

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	Red Oak Energy, Inc.
Well Name	HILT-CUMMINS 1-11
Doc ID	1594634

Tops

Name	Top	Datum
B/Niobrara	1670	2052
B/Anhy	3710	12
Topeka	4442	-720
Lansing	4622	-900
Muncie Creek	4792	-1070
Stark	4870	-1148
BKC	4962	-1240
Marmaton	5024	-1302
Pawnee	5060	-1338
Cherokee	5141	-1419



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Red Oak Energy Inc.
7701 E Kellogg Dr STE 710
Wichita, KS 67207
ATTN: Ryan Davis

11/2s/42w Cheyenne KS
Hilt - Cummins #1-11
Job Ticket: 66703 **DST#: 1**
Test Start: 2021.09.14 @ 11:11:00

GENERAL INFORMATION:

Formation: **LKC "A"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 13:43:06
Time Test Ended: 18:38:36
Interval: **4585.00 ft (KB) To 4678.00 ft (KB) (TVD)**
Total Depth: 4733.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Test Type: Conventional Straddle (Initial)
Tester: James Winder
Unit No: 73
Reference Elevations: 3722.00 ft (KB)
3717.00 ft (CF)
KB to GR/CF: 5.00 ft

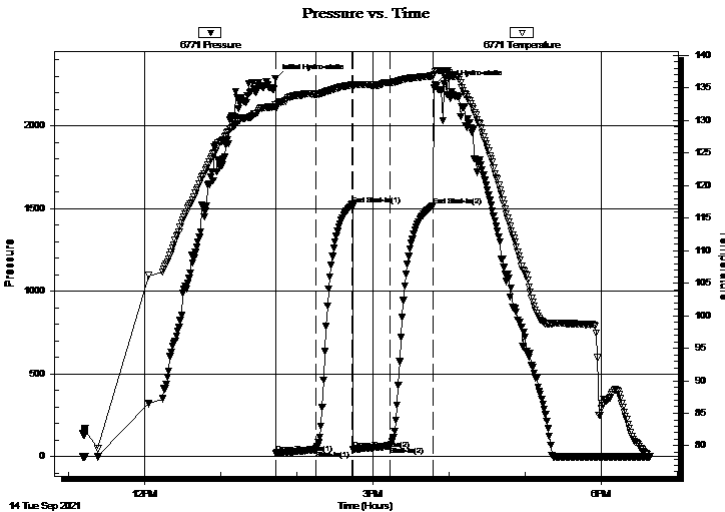
Serial #: 6771

Inside

Press@RunDepth: 63.34 psig @ 4586.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2021.09.14 End Date: 2021.09.14 Last Calib.: 2021.09.14
Start Time: 11:11:01 End Time: 18:38:36 Time On Btm: 2021.09.14 @ 13:42:51
Time Off Btm: 2021.09.14 @ 15:48:51

TEST COMMENT: 30 - IF: 1/4" Blow at open, built to 1 3/4"
30 - IS: No blow back
30 - FF: Blow built to 1 1/4"
30 - FS: No blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2285.63	132.42	Initial Hydro-static
1	20.44	131.99	Open To Flow (1)
32	40.30	134.00	Shut-In(1)
61	1525.62	135.42	End Shut-In(1)
62	45.89	135.10	Open To Flow (2)
91	63.34	135.77	Shut-In(2)
125	1518.13	136.83	End Shut-In(2)
126	2252.17	137.49	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	HOCM 66% _m , 32% _o , 2% _g	0.30
30.00	SMCO 94% _o , 4% _m , 2% _g	0.15

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Red Oak Energy Inc.
7701 E Kellogg Dr STE 710
Wichita, KS 67207
ATTN: Ryan Davis

11/2s/42w Cheyenne KS
Hilt - Cummins #1-11
Job Ticket: 66703 **DST#: 1**
Test Start: 2021.09.14 @ 11:11:00

GENERAL INFORMATION:

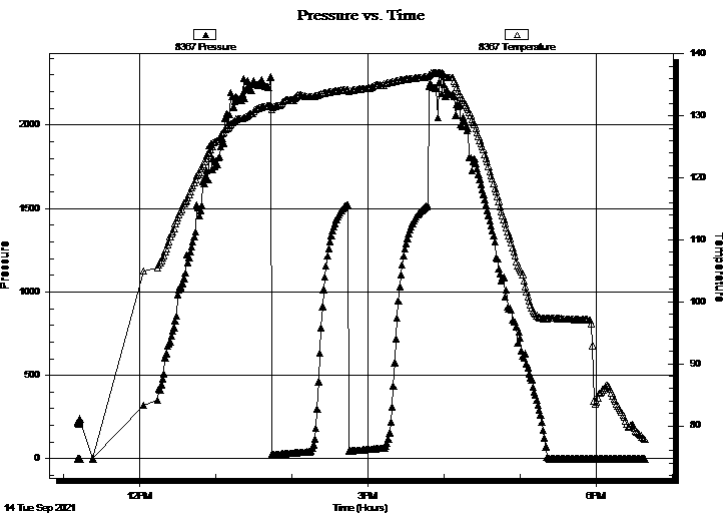
Formation: **LKC "A"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 13:43:06
Time Test Ended: 18:38:36
Test Type: Conventional Straddle (Initial)
Tester: James Winder
Unit No: 73
Interval: **4585.00 ft (KB) To 4678.00 ft (KB) (TVD)**
Reference Elevations: 3722.00 ft (KB)
Total Depth: 4733.00 ft (KB) (TVD)
3717.00 ft (CF)
Hole Diameter: 7.88 inches Hole Condition: Fair
KB to GR/CF: 5.00 ft

Serial #: 8367

Outside

Press@RunDepth: psig @ 4586.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2021.09.14 End Date: 2021.09.14 Last Calib.: 2021.09.14
Start Time: 11:11:01 End Time: 18:38:06 Time On Btm:
Time Off Btm:

TEST COMMENT: 30 - IF: 1/4" Blow at open, built to 1 3/4"
30 - IS: No blow back
30 - FF: Blow built to 1 1/4"
30 - FS: No blow back



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
60.00	HOCM 66% _m , 32% _o , 2% _g	0.30
30.00	SMCO 94% _o , 4% _m , 2% _g	0.15

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Red Oak Energy Inc.

11/2s/42w Cheyenne KS

7701 E Kellogg Dr STE 710
Wichita, KS 67207

Hilt - Cummins #1-11

Job Ticket: 66703

DST#: 1

ATTN: Ryan Davis

Test Start: 2021.09.14 @ 11:11:00

GENERAL INFORMATION:

Formation: **LKC "A"**

Deviated: No Whipstock: ft (KB)

Test Type: Conventional Straddle (Initial)

Time Tool Opened: 13:43:06

Tester: James Winder

Time Test Ended: 18:38:36

Unit No: 73

Interval: **4585.00 ft (KB) To 4678.00 ft (KB) (TVD)**

Reference Elevations: 3722.00 ft (KB)

Total Depth: 4733.00 ft (KB) (TVD)

3717.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8700 **Inside**

Press@RunDepth: psig @ 4679.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2021.09.14 End Date: 2021.09.14

Last Calib.: 2021.09.14

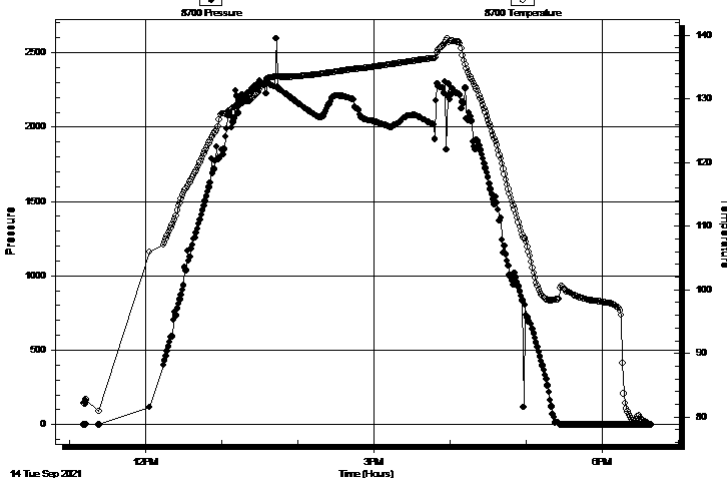
Start Time: 11:11:01 End Time: 18:38:06

Time On Btm:

Time Off Btm:

TEST COMMENT: 30 - IF: 1/4" Blow at open, built to 1 3/4"
30 - IS: No blow back
30 - FF: Blow built to 1 1/4"
30 - FS: No blow back

Pressure vs. Time



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
60.00	HOCM 66% _m , 32% _o , 2% _g	0.30
30.00	SMCO 94% _o , 4% _m , 2% _g	0.15

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Red Oak Energy Inc.

11/2s/42w Cheyenne KS

7701 E Kellogg Dr STE 710
Wichita, KS 67207

Hilt - Cummins #1-11

Job Ticket: 66703

DST#: 1

ATTN: Ryan Davis

Test Start: 2021.09.14 @ 11:11:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

21.6 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 58.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.97 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 800.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	HOCM 66%m, 32%o, 2%g	0.295
30.00	SMCO 94%o, 4%m, 2%g	0.148

Total Length: 90.00 ft Total Volume: 0.443 bbl

Num Fluid Samples: 0

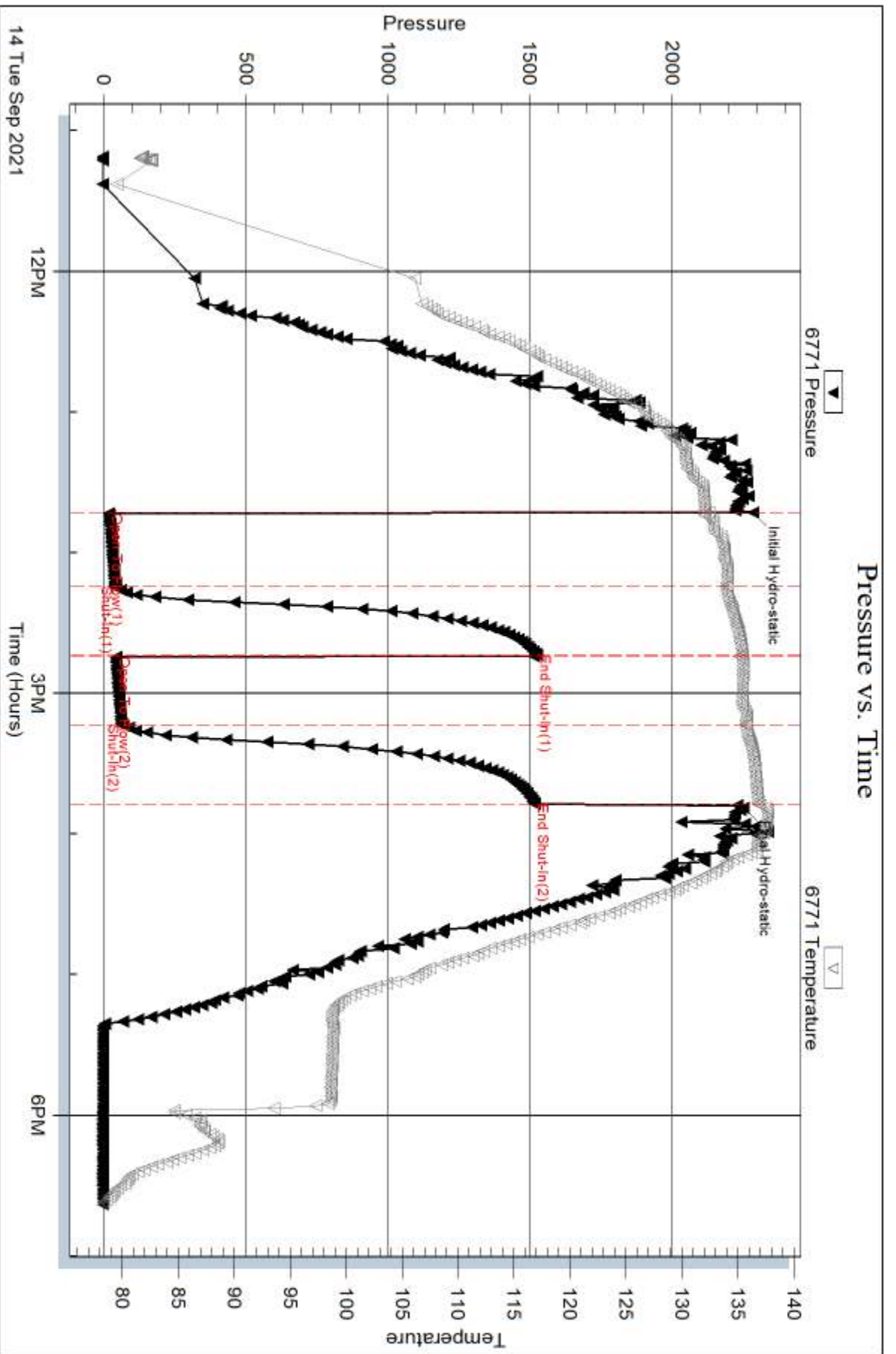
Num Gas Bombs: 0

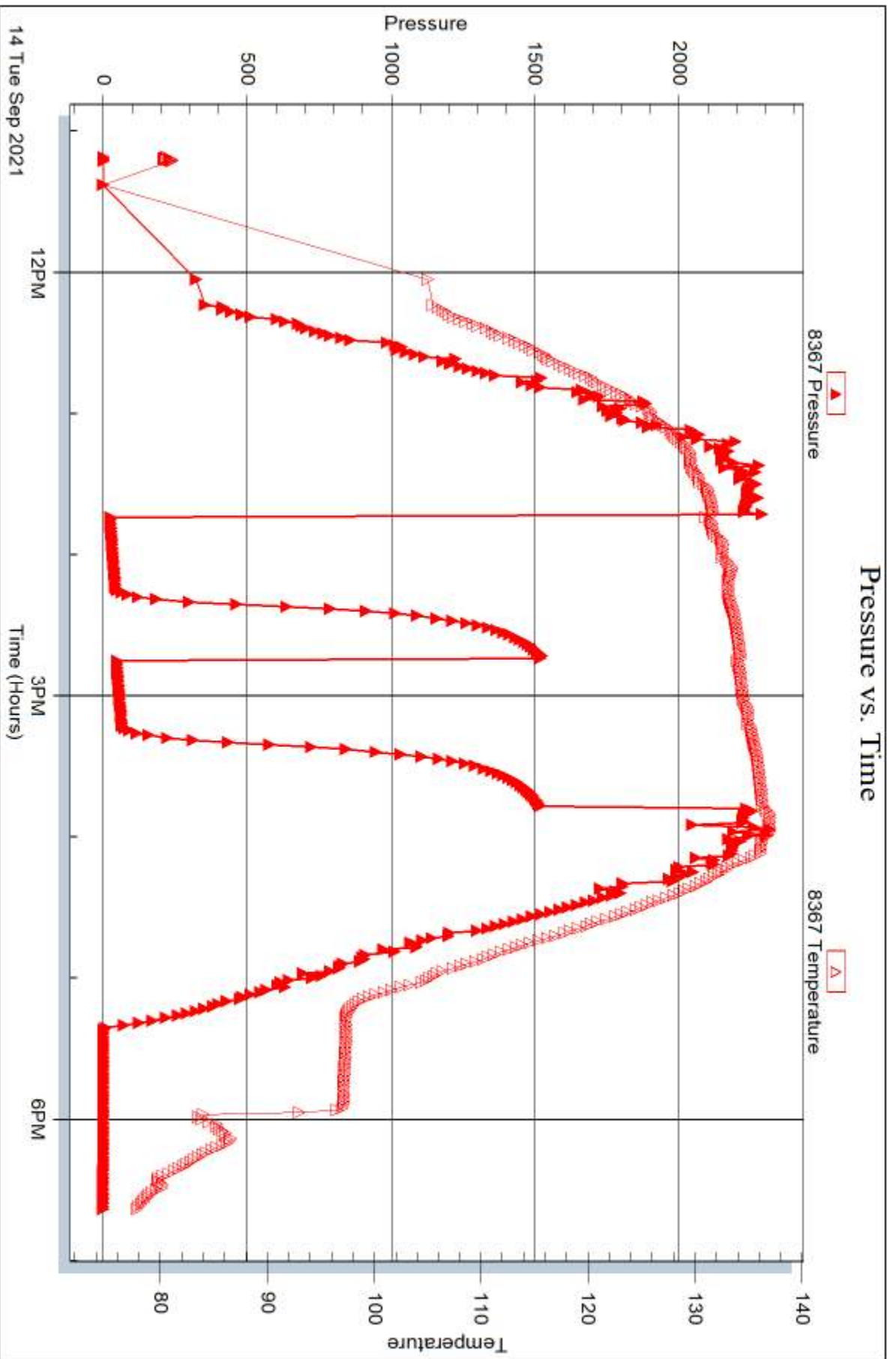
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Gravity = 24.4 api @ 88 deg F Corrected Gravity = 21.6 api





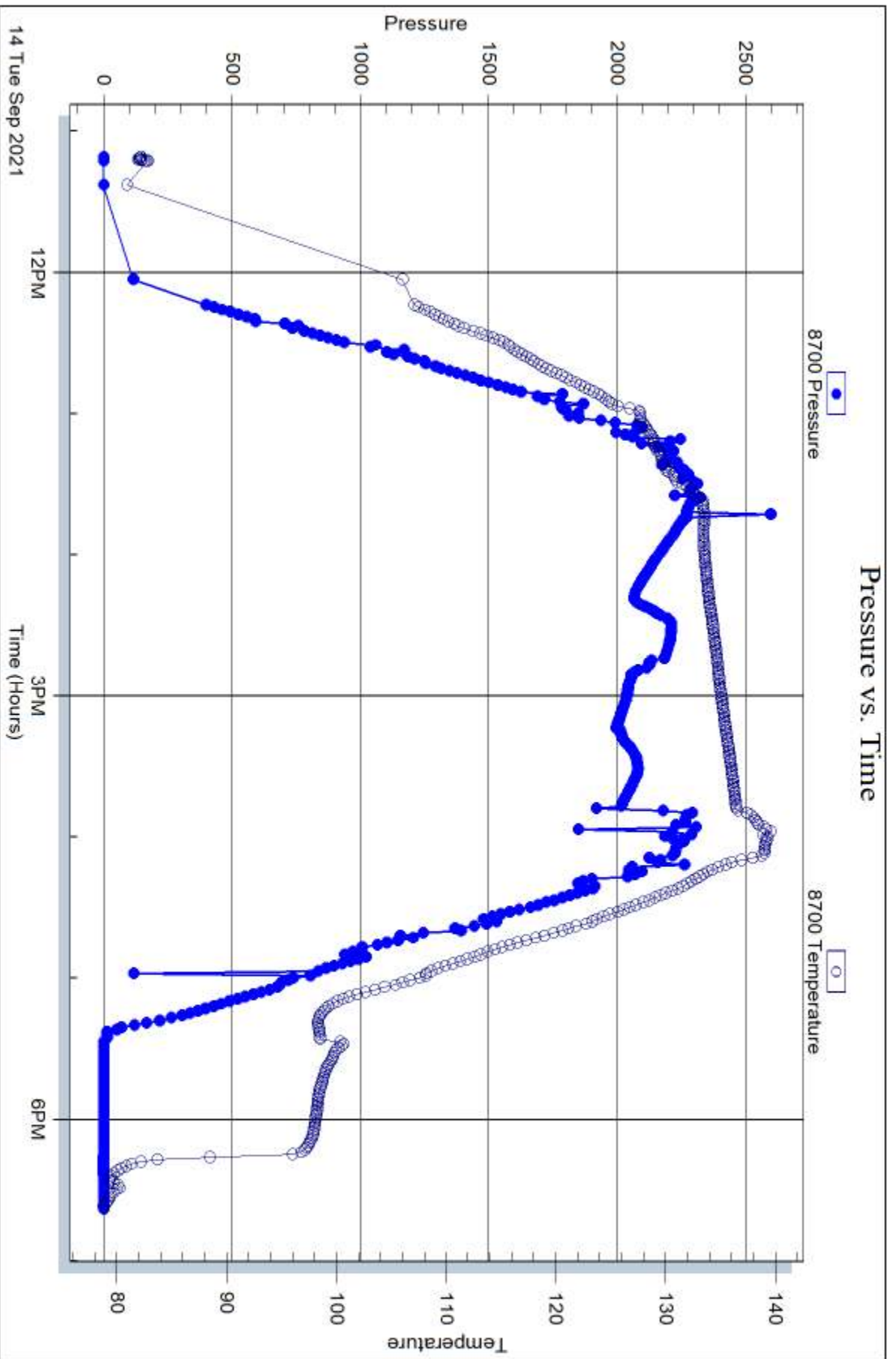
Serial #: 8700

Inside

Red Oak Energy Inc.

Hilt - Cummins #1-11

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 66703

Printed: 2021.09.17 @ 15:46:13



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Red Oak Energy Inc.
7701 E Kellogg Dr STE 710
Wichita, KS 67207
ATTN: Ryan Davis

11/2s/42w Cheyenne KS
Hilt - Cummins #1-11
Job Ticket: 66704 **DST#: 2**
Test Start: 2021.09.15 @ 22:00:00

GENERAL INFORMATION:

Formation: **LKC "H - L"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 00:33:51
Time Test Ended: 05:47:21
Interval: **4775.00 ft (KB) To 4966.00 ft (KB) (TVD)**
Total Depth: 4966.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Test Type: Conventional Bottom Hole (Initial)
Tester: James Winder
Unit No: 73
Reference Elevations: 3722.00 ft (KB)
3717.00 ft (CF)
KB to GR/CF: 5.00 ft

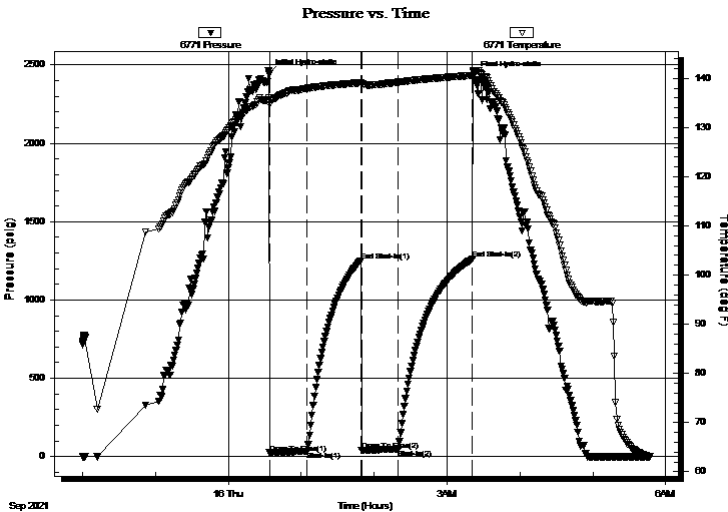
Serial #: 6771

Inside

Press@RunDepth: 47.38 psig @ 4776.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2021.09.15 End Date: 2021.09.16 Last Calib.: 2021.09.16
Start Time: 22:00:01 End Time: 05:47:21 Time On Btm: 2021.09.16 @ 00:33:36
Time Off Btm: 2021.09.16 @ 03:22:06

TEST COMMENT: 30 - IF: 1/2" Blow at open, built to 3/4", died back to 1/4"
45 - IS: No blow
30 - FF: No blow
60 - FS: No blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2442.12	135.95	Initial Hydro-static
1	24.14	134.72	Open To Flow (1)
32	33.32	137.95	Shut-In(1)
76	1249.98	139.10	End Shut-In(1)
76	38.45	138.89	Open To Flow (2)
106	47.38	139.20	Shut-In(2)
168	1260.29	140.59	End Shut-In(2)
169	2434.58	141.42	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	Mud w /trace of Oil 100%m	0.30

Gas Rates

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



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Red Oak Energy Inc.
 7701 E Kellogg Dr STE 710
 Wichita, KS 67207
 ATTN: Ryan Davis

11/2s/42w Cheyenne KS
Hilt - Cummins #1-11
 Job Ticket: 66704 **DST#: 2**
 Test Start: 2021.09.15 @ 22:00:00

GENERAL INFORMATION:

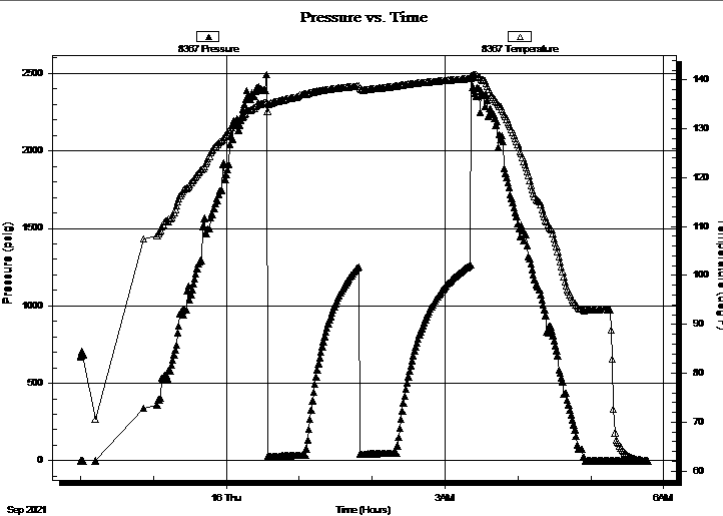
Formation: LKC "H - L"		
Deviated: No Whipstock: ft (KB)	Test Type: Conventional Bottom Hole (Initial)	
Time Tool Opened: 00:33:51	Tester: James Winder	
Time Test Ended: 05:47:21	Unit No: 73	
Interval: 4775.00 ft (KB) To 4966.00 ft (KB) (TVD)	Reference Elevations: 3722.00 ft (KB)	
Total Depth: 4966.00 ft (KB) (TVD)	3717.00 ft (CF)	
Hole Diameter: 7.88 inches	Hole Condition: Fair	KB to GR/CF: 5.00 ft

Serial #: 8367

Outside

Press@RunDepth: psig @ 4776.00 ft (KB)	Capacity: 8000.00 psig
Start Date: 2021.09.15	End Date: 2021.09.16
Start Time: 22:00:01	End Time: 05:47:06
	Last Calib.: 2021.09.16
	Time On Btm:
	Time Off Btm:

TEST COMMENT: 30 - IF: 1/2" Blow at open, built to 3/4", died back to 1/4"
 45 - IS: No blow
 30 - FF: No blow
 60 - FS: No blow



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
60.00	Mud w /trace of Oil 100%m	0.30

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Red Oak Energy Inc.

11/2s/42w Cheyenne KS

7701 E Kellogg Dr STE 710
Wichita, KS 67207

Hilt - Cummins #1-11

Job Ticket: 66704

DST#: 2

ATTN: Ryan Davis

Test Start: 2021.09.15 @ 22:00:00

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: 60.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.99 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 800.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	Mud w /trace of Oil 100%m	0.295

Total Length: 60.00 ft Total Volume: 0.295 bbl

Num Fluid Samples: 0

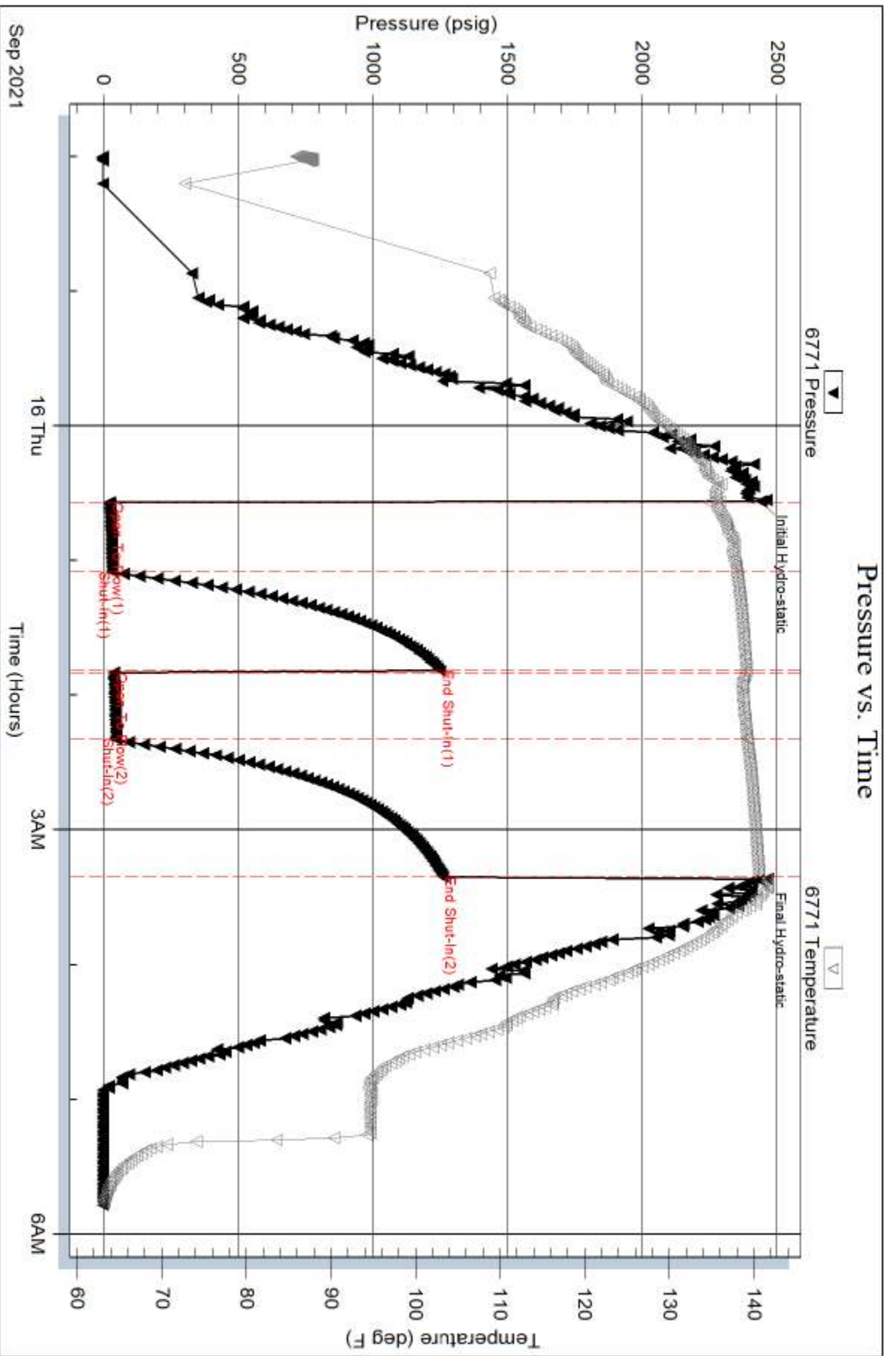
Num Gas Bombs: 0

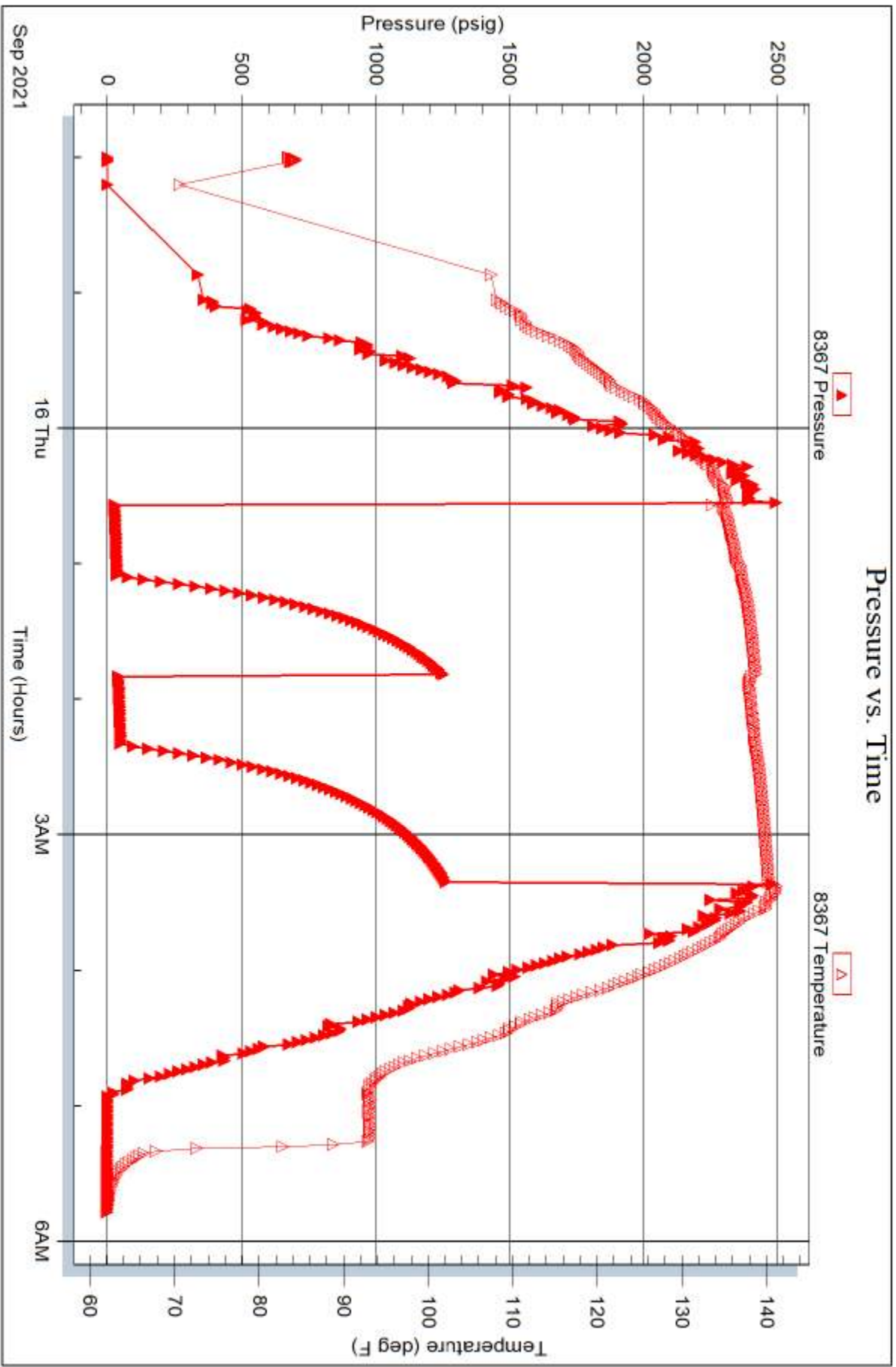
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





MUD LOG
WellSight Systems
Scale 1:240 (5"=100') Imperial
Measured Depth Log

Well Name: Hilt-Cummins #1-11
API: 15-023-21555
Location: SE NW NW SW Sec 11-T2S-R42W
License Number: 3581
Spud Date: 9/9/21
Surface Coordinates: NAD27 Long: -
NAD27 Lat:
Bottom Hole
Coordinates:
Ground Elevation (ft): 3717
Logged Interval (ft): 4300 To: 5210
Formation: Cherokee
Type of Drilling Fluid: Chemical Mud

Region:
Drilling Completed: 9/17/21
K.B. Elevation (ft): 3722
Total Depth (ft): 5210

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

OPERATOR

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

GEOLOGIST

Name: Ryan Davis
Company: Red Oak Energy, Inc.
Address: 7701 E Kellogg, Suite 710
Wichita, KS 67207

Cores

No Cores

DSTs

DST#1 4585-4678 (Lansing A)
 30-30-30-30
 IF: 0.25" Blow at open, built to 1.75"
 ISl: No blow back
 FF: Blow built to 1.25"
 FSI: No blow back
 REC: 60' HOcm (66%_m 32%_m 2%_g)
 30' SMCO (94%_o 4%_m 2%_g)
 IFPs: 20-40#
 FFPs: 46-63#
 SIPs: 1525-1518#

DST#2 4775-4966 (Lansing/KC H-L)
 30-45-30-60
 IF: 0.5" Blow at open, built to 0.75, died back to 0.25"
 ISl: No blow back
 FF: No blow
 FSI: No blow back
 REC: 60' Mud w/ trace of Oil
 IFPs: 24-33#
 FFPs: 38-47#
 SIPs: 1250-1260#

Comments

The Lansing A formation was the only zone with drill cuttings that had porous grainstone with oil shows, however, appeared to lack consistent permeability which seemed to be confirmed in DST#1. The rest of the hole appeared very tight and the structural position (compared to the Hilt-Samler 11-22D) came in low.

ROCK TYPES

	Anhy		Clyst		Gyp		Mrlst		Shgy
	Bent		Coal		Igne		Salt		Sltst
	Brec		Congl		Lmst		Shale		Ss
	Cht		Dol		Meta		Shcol		Till

ACCESSORIES

MINERAL		FOSSIL	
Anhy	Gyp	Algae	Ostra
Arggrn	Hvymin	Amph	Pelec
Arg	Kaol	Belm	Pellet
Bent	Marl	Bioclst	Pisolite
Bit	Minxl	Brach	Plant
Brecfrag	Nodule	Bryozoa	Strom
Calc	Phos	Cephal	
Carb	Pyr	Coral	STRINGER
Chtdk	Salt	Crin	Anhy
Chtlt	Sandy	Echin	Arg
Dol	Silt	Fish	Bent
Feldspar	Sil	Foram	Coal
Ferrpel	Sulphur	Fossil	Dol
Ferr	Tuff	Gastro	Gyp
Glau		Oolite	Ls
			Mrst
			Sltstrg
			Ssstrg
			TEXTURE
			Boundst
			Chalky
			Cryxln
			Earthy
			Finexln
			Grainst
			Lithogr
			Microxln
			Mudst
			Packst
			Wackest

OTHER SYMBOLS

- POROSITY**
 [E] Earthy
 [B] Fenest
 [F] Fracture
 [X] Inter
 [M] Moldic
 [O] Organic
 [P] Pinpoint

- [V] Vuggy
SORTING
 [N] Well
 [M] Moderate
 [P] Poor

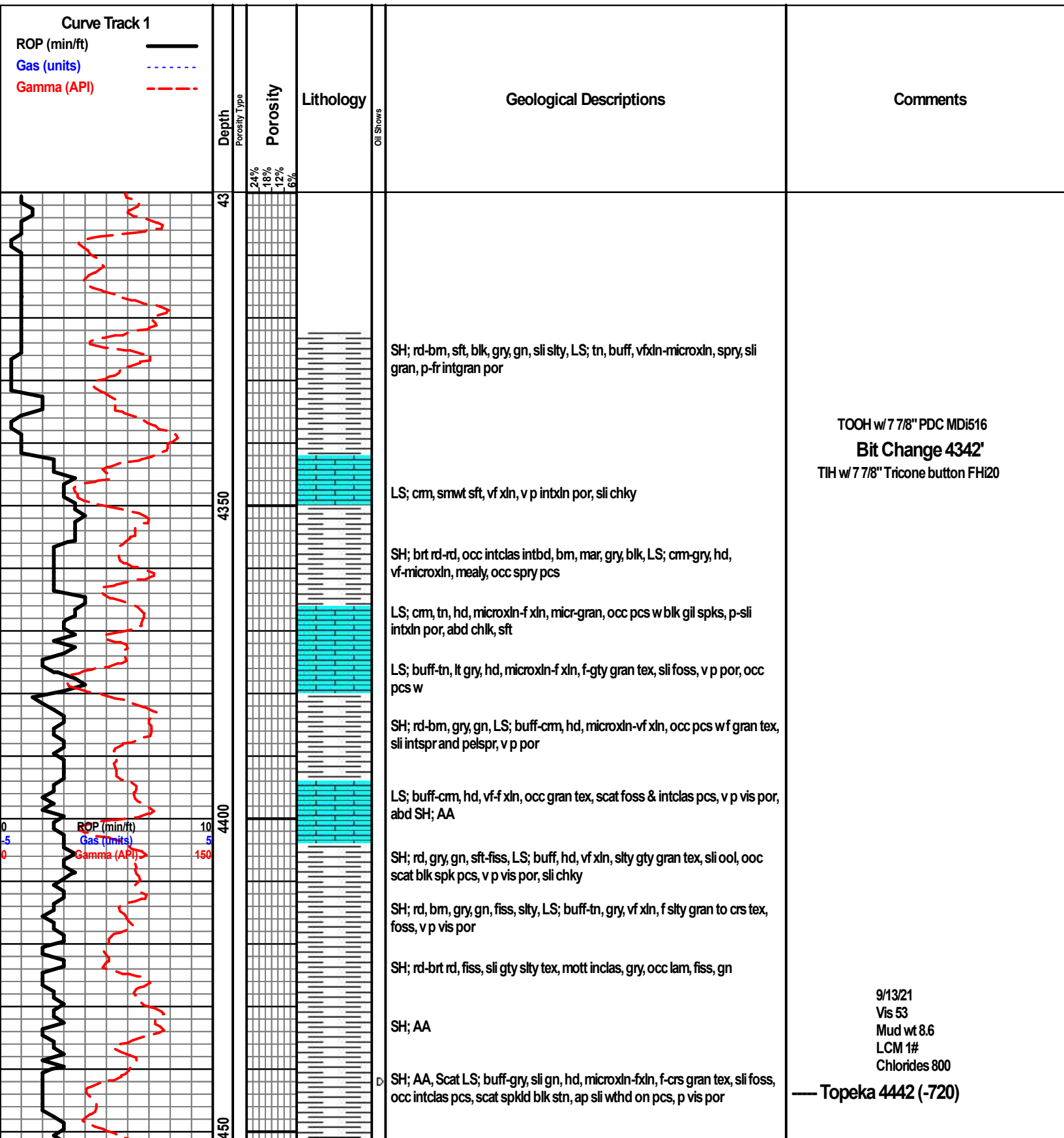
- ROUNDING**
 [R] Rounded
 [r] Subrnd
 [a] Subang
 [A] Angular

- [S] Spotted
 [Q] Ques
 [D] Dead

- EVENT**
 [Rft] Rft
 [Sidewall] Sidewall

- OIL SHOW**
 [Even] Even

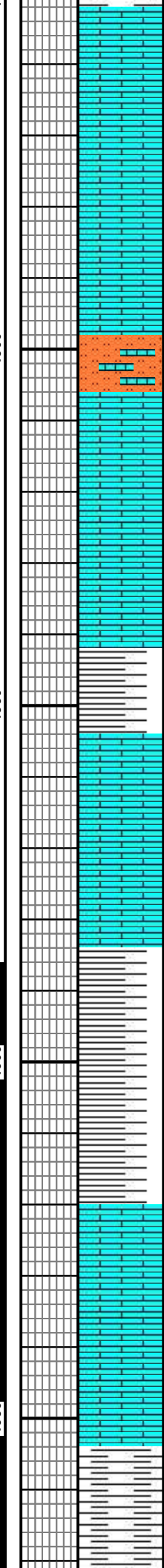
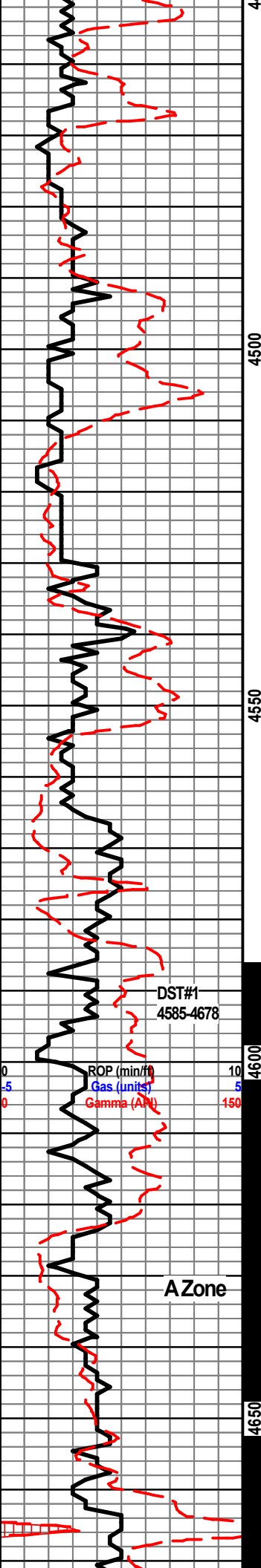
- INTERVAL**
 [Core] Core
 [Dst] Dst



TOOH w/ 7 7/8" PDC MDI516
Bit Change 4342'
 TIH w/ 7 7/8" Tricone button FHI20

9/13/21
 Vis 53
 Mud wt 8.6
 LCM 1#
 Chlorides 800

— Topeka 4442 (-720)



D LS; lt gry-buff, hd, microxn-medxn, rgh gran tex, foss, v p vis por, abd SH; rd

O LS; cm-wh, hd, microxn-fxn, foss, ool, spry mtrz, v sli intxn por, abd scat blk stn, sme sli movable tary blk oil globs, fr cloudy cut, no odr.

D LS; cm-gry, hd, microxn-vfxn, ool, ti intxn mtrx, occ sli vggv por, spkld scat blk stn decr on pcs, sme pyr incl, sli micr, crpxn, dnse, no odr

LS; wh-cm, hd, microxn, spry, sme ool, intclas, sme p intxn por, no odr, sli suc, sme rgh gran pcs

LS; cm-lt gry, hd, crpxn-fxn, spry, v sli foss, no vis por, SLTST; gry-gm, smwt sft, lmy in parts.

LS; tn-cm, sft, ool, p intool por, abd blk stn, v chky, no odr, sme wkst, hd, cryxn, dns

LS; tn-gry, hd, crpxn-microxn, dns, no vis por, LS; ool, AA

LS; micr, tn, AA

SH; rd-bm, gry, gn, fiss

O SH; rd-bm, lt gry-drk gry, gn, LS; cm-buff, smwt sft, vf xln, sli ool, gran tex, spkld drk stn, no odr, sli yel fluor, sli cut, VSSFO upn crsh.

LS; buff-cm, hd, plty, crpxn-microxn, no vis por, no odr, occ sli blk gil stn on eds, SH; rd-bm, gry

LS; buff, sft-hd, crpxn-microxn, no vis por, v chky, blk gil stn incr, no odr, SH; AA

SH; gry-blk, sft, rd-bm, gn

SH; AA, sli slty

SH; rd-mar, sft-grty, or, sli slty

O LS; buff-tn, hd, microxn-fxn, ool, pr-fr intgran por, scat vggv por, fr odr, brt yel fluor, gd cut, FSFO

O 30 min - LS; cm-lt gry, hd, crpxn-microxn, dns, no vis por, occ

LS; buff-cm, hd, crpxn, dns, sli chky, no vis por

SH; blk-gry, rd bm

SH; brt rd, blk-gry, gn

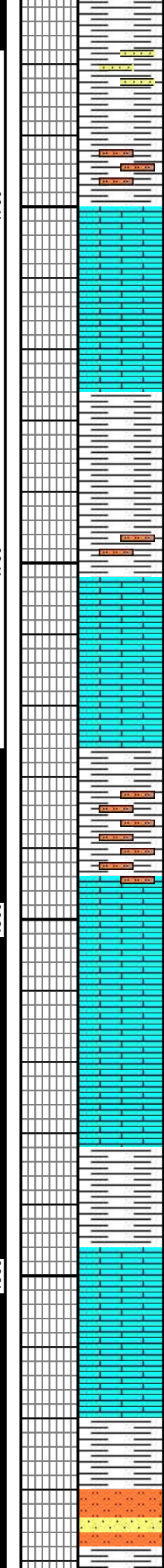
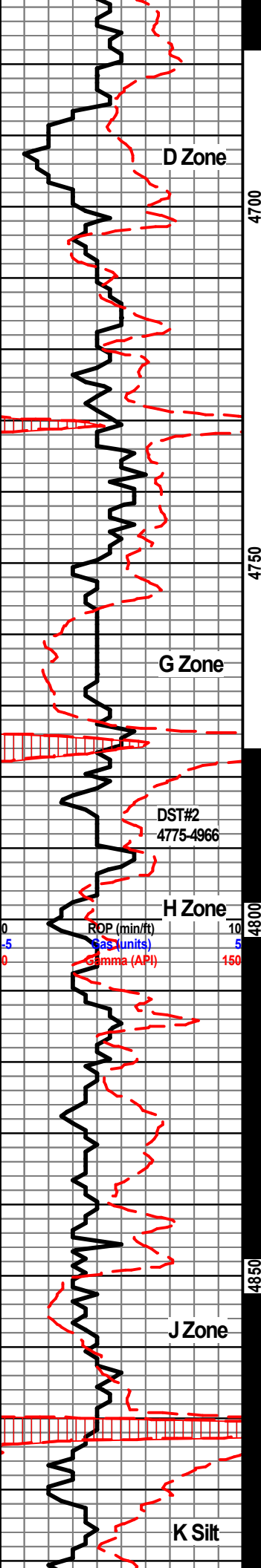
— Oread 4553 (-831)

DST#1
 4585-4678 (Lansing A)
 30-30-30-30
 IF: 0.25" Blow at open, built to 1.75"
 IS: No blow back
 FF: Blow built to 1.25"
 FS: No blow back
 REC: 60' HOCM (66%_m 32%_m 2%_g)
 30' SMCO (94%_o 4%_m 2%_g)
 IFPs: 20-40#
 FFPs: 46-63#
 SIPs: 1525-1518#

— Lansing 4622 (-900)

CFS 30' @ 4640

A Zone



SH; gry, blk, gn, rd, slty, SS; qrtz-ark, hd, vf gr, sbang-sbmd, wsrtd, ti-fri clus, sli mica, sme pyr, sme w crtd, no odr

Sh; rd-bm, gry, fiss-sft, gn, slty

LS; tn-lt gry, hd, crpxln-microxln, sli crs tex, no vis por

LS; tn-gry, hd crpxln-microxln, foss, sli gran tex, no vis por, no odr

30 min- LS; slty, gry, smwt hd, vf xln, foss, no odr

60 min- SH; rd-bm, slty, grty, gry, sft, gn, fis

SH; rd-bm, drk-lt gry, fiss, sft

SH; AA, scat gm, sli slty

LS; buff, tn, cm, gry, hd, crpxln, sli foss, sm-rgh tex, dnse, no vis por, sme chk, sme pyr

LS; buff-cm, hd, crpxln, micrite, sm, dnse, no vis por, sme chk

SH; gry-blk, fiss, rd-bm, grty, scat gn, LS; AA

SH; bm, grty, slty, gry-blk

LS; wh-cm, hd, crpxln-microxln, sli foss, sme v p vis por, no odr

LS; cm-buff, hd, crpxln-microxln, sli foss, no vis por, no odr

LS; buff, hd, microxln-vfxln, foss, sli spry, no vis por, no odr

SH; rd, sft, blk, gry, gn

SH, AA

LS; cm, buff, lt gry, hd, microxln-vf xln, sli spry, sme foss, dns, no vis por, chky, abd rd bd

LS; lt gry, cm, hd, crpxln-microxln, dns, no vis por, v fnt odr;

20 min - LS, gry, cm, lt tn, microxln-vfxln, sli foss, sli incr gran tex, dns, sli odr

40 min- LS, gry-lt tn, hd, crpxln, dns, sm, no vis por, no odr

60 min - LS; lt tn-gry, hd, crpxln-vfxln, incr gran tex, no vis por, no odr; SH; gry, blk, rd

SH; blk, carb, gry, rd, LS; AA

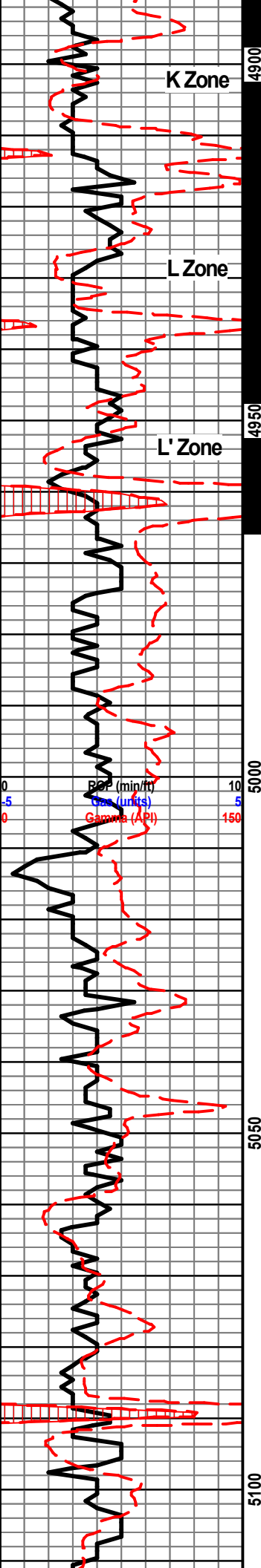
Qrtz SS; cl; vf-f gr; fri sml clus, md, w srt, smwt ti, v p intgr por, occ pyr incl, lrg clus w cmt, no flor, no odr; abd SH; blk, gry, rd, gr, silty

9.23' short to the board @4733'
 CFS 30/60 @4733
 9/14/21
 Vis 58
 Mud wt 8.9
 LCM 1#
 Chlorides 800

DST#2
 4775-44966 (Lansing/KC H-L)
 30-45-30-60
 IF: 0.5" Blow at open, built to 0.75, died back to 0.25"
 IS: No blow back
 FF: No blow
 FSI: No blow back
 REC: 60' Mud w/ trace of Oil
 IFPs: 24-33#
 FFPs: 38-47#
 SIPs: 1250-1260#

CFS 20/40/60 @4850
 9/15/21
 Vis 60
 Mud wt 9.0
 LCM 1#
 Chlorides 800

— Stark Sh 4870 (-1148)
 CFS 20/40/60 @4872



LS; cm, buff, bm, hd, micr-vf xln, mostly dns, v p scat por, spkld bm str, v fnt odr, VSSFO upn crsh, sli flor

LS, cm-wh, hd, microxln-crpxln, dns, sme spry, no vis por, no odr, scat chk in smpl

SH; gry-blk, rd-bm, LS; AA

LS, cm-wh, smwt sft, microxln-vfxln, mstly chky, no vis por, no odr, abd SH, AA

LS; cm, gry, hd, microxln-vf xln, sme scat foss, sme sli gran pcs, v p vis por, no odr;

LS; cm, gry, hd, vf-fxln, sli suc or dolie, mealy-rgh tex, foss, one ool pc w fr intool por, gd stn, GSHO, SSFO, gd cut, no odr

LS; cm-buff, hd, vf-fxln, sli suc in prts, sm pcs ool, foss, v p intgr por, v scat vgy por, no odr
 30 min- LS, cm, sft, v chky, ool, foss, no vis por, no odr
 60 min- LS; AA

SH; gry-blk, fiss, rd-bm, grty, gn, sl stly, LS; cm-bm, hd, ool, foss, rgh tex, v p intool por, sli bm str, no odr

SH; drk-lt gry, blk, carb, splin, elong, brt rd, sft, rd, grty, lt-drk gr; stly, sli sndy, mar, or

SH; AA, LS; grysh purp, hd, microxln, no vis por; LS; bm, hd, microxln-vfxln, intclas, crs tex, no vis por, no odr

SH; rd-bm, gry-blk, occ gn, LS; cm-bm, hd, micrln-vfxln, unconsc intclas, foss, crs tex, no vis por, no odr

LS; tn, cm, bm, hd, crpxln-vfxln, sm-v crs, sli spry, unconsc intclas, foss, sli chk, no vis por, no odr

SH; rd-bm, sft, stly, gry-drk gry, sft, SS, qrtz, v hd, vf gr; ti clus, gas bbls upn break, v fnt flor, no odr

SH; rd-bm, stly, sft, gry-blk, gn

SH; rd-bm, gry-blk, gn, LS, cm-tn, sft, vf xln, sli suc, chky in prts, v p vis por, no odr

LS; gry-tn, hd, microxln, sm, scat chk, no vis por, no odr

LS; gry-tn, hd, crpxln-microxln, dns, sli foss, scat chk, smwt stly in prts, no vis por, no odr

LS; gry-buff, microxln-vfxln, mstly dns, sm-lt gran tex, v p vis por, no odr

LS; gry-cm, crpxln-microxln, dns, sm, scat chk, no vis por, no odr

LS; buff, gry, cm, microxln-vfxln, sli gran tex, sli foss, scat chk, v p vis por, no odr

SH; Coal blk, carb, fiss, hd, gry, lmy, hd, LS; drk-lt gry, buff-tn, hd, crpxln-microxln, dns, scat intclas, no vis por, no odr

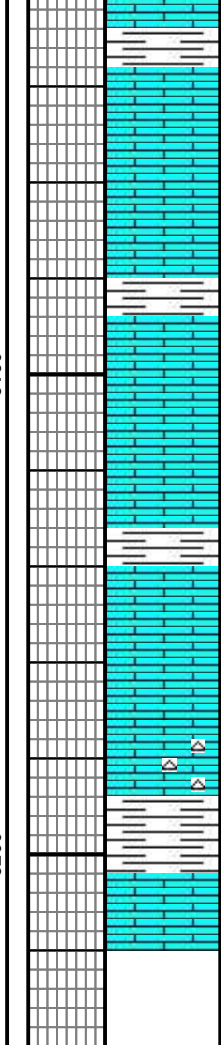
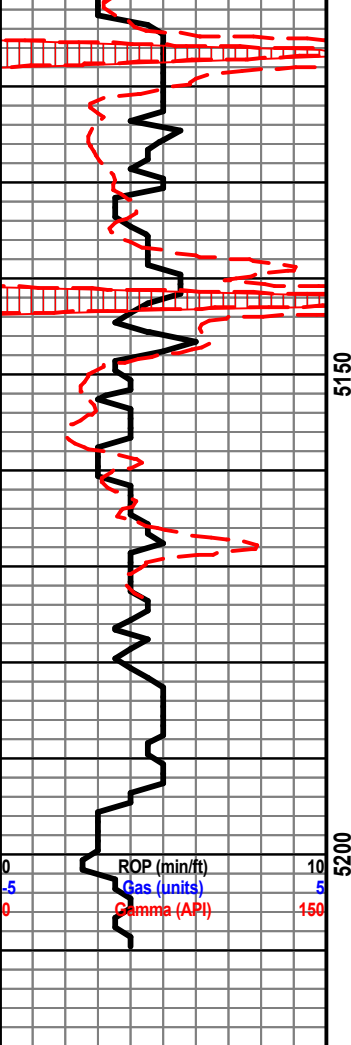
LS; gry-cm-tn, hd, microxln-vfxln, mstly dns, scat foss, occ gran pcs,

— Base/Kansas City
4962 (-1240)

— Marmaton 5024 (-1302)

9/16/21
Vis 54
Mud wt 9.1
LCM 1#
Chlorides 800

— Pawnee 5060 (-1338)



sme ool pcs, no vis por, no odr

LS; gry-tn-bm, hd, crpxln-microxln, v dns, TTNA, no vis por, no odr

LS; lt tn-lt gry, hd, microxln-fxln, mstly dns, scat crs gran tex, v p vis por, no odr

LS; grys-tn-cm, hd, microxln-vfxln, mstly dns, scat spry pcs, sme pcs w intclas, sli foss, no vis por, no odr

LS; buff-drk gry, mott, mstly dns, smwt sm-mealy gran tex, no vis por, no odr

LS; cm-buff-tn, hd, microxln-fxln, smwt sft, sme ool pcs, ti, chk, v scat p intxln por, no odr

LS; cm-tn, smwt brit, vfxln-fxln, sfter, chk, sme scat pr intxln por, no odr

LS; cm-buff, brit, vf-f xln, mealy, chk, sme scat p intxln por, no odr

LS; cm-buff, microxln-fxln, mstly dns, chk, no vis por, scat CHT; or-wh, opq, shp, no odr

SH; blk-gry, carb-sity, sme rd

LS; buff-tn, microxln-vf xln, mstly dns, v p intxln por, no odr

LS; buff-tn, microxln-vfxln, dns, sm-gran, occ ool, no vis por, no odr

— Cherokee 5141 (-1419)

9/17/21
 Chlorides 1,300
 RTD 5210 on 9/17/2021
 LTD 5206



Customer	Red Oak Energy	Lease & Well #	Hiit - Cummins 1-11	Date	9/9/2021	
Service District	Oakley KS	County & State	Cheyenne KS	Legals S/T/R	11-2S-42W	
Job Type	8.625" Surface	<input checked="" type="checkbox"/> PROD <input type="checkbox"/> INJ <input type="checkbox"/> SWD	New Well?	<input checked="" type="checkbox"/> YES <input type="checkbox"/> No	Job #	
Equipment #	Driver	Job Safety Analysis - A Discussion of Hazards & Safety Procedures				

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

Comments

Muster point entrance of location. Person in charge of head count Fennis. Nearest hospital ST. Francis KS. Emergency # 911.

Product/ Service Code	Description	Unit of Measure	Quantity	Net Amount
CP070	60/40/2 Pozmix	sack	300.00	\$3,510.00
CP100	Calcium Chloride	lb	516.00	\$348.30
CP120	Cello-flake	lb	43.00	\$67.73
M015	Light Equipment Mileage	mi	85.00	\$153.00
M010	Heavy Equipment Mileage	mi	85.00	\$306.00
M020	Ton Mileage	tm	731.00	\$986.85
D010	Depth Charge: 0'-500'	job	1.00	\$900.00

<p>Customer Section: On the following scale how would you rate Hurricane Services Inc.?</p> <p>Based on this job, how likely is it you would recommend HSI to a colleague?</p> <p><input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/></p> <p>Unlikely 1 2 3 4 5 6 7 8 9 10 Extremely Likely</p>		<p>Total Taxable \$ - Tax Rate:</p> <p>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.</p>	<p>Net: \$6,271.88</p> <p>Sale Tax: \$ -</p> <p>Total: \$ 6,271.88</p>
		<p>HSI Representative: <i>Fennis Gardano</i></p>	

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 1/2% 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 from 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 information in determining taxable services.

X _____

CUSTOMER AUTHORIZATION SIGNATURE



CEMENT TREATMENT REPORT

Customer: Red Oak Energy	Well: Hilt - Cummins 1-11	Ticket: WP 1844
City, State:	County: Cheyenne KS	Date: 9/9/2021
Field Rep: Fennis Garduno	S-T-R: 11-2S-42W	Service: 8.625" Surface

Downhole Information Hole Size: 12.25 in Hole Depth: 321 ft Casing Size: 8 5/8 in Casing Depth: 321 ft Tubing / Liner: in Depth: ft Tool / Packer: Tool Depth: ft Displacement: 19.0 bbbls	Calculated Slurry - Lead Blend: 60/40/2 Weight: 14.2 ppg Water / Sx: 6.1 gal / sx Yield: 1.33 ft ³ / sx Annular Bbbls / Ft.: bbs / ft. Depth: ft Annular Volume: 0.0 bbbls Excess: Total Slurry: 71.0 bbbls Total Sacks: 300 sx	Calculated Slurry - Tail Blend: Weight: ppg Water / Sx: gal / sx Yield: ft ³ / sx Annular Bbbls / Ft.: bbs / ft. Depth: ft Annular Volume: 0 bbbls Excess: Total Slurry: 0.0 bbbls Total Sacks: 0 sx
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TIME	RATE	PSI	STAGE		REMARKS
			BBLs	TOTAL BBLs	
12:30 PM				-	Journey management meeting
12:45 PM				-	Convoy to location
3:45 PM				-	Arrive on location to rig circulating through casing / safety meeting
3:50 PM				-	Spot in rig up equipment
4:20 PM	4.0	50.0	5.0	5.0	Hook cementing equipment to casing pump fresh water spacer
4:23 PM	6.0	150.0	71.0	76.0	Mix 300 sx 60/40/2 @ 14.2 ppg
4:40 PM				76.0	Start fresh water displacement
4:44 PM	5.0	150.0	14.3	90.3	See cement at surface
4:45 PM	5.0	150.0	19.0	109.3	End displacement, S/D shut in casing with 150 psi on casing
5:15 PM				109.3	Rig down / leave location
				109.3	Circulated 20 sx cement to surface

CREW	UNIT	SUMMARY		
		Average Rate	Average Pressure	Total Fluid
Cementer: Fennis	78	5.0 bpm	125 psi	109 bbbls
Pump Operator: Mike	180/520			
Bulk #1: Kale	165/250			
Bulk #2:				

ftv: 13-2021/01/19
mplv: 105-2021/01/27