KOLAR Document ID: 1522371

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 # 3581
Name: Red Oak Energy, Inc.
Address 1: 7701 E KELLOGG DR STE 710
Address 2:
City: WICHITA State: KS Zip: 67207 + 1738
Contact Person: Ryan Davis
Phone: (316) 652-7373
CONTRACTOR: License # 30606
Name: Murfin Drilling Co., Inc.
Wellsite Geologist: Ryan Davis
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 #:

5/20/2020 Spud Date or Recompletion Date
5/27/2020 Date Reached TD
6/16/2020 Completion Date or Recompletion Date

API No.: 15-071-20893-00-00
Spot Description:
__ - __ - SW - SE Sec. 14 Twp. 16 S. R. 42 ☐ East ☑ West
687 Feet from ☐ North / ☑ South Line of Section
1449 Feet from ☑ East / ☐ West Line of Section
Footages Calculated from Nearest Outside Section Corner:
☐ NE ☐ NW ☑ SE ☐ SW
GPS Location: Lat: *(e.g. xx.xxxxx)* , Long: *(e.g. -xxx.xxxxx)*
Datum: ☐ NAD27 ☐ NAD83 ☐ WGS84
County: Greeley
Lease Name: JHT Well #: 1-14
Field Name:
Producing Formation: NA
Elevation: Ground: 3794 Kelly Bushing: 3805
Total Vertical Depth: 5162 Plug Back Total Depth: 5112
Amount of Surface Pipe Set and Cemented at: 356 Feet
Multiple Stage Cementing Collar Used? ☑ Yes ☐ No
If yes, show depth set: 2683 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: 3400 ppm Fluid volume: 430 bbls
Dewatering method used: Evaporated
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: 07/02/2020
☐ **Confidential Release Date:** 07/02/2022
☑ **Wireline Log Received** ☑ **Drill Stem Tests Received**
☑ **Geologist Report / Mud Logs Received**
☐ **UIC Distribution**
ALT ☐ I ☑ II ☐ III **Approved by:** Karen Ritter **Date:** 07/06/2020

Operator Name: Red Oak Energy, Inc. Lease Name: JHT Well #: 1-14

Sec. 14 Twp. 16 S. R. 42 ☐ East ☑ West County: Greeley

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 *(Attach Additional Sheets)*	☑ Yes	☐ No
Samples Sent to Geological Survey	☑ Yes	☐ No
Cores Taken	☐ Yes	☑ No
Electric Log Run	☑ Yes	☐ No
Geologist Report / Mud Logs	☑ Yes	☐ No

List All E. Logs Run:

DIL
POR

☑ Log Formation (Top), Depth and Datum ☐ Sample

Name	Top	Datum
B/Anhy	2717	1089
Heebner	4082	-277
Cherokee	4704	-899
Mrrw Sh	4948	-1143
Mrrw Sd	4968	-1163
Mrrw Ls	5066	-1261

CASING RECORD ☑ New ☐ 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
Surface	12.25	8.625	23	356	common	250	60/40 POZ (3% cc)
Production	7.875	5.5	15.5	5155	EA2	125	1/4 # Flocele

ADDITIONAL CEMENTING / SQUEEZE RECORD

Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
☐ Perforate ☐ Protect Casing ☐ Plug Back TD ☐ 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: ☐ Flowing ☐ Pumping ☐ Gas Lift ☐ Other *(Explain)*

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

DISPOSITION OF GAS:	METHOD OF COMPLETION:	PRODUCTION INTERVAL:	
		Top	Bottom
☐ Vented ☐ Sold ☐ Used on Lease *(If vented, Submit ACO-18.)*	☐ Open Hole ☑ Perf. ☐ Dually Comp. *(Submit ACO-5)* ☐ Commingled *(Submit ACO-4)*	4969	4977

Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record *(Amount and Kind of Material Used)*
2	4969	4977			
4	2690	2691		4920	50 sks 60/40 Poz mix cement
4	1970	1971			80 sks 60/40 Poz mix cement

TUBING RECORD: Size: Set At: Packer At:

Mail to: KCC - Conservation Division, 266 N. Main, Suite 220, Wichita, Kansas 67202

Form	ACO1 - Well Completion
Operator	Red Oak Energy, Inc.
Well Name	JHT 1-14
Doc ID	1522371

Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement	Number of Sacks Used	Type and Percent Additives
Surface	12.25	8.625	23	356	common	250	60/40 POZ (3% cc)
Production	7.875	5.5	15.5	5155	EA2	125	1/4 # Flocele

250 N. Water St., Suite #200
Wichita, KS 67202

HURRICANE SERVICES INC

Customer	Red Oak Energy, Inc	Lease & Well #	JHT 1-14			Date	5/20/2020
Service District	Oakley KS	County & State	Greeley KS	Legals S/T/R	14-16-42	Job #	
Job Type	Surface ☑ PROD ☐ INJ ☐ SWD	New Well?	☑ YES ☐ No			Ticket #	ICT3571

Equipment #	Driver
73	Josh Mosier
230	Jesse Jones
205	Travis Thrasher

Job Safety Analysis - A Discussion of Hazards & Safety Procedures

☑ Hard hat	☑ Gloves	☐ Lockout/Tagout	☐ Warning Signs & Flagging
☑ H2S Monitor	☑ Eye Protection	☐ Required Permits	☐ Fall Protection
☑ Safety Footwear	☐ Respiratory Protection	☐ Slip/Trip/Fall Hazards	☐ Specific Job Sequence/Expectations
☑ FRC/Protective Clothing	☐ Additional Chemical/Acid PPE	☑ Overhead Hazards	☑ Muster Point/Medical Locations
☑ Hearing Protection	☑ Fire Extinguisher	☐ Additional concerns or issues noted below	

Comments

Product/ Service Code	Description	Unit of Measure	Quantity			Net Amount
M010	Heavy Equipment Mileage	mi	80.00			$192.00
M015	Light Equipment Mileage	mi	80.00			$96.00
M020	Ton Mileage	tm	860.00			$774.00
C010	Cement Pump	ea	1.00			$450.00
c050	Cement Plug Container	ea	1.00			$150.00
CP070	60/40/2 Pozmix	sack	250.00			$1,950.00
FE290	8 5/8" Wooden Plug	ea	1.00			$90.00
CP100	Calcium Chloride	lb	645.00			$290.25
CP120	Flo-Seal	lb	63.00			$66.15
Fe280	8 5/8" Baffle	ea	1.00			$90.00
FE250	8 5/8" Centralizer	ea	2.00			$56.00

Customer Section: On the following scale how would you rate Hurricane Services Inc.?

Based on this job, how likely is it you would recommend HSI to a colleague?

☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐

Unlikely 1 2 3 4 5 6 7 8 9 10 Extremely Likely

Net:			$4,204.40
Total Taxable	$ -	Tax Rate:	
Sale Tax:			$ -
Total:			$ 4,204.40

State tax laws deem certain products and services used on new wells to be sales tax exempt. Hurricane Services relies on the customer provided well information above to make a determination if services and/or products are tax exempt.

HSI Representative: *Josh Mosier*

TERMS: Cash in advance unless Hurricane Services Inc. (HSI) has approved credit prior to sale. Credit terms of sale for approved accounts are total invoice due on or before the 30th day from the date of invoice. Past due accounts shall pay interest on the balance past due at the rate of 1 ½% per month or the maximum allowable by applicable state or federal laws. In the event it is necessary to employ an agency and/or attorney to affect the collection, Customer hereby agrees to pay all fees directly or indirectly incurred for such collection. In the event that Customer's account with HSI becomes delinquent, HSI has the right to revoke any discounts previously applied in arriving at net invoice price. Upon revocation, the full invoice price without discount is immediately due and subject to collection. Prices quoted are estimates only and are good for 30 days from the date of issue. Pricing does not include federal, state, or local taxes, or royalties and stated price adjustments. Actual charges may vary depending upon time, equipment, and material ultimately required to perform these services. Any discount is based on 30 days net payment terms or cash. **DISCLAIMER NOTICE:** Technical data is presented in good faith, but no warranty is stated or implied. HSI assumes no liability for advice or recommendations made concerning the results fom the use of any product or service. The information presented is a best estimate of the actual results that may be achieved and should be used for comparison purposes and HSI makes no guarantee of future production performance. Customer represents and warrants that well and all associated equipment in acceptable condition to receive services by HSI. Likewise, the customer guarantees proper operational care of all customer owned equipment and property while HSI is on location performing services. The authorization below acknowledges the receipt and acceptance of all terms/conditions stated above, and Hurricane has been provided accurate well informaiton in determining taxable services.

X_____ **CUSTOMER AUTHORIZATION SIGNATURE**

CEMENT TREATMENT REPORT

Customer:	Red Oak Energy, Inc	Well:	JHT 1-14	Ticket:	ITC 3571
City, State:	OAKLEY KS	County:	Greeley KS	Date:	5/20/2020
Field Rep:	Juan Tinoco	S-T-R:	14-16-42	Service:	Surface

Downhole Information	
Hole Size:	12.25 in
Hole Depth:	356 ft
Casing Size:	8 5/8 in
Casing Depth:	343 ft
Tubing / Liner:	in
Depth:	ft
Tool / Packer:	
Depth:	ft
Displacement:	21.7 bbls

Calculated Slurry	
Weight:	13.8 # / sx
Water / Sx:	7.29 gal / sx
Yield:	1.47 ft^3 / sx
Bbls / Ft.:	0.0735
Depth:	ft
Annular Volume:	0 bbls
Excess:	
Total Slurry:	65.4 bbls
Total Sacks:	250 sx

Product	% / #	#
Class A	60.00	7896
Poz	40.00	4144
Gel	2.00	241
CaCl	3.00	361
Gypsum		
Metso		
Kol Seal		
Flo Seal	0.25	35
Salt (bww)		
	Total	12,677

TIME	RATE	PSI	BBLs	REMARKS
800P				GOT TO LOCATION
805P				SAFETY MEETING
810P				RIGGED UP
105A	5.0	300.0	5.0	H20 AHEAD
107A	5.0	350.0	65.4	250 SKS OF 60/40/2
109A	5.0	300.0	21.7	DISPLACED WITH H20
115A				PLUG DOWN
116A				WASHED UP TRUCK
120A				RIGGED DOWN
130A				OFF LOCATION

	CREW	UNIT
Cementer:	Josh Mosier	73
Pump Operator:	Jesse Jones	230
Bulk #1:	Travis Thrasher	205
Bulk #2:		

SUMMARY		
Average Rate	Average Pressure	Total Fluid
5 bpm	317 psi	92 bbls

Hurricane Services, Inc.
250 N. Water
Wichita, KS 67202

DRILL STEM TEST REPORT

Red Oak

7701 E Kellogg Dr Ste 710
Wichita, Ks 67207

ATTN: Ryan Davis

14-16-42 Greeley Ks

JHT 1-14

Job Ticket: 66633 **DST#: 1**

Test Start: 2020.05.27 @ 05:21:45

GENERAL INFORMATION:

Formation: **Morrow**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 08:14:45
Time Test Ended: 15:56:15

Test Type: Conventional Bottom Hole (Reset)
Tester: Brandon Turley
Unit No: 79

Interval: 4930.00 ft (KB) To 4983.00 ft (KB) (TVD)
Total Depth: 5160.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

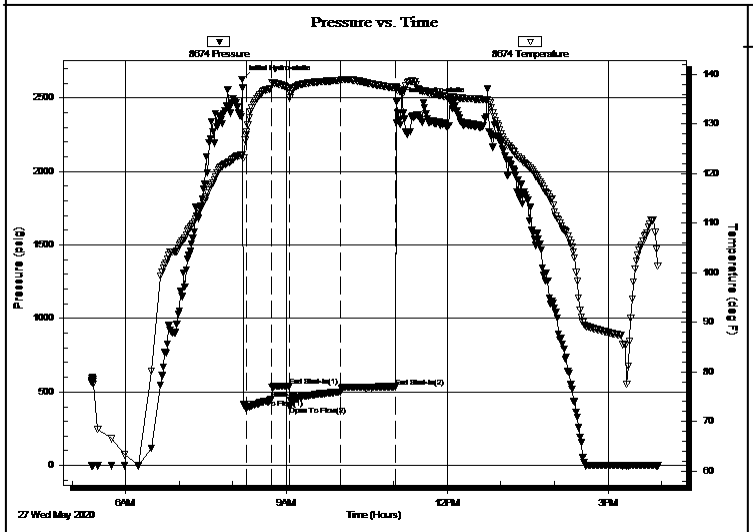
Reference Elevations: 3805.00 ft (KB)
3795.00 ft (CF)
KB to GR/CF: 10.00 ft

Serial #: 8674 **Outside**

Press@RunDepth: 499.25 psig @ 4931.00 ft (KB)
Start Date: 2020.05.27 End Date: 2020.05.27
Start Time: 05:21:50 End Time: 15:56:15

Capacity: 8000.00 psig
Last Calib.: 2020.05.27
Time On Btm: 2020.05.27 @ 08:10:15
Time Off Btm: 2020.05.27 @ 11:03:45

TEST COMMENT: IF:BOB in 1 min. Gas to surface in 3 min.
IS: Never bled off.
FF: Gauged gas
FS: Never bled off.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2625.51	123.86	Initial Hydro-static
5	386.25	127.83	Open To Flow (1)
33	450.20	137.20	Shut-In(1)
53	540.25	137.18	End Shut-In(1)
54	400.73	135.31	Open To Flow (2)
111	499.25	138.77	Shut-In(2)
172	535.73	137.28	End Shut-In(2)
174	2473.90	137.21	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
124.00	mcw 90%w 10%m	0.61
378.00	Top of recovery gocw m 30%g 10%o 10%4.2250%	

* Recovery from multiple tests

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.75	29.00	677.90
Last Gas Rate	0.75	15.34	104.01
Max. Gas Rate	0.75	36.26	177.18

DRILL STEM TEST REPORT

Red Oak

7701 E Kellogg Dr Ste 710
Wichita, Ks 67207

ATTN: Ryan Davis

14-16-42 Greeley Ks

JHT 1-14

Job Ticket: 66633 **DST#: 1**

Test Start: 2020.05.27 @ 05:21:45

GENERAL INFORMATION:

Formation: **Morrow**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 08:14:45
Time Test Ended: 15:56:15

Test Type: Conventional Bottom Hole (Reset)
Tester: Brandon Turley
Unit No: 79

Interval: 4930.00 ft (KB) To 4983.00 ft (KB) (TVD)
Total Depth: 5160.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

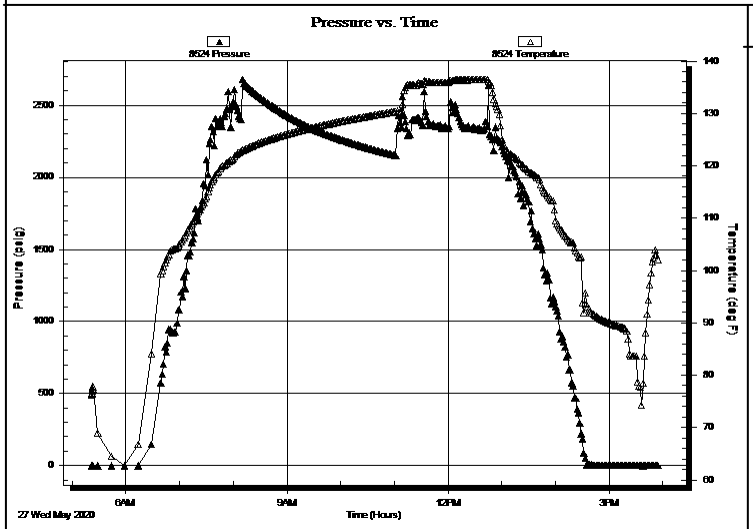
Reference Elevations: 3805.00 ft (KB)
3795.00 ft (CF)
KB to GR/CF: 10.00 ft

Serial #: 8524 **Below (Straddle)**

Press@RunDepth: psig @ 4984.00 ft (KB)
Start Date: 2020.05.27 End Date: 2020.05.27
Start Time: 05:21:49 End Time: 15:54:44

Capacity: 8000.00 psig
Last Calib.: 2020.05.27
Time On Btm:
Time Off Btm:

TEST COMMENT: IF:BOB in 1 min. Gas to surface in 3 min.
IS: Never bled off.
FF: Gauged gas
FS: Never bled off.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
124.00	mcw 90%w 10%m	0.61
378.00	Top of recovery gocw m 30%g 10%o 10%4.2250%	

* Recovery from multiple tests

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.75	29.00	677.90
Last Gas Rate	0.75	15.34	104.01
Max. Gas Rate	0.75	36.26	177.18

DRILL STEM TEST REPORT

Red Oak

7701 E Kellogg Dr Ste 710
Wichita, Ks 67207

ATTN: Ryan Davis

14-16-42 Greeley Ks

JHT 1-14

Job Ticket: 66633 **DST#: 1**

Test Start: 2020.05.27 @ 05:21:45

GENERAL INFORMATION:

Formation: **Morrow**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 08:14:45
Time Test Ended: 15:56:15

Test Type: Conventional Bottom Hole (Reset)
Tester: Brandon Turley
Unit No: 79

Interval: 4930.00 ft (KB) To 4983.00 ft (KB) (TVD)
Total Depth: 5160.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

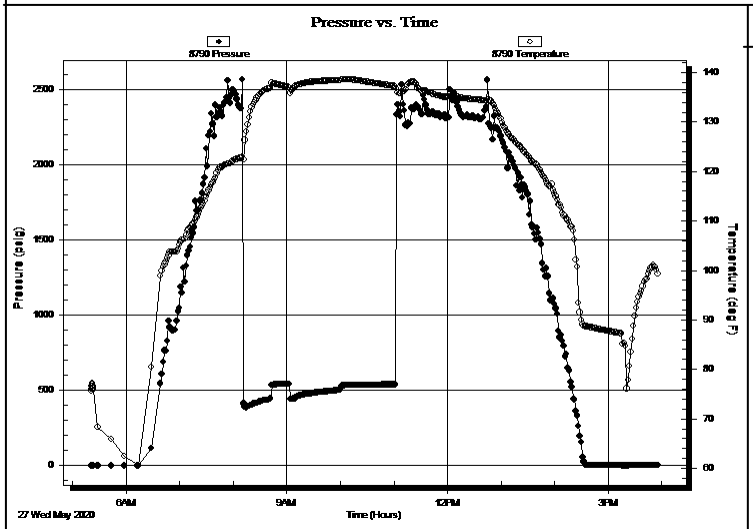
Reference Elevations: 3805.00 ft (KB)
3795.00 ft (CF)
KB to GR/CF: 10.00 ft

Serial #: 8790 **Inside**

Press@RunDepth: psig @ 4931.00 ft (KB)
Start Date: 2020.05.27 End Date: 2020.05.27
Start Time: 05:21:27 End Time: 15:55:52

Capacity: 8000.00 psig
Last Calib.: 2020.05.27
Time On Btm:
Time Off Btm:

TEST COMMENT: IF:BOB in 1 min. Gas to surface in 3 min.
IS: Never bled off.
FF: Gauged gas
FS: Never bled off.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
124.00	mcw 90%w 10%m	0.61
378.00	Top of recovery gocw m 30%g 10%o 10%4.2250%	

* Recovery from multiple tests

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.75	29.00	677.90
Last Gas Rate	0.75	15.34	104.01
Max. Gas Rate	0.75	36.26	177.18

DRILL STEM TEST REPORT

FLUID SUMMARY

Red Oak

7701 E Kellogg Dr Ste 710
Wichita, Ks 67207

ATTN: Ryan Davis

14-16-42 Greeley Ks

JHT 1-14

Job Ticket: 66633 **DST#: 1**

Test Start: 2020.05.27 @ 05:21:45

Mud and Cushion Information

Mud Type:	Gel Chem	Cushion Type:		Oil API:	0 deg API
Mud Weight:	9.00 lb/gal	Cushion Length:	ft	Water Salinity:	34000 ppm
Viscosity:	62.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	7.99 in³	Gas Cushion Type:			
Resistivity:	0.00 ohm.m	Gas Cushion Pressure:	psig		
Salinity:	3400.00 ppm				
Filter Cake:	1.00 inches				

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
124.00	mcw 90%w 10%m	0.610
378.00	Top of recovery gocw m 30%g 10%o 10%w	4.218

Total Length: 502.00 ft Total Volume: 4.828 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments: .18@83=34000

DRILL STEM TEST REPORT

GAS RATES

Red Oak

7701 E Kellogg Dr Ste 710
Wichita, Ks 67207

ATTN: Ryan Davis

14-16-42 Greeley Ks

JHT 1-14

Job Ticket: 66633 **DST#: 1**

Test Start: 2020.05.27 @ 05:21:45

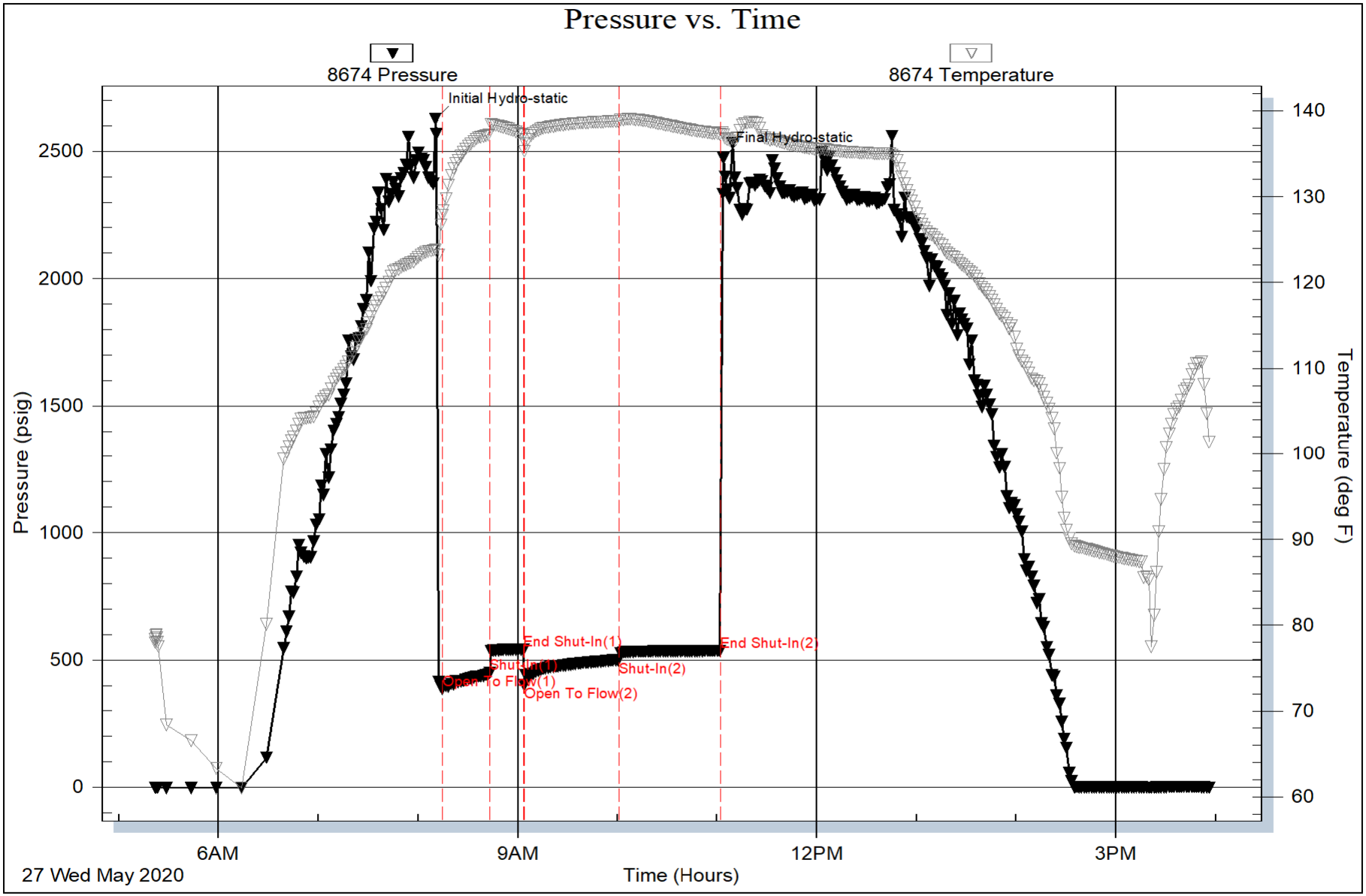
Gas Rates Information

Temperature: 120 (deg F)
Relative Density: 11.6
Z Factor: 0.8

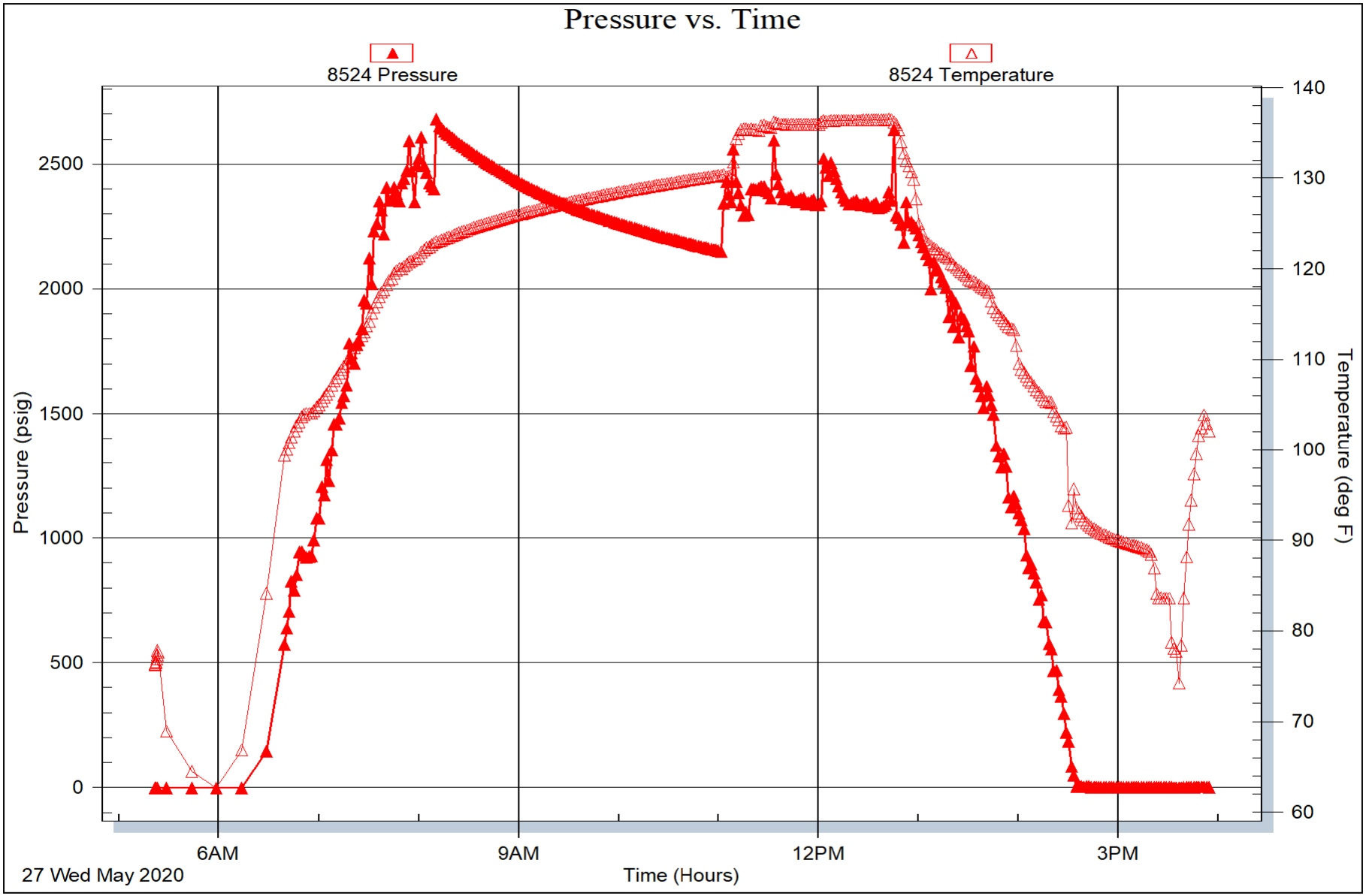
Gas Rates Table

Flow Period	Elapsed Time	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
1	10	0.75	29.00	677.90
1	10	0.75	29.00	151.79
1	10	0.75	29.00	151.79
1	20	0.75	36.26	177.18
1	30	0.75	33.99	169.24
2	10	0.75	15.00	102.82
2	20	0.75	24.85	137.27
2	30	0.75	19.86	119.82
2	40	0.75	15.34	104.01

Serial #: 8674 **Outside** Red Oak JHT 1-14 DST Test Number: 1

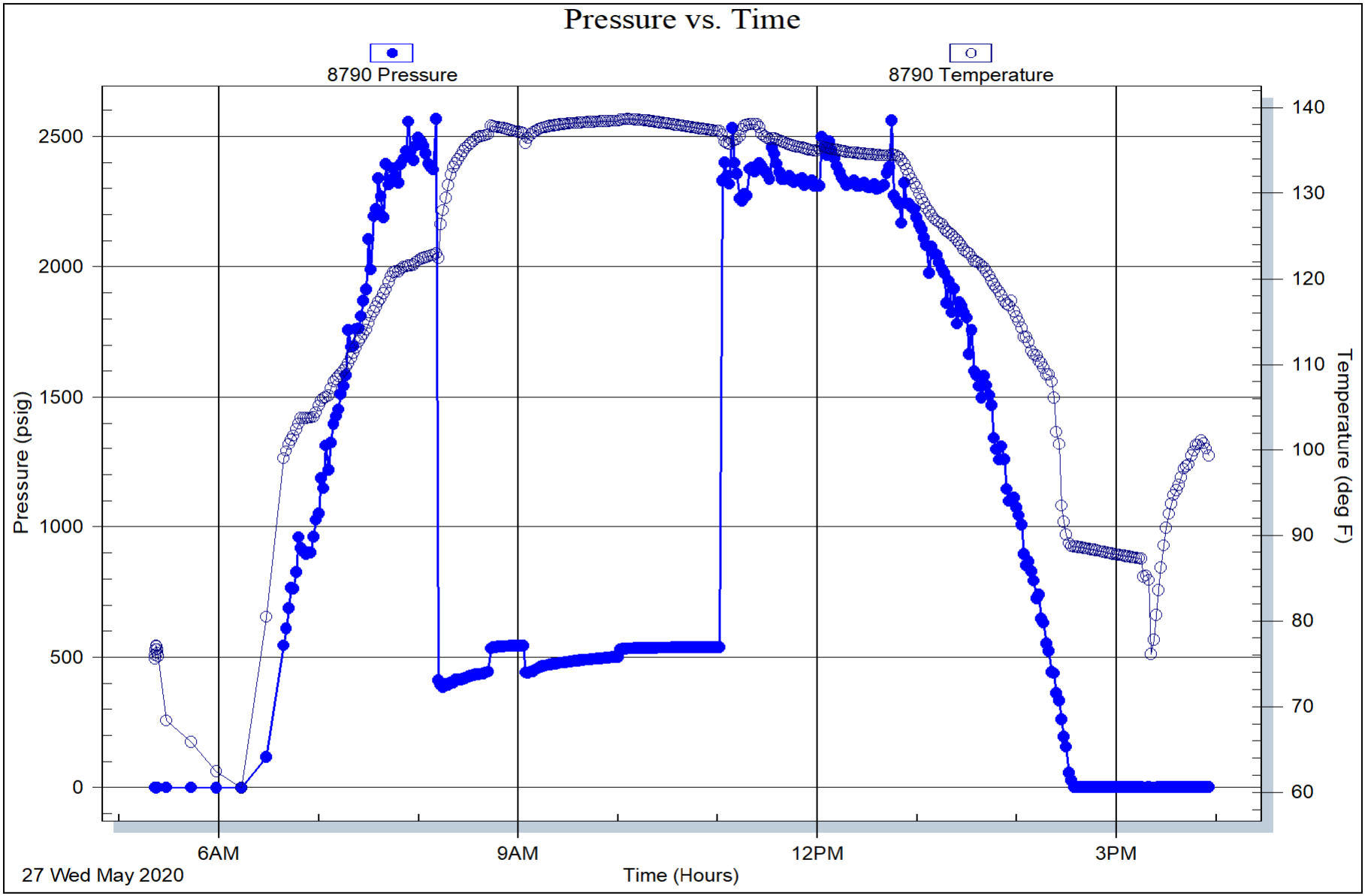


Serial #: 8524 **Below (Straddle)** Redoak JHT 1-14 DST Test Number: 1



Trilobite Testing, Inc Ref. No: 66633 Printed: 2020.05.27 @ 17:19:14

Serial #: 8790 **Inside** Red Oak JHT 1-14 DST Test Number: 1



Trilobite Testing, Inc Ref. No: 66633 Printed: 2020.05.27 @ 17:19:14

SWIFT Services, Inc.

CHARGE TO: Red Oak Energy
ADDRESS
CITY, STATE, ZIP CODE

TICKET 033154

PAGE 1 OF

SERVICE LOCATIONS	WELL/PROJECT NO.	LEASE	COUNTY/PARISH	STATE	CITY	DATE	OWNER
1. Hays Ks	1-14	JHT	Greeley	KS		5-28-2020	
2. Ness City Ks	TICKET TYPE ☐ SERVICE ☐ SALES	CONTRACTOR	RIG NAME/NO.	SHIPPED VIA	DELIVERED TO	ORDER NO.	
3.		Murfin	Rig 21	CT	Location		
4.	WELL TYPE	WELL CATEGORY	JOB PURPOSE		WELL PERMIT NO.	WELL LOCATION	
	Oil	development	long String				
REFERRAL LOCATION	INVOICE INSTRUCTIONS						

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING LOC	ACCT	DF	DESCRIPTION	QTY.	U/M	QTY.	U/M	UNIT PRICE	AMOUNT
575		1			MILEAGE Trk # 111	100	Mi			5 40	500 00
578		1			Pump Charge - long String	1	EA			1400	1400 00
290		1			D-Air	2	GAL			42 00	84 00
281		1			Mudflush	500	Gal			1 50	750 00
221		1			Liquid KCL	4	GAL			25 50	100 40
403		1			Cement Basket	3	EA	5 1/2		275 00	825 00
404		1			port Collar	1	EA			2500 00	2500 00
406		1			Latch Down Plug & Baffle	1	EA			250 00	250 00
407		1			Insert Float Shoe	1	EA			325 00	325 00
409		1			Turbolizer	8	EA			90 00	720 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	AGREE	UNDECIDED	DISAGREE
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

☐ CUSTOMER DID NOT WISH TO RESPOND

PAGE TOTAL P.1	7454 00
P.2	5542 25
TOTAL	12996 25
-1944	51
15% Disc	11047 24
TAX Greeley	624 69
TOTAL	11671 93

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

SWIFT OPERATOR David Edgerton | APPROVAL

Thank You!

SWIFT Services, Inc.

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

TICKET CONTINUATION

TICKET No. 33154

CUSTOMER: Red Oak Energy | WELL: JHT 1-14 | DATE: 5-28-20 | PAGE | OF

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING LOC	ACCT	DF	TIME	DESCRIPTION	QTY	U/M	QTY	U/M	UNIT PRICE	AMOUNT
325		2				Standard Cement	175	sks			13 50	2362 50
284		2				Calseal	8	sks			40 00	320 00
283		2				Salt	950	lbs			25	237 50
292		2				Halad 322	150	lbs			8 50	1275 00
276		2				Florele	50	lbs			3 00	150 00
581		2				SERVICE CHARGE Cement	CUBIC FEET 175 sks				1 85	323 75
583		2				MILEAGE CHARGE TOTAL WEIGHT 18400 LOADED MILES 100	TON MILES 920				95	874 00

CONTINUATION TOTAL 5542.25

JOB LOG

SWIFT Services, Inc.

DATE 5-28-20 | PAGE NO.

CUSTOMER Red Oak Energy | WELL NO. 1-14 | LEASE JHT | JOB TYPE Long String | TICKET NO. 33154

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS T	PUMPS C	PRESSURE (PSI) TUBING	PRESSURE (PSI) CASING	DESCRIPTION OF OPERATION AND MATERIALS
	230							On location
								Csg - 5 1/2 x 15#
								RTD - 5160'
								Baskets - 2, 7, 60
								Centralizers - 1-7 & 59
								Port Collar - 60'
230	~~230~~							
								Start Running Csg
	600							Circ on JT 60
		2.5	8			0		Break Circ on Bottom
		2.5	4			0		plug rat hole - 30 sks
								plug mouse hole - 20 sks
	700	5	12			300		pump mudflush - 500 gal
		5	20			300		pump KCl spacer
		5	~~30~~			500		pump CMT -
								Drop plug - Wash Pal
		6.5	0			300		Start Disp.
			50			300		start Recipo
			95			800		End Recipo
	800		120			1200/1700		land plug Lift psi - 1200#
								Hold psi - 1700#
								Release psi - Dry
								Job Complete
								Thanks
								Davis, Zach & Isaac

MUD LOG
WellSight Systems

Scale 1:240 (5"=100') Imperial
Measured Depth Log

Well Name:	JHT #1-14		
API:	15-071-20893		
Location:	NE SE SW SE Sec 14-16S-42W		
License Number:		Region:	
Spud Date:	5/20/2020	Drilling Completed:	5/27/2020
Surface Coordinates:	NAD27 Long: -101.9245778 NAD27 Lat: 38.6562018		
Bottom Hole Coordinates:			
Ground Elevation (ft):	3794	K.B. Elevation (ft):	3805
Logged Interval (ft):	3900 To: 5160	Total Depth (ft):	5160
Formation:	Mississippian		
Type of Drilling Fluid:	Chemical Mud		

Printed by MudLog from WellSight Systems 1-800-447-1534 www.WellSight.com

OPERATOR

Company: Red Oak Energy, Inc.
Address: 7701 E. Kellogg
STE 710
Wichita, KS 67207

GEOLOGIST

Name: Ryan Davis
Company:
Address:

Cores

No Cores

DSTs

DST #1 Upper Morrow Sand 4930' – 4983'. 30-20-60-60 mins. IF: BOB in 1 min, GTS in 3 min (MCF/D 10 min: 151 / 20 min: 173 / 30 min: 16). IFPs: 386-450# ISI: Never bled off. FF: GTS (10 mi: 102 / 20 min: 134 / 30 min: 117 / 40 min: 102 / 50 min: 94) FFPs: 400-499#. FSI: Never bled off. SIPs: 537-531#. Rec: 378' GOCWM (30% G, 10% O, 10% W, 50 %M), 124' MCW (90% W, 10% M).

Comments

After discussions with partners the decision was made to further test Morrow Ss through casing. A port collar was ran so the majority of the csg could be recovered if further testing did not yield positive results.

5/28/20 – RIH w 118 jts 5 ½" 15.5# used csg from Sunrise. Swift cement w 125 sx EA2. PBTD @ 5112', PC @ 2683'. Released Murfin Rig 21.

ROCK TYPES

Cht Dol Meta Shcol Till

ACCESSORIES

MINERAL
Anhy
Arggrn
Arg
Bent
Bit
Brecfrag
Calc
Carb
Chtdk
Chtlt
Dol
Feldspar
Ferrpel
Ferr
Glau
Gyp
Hvymin
Kaol
Marl
Minxl
Nodule
Phos
Pyr
Salt
Sandy
Silt
Sil
Sulphur
Tuff

FOSSIL
Algae
Amph
Belm
Bioclst
Brach
Bryozoa
Cephal
Coral
Crin
Echin
Fish
Foram
Fossil
Gastro
Oolite
Ostra
Pelec
Pellet
Pisolite
Plant
Strom

STRINGER
Anhy
Arg
Bent
Coal
Dol
Gyp
Ls
Mrst
Sltstrg
Ssstrg

TEXTURE
Boundst
Chalky
Cryxln
Earthy
Finexln
Grainst
Lithogr
Microxln
Mudst
Packst
Wackest

OTHER SYMBOLS

POROSITY
Earthy
Fenest
Fracture
Inter
Moldic
Organic
Pinpoint
Vuggy

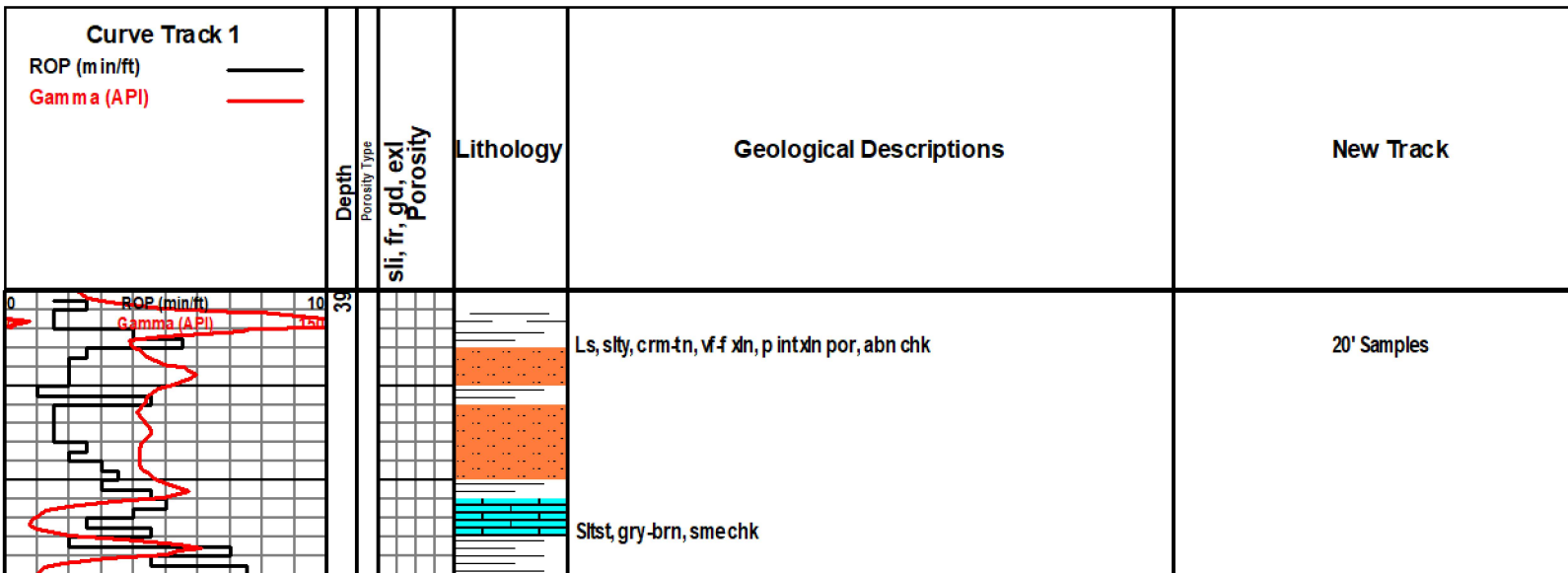
SORTING
Well
Moderate
Poor

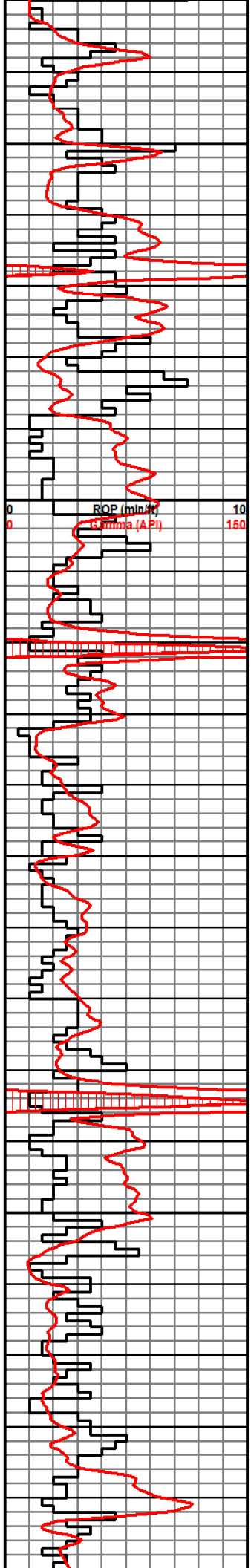
ROUNDING
Rounded
Subrnd
Subang
Angular

OIL SHOW
Even
Spotted
Ques
Dead

INTERVAL
Core
Dst

EVENT
Rft
Sidewall





Chk

Ls, crm-tn, intclas, vf-f xln, v p por, Dol, gry, suc, vf-f xln, p-fr intxln por, no odr, NS, chky, Sh, blk

Ls, crm-tn, dns, mic-vf xln, no vis por

Sh, rd, Sltst, dk rd, Ls, tn, vf xln, v p intxln por

Sh, blk, carb, gry, Ls, tn, f-med xln, p int xln por, sli Dol, gy, suc, vf xln, p intxln por, no odr, NS

Ls, tn, oomol, fr ooc por, f xln, v p intxln por, no odr, NS

Ls, crm, f-med xln, v p intxln por

———— Heebner 4082 (-277)

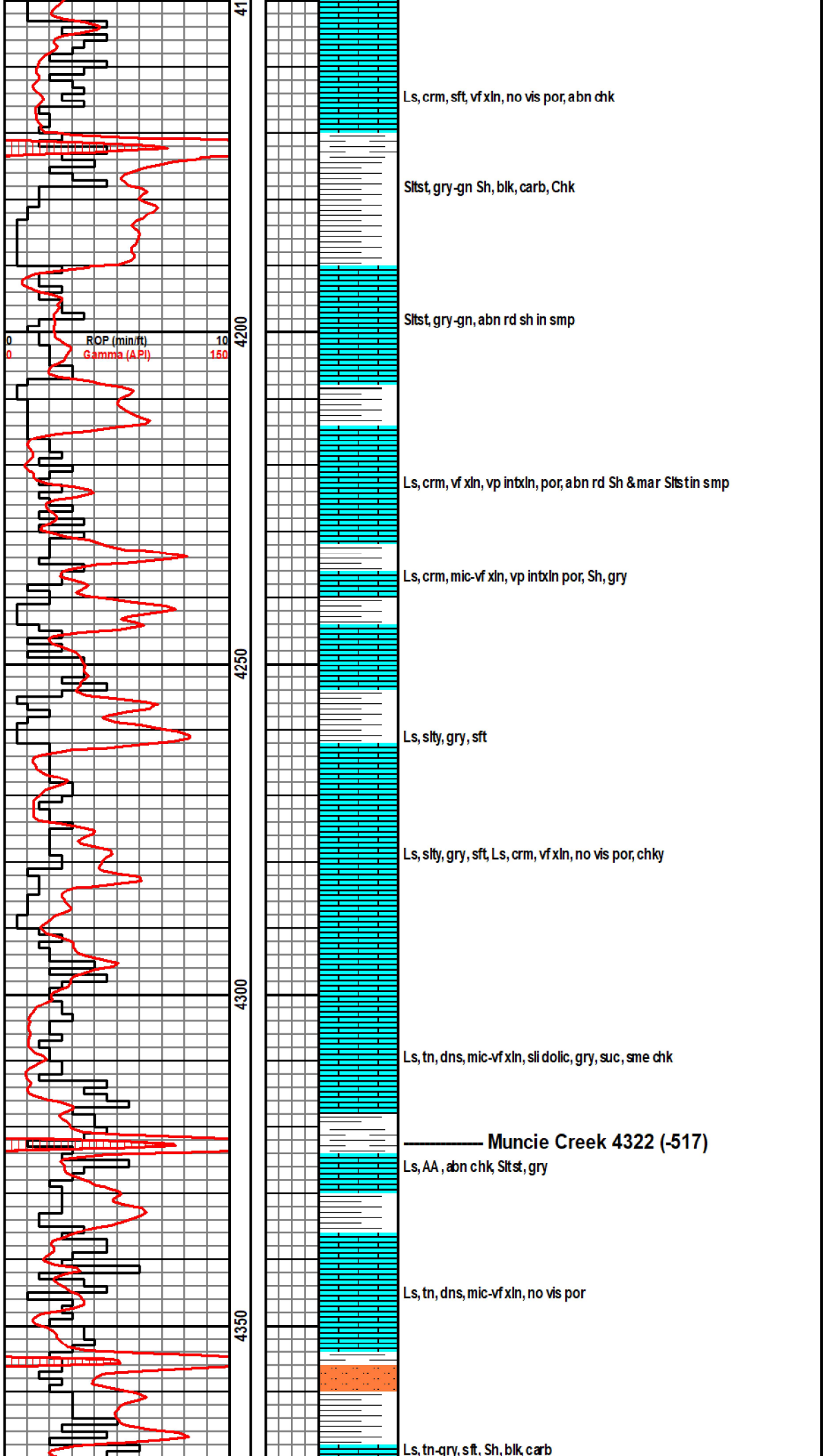
Ls, crm-tn, sft, vf xln, chky, Sh, blk, carb

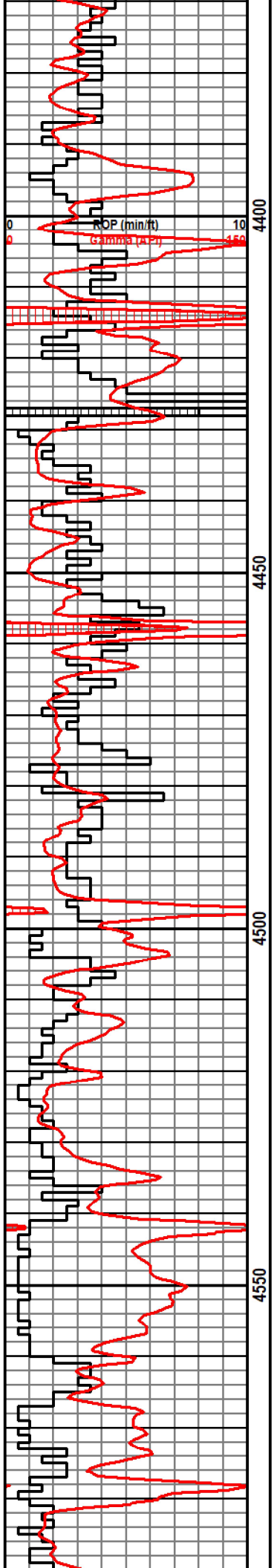
Sltst, gry-gn, Sh, blk-gy

Ls, crm-wh, sft, vf xln, abn chk

———— Lansing 4142 (-337)

Ls, tn, dns, mic xln, no vis por, Ls, slty, tn-gry, sli chky


0
ROP (min/ft)
10
0
Gamma (API)
150
4200
4250
4300
4350
Ls, crm, sft, vf xln, no vis por, abn chk
Sltst, gry-gn Sh, blk, carb, Chk
Sltst, gry-gn, abn rd sh in smp
Ls, crm, vf xln, vp intxln, por, abn rd Sh &mar Sltstin smp
Ls, crm, mic-vf xln, vp intxln por, Sh, gry
Ls, slty, gry, sft
Ls, slty, gry, sft, Ls, crm, vf xln, no vis por, chky
Ls, tn, dns, mic-vf xln, sli dolic, gry, suc, sme chk
Muncie Creek 4322 (-517)
Ls, AA , abn chk, Sltst, gry
Ls, tn, dns, mic-vf xln, no vis por
Ls, tn-gry, sft, Sh, blk, carb



Ls, tn-gry, dns, vf xln vp intxln por, foss, no odr, NS

Sltst, gry, sft, Sh, blk, carb, gry, sme chk

---------- Stark 4412 (-607)

Wrk on Dwks

Sltst, AA , Sh, AA , chky

Chk, wh-tn, plty, sft

Ls, dolic, tn-gry, mic-vf xln, vp intxln por, abn chk AA

Ls, crm-tn, dns, f-med xln, p intxln por, chky, no odr, NS

---------- Base Kansas City 4496 (-691)

Sh, blk, carb, gry, Ls, tn dns, fxln, no vis por

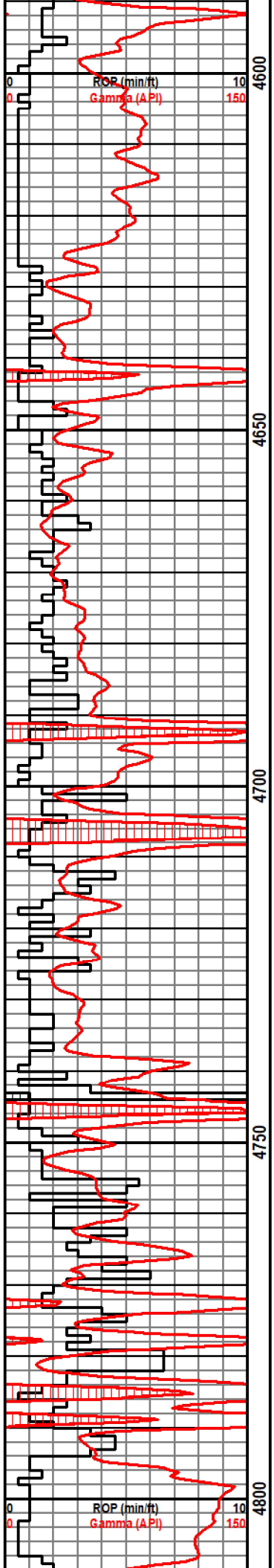
Sltst, gry, sft, Sh, gry

Ls, tn, clas, f-med xln, p intxln por, no odr, NS

Ls, tn, ooc, vggy por, vf xln, p intxln por, chky, no odr, NS

Sh, slty, gry, sft, Ls, slty, gry, sft

Sltst, gry, sft, Qtz, trnsl, sbang, vf grn, p intgrn por, calc cmt, no odr, NS



Sh, slty, gry, sft, Ls, slty, gry, sft

Sltst, gry, sft, Ls, tn, dns, mic xln, no vis por

Ls, dolic, gry, vf xln, vp intxln por, Sltst, gry, sft

Ls, AA , Micr, tn-brn, dns

Ls, slty, gry, sft, Sh, gry-blk

Switch to 10 ft samples

Ls, dolic, gry, f-med xln, p intxln por, Sltst, gry, sft

———— Cherokee 4704 (-899)

Sh, blk, carb

Sh, blk, carb, Sltst, lt gry, sft

Ls, tn-gry, dns, mic-vf xln, no vis por, Sltst, AA

Ls, dolic, sli slty, vf xln, p intxln Por

Ls, AA

Sltst, gry, Sh, blk, carb

Sltst, gy, Ls, tn, dns, Sh, blk, carb

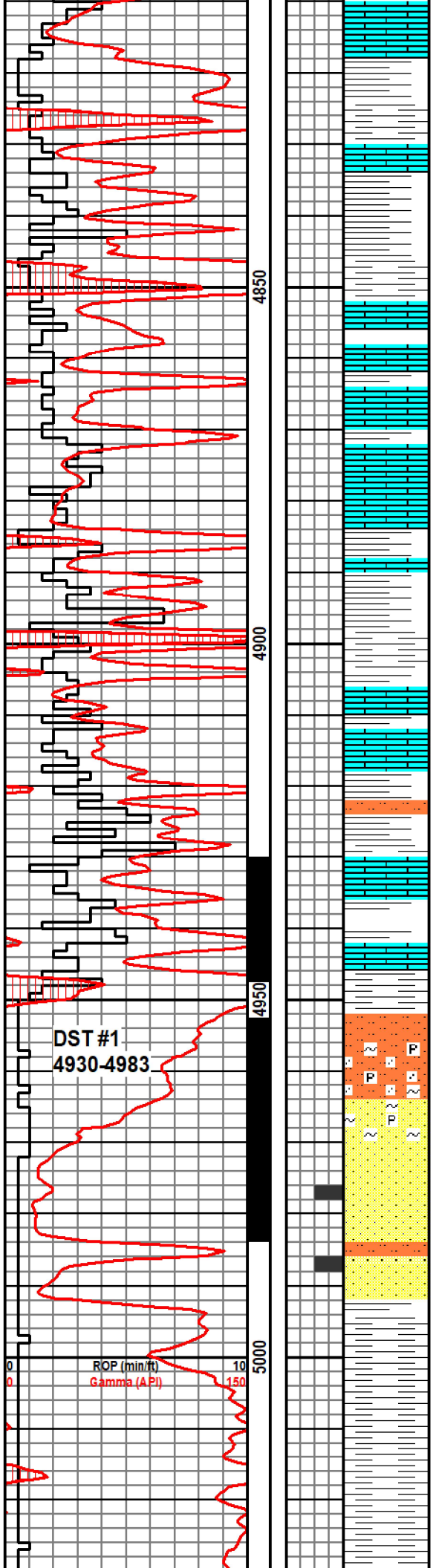
AA

Ls, crm-tn, dns, mic-f xln, no vis por, Sh, blk-gry

Sh, blk, carb, gry-gn, uncons clas, med grn, slty gy mtrx, sme pyr

Sh, blk-gry-gn-brn, Ls, tn, spry, foss, vf xln, no vis por

Atoka 4810 (-1005)



Sh,A A, Ls, tn, micr, dns

———— Atoka 4810 (-1005)

Sh, blk-gry

Sh, blk-gry, Ls, slty, gry-tn, spry, no vis por

AA

Ls, dolic, tn-gry, dns, vf-fxln, p intxln por, chky, Sh, blk

Ls, slty, gy, sft, chky

Sh, blk, elong, Ls, dolic, gy, dns, vfxln, no vis por

Ls, tn, dns, foss, micr, dns, Sh, blk, pyr incl, sme Qtz grns, opq

Qtz, opq-trnsl, f grn, vp intgran por, wh calc cmt, Sh, blk-gn, elong

Sh, blk-gry-gn, Ls, tn-gry, mic xln

Qtz Ss, wh-trnsl, rndd, fr srtd, vf-f grn, pp por, no stn, no fluor, no odr, NS

Sh, blk-gry-grn, Sltst, wh-gn, sft, Ls, tn-brn, mic xln, no vis por

Ls, tn-brn, mic xln, no vis por

Sh, blk-gry, Qtz Ss, opq-trnsl, f grn, rndd, w srtd, sm clus, v ti, vp intgran por, sli fluor, no odr, no stn, NS

———— Morrow Sh 4948 (-1143)

Qtz Ss, opq-trnsl, f grn, rndd, w srtd, sm clus, v ti, vp intgran por, sli fluor, no odr, no stn, NS

Qtz Ss, AA

Qtz Ss, opq-trnsl, f-med grn, sbrndd, w srtd, sm clus, v ti, vp intgran por, miceous, glaucitic, sme pyr incl, gd fluor, no odr, no stn, NS

Qtz Ss, trnsl, f-med grn, rndd, w srtd, sm clus, sme sli fri, fr intgran por, gd fluor, sli odr, gd cut, SSFO

Qtz Ss, trnsl, f-med grn, rndd, w srtd, sm clus, sme sli fri, fr intgran por, gd fluor, fr odr, gd cut, SSFO

Sh, blk-gry, grn

Sh, gry-grn, slty

TOOH to Collars

DST #1

Upper Morrow Sand 4930' – 4983' 30-20-60-60 mins.

IF: BOB in 1 min, GTS in 3 min (MCF/D 10 min: 151 / 20 min: 173 / 30 min: 16)

IFPs: 386-450# ISI: Never bled off. FF: GTS (10 mi: 102 / 20 min: 134 / 30 min: 117 / 40 min: 102 / 50 min: 94)

FFPs: 400-499#. FSI: Never bled off. SIPs: 537-531#

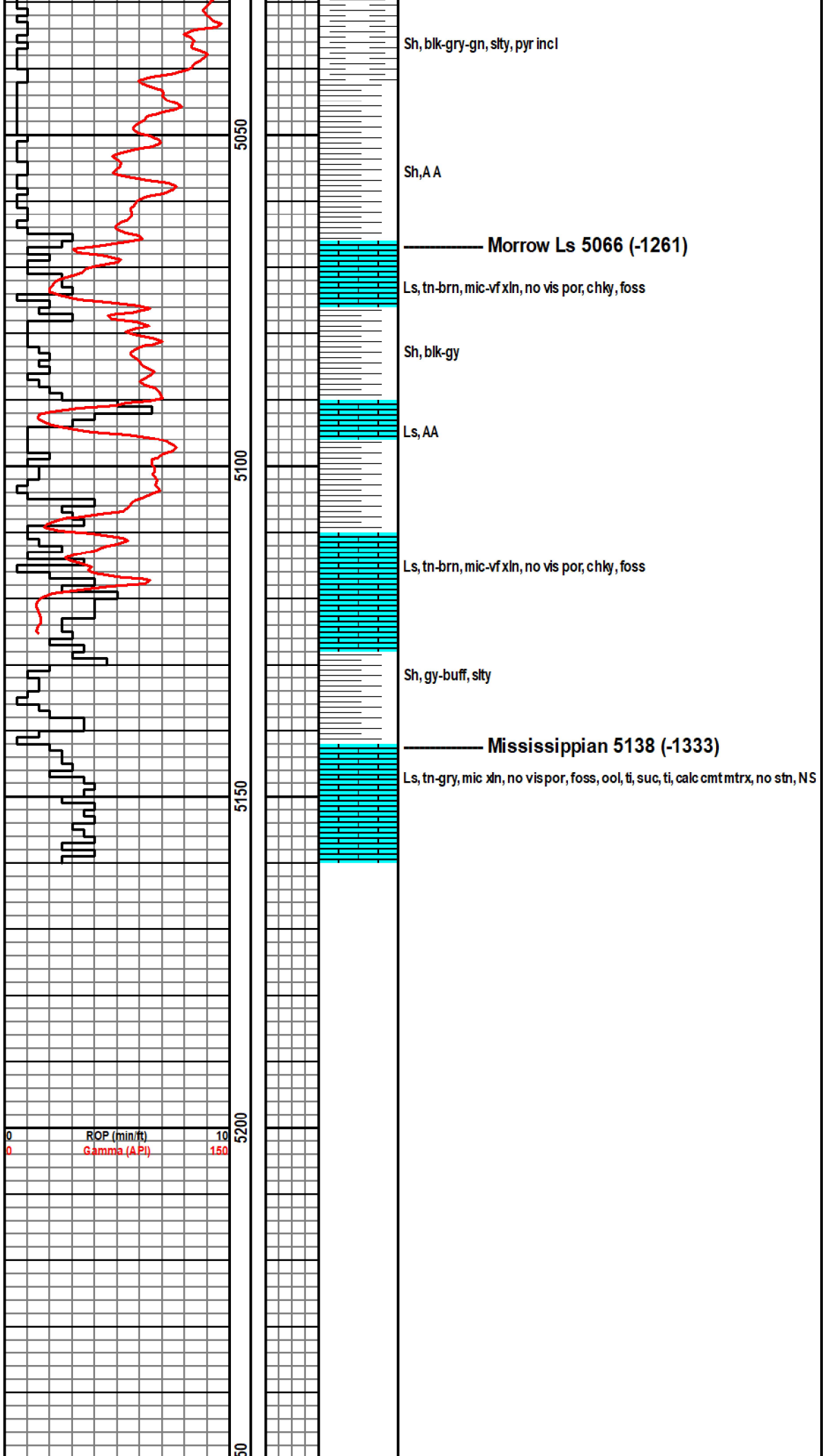
Rec: 378' GOCWM (30% G, 10% O, 10% W, 50 %M), 124' MCW (90% W, 10% M).

CFS 20/40/60/75

Upper Morrow Ss 4968 (-1163)

CFS 20/40/60

CFS 20/40/60


5050
5100
5150
5200
0
ROP (min/ft)
10
0
Gamma (API)
150
Sh, blk-gry-gn, slty, pyr incl
Sh,A A
Morrow Ls 5066 (-1261)
Ls, tn-brn, mic-vf xln, no vis por, chky, foss
Sh, blk-gy
Ls, AA
Ls, tn-brn, mic-vf xln, no vis por, chky, foss
Sh, gy-buff, slty
Mississippian 5138 (-1333)
Ls, tn-gry, mic xln, no vis por, foss, ool, ti, suc, ti, calc cmt mtrx, no stn, NS
RTD 5160
LTD 5162

Schlumberger BlueView :