Pump Charge	# 115-	1	Sm			1500	1500
288					SAUD		1	SX			22	22
276					FLOECE		45	Lbs			2	112
290					D-AIR		2	gpc			42	84
330					SMD CEMENT		175	SX			18	3237
581					CEMENT SERVICE CHARGE		175	SX			2	350
582					MINIMUM DAPGE		17	gals-lbs.			250	250
102					BRIDGE PLUG RENTAL		1	DOB			1200	1200
105					PORT COLLAR OPENING TOOL		1	DOB			350	350

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 **Robert Hembree** DATE SIGNED **19 Jun 14** TIME SIGNED **1730** 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?
 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 **7196**
 TAX **16.15%**
 TOTAL **7503.87**

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

JOB LOG

SWIFT Services, Inc.

DATE 19 JUN 14 PAGE NO.

CUSTOMER ROBERT F. HEMBREE

WELL NO.

LEASE

PETERSILK #5

JOB TYPE

CEMENT PORT COLLAR

TICKET NO.

26368

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1200							ON LOCATION
								RUN BRIDGE PLUG TO 3360
	1338	4	80	✓				LOAD CASING
	1357			✓		1000		TEST TOOLS - HELD.
	1402	2	8	✓				SPOT 1x SAND
								PULL TO PORT COLLAR @ 1559
	1528				✓		1000	TEST - HELD
	1530							OPEN PORT COLLAR
	1535	4	97	✓		400		MIX 1753x SMD
		3	6	✓		200		DISPLACE CEMENT
								CIRCULATE 20sx TO PIT
	1606				✓		1000	CLOSE PORT COLLAR - TEST - HELD
								RUN 4STS.
	1615	4	15	✓				REVERSE CLEAN
	1622							WASH TRUCK - RUN TUBING TO PLUG.
	1650	2	36	✓			200	REVERSE SAND OFF PLUG.
	1730							JOB COMPLETE
								THANKS # 115
								JASON DAVE DOUG JARED



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Robert F. Hembree
PO Box 542
Ness City, KS 67560
ATTN: Kurt Talbott

12-20s-24w Ness co.
Petersilie #5
Job Ticket: 57329 **DST#: 1**
Test Start: 2014.06.02 @ 07:45:00

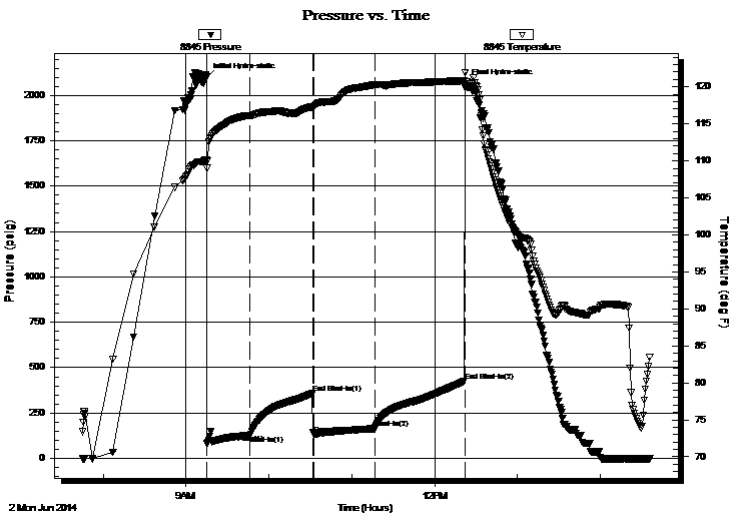
GENERAL INFORMATION:

Formation: **Fort Scott**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 09:15:15
Time Test Ended: 14:36:15
Interval: **4270.00 ft (KB) To 4335.00 ft (KB) (TVD)**
Total Depth: 4335.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good
Test Type: Conventional Bottom Hole (Initial)
Tester: Samuel Esparza
Unit No: 71
Reference Elevations: 2329.00 ft (KB)
2322.00 ft (CF)
KB to GR/CF: 7.00 ft

Serial #: 8845 Inside
Press@RunDepth: 163.17 psig @ 4271.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2014.06.02 End Date: 2014.06.02 Last Calib.: 2014.06.02
Start Time: 07:45:05 End Time: 14:36:14 Time On Btm: 2014.06.02 @ 09:15:00
Time Off Btm: 2014.06.02 @ 12:22:00

TEST COMMENT: IF: BOB @ 1 min.
IS: No Return.
FF: BOB @ 3 min.
FS: No Return.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2097.07	110.18	Initial Hydro-static
1	82.09	109.00	Open To Flow (1)
32	128.04	116.11	Shut-In(1)
77	357.24	117.29	End Shut-In(1)
78	134.06	117.25	Open To Flow (2)
122	163.17	120.27	Shut-In(2)
187	425.49	120.84	End Shut-In(2)
187	2062.41	121.85	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
180.00	GOWCM 35g 10o 10w 45m	2.52
145.00	GWCM (Oil Spots) 10g 5w 85m	2.03
0.00	600' 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

12-20s-24w Ness co.

PO Box 542
Ness City, KS 67560

Petersilie #5

Job Ticket: 57329

DST#: 1

ATTN: Kurt Talbott

Test Start: 2014.06.02 @ 07:45:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 56.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.59 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 3000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
180.00	GOWCM 35g 10o 10w 45m	2.525
145.00	GWCM (Oil Spots) 10g 5w 85m	2.034
0.00	600' GIP	0.000

Total Length: 325.00 ft

Total Volume: 4.559 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

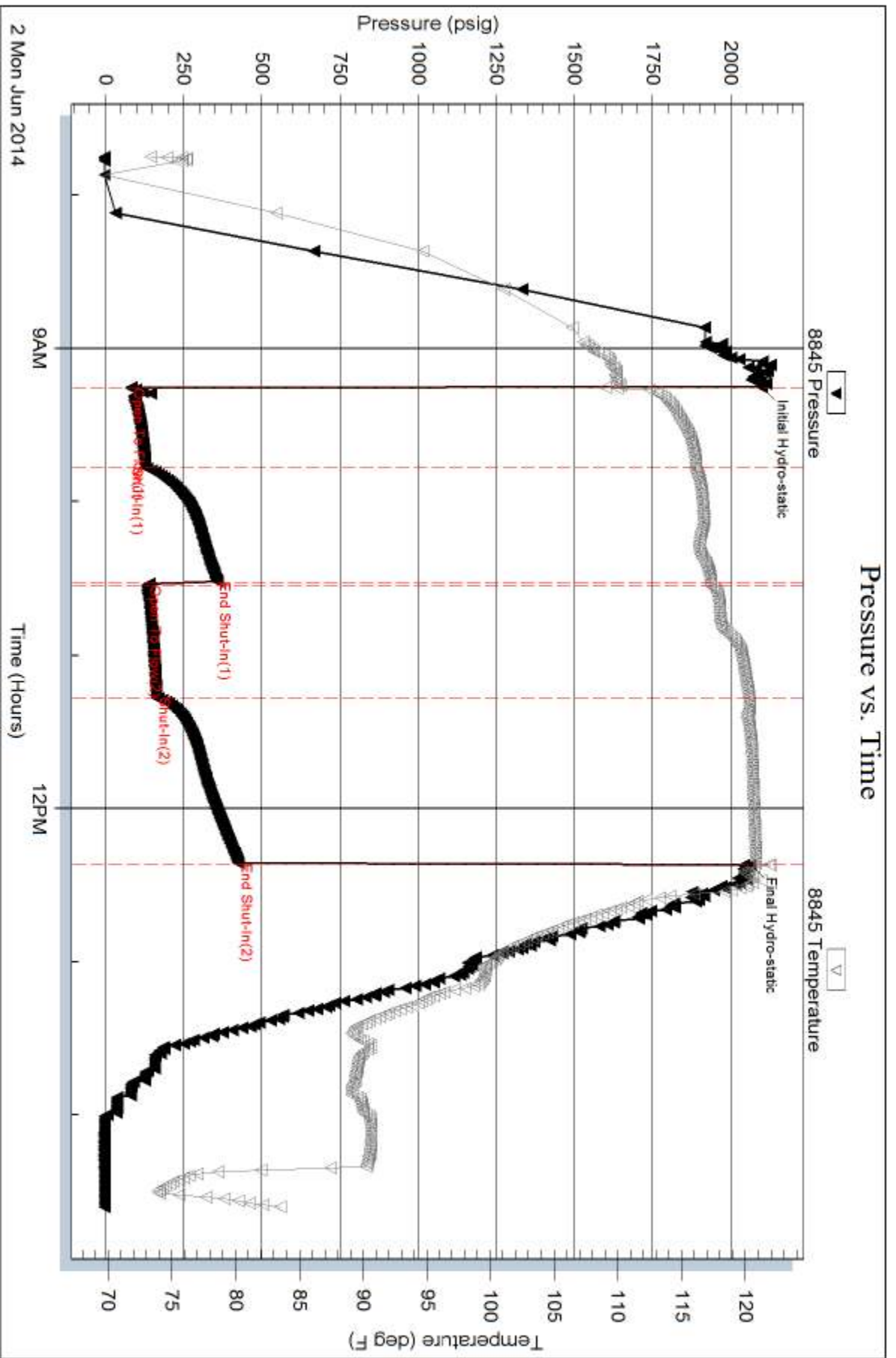
Serial #: 8845

Inside

Robert F. Hentree

Peterfile #5

DST Test Number: 1





TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Robert F. Hembree
 PO Box 542
 Ness City, KS 67560
 ATTN: Kurt Talbott

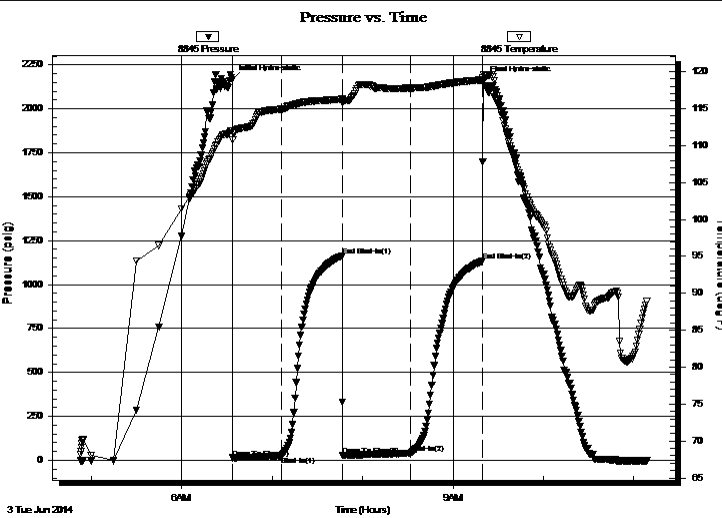
12-20s-24w Ness co.
Petersilie #5
 Job Ticket: 57330 **DST#: 2**
 Test Start: 2014.06.03 @ 04:53:00

GENERAL INFORMATION:

Formation: **Miss**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 06:34:00
 Time Test Ended: 11:08:45
 Interval: **4366.00 ft (KB) To 4425.00 ft (KB) (TVD)**
 Total Depth: 4425.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Samuel Esparza
 Unit No: 71
 Reference Elevations: 2329.00 ft (KB)
 2322.00 ft (CF)
 KB to GR/CF: 7.00 ft

Serial #: 8845 Inside
 Press @ Run Depth: 40.55 psig @ 4367.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.06.03 End Date: 2014.06.03 Last Calib.: 2014.06.03
 Start Time: 04:53:05 End Time: 11:08:44 Time On Btm: 2014.06.03 @ 06:33:45
 Time Off Btm: 2014.06.03 @ 09:20:30

TEST COMMENT: IF: 2 1/2" Blow .
 IS: No Return.
 FF: 4" Blow .
 FS: No Return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2168.37	112.03	Initial Hydro-static
1	13.73	110.76	Open To Flow (1)
33	25.58	114.91	Shut-In(1)
73	1163.92	116.26	End Shut-In(1)
74	28.20	115.84	Open To Flow (2)
118	40.55	117.76	Shut-In(2)
166	1134.16	118.88	End Shut-In(2)
167	2160.63	119.60	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	OCM 20o 80m	0.84
15.00	Clean Oil 100o	0.21

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

12-20s-24w Ness co.

PO Box 542
Ness City, KS 67560

Petersilie #5

Job Ticket: 57330

DST#: 2

ATTN: Kurt Talbott

Test Start: 2014.06.03 @ 04:53:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

36 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 55.00 sec/qt

Cushion Volume:

bbf

Water Loss: 9.19 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 4000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
60.00	OCM 20o 80m	0.842
15.00	Clean Oil 100o	0.210

Total Length: 75.00 ft Total Volume: 1.052 bbf

Num Fluid Samples: 0

Num Gas Bombs: 0

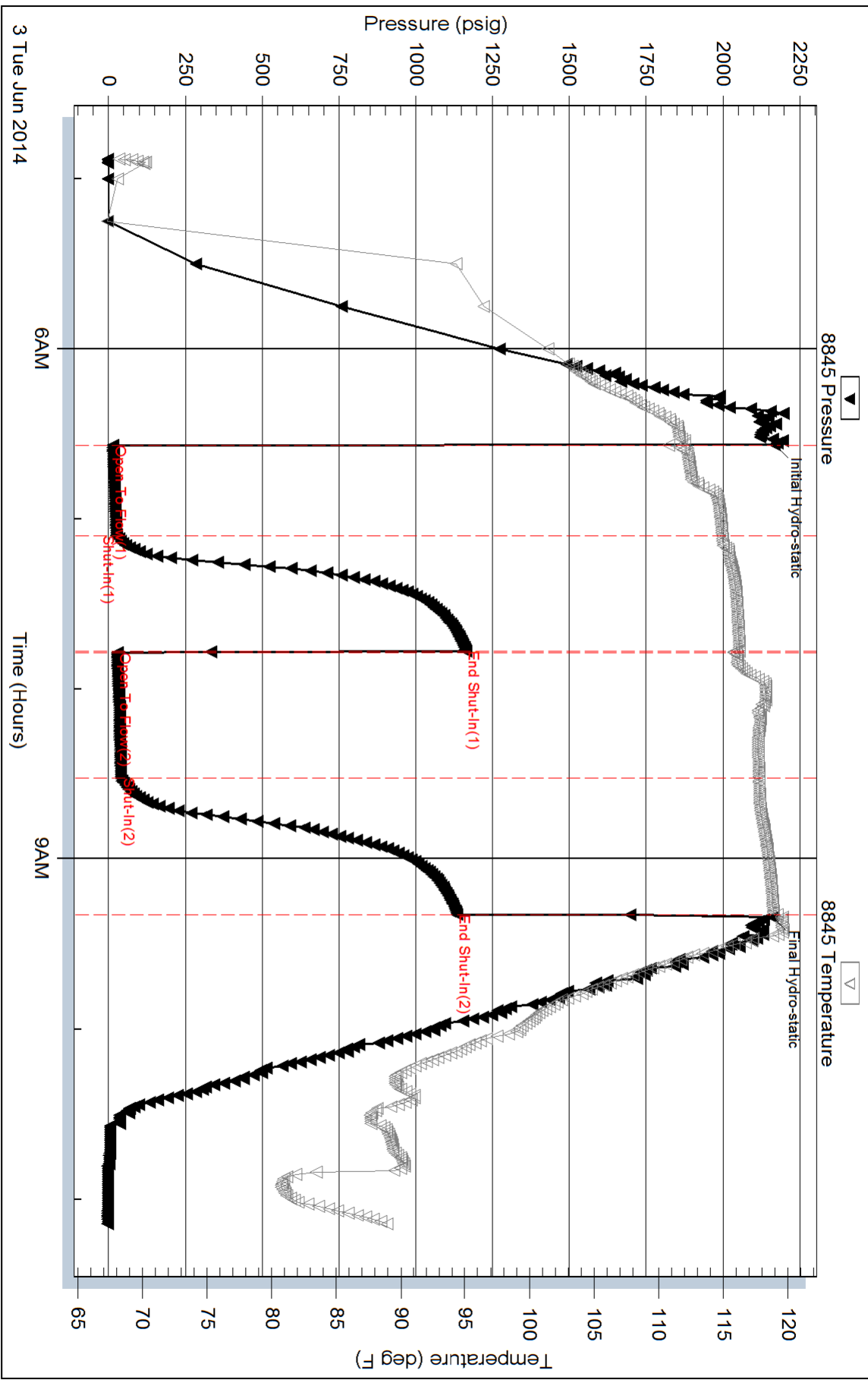
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Oil API: 38 @ 80 degrees= 36 deg API

Pressure vs. Time





Geologist's Report

Company: HembreeLease: Petersilie #4Field: Petersilie NortheastSurface Location: SE-NW-NW-NE (1890' FSL & 1852' FEL)Sec: 12 Twp: 20S Rge: 24WCounty: Ness State: KansasGL: 2322' KB: 2329'Contractor: Pickrell Rig #10Spud: 5/28/14 Comp: 6/03/14RTD: 4455' LTD: 4455'Mud Up: +/- 3400' Mud Type: Chemical DisplacedDrilling Time Kept From: 3600' to RTDSamples Saved From: 3600' to RTDSamples Examined: 3600' to RTDGeological Supervision: 3950' to RTDGeologist on Well: Kurt Talbott and Jim MusgroveSurface Casing: 8 5/8"@ 220'Production Casing: 5 1/2" @Wireline Logs: By Pioneer: CNL/CDL, DIL, MEL

Well Comparison

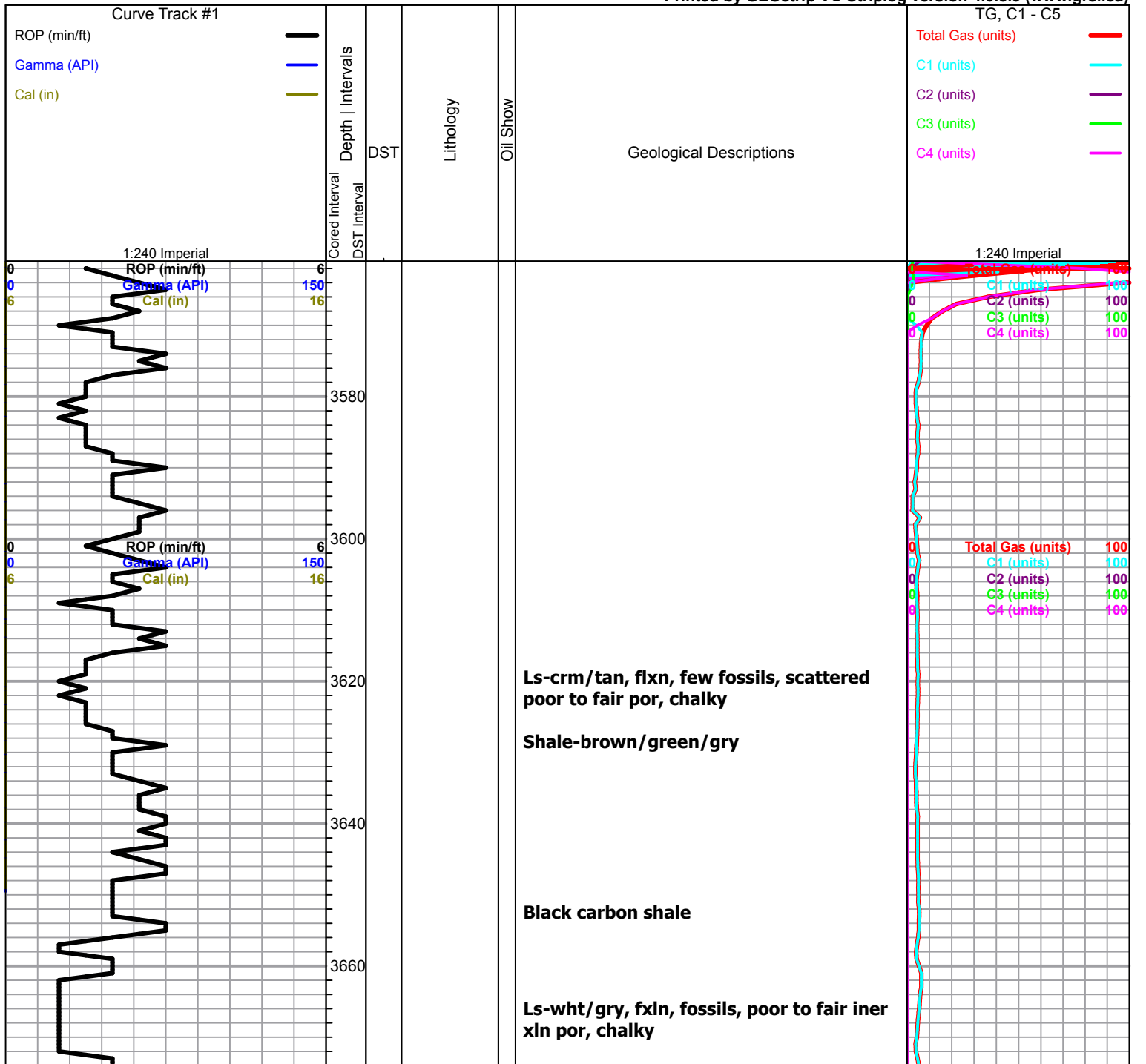
FORMATION	PETERSILIE #5 2329 KB			PETERSILIE #6 2330 KB		PETERSILIE #3 2330 KB	
	MD	Log	Log SS	Log	SS	MD	SS
ANHYDRITE							
BASE ANHY		1614	715				
HEEBNER	3755	3756	-1427	3750	-1422	3752	-1422
TORONTO	3778	3775	-1446	3778	-1447	3769	-1439
LANSING	3806	3804	-1465	3799	-1473	3799	-1469
BASE KC	4123	4120	-1791	4121	-1798	4118	-1788
MARMATON	4162	4162	-1833	4157	-1832	4155	-1825

ALTAMONT	4186	4187	-1858	4185	-1861	4186	-1856
PAWNEE	4238	4237	-1908	4234	-1910	4230	-1900
FORT SCOTT	4310	4311	-1982	4309	-1982	4306	-1976
CHEROKEE	4337	4335	-2006	4333	-2008	4327	-1997
MISSISSIPPIAN	4412	4411	-2082	4422	NA	4414	-2084
TOTAL DEPTH	4455	4455	-2126	4484	-2120	4422	-2092

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

OTHER SYMBOLS		
EVENTS	INTERVALS	DST
⌋ Casing Shoe	■ Core	■ DST Int
▽ RTF	⋅ DST	■ DST alt
▶ Sidewall		
▲ Left Casing Shoe		
▼ Right Casing Shoe		

Printed by GEOstrip VC Striplog version 4.0.8.9 (www.grsi.ca)



3680
3700
3720
3740
3760
3780
3800
3820
3840
3860
3880

A/A

Ls-tan/crm, fxln, slightly sucrosic,
scattered ppt to iner xln por, chalky
Chert-gry/tan

Ls-crm/tan, fine to med xln, few fossils,
poor to fair iner xln por, chert- A/A

Heebner 3755.0 (-1426.0) -1425.0

Black carbon shale

Toronto 3778.0 (-1452.0) -1448.0

Ls-wht/ lt gry, fxln, ool in part, poor vis
por, slightly chalky

Lansing 3806.0 (-1477.0) -1475.0

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

Ls-wht/crm fxln, few fossils/ool, poor
scattered ppt por, chalky

Ls-wht/crm/lt gry, fxln, ool/fossils, poor
vis por, chert-boney wht. chalky
trace blk carbon shale

Ls-wht/crm, flxn, dense, poor scattered
por, chalky, chert-boney wht/crm

ROP (min/ft)
Gamma (API)
Cal (in)

6
150
16

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

3900
3920
3940
3960
3980
4000
4020
4040
4060
4080
4100

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

Ls-wht/crm, fxln, ool, scattered iner ool, to sub oom por, cahky, chert-boney wht

Ls- A/A

Ls-wht/crm, fxln, ool, poor scattered por, chalky, chert-boney wht,

Lswht/lt gry, fxln, ool, poor scattered por, cahky, chert- A/A,

Ls-crm/tan, fxln, highly oom poor vis por,

Ls-crm/tan, fxln, 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

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

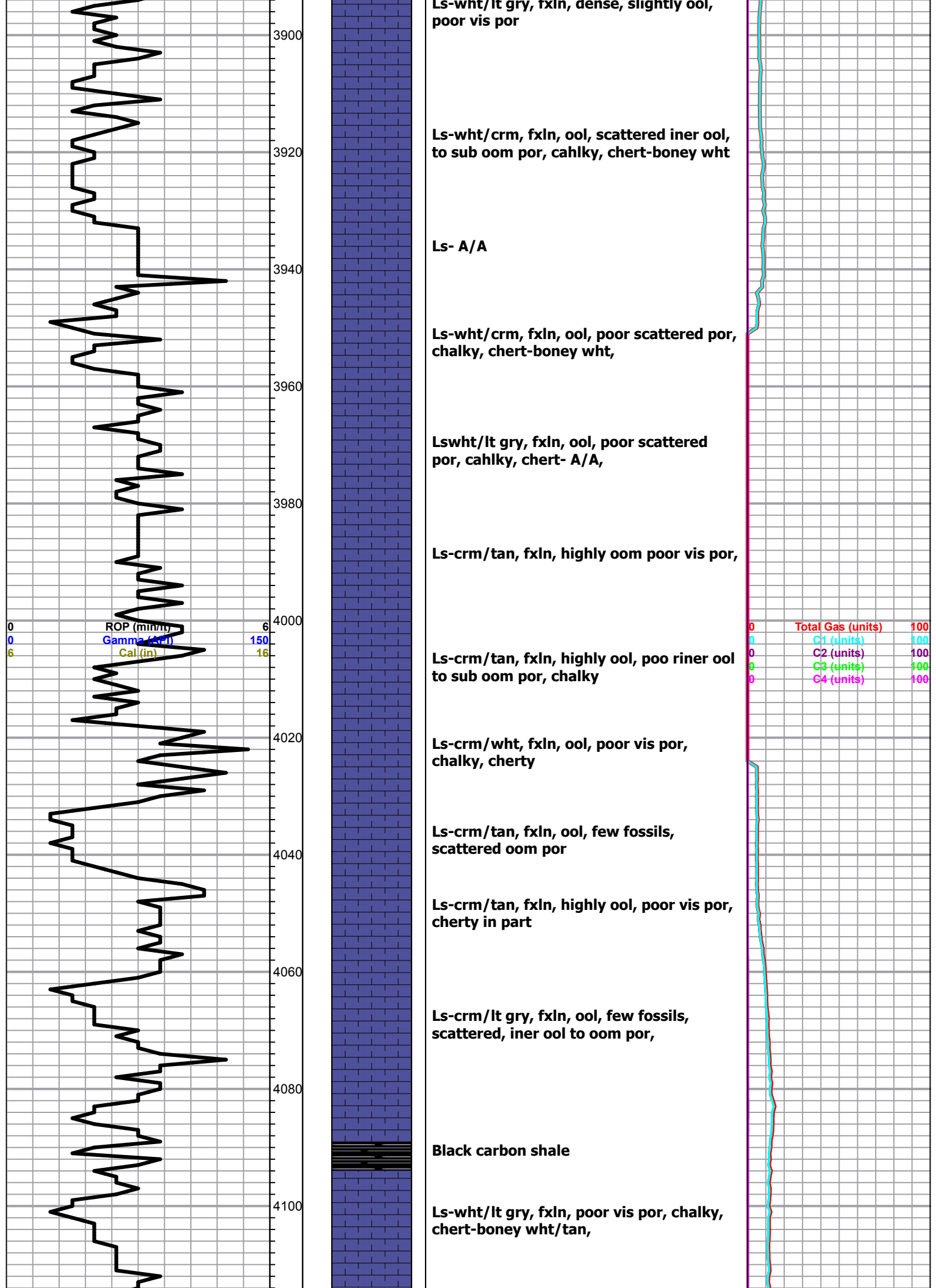
Ls-crm/lt gry, fxln, ool, few fossils, scattered, iner ool to oom por,

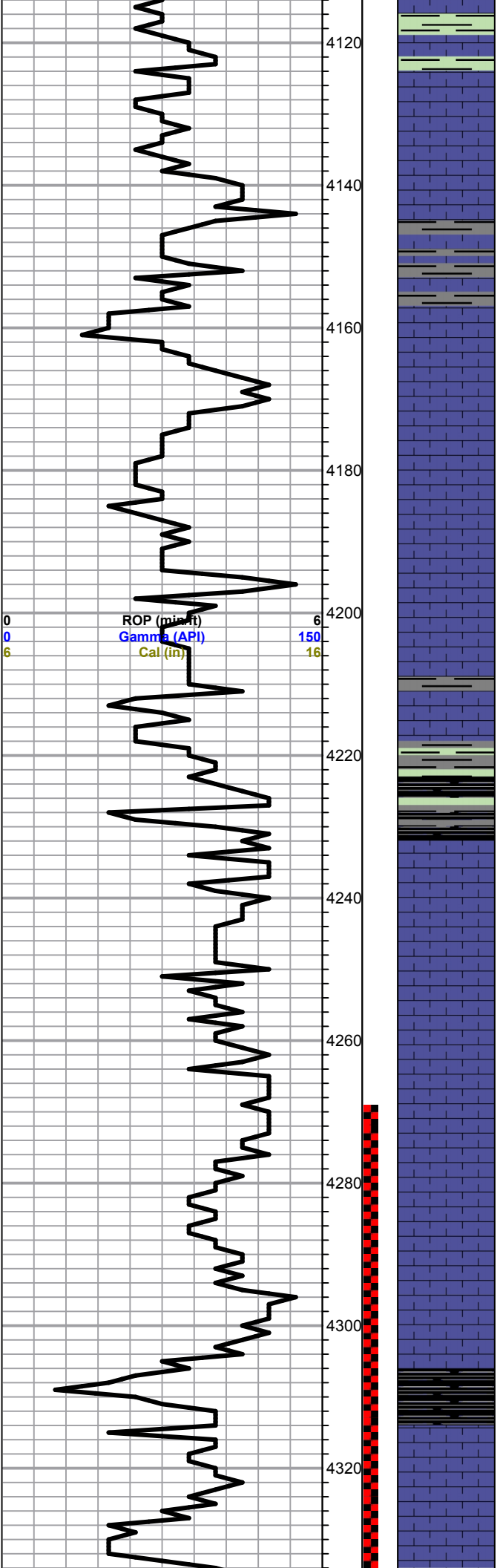
Black carbon shale

Ls-wht/lt gry, fxln, poor vis por, chalky, chert-boney wht/tan,

ROP (min/hr) 6
Gamma (API) 150
Cal (in) 16

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





Shale-gry/brown

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

Shale-gry/maroon/brwn

Ls-wht/crm, fxlN, few fossils, scattered poor iner xln por, chalky,

Ls-A/A

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

Shale-gry/grn abundant

Ls- wht/lt gry, A/A shale-dark gry

Ls-wht/lt gry, fxlN, ool, cherty-gry/tan

Ls-gry/tan, fxlN, dense, poor vsi por, cherty in part

Ls-gry/tan, fxlN, ool/ few fossils, poor vis por

A/A Cherty in part, dense,

Black carbon shale

Fort Scott 4310.0 (-1981.0) - 1983.0

Ls-wht/crm, fxlN, ool, fair to good iner xln to finely vug por, lt brown to golden brown stains, SFO, fair odor

Cherokee 4337.0 (-2008.0) -2007.0

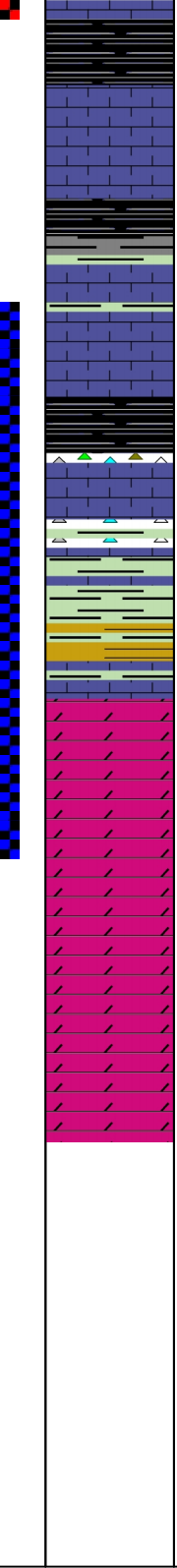
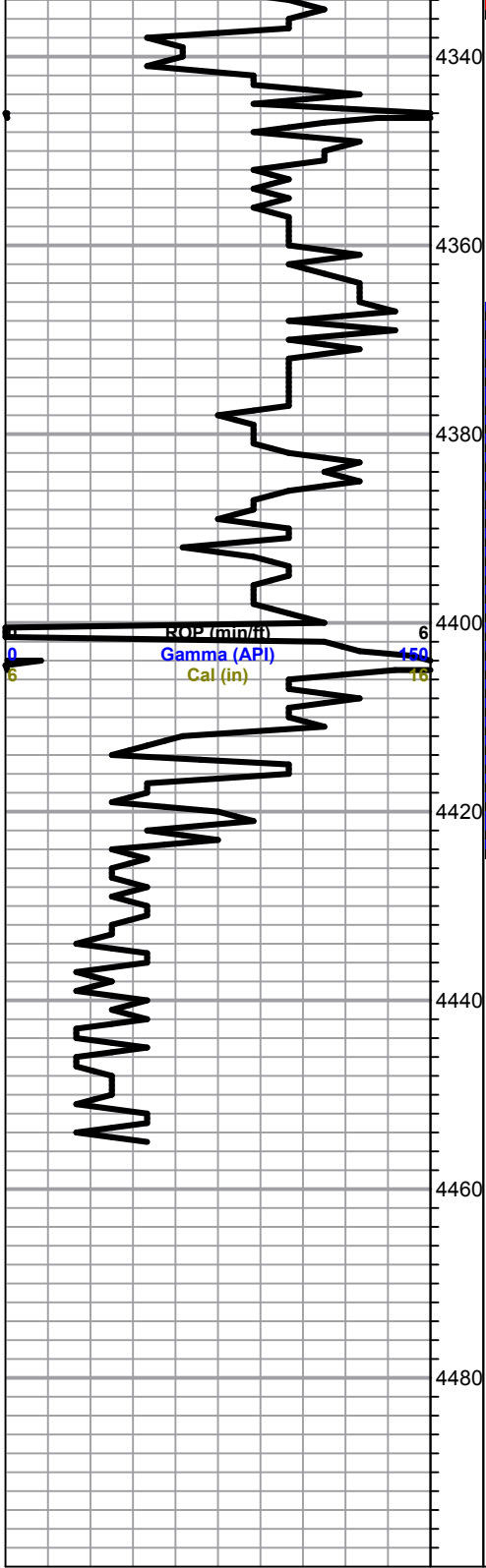
0	Total Gas (units)	100
0	C1 (units)	100
0	C2 (units)	100
0	C3 (units)	100
0	C4 (units)	100

DST #1 4270-4335
30-45-45-60

IF: BOB 1 min
FF: BOB 3 min

Recovery:
600' Gas In Pipe
145' GCWM
(10g 5w 85m)
180' SOGCWM
(35g 10o 10w 45m)

Pressures:
ISIP 357 psi
FSIP 425 psi
IFP 82-128 psi
FFP 134-163
HSH 2097-2063 psi



Black carbon shale

Ls-tan, fxln, ool, slightly cherty, dense

Trace gry/green and black carbon shale

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

Black carbon shale, and Trace FeS2

Ls-tan, fxln, few slightly dolomitic, dense,

Chert- amber/tan/boney and opaque

Shale-red/green

Mississippian 4412.0 (-2083.0) - 2083.0

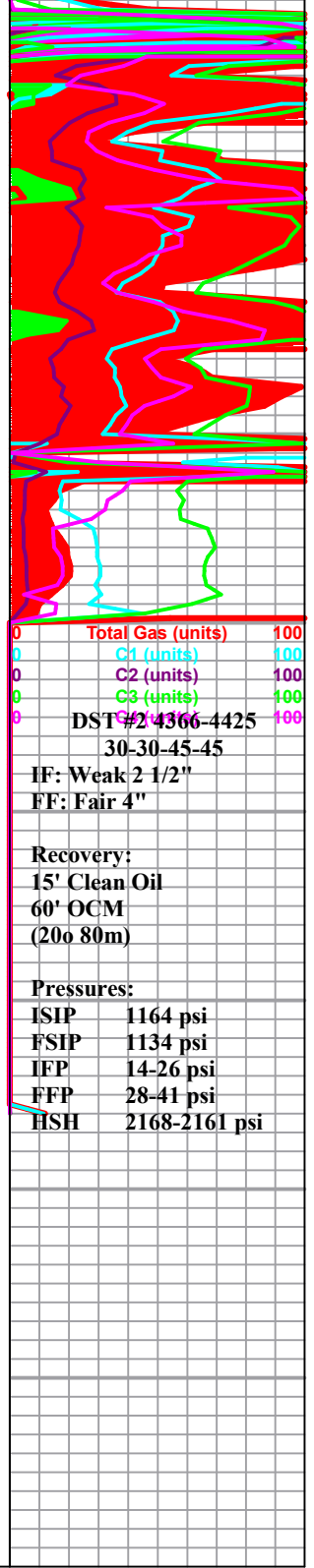
Dol-crm/tan, fln, sucrosic, fossils, scattered vuggy por, brown stains/saturation, SFO, faint odor

A/A good vuggy to fossil cast por, SFO, good odor

Dol-A/A fair to good por, brow stains/saturation, good SFO, good odor

Dol-gry/wht, fxln, sucrsic, fine vugular por, with few good vuggy por, light brown stains, SFO, faint odor

Total Depth 4455.0 (-2126.0) - 2126.0



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

DST #2 4366-4425

30-30-45-45
IF: Weak 2 1/2"
FF: Fair 4"

Recovery:
15' Clean Oil
60' OCM
(20o 80m)

Pressures:	
ISIP	1164 psi
FSIP	1134 psi
IFP	14-26 psi
FFP	28-41 psi
HSH	2168-2161 psi

PICKRELL DRILLING COMPANY, INC.

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

#5 Petersilie
NW SE NW SE
Section 12-20S-24W
Ness County, Kansas
Operator: Robert F. Hembree

Projected RTD: 4490'

API#: 15-135-25766-00-00
1890' From South Line of Section
1852' From East Line of Section
ELEV: 2329'KB, 2327'DF, 2322'GL
Contractor: Pickrell Drilling Co. Inc. Rig #10

- 5-28-14: MI & RURT. Probable Spud.
- 5-29-14: (On 5-28) MI & RURT. Spud @ 5:15 PM. Drl'd 12 1/4" surface hole to 220'. SHT @ 220' = 1/4°. Ran 5 jts. of New 8 5/8" 20# surface casing set @ 218'KB, (tally was 208'), cmt w/150sx Class A, 2% gel, 3% CC. PD @ 11:00 PM on 5-28-14. CDC. Allied ticket #62972. WOC 8 hrs. (On 5-29) TIH to drill plug.
- 5-30-14: Drlg. ahead @ 2275'. SHT @ 748' = 1/2°, at 1342' = 3/4°, at 1842' = 1/2°, 2217' = 1/4°.
- 6-02-14: (On 5-31) Drlg. ahead @ 3468'. SHT @ 3571' = 1 1/4°. Made BT @ 3571'. (On 6-1) Drlg. ahead @ 4020'. (On 6-2) Prep to take DST #1 @ 4335'. DST #1: 4270-4335'.
- 6-03-14: Testing @ 4425'. DST #2: 4366' - 4425'.
- 6-04-14: RTD 4455'. SHT @ 4455' = 1/4°. Ran E-Logs. LTD 4455'. Ran 105 jts. of New 5 1/2" 15.50# prod. csg set @ 4451', port collar @ 1598'. Cmt w/175sx EA-2 w/1/4#FC/sx, 30sx in RH of same. Cmt job completed @ 10:00 AM on 6/4/14. Swift Ticket #26334. Released Rig. **Final Report.**

SAMPLE TOPS

T/Anhydrite 1571 (+ 758)
B/Anhydrite 1616 (+ 713)