

Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

Form ACO-1

January 2018

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

Gas DH EOR

OG GSW

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 EOR Conv. to SWD

Plug Back Liner Conv. to GSW Conv. to Producer

Commingled Permit #: _____

Dual Completion Permit #: _____

SWD Permit #: _____

EOR Permit #: _____

GSW Permit #: _____

Spud Date or Date Reached TD Completion Date or Recompletion Date

API No.: _____

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 Drill Stem Tests Received

Geologist Report / Mud Logs Received

UIC Distribution

ALT I II III Approved by: _____ Date: _____

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 Geologist Report / Mud Logs <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
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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				

1. Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*
2. Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*
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)*

Date of first Production/Injection or Resumed Production/Injection:	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) (Submit ACO-4)</i>	PRODUCTION INTERVAL: Top Bottom
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Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record <i>(Amount and Kind of Material Used)</i>

TUBING RECORD:	Size:	Set At:	Packer At:	
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Form	ACO1 - Well Completion
Operator	RF Hembree Oil, LLC
Well Name	SCHWARTZKOPF 3
Doc ID	1409069

Tops

Name	Top	Datum
Anhydrite	1550	+747
B. Anhydrite	1588	+709
Heebner	3677	-1380
Toronto	3700	-1403
Lansing	3716	-1419
BKC	4013	-1716
Marmaton	4051	-1754
Pawnee	4132	-1835
Ft. Scott	4208	-1911
Cherokee	4238	-1941
Mississippi	4306	-2009
RTD	4327	-2030



CHARGE TO: RF Hermsbee, DT
 ADDRESS _____
 CITY, STATE, ZIP CODE _____

TICKET 031264
 PAGE 1 OF 1

1. SERVICE LOCATION <u>NB City DS</u>	WELL/PROJECT NO. <u>3</u>	LEASE <u>Schwartzkopf</u>	COUNTY/PARISH <u>Neos</u>	STATE <u>KS</u>	CITY <u>Deer City</u>	DATE <u>27 MAR 18</u>	OWNER
2. TICKET TYPE <input type="checkbox"/> SERVICE <input type="checkbox"/> SALES	CONTRACTOR	RIG NAME/NO. <u>Neos</u>	SHIPPED <input checked="" type="checkbox"/> CT	DELIVERED TO <u>location</u>	WELL PERMIT NO.	ORDER NO.	
3. WELL TYPE <u>0.1</u>	WELL CATEGORY <u>Development</u>	JOB PURPOSE <u>Constr surface pipe</u>	WELL LOCATION <u>35-18-24</u>				
4. REFERRAL LOCATION INVOICE INSTRUCTIONS							

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	MILEAGE	QTY.			UNIT PRICE	AMOUNT
		LOC	ACCT	DF			UM	UM	UM		
575					TPX 114	10 mi				57.00	570.00
576 S					Pump Charge - shallow surface	1 ea			875 in	875.00	875.00
325					Standard cement	150 sk			3	13.00	1950.00
279					Bentonite gel	300 lb			3	30.00	90.00
278					Calcium Chloride	1 gal			7	40.00	280.00
290					D-are	1 gal				42.00	42.00
581					Service Charge	150 sk				1.75	262.50
582					Drayage (min)	1 ea				250.00	250.00

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.
 X

DATE SIGNED _____ TIME SIGNED _____
 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?
 YES NO

PAGE TOTAL 3799.50
TOTAL 2953.03

CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES The customer hereby acknowledges receipt of the materials and services listed on this ticket.

SWIFT OPERATOR _____ APPROVAL APR 11 2018

Thank You!

JOB LOG

SWIFT Services, Inc.

DATE 27 MAR 18 PAGE NO. 1

CUSTOMER RF Humber Oil WELL NO. #3 LEASE Schwartzkopf JOB TYPE Cement Surface Pipe TICKET NO. 31264

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
								150 sk Standard cement w/ 2% gel 3% CC 8 7/8" casing TD = 222'
	1540							on loc TRK 114
	1540							on loc TRK 11 CIRC joints in the hole - Circulate well
	1600							
	1610	4	35			200		Mix STD 20% 30% @ 147 PPG 150 sk
	1620	4				200		Displace → cement to surface ←
	1630 1630	4	13			200		Kickout shut in 8 7/8" {20 sk to P/L}
								wash truck
								Break up
	1710							job complete 4 hours Blaine, Flint & squitch



CHARGE TO: R.F. Hemlock O-1
 ADDRESS _____
 CITY, STATE, ZIP CODE _____

PAGE 1 OF 2

TICKET 031426

1. SERVICE LOCATIONS <u>Jess City KS</u>	WELL/PROJECT NO. <u>#3</u>	LEASE <u>Schwartzkopf</u>	COUNTY/PARISH <u>Jess</u>	STATE <u>KS</u>	CITY <u>Jess City</u>	DATE <u>4-3-18</u>	OWNER <u>Stame</u>
2. TICKET TYPE <input checked="" type="checkbox"/> SERVICE <input type="checkbox"/> SALES	CONTRACTOR <u>Petrol Drilling</u>	RIG NAME/NO. <u>#10</u>	SHIPPED VIA <u>Location</u>	WELL PERMIT NO.	WELL LOCATION <u>Jess City - 2 1/2 Miles East</u>	ORDER NO.	
3. WELL TYPE <u>Oil</u>	WELL CATEGORY <u>Development</u>	JOB PURPOSE <u>Cement 5 1/2" Longstring</u>					
4. REFERRAL LOCATION	INVOICE INSTRUCTIONS						

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.			UNIT PRICE	AMOUNT	
		LOC	ACCT	DF		UM	UM	UM			
575		1			MILEAGE				10 mi	57.00	570.00
578		1			Pump Charge - Longstring				1 job	1300.00	1300.00
402		1			Centralizer				9 ea	70.00	630.00
403		1			Cement Basket				1 ea	275.00	275.00
404		1			Post Celler				1 ea	2500.00	2500.00
405		1			Farmacia Packer Shave				1 ea	1350.00	1350.00
406		1			Label Down Plug + Bealt				1 ea	250.00	250.00

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MUST BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO START OF WORK OR DELIVERY OF GOODS.
 X R.F. Hemlock

DATE SIGNED 4-4-18 TIME SIGNED OK A.M. P.M.

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

SURVEY	AGREE	UNDECIDED	DISAGREE	PAGE TOTAL	TOTAL
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?	<input type="checkbox"/> YES	<input type="checkbox"/> NO			
	<input type="checkbox"/> CUSTOMER DID NOT WISH TO RESPOND				
				11	11699.94

CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES The customer hereby acknowledges receipt of the materials and services listed on this ticket.

SWIFT OPERATOR David Kuehn APPROVAL _____

Thank You!



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

TICKET CONTINUATION

TICKET No. A 31426

CUSTOMER R.T. Humber Co. 01

WELL Schwabke Kops #3

DATE 4-3-18

PAGE 2 OF 2

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			TIME	DESCRIPTION	QTY		UNIT		UNIT PRICE	AMOUNT
		LOC	ACCT.	DF			QTY	U/M	QTY	U/M		
325		1				Standard Cement (EA-2)	175	shs			13.00	2275.00
284		1				Calsol	8	shs			35.00	280.00
283		1				Salt	1019	lbs			00.20	180.00
285		1				CFR-1	100	lbs			4.50	450.00
276		1				Floresc	1/4	lb			2.50	125.00
290		1				D-Alic	2	gal			42.00	84.00
281		1				Mud Flush	500	gal			1.50	750.00
221		1				Liquid KCL	2	gal			25.00	50.00
582		1				Minimum Drayage Charge	1	lea			250.00	250.00
581		1				Service Charge	1	lea			1.75	306.25
MILEAGE CHARGE												
TOTAL WEIGHT												
LOADED MILES												
CUBIC FEET												
TON MILES												
CONTINUATION TOTAL												4750.25

JOB LOG

SWIFT Services, Inc.

DATE 4-3-18 PAGE NO. 1

CUSTOMER R.F. Hambree Oil WELL NO. #3 LEASE Schwartzkopf JOB TYPE 5 1/2" Longstring TICKET NO. #31426

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1730							On location 5 1/2" 15.5"
								RTD - 4327' TP - 4329' SJ - #141.64' P.S. - 4321' (6' off) P.C. - #69 1577' out #25 Cent - #1 #3 #5 #7 #9 #11 #13 #68 #70 Basket - #69
	1930							Start 5 1/2" 15.5" casing in well
	2230							circulate
	2340	∅	∅			1500		set Packer Shoes
	2345	6 1/2	12			300		Pump 500 gal Mud flush
		6 1/2	20			300		Pump 20 bbl KCl flush
			7					Plug RH 30
4-4-18	0000	4 1/2	35			200		mix 145 sks EA-2 @ 15.5 ppg
								wash out Pump + Lines Release Latch Down Plug
	0015	6 1/2	∅			100		Start Displacement
		6 1/2	80			300		Lift Pressure
		6 1/2	100			800		Max lift Pressure
	0030	6 1/2	101.9			1700		Land latch Down Plug
								Release Pressure * Plug Hold *
								wash up trucks
	0100							Job Complete

Thank You
Dave Preston Kirby



Services, Inc.

CHARGE TO: RF Flewblue
 ADDRESS
 CITY, STATE, ZIP CODE

TICKET 031377

SERVICE LOCATIONS: <u>Run by KS</u>	WELL/PROJECT NO. # <u>3</u>	LEASE <u>Swartzkopf</u>	COUNTY/PARISH <u>Law</u>	STATE <u>KS</u>	CITY <u>Ness City</u>	DATE <u>12 APR 18</u>	OWNER
TICKET TYPE <input type="checkbox"/> SERVICE <input type="checkbox"/> SALES	CONTRACTOR	RIG NAME/NO.	SHIPPED <u>WRT</u>	DELIVERED TO <u>Location</u>	ORDER NO.	WELL LOCATION	
WELL TYPE <u>Drill</u>	WELL CATEGORY <u>Development</u>	JOB PURPOSE <u>concrete post collar</u>	WELL PERMIT NO.				
REFERRAL LOCATION	INVOICE INSTRUCTIONS						

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING LOC ACCT DF	DESCRIPTION	QTY. / U/M			UNIT PRICE	AMOUNT
				QTY.	U/M	QTY.		
<u>675</u>			MILEAGE <u>TRK - 114</u>	<u>10</u>	<u>mi</u>		<u>5.00</u>	<u>500.00</u>
<u>576D</u>			<u>Pump Charge TRIT CLEAR</u>	<u>1</u>	<u>ea</u>		<u>1300.00</u>	<u>1300.00</u>
<u>336</u>			<u>SMB cement</u>	<u>160</u>	<u>sk</u>		<u>16.25</u>	<u>2600.00</u>
<u>276</u>			<u>Flare</u>	<u>40</u>	<u>lb</u>		<u>2.50</u>	<u>1000.00</u>
<u>290</u>			<u>D-ARR</u>	<u>1</u>	<u>gal</u>		<u>48.00</u>	<u>48.00</u>
<u>104</u>			<u>Part Collar Tool opening Rental</u>	<u>5</u>	<u>in</u>		<u>200.00</u>	<u>260.00</u>
<u>581</u>			<u>Service charge</u>	<u>200</u>	<u>sk</u>		<u>1.75</u>	<u>350.00</u>
583			<u>Drayage (min)</u>	<u>1</u>	<u>ea</u>		<u>250.00</u>	<u>250.00</u>

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

Weld operator

DATE SIGNED: _____ TIME SIGNED: 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	UNDECIDED	DISAGREE
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?
 YES NO

CUSTOMER DID NOT WISH TO RESPOND

PAGE TOTAL 4992.00

TOTAL 5083.03

NETS 191.93
 TAX 65.10

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 12 PAGE NO. 1

CUSTOMER RF Heubner WELL NO. #3 LEASE Schwartzkopf JOB TYPE cement port collar TICKET NO. 31377

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
								200SE SMD w/ 1/4" Flocele 2 3/8 x 5 1/2 port collar = 1575'
	1000							on loc TRK 114
	1010					1000	1000	test to 1000psi - held open port collar
	1017	3	3			350		inj rate 3 bpm @ 300psi
	1020	3				350		Mix SMD cement @ 112ppg
		3	3			350		- circ fluid top it -
		3	86			150		→ cement to surface ←
								Displace 5 bbl H ₂ O
								close port collar
	1055					1000	1000	test to 1000psi - held Run 4 joints
								circulate hole clean - 2 cement f logs -
								wash truck pull tool
								Back up
								job complete
	1130							Trucks Blaine Flat & return

PICKRELL DRILLING CO., INC.

Wichita, KS
(316) 262-8427

Schwartzkopf #3
Sec. 35-18S-24W
Ness County, Kansas

API: 15-135-25995-00-00
1160' From North Line of Section
735' From West Line of Section
ELEV: 2297'KB 2290'GL

Operator: RF Hembree Oil, LLC

Project TD: 4360'

Contractor: Pickrell Drlg Co. Rig#10

3-26-18: MIRT. RURT.

3-27-18: Drilling rathole @ 8:00 AM. Spud well @ 8:45 AM. Drilled 12 1/4" surface hole to 221'. SHT @ 221' = 1/4".
Ran 5jts of new 8 5/8" 23# surface casing (tally 210'), set @ 216'. Cement w/150sx Common, 2%gel 3%CC.
PD @ 4:30 PM 3/27/18. Cement circulated. Swift ticket #31264.

3-28-18: Drilling @ 450'.

3-29-18: Drilling @ 2010'. SHT @ 734' = 1/2°, @ 1296' = 1/2°, @ 1796' = 1/2°. Anhydrite 1550'.

3-30-18: Drilling @ 2840'. SHT @ 2296' = 1/2°, @ 2827' = 1/2°.

4-02-18: (On 3/31) Drilling @ 3540'. SHT @ 2827' = 1/2°. (On 4/01) Drilling @ 4080'. (On 4/2) TD 4242'.
On bottom w/DST. SHT @ 4242' = 1/2°.

4-03-18: TD 4327'. TOO H w/DST #2: 4258-4327'.

4-04-18: RTD 4327'. Ran 107jts of used 5 1/2" 15.5# production casing (tally 4327'), set @ 4321'. Port Collar @ 1577'.
Cement w/145sx of EA-2, 30sx in RH. PD @ 12:30 AM 4/4/18. Swift ticket #31426. Released Rig.
Final Report.



Mudgrove

Petroleum Geology
212 Main Street, Claflin KS

GEOLOGIST'S REPORT

DRILLING TIME AND SAMPLE LOG

COMPANY RF Hembree Oil
 LEASE Schwartzkopf #3
 FIELD McDonald Northeast
 LOCATION SW-SE-NW-NW (1160' FNL & 735' FWL)
 SEC 35 TWSP 18S RGE 24W
 COUNTY Ness STATE Kansas

ELEVATIONS

KB 2297'
 DF _____
 GL 2290'
 Measurements Are All
 From KB

CONTRACTOR Pickrell Drilling (Rig # 10)
 SPUD 03/27/2018 COMP 04/03/2018
 RTD 4327' LTD None
 MUD UP 3480' TYPE MUD Chemical

CASING
 SURFACE 8 5/8"@ 216'
 PRODUCTION 5 1/2"@ 4321'

ELECTRICAL SURVEYS

None

SAMPLES SAVED FROM 3600' TO RTD
 DRILLING TIME KEPT FROM 3550' TO RTD
 SAMPLES EXAMINED FROM 3600' TO RTD
 GEOLOGICAL SUPERVISION FROM 3640' TO RTD
 GEOLOGIST ON WELL Wyatt Urban

FORMATION TOPS	— LOG —		SAMPLES
Anhydrite	1550	(+747)	Miss. 4306 (-2009)
B. Anhydrite	1588	(+709)	RTD 4327 (-2030)
Heebner	3677	(-1380)	
Toronto	3700	(-1403)	
Lansing	3716	(-1419)	
BKC	4013	(-1716)	

X			
	35		

Marmaton	4051	(-1754)		
Pawnee	4132	(-1835)		
Ft. Scott	4208	(-1911)		
Cherokee	4238	(-1941)		

LEGEND

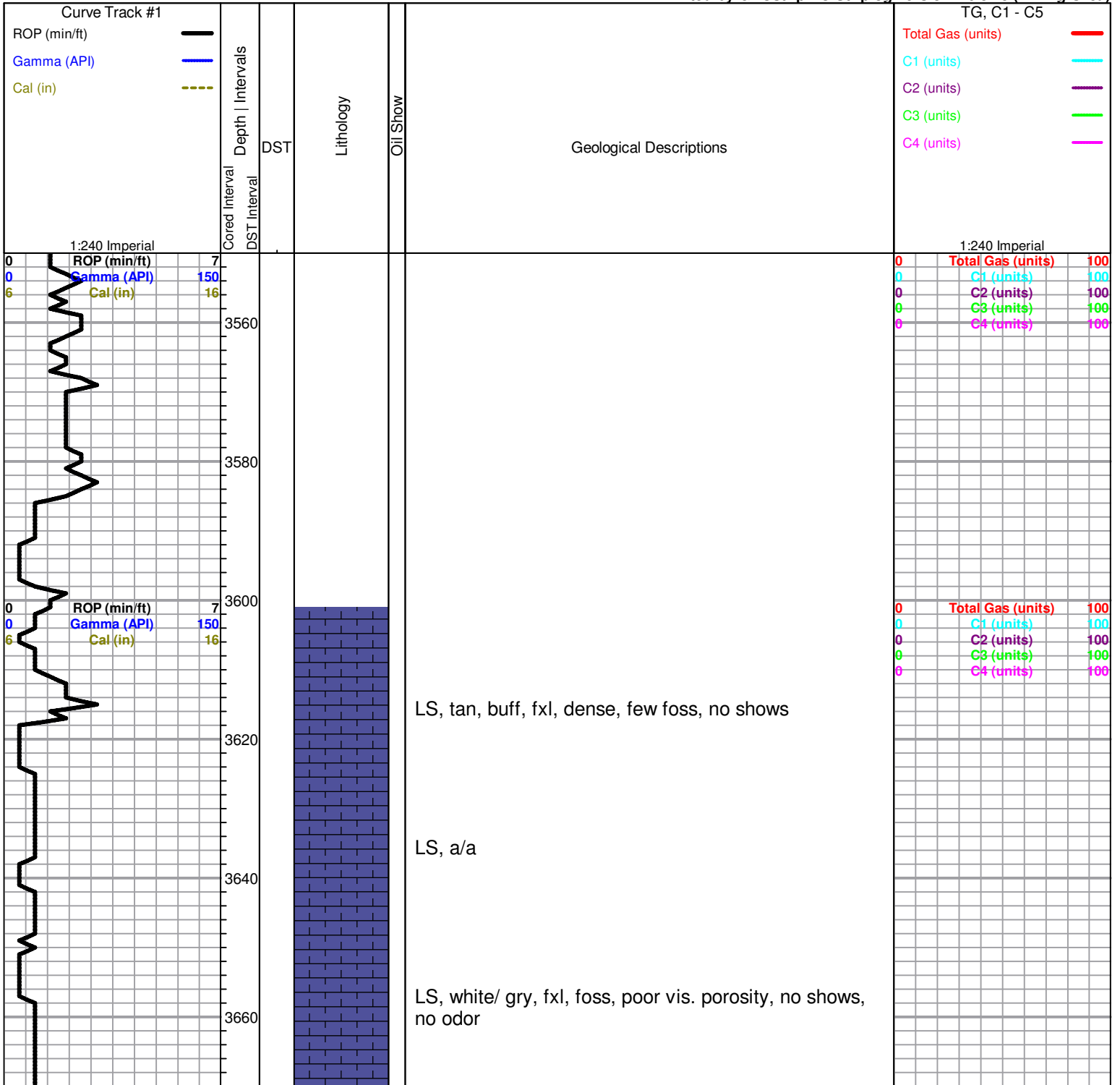
Oil Show

- Good Show
- Fair Show
- Poor Show
- Spotted or Trace
- Questionable Stn
- Dead Oil Stn
- Fluorescence
- * Gas

DST

- DST Int
- DST alt
- Core
- tail pipe

Printed by GEOstrip VC Striplog version 4.0.8.15 (www.grsi.ca)



3680
3700
3720
3740
3760
3780
3800
3820
3840
3860
3880

Heebner 3677.0 (-1380.0)

Sh, black carb

LS, cream, tan, poor vis. porosity, few foss, no shows

Toronto 3700.0 (-1403.0)

LS, tan, buff, few foss, cherty, dense, poor vis. porosity, no shows

Sh, gry, greenish,

Lansing 3716.0 (-1419.0)

LS, tan, buff, fxl, few foss, scattered p.p. type porosity, no shows, sl. chalky

LS, tan, buff, dense, poor vis. porosity, no shows, no odor

LS, tan, buff, poor vis. porosity, chalky, no shows

LS, tan, buff, foss, sl. chalky, poor vis. porosity, scattered p.p. type porosity, no shows, no odor

Slug sh., maroon, green, blk/dk gry shale

LS, tan, brn, foss, ool, scattered vuggy type porosity, chalky, no shows

LS, white, cream, oom, good vuggy type porosity, sl. chalky, no shows

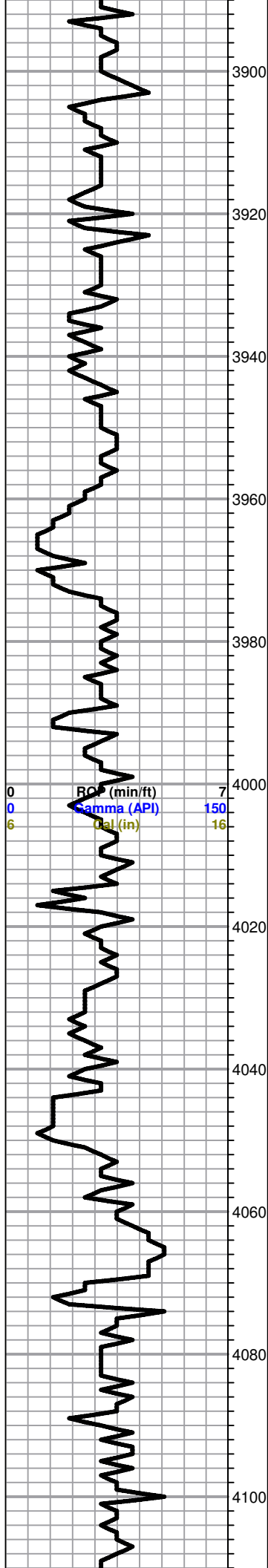
LS, tan, brn, fxl, foss, dense, cherty, no shows

LS, a/a, dense, poor vis. porosity

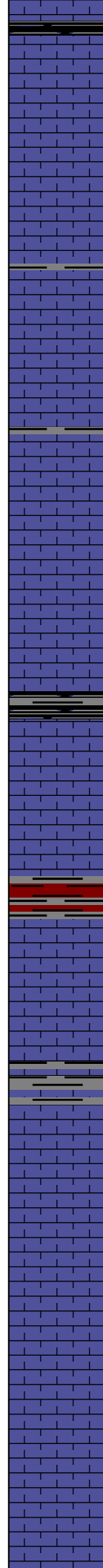
0 7
0 150
6 16

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

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



0 RO (min/ft) 7
 0 Gamma (API) 150
 6 Cal (in) 16



Sh black carb

LS, cream, white, chalky, poor vis. porosity, tr. brn stain (sh stain??), no sfo, no odor, abd. white, opaque cherts

LS, a/a, gry dense, poor vis. porosity, no shows

LS, white, cream, foss/ool, poor dev. porosity, v. chalky, no shows

LS, cream, tan, fxl, few foss, v. dense, poor vis. porosity, no shows

Slug blk carb shale

LS, white, cream, fxl, poor vis. porosity, chalky, no shows

BKC 4013.0 (-1716.0)

Sh, maroon, blk, gry, waxey, few silty

LS, tan, white, dense, tr. white, opaque cherts, no shows, no odor

Marmaton 4051.0 (-1754.0)

LS, cream, tan, buff, foss, poor vis. porosity, v. chalky, tr. spty brn/blk stain, tr. spty sfo, no odor, tr. pyrite

LS, tan, buff, scattered vis. porosity, chalky, no shows, no odor

LS, gry, cream, fxl, few foss, poor scattered vis. porosity, no shows, no odor

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

4120
4140
4160
4180
4200
4220
4240
4260
4280
4300
4320

0
0
6
ROF (min/ft)
Gamma (API)
Cal (in)

D
S
T

1

D
S
T

2

LS, gry, white, cream, fxl, dense, gran. in pts, poor vis. porosity, no shows

Pawnee 4132.0 (-1835.0)

LS, tan, cream, gry, gran. chalky, pr-fair scattered vis. porosity, chalky, no shows

LS, cream, tan, gry, fxl, dense, poor vis. porosity, chalky, no shows

LS, gry, tan, fxl, dense, a/a, tr. white, tan, chert, no shows

Slug black carb sh

Ft. Scott 4208.0 (-1911.0)

LS, cream, tan, poor vis. porosity, dense, tr. brn / blk stain, tr. sfo, faint odor

LS, tan, brn, pr. scattered p.p/vuggy type porosity, chalky, golden brn stain, sfo, few vis. gas bubbles

Cherokee 4238.0 (-1941.0)

Sh, black carb

LS, gry/dk gry, fxl, dense, poor scattered porosity, chalky, no shows, tr. pyrite

LS, tan, gry, poor scattered vis. porosity, v. chalky, nsfo, fair odor, tr. black stain (caving???)

Sh, gry, dk gry

LS, gry, dense, poor vis. porosity, cherty, & white/boney, opaque cherts

Tr. sd. white, med grain, calc. sub rounded, no shows, tr. v.c. yellow/mustard, maroon, yellow shales

Miss. 4306.0 (-2009.0)

Chert, white, boney, pr.scattered vuggy type porosity, tr. brn stain, tr. sfo, faint odor

Dol.tan, brn, fxl, suc. (dense) dk brn stain, dk brn sppty sfo, strong odor, tr. pyrite.

Dol. tan, brn, fxl, suc., scattered vuggy type porosity, good inxn porosity, dk brn stain, good sfo, strong odor

DST #1 4192-4242
30-30-45-45

1st Open:
Weak blow built to 1.5"

2nd Open:
Weak built to .5"

Recovery:
10' Mud w/ oil spots

Pressures:
ISIP 303 psi
FSIP 146 psi
IFP 28-22 psi
FFP 30-29 psi
HSH 2119-2067 psi

DST#2 4258-4327
45-45-60-60

1st Open:
Weak blow built 5"

2nd Open:
Weak blow built 2.5"

Recovery:
60' GO
(10%G, 90%O)

80' MCO
(80%O, 20%M)

20' GSOCM
(10%G, 3%O, 87%M)

Pressures;
ISIP 1094 psi
FSIP 1014 psi

tr. pyrite

RTD 4327.0 (-2030.0)

IFP 32-55 psi

FFP 1014 psi

HSH 2156-2085 psi

4340

4360

4380



DRILL STEM TEST REPORT

Prepared For: **RF Hembree Oil, LLC.**

PO Box 542
Ness City KS 67560+0542

ATTN: Wyatt Urban

Schwartzkopf #3

35-18S-24W Ness,KS

Start Date: 2018.04.02 @ 01:36:15

End Date: 2018.04.02 @ 10:09:30

Job Ticket #: 63770 DST #: 1

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2018.04.04 @ 16:45:32



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

RF Hembree Oil, LLC.
 PO Box 542
 Ness City KS 67560+0542
 ATTN: Wyatt Urban

35-18S-24W Ness,KS
Schwartzkopf #3
 Job Ticket: 63770 **DST#: 1**
 Test Start: 2018.04.02 @ 01:36:15

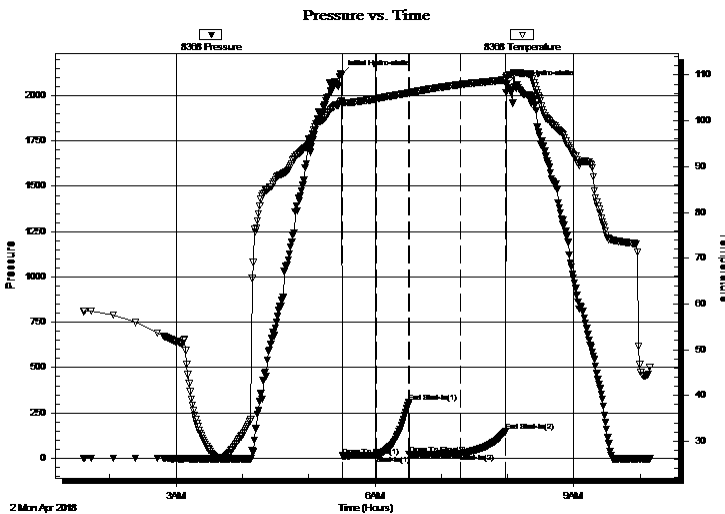
GENERAL INFORMATION:

Formation: **Ft. Scott**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 05:30:30
 Time Test Ended: 10:09:30
 Interval: **4192.00 ft (KB) To 4242.00 ft (KB) (TVD)**
 Total Depth: 4242.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Spencer J. Staab
 Unit No: 84
 Reference Elevations: 2297.00 ft (KB)
 2290.00 ft (CF)
 KB to GR/CF: 7.00 ft

Serial #: 8368 **Inside**
 Press@RunDepth: 24.87 psig @ 4196.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2018.04.02 End Date: 2018.04.02 Last Calib.: 2018.04.02
 Start Time: 01:36:15 End Time: 10:09:30 Time On Btm: 2018.04.02 @ 05:29:45
 Time Off Btm: 2018.04.02 @ 07:59:15

TEST COMMENT: 30-IF-Weak Blow ; Built to 1 1/2"
 30-ISI-No Return
 45-FF-Weak Blow ; Built to 1/2"
 45-FSI-No Return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2113.49	104.32	Initial Hydro-static
1	12.40	103.90	Open To Flow (1)
32	16.95	104.83	Shut-In(1)
61	307.21	106.09	End Shut-In(1)
62	19.54	105.96	Open To Flow (2)
108	24.87	107.93	Shut-In(2)
149	147.98	108.93	End Shut-In(2)
150	2058.18	109.79	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	Mud w/oil specks	0.05

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

RF Hembree Oil, LLC.
 PO Box 542
 Ness City KS 67560+0542
 ATTN: Wyatt Urban

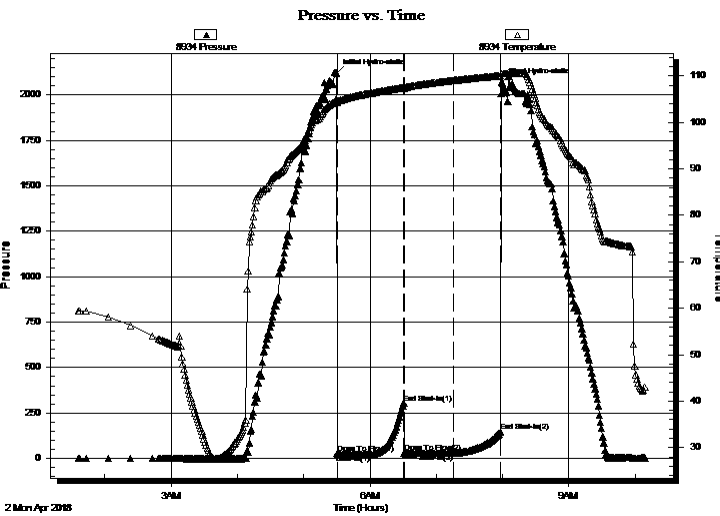
35-18S-24W Ness,KS
Schwartzkopf #3
 Job Ticket: 63770 **DST#: 1**
 Test Start: 2018.04.02 @ 01:36:15

GENERAL INFORMATION:

Formation: **Ft. Scott**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 05:30:30
 Time Test Ended: 10:09:30
 Interval: **4192.00 ft (KB) To 4242.00 ft (KB) (TVD)**
 Total Depth: 4242.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Spencer J. Staab
 Unit No: 84
 Reference Elevations: 2297.00 ft (KB)
 2290.00 ft (CF)
 KB to GR/CF: 7.00 ft

Serial #: 8934 Inside
 Press@RunDepth: 146.84 psig @ 4196.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2018.04.02 End Date: 2018.04.02 Last Calib.: 2018.04.02
 Start Time: 01:36:15 End Time: 10:09:30 Time On Btm: 2018.04.02 @ 05:30:00
 Time Off Btm: 2018.04.02 @ 07:59:30

TEST COMMENT: 30-IF-Weak Blow ; Built to 1 1/2"
 30-ISI-No Return
 45-FF-Weak Blow ; Built to 1/2"
 45-FSI-No Return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2119.64	105.03	Initial Hydro-static
1	28.44	104.31	Open To Flow (1)
31	22.86	106.24	Shut-In(1)
61	303.96	107.51	End Shut-In(1)
61	30.90	107.36	Open To Flow (2)
106	29.07	109.01	Shut-In(2)
149	146.84	110.05	End Shut-In(2)
150	2067.67	110.43	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	Mud w/oil specks	0.05

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

RF Hembree Oil, LLC.
PO Box 542
Ness City KS 67560+0542
ATTN: Wyatt Urban

35-18S-24W Ness,KS
Schwartzkopf #3
Job Ticket: 63770 **DST#: 1**
Test Start: 2018.04.02 @ 01:36:15

Tool Information

Drill Pipe:	Length: 4062.00 ft	Diameter: 3.80 inches	Volume: 56.98 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 inches	Volume: 0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 121.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose:	62000.00 lb
			<u>Total Volume: 57.58 bbl</u>	Tool Chased	ft
Drill Pipe Above KB:	11.00 ft			String Weight: Initial	60000.00 lb
Depth to Top Packer:	4192.00 ft			Final	60000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	50.00 ft				
Tool Length:	70.00 ft				
Number of Packers:	1	Diameter: 6.75 inches			

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Change Over Sub	1.00			4173.00	
Shut In Tool	5.00			4178.00	
Hydraulic tool	5.00			4183.00	
Packer	5.00			4188.00	20.00 Bottom Of Top Packer
Packer	4.00			4192.00	
Stubb	1.00			4193.00	
Perforations	2.00			4195.00	
Change Over Sub	1.00			4196.00	
Recorder	0.00	8368	Inside	4196.00	
Recorder	0.00	8934	Inside	4196.00	
Drill Pipe	31.00			4227.00	
Change Over Sub	1.00			4228.00	
Perforations	11.00			4239.00	
Bullnose	3.00			4242.00	50.00 Bottom Packers & Anchor

Total Tool Length: 70.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

RF Hembree Oil, LLC.
PO Box 542
Ness City KS 67560+0542
ATTN: Wyatt Urban

35-18S-24W Ness,KS
Schwartzkopf #3
Job Ticket: 63770 **DST#: 1**
Test Start: 2018.04.02 @ 01:36:15

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: 50.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.59 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 7000.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	Mud w /oil specks	0.049

Total Length: 10.00 ft Total Volume: 0.049 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments: TrLCM

Serial #: 8368

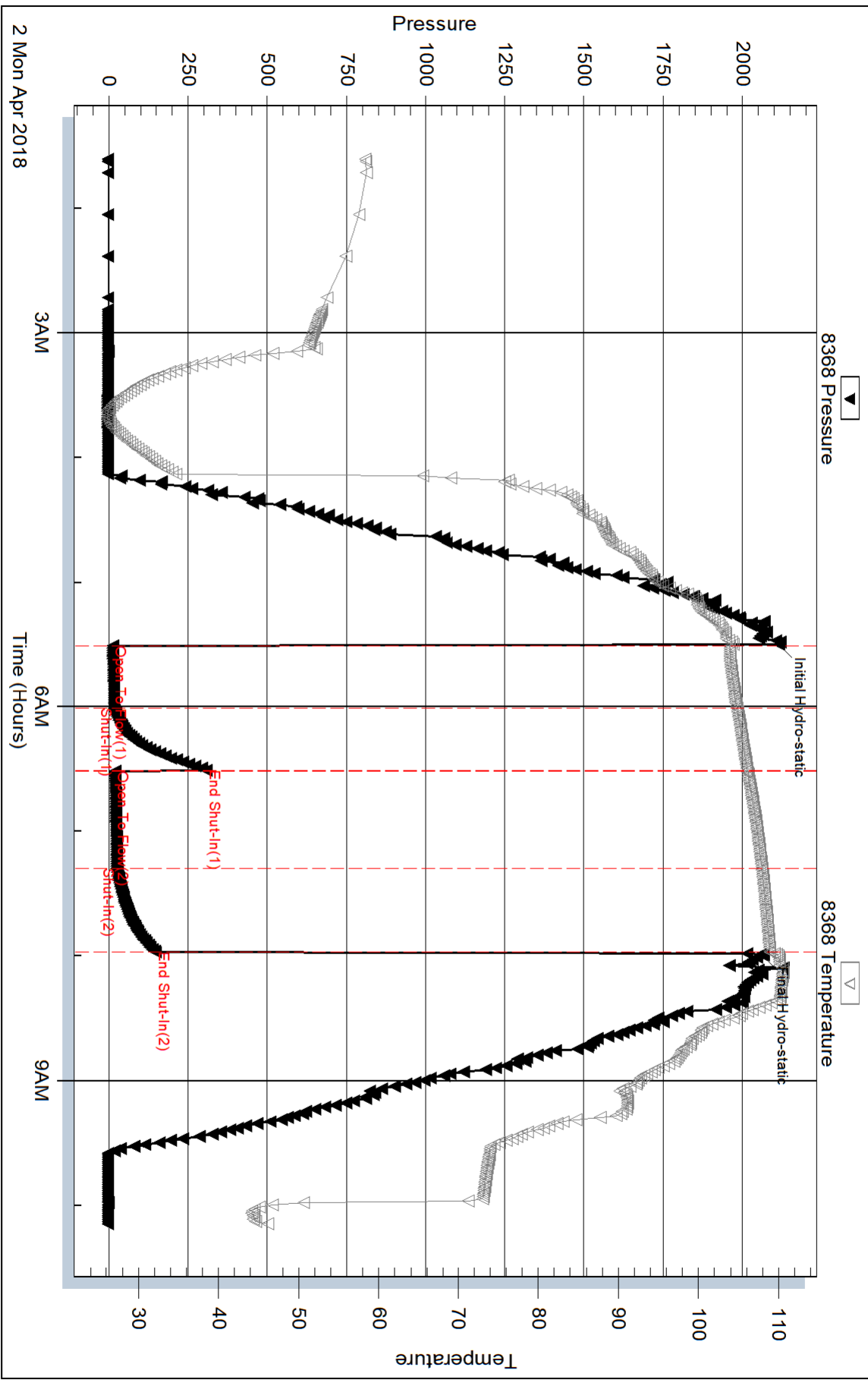
Inside

RF Hembree Oil, LLC.

Schwartzkopf #3

DST Test Number: 1

Pressure vs. Time



Triobite Testing, Inc

Ref. No: 63770

Printed: 2018.04.04 @ 16:45:33

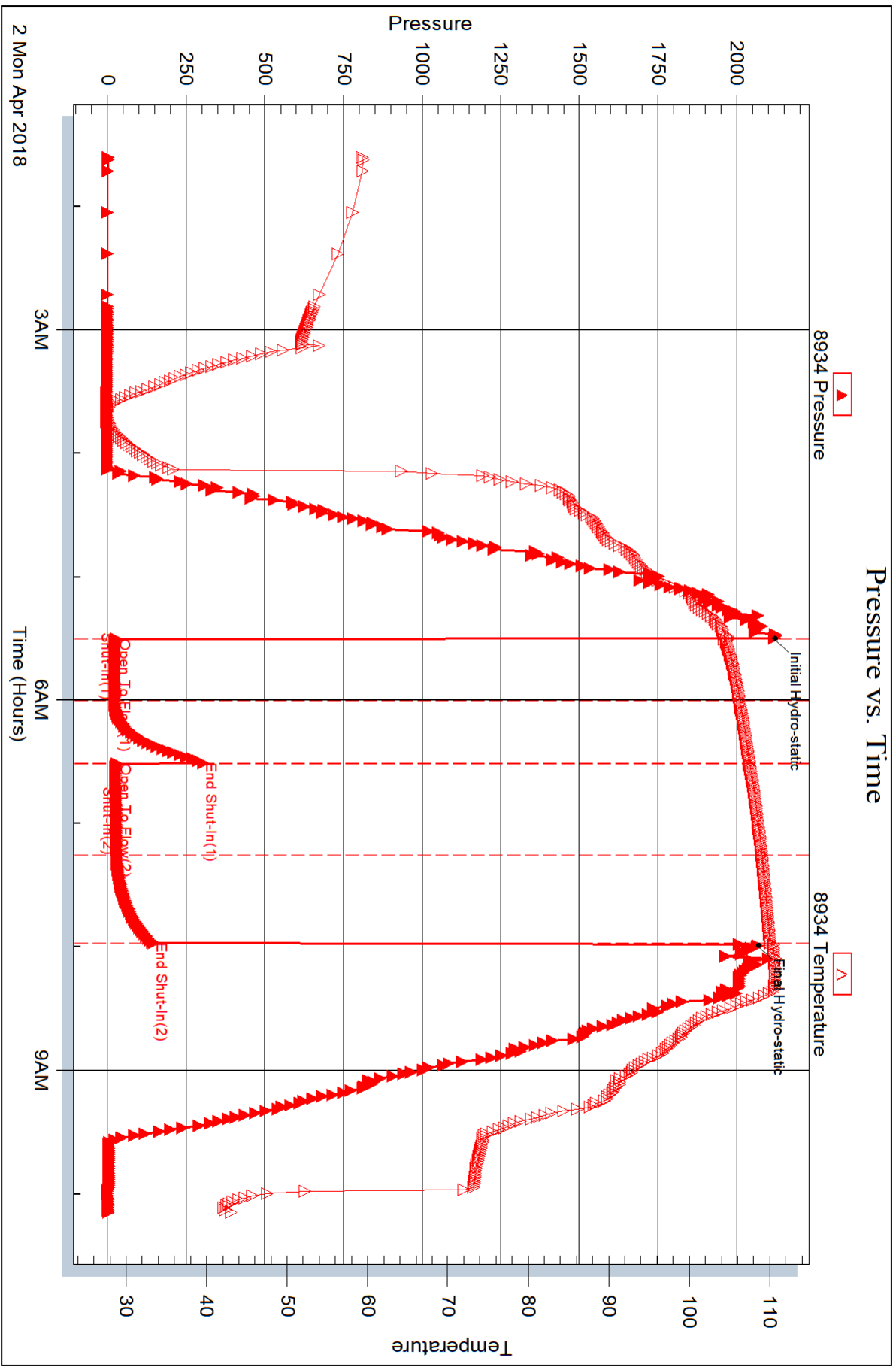
Serial #: 8934

Inside

RF Hembree Oil, LLC.

Schwartzkopf #3

DST Test Number: 1





DRILL STEM TEST REPORT

Prepared For: **RF Hembree Oil, LLC.**

PO Box 542
Ness City KS 67560+0542

ATTN: Wyatt Urban

Schwartzkopf #3

35-18S-24W Ness,KS

Start Date: 2018.04.03 @ 00:59:15

End Date: 2018.04.03 @ 09:08:30

Job Ticket #: 63771 DST #: 2

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2018.04.04 @ 16:45:01



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

RF Hembree Oil, LLC.
 PO Box 542
 Ness City KS 67560+0542
 ATTN: Wyatt Urban

35-18S-24W Ness,KS
Schwartzkopf #3
 Job Ticket: 63771 **DST#: 2**
 Test Start: 2018.04.03 @ 00:59:15

GENERAL INFORMATION:

Formation: **Mississippi**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 03:37:30
 Time Test Ended: 09:08:30
 Interval: **4258.00 ft (KB) To 4327.00 ft (KB) (TVD)**
 Total Depth: 4327.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Spencer J. Staab
 Unit No: 84
 Reference Elevations: 2297.00 ft (KB)
 2290.00 ft (CF)
 KB to GR/CF: 7.00 ft

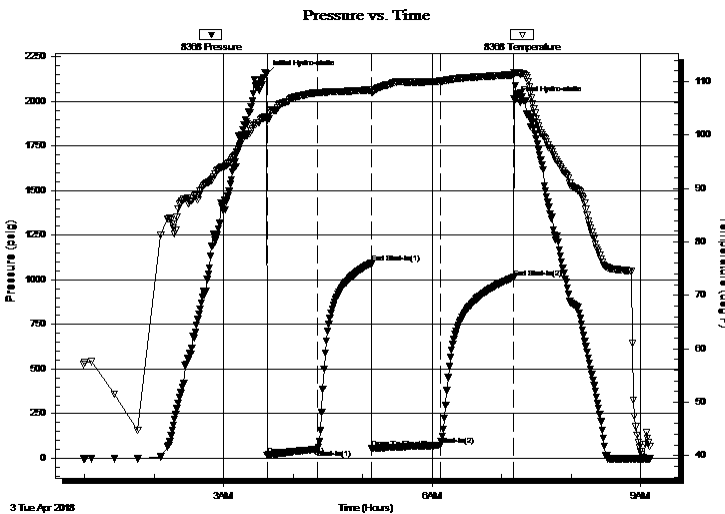
Serial #: 8368

Inside

Press@RunDepth: 72.34 psig @ 4262.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2018.04.03 End Date: 2018.04.03 Last Calib.: 2018.04.03
 Start Time: 00:59:15 End Time: 09:08:30 Time On Btm: 2018.04.03 @ 03:37:00
 Time Off Btm: 2018.04.03 @ 07:11:15

TEST COMMENT: 45-IF-Weak Blow ; Built to 5"
 45-ISI-No Return
 60-FF-Weak Blow ; Built to 2 1/2"
 60-FSI-No Return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2151.38	103.46	Initial Hydro-static
1	16.12	102.70	Open To Flow (1)
45	51.92	107.91	Shut-In(1)
91	1093.17	108.47	End Shut-In(1)
91	56.62	108.07	Open To Flow (2)
150	72.34	110.09	Shut-In(2)
214	1013.10	111.28	End Shut-In(2)
215	2006.20	111.62	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
20.00	GSOCM 10%G 3%O 87%M	0.10
80.00	MCO 20%M 80%O	0.39
60.00	GO 10%G 90%O	0.65

* Recovery from multiple tests

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

RF Hembree Oil, LLC.
 PO Box 542
 Ness City KS 67560+0542
 ATTN: Wyatt Urban

35-18S-24W Ness,KS
Schwartzkopf #3
 Job Ticket: 63771 **DST#: 2**
 Test Start: 2018.04.03 @ 00:59:15

GENERAL INFORMATION:

Formation: **Mississippi**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 03:37:30
 Time Test Ended: 09:08:30
 Interval: **4258.00 ft (KB) To 4327.00 ft (KB) (TVD)**
 Total Depth: 4327.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Spencer J. Staab
 Unit No: 84
 Reference Elevations: 2297.00 ft (KB)
 2290.00 ft (CF)
 KB to GR/CF: 7.00 ft

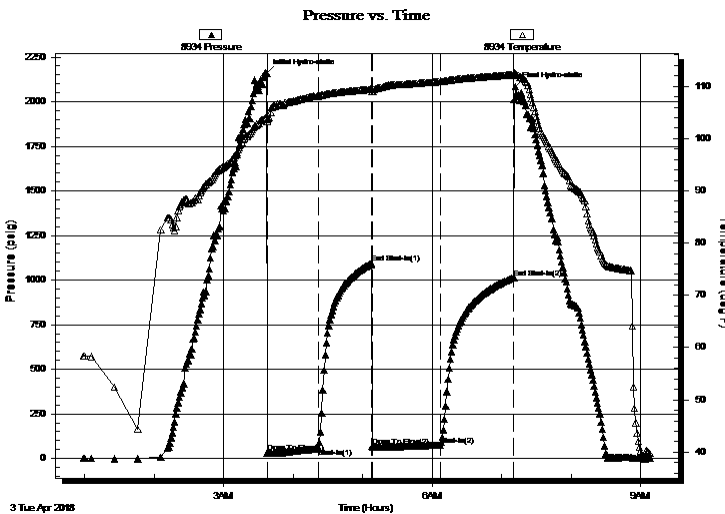
Serial #: 8934

Inside

Press@RunDepth: 1014.15 psig @ 4262.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2018.04.03 End Date: 2018.04.03 Last Calib.: 2018.04.03
 Start Time: 00:59:15 End Time: 09:08:30 Time On Btm: 2018.04.03 @ 03:37:15
 Time Off Btm: 2018.04.03 @ 07:11:45

TEST COMMENT: 45-IF-Weak Blow ; Built to 5"
 45-ISI-No Return
 60-FF-Weak Blow ; Built to 2 1/2"
 60-FSI-No Return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2156.43	104.09	Initial Hydro-static
1	32.09	103.33	Open To Flow (1)
45	55.15	108.15	Shut-In(1)
91	1094.40	109.45	End Shut-In(1)
91	67.29	109.05	Open To Flow (2)
150	74.98	110.90	Shut-In(2)
214	1014.15	112.21	End Shut-In(2)
215	2085.47	112.38	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
20.00	GSOCM 10%G 3%O 87%M	0.10
80.00	MCO 20%M 80%O	0.39
60.00	GO 10%G 90%O	0.65

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

RF Hembree Oil, LLC.
PO Box 542
Ness City KS 67560+0542
ATTN: Wyatt Urban

35-18S-24W Ness,KS
Schwartzkopf #3
Job Ticket: 63771 **DST#: 2**
Test Start: 2018.04.03 @ 00:59:15

Tool Information

Drill Pipe:	Length: 4125.00 ft	Diameter: 3.80 inches	Volume: 57.86 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 inches	Volume: 0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 121.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose:	62000.00 lb
			<u>Total Volume: 58.46 bbl</u>	Tool Chased	ft
Drill Pipe Above KB:	8.00 ft			String Weight: Initial	60000.00 lb
Depth to Top Packer:	4258.00 ft			Final	60000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	69.00 ft				
Tool Length:	89.00 ft				
Number of Packers:	1	Diameter: 6.75 inches			

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
------------------	-------------	------------	----------	------------	----------------

Change Over Sub	1.00			4239.00	
Shut In Tool	5.00			4244.00	
Hydraulic tool	5.00			4249.00	
Packer	5.00			4254.00	20.00 Bottom Of Top Packer
Packer	4.00			4258.00	
Stubb	1.00			4259.00	
Perforations	2.00			4261.00	
Change Over Sub	1.00			4262.00	
Recorder	0.00	8368	Inside	4262.00	
Recorder	0.00	8934	Inside	4262.00	
Drill Pipe	31.00			4293.00	
Change Over Sub	1.00			4294.00	
Perforations	30.00			4324.00	
Bullnose	3.00			4327.00	69.00 Bottom Packers & Anchor

Total Tool Length: 89.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

RF Hembree Oil, LLC.
PO Box 542
Ness City KS 67560+0542
ATTN: Wyatt Urban

35-18S-24W Ness,KS
Schwartzkopf #3
Job Ticket: 63771 **DST#: 2**
Test Start: 2018.04.03 @ 00:59:15

Mud and Cushion Information

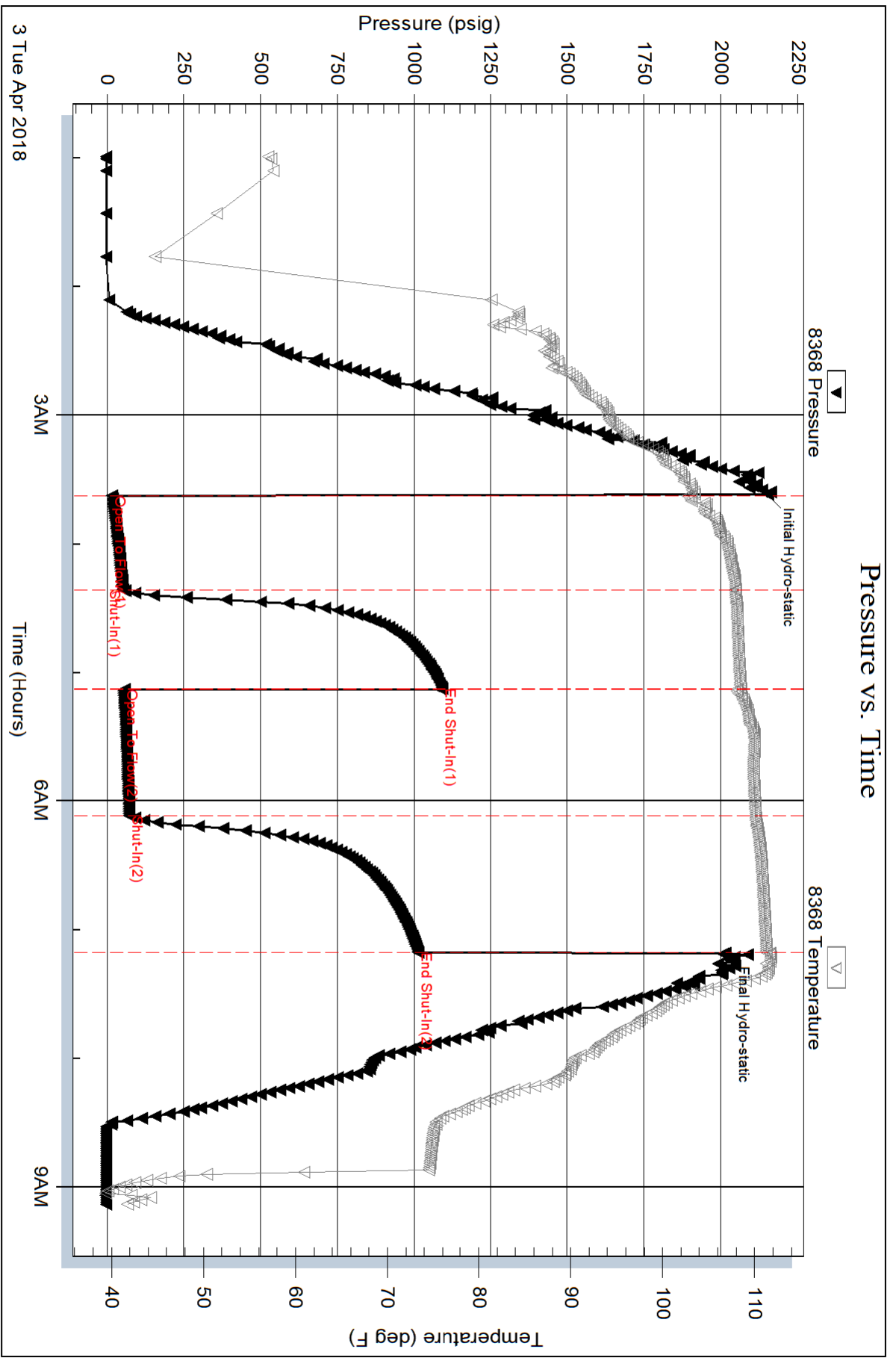
Mud Type: Gel Chem	Cushion Type:	Oil API: 34 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: ppm
Viscosity: 48.00 sec/qt	Cushion Volume: bbl	
Water Loss: 7.98 in ³	Gas Cushion Type:	
Resistivity: ohm.m	Gas Cushion Pressure: psig	
Salinity: 6900.00 ppm		
Filter Cake: inches		

Recovery Information

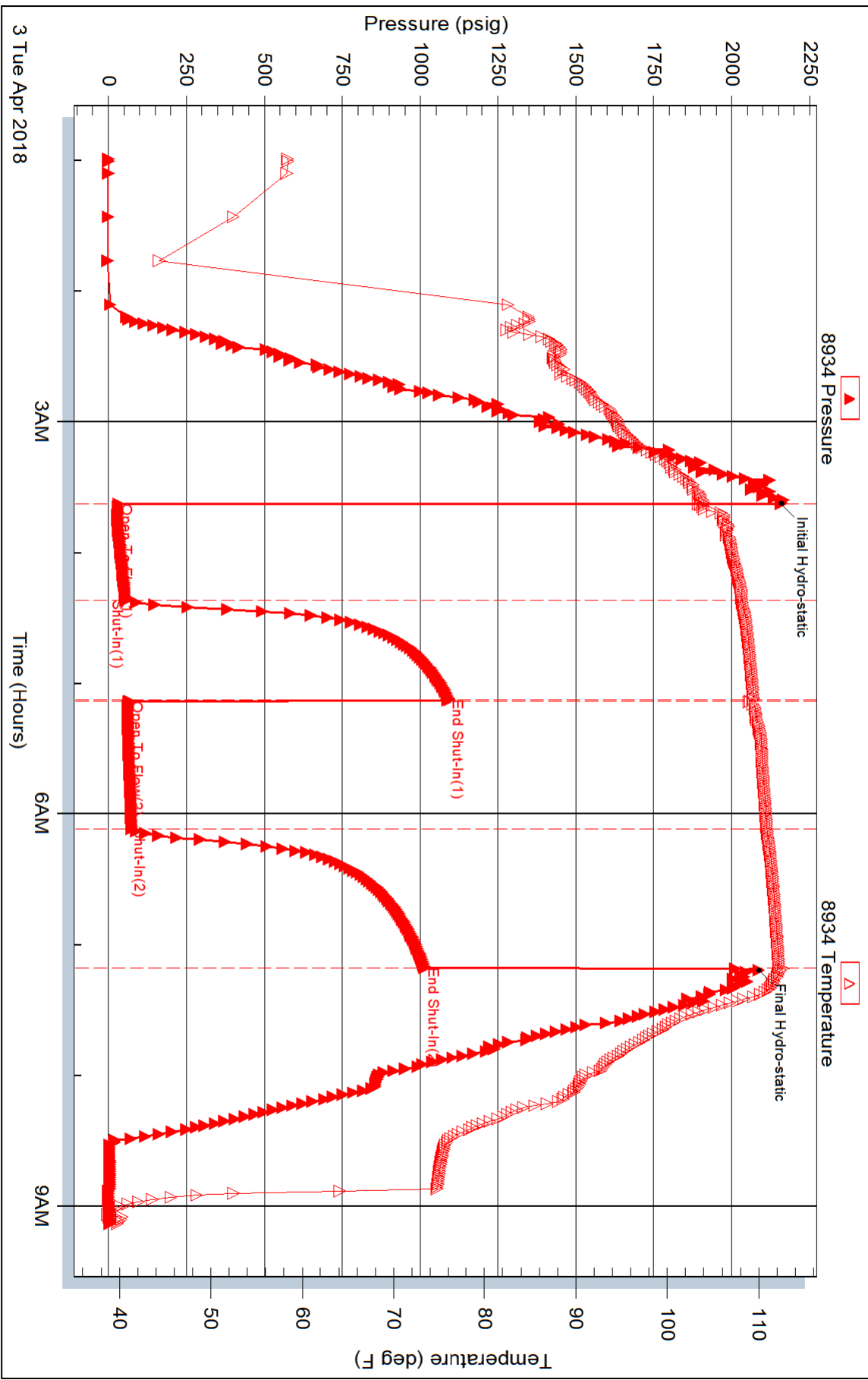
Recovery Table

Length ft	Description	Volume bbl
20.00	GSOCM 10%G 3%O 87%M	0.098
80.00	MCO 20%M 80%O	0.393
60.00	GO 10%G 90%O	0.650

Total Length: 160.00 ft Total Volume: 1.141 bbl
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments: TrLCM



Pressure vs. Time





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 63770

Well Name & No. Schwartzkopf #3 Test No. 1 Date 04/01/2018
 Company R7 Hembree Oil, LLC Elevation 2297' KB 2290' GL
 Address PO Box 542 Ness City Ks 67560 +0542
 Co. Rep / Geo. Wyatt Urban Rig Pickrell #10
 Location: Sec. 35 Twp 18N Rge. 24W Co. Ness State Ks

Interval Tested 4192' - 4242' Zone Tested 7d Scott
 Anchor Length 50' Drill Pipe Run 4062' Mud Wt. 9.2
 Top Packer Depth 4187' Drill Collars Run 121' Vls 50
 Bottom Packer Depth 4192' Wt. Pipe Run - WL 7.6
 Total Depth 4242' Chlorides 7,000 ppm System LCM 72

Blow Description 77-Weak Blow; Built to 1/2"
75d- No Return
77- Weak Blow; Built to 1/2"
75d- No Return

Rec	Feet of	%gas	%oil	%water	%mud
<u>10</u>	<u>Mud w/oil specks</u>			<u>100</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 10' BHT 110° Gravity - API RW - @ - F Chlorides - ppm
 (A) Initial Hydrostatic 2119 Test 1150 T-On Location 23:00
 (B) First Initial Flow 28 Jars _____ T-Started 01:36 04/02/2018
 (C) First Final Flow 22 Safety Joint _____ T-Open 05:30
 (D) Initial Shut-In 303 Circ Sub _____ T-Pulled 08:00
 (E) Second Initial Flow 30 Hourly Standby x2 160 T-Out 10:08
 (F) Second Final Flow 29 Mileage 128 RT 128 Comments Stayed in
 (G) Final Shut-In 146 Sampler _____ Ness
 (H) Final Hydrostatic 2067 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Initial Open 30 Extra Recorder _____ Sub Total 0
 Initial Shut-In 30 Day Standby _____ Total 1438
 Final Flow 45 Accessibility _____ MP/DST Disc't _____
 Final Shut-In 45 Sub Total 1438

Approved By _____ Our Representative Spencer J. Jacobs Thanks!

Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.

785-259-0056



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 63771

Well Name & No. Schwartzkopf #3 Test No. 2 Date 04/03/2018
 Company R7 Hembree Oil, Inc. Elevation 2297' KB 2290' GL
 Address PO BOX 542 Ness City Ks 67560+0542
 Co. Rep / Geo. Wyatt Urban Rig Pickrell #10
 Location: Sec. 35 Twp 18s Rge. 24w Co. Ness State Ks

Interval Tested 4258'-4327' Zone Tested Mississippi
 Anchor Length 69' Drill Pipe Run 4125' Mud Wt. 9.5
 Top Packer Depth 4253' Drill Collars Run 121 Vls 48
 Bottom Packer Depth 4258' Wt. Pipe Run - WL 8.0
 Total Depth 4327' Chlorides 6900 ppm System LCM 7/2

Blow Description 67-Weak Blow, Built to 5"
68- No Return
77- Weak Blow, Built to 2 1/2"
78- No Return

Rec	Feet of	%gas	%oil	%water	%mud
<u>20'</u>	<u>MSOCM</u>	<u>10</u>	<u>3</u>	<u>87</u>	<u></u>
<u>80'</u>	<u>MCO</u>	<u></u>	<u>80</u>	<u>20</u>	<u></u>
<u>60'</u>	<u>10</u>	<u>10</u>	<u>90</u>	<u></u>	<u></u>
<u></u>	<u></u>	<u>%gas</u>	<u>%oil</u>	<u>%water</u>	<u>%mud</u>
<u></u>	<u></u>	<u>%gas</u>	<u>%oil</u>	<u>%water</u>	<u>%mud</u>

Rec Total 160' BHT _____ Gravity 34 API RW - @ _____ °F Chlorides - ppm

(A) Initial Hydrostatic 2156 Test 1150 T-On Location 00:43
 (B) First Initial Flow 32 Jars _____ T-Started 00:59
 (C) First Final Flow 55 Safety Joint _____ T-Open 03:35
 (D) Initial Shut-In 1094 Circ Sub _____ T-Pulled 07:05
 (E) Second Initial Flow 67 Hourly Standby _____ T-Out 09:06
 (F) Second Final Flow 74 Mileage 128 R7 128 Comments Loaded after test
 (G) Final Shut-In 1014 Sampler _____
 (H) Final Hydrostatic 2085 Straddle _____ Ruined Shale Packer _____
 Shale Packer 250 Ruined Packer _____
 Extra Packer _____ Extra Copies _____

Initial Open 45
 Initial Shut-In 45
 Final Flow 60
 Final Shut-In 60
 Sub Total 1528
 Total 1528
 MP/DST Disc't _____

Approved By _____ Our Representative Spencer J. Neal Thanks!
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