

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 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)</i> <i>(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	ORTH 1
Doc ID	1663005

Tops

Name	Top	Datum
B/Niobrara	1645	2037
B/Anhy	3662	20
Topeka	4401	-719
Lansing	4584	-902
Muncie Creek	4734	-1052
Stark	4825	-1143
B/KC	4904	-1222
Pawnee	5017	-1335
Cherokee	5097	-1415



CEMENT TREATMENT REPORT

Customer: Red Oak Energy	Well: Orth #1	Ticket: WP 3206
City, State: St. Francis	County: Cheyenne KS	Date: 8/9/2022
Field Rep: Justin Polfus	S-T-R: 11-2S-42W	Service: Surface

Downhole Information

Hole Size: 12 1/4 in
Hole Depth: 345 ft
Casing Size: 8 5/8 in
Casing Depth: 338 ft
Tubing / Liner: in
Depth: ft
Tool / Packer: ft
Tool Depth: ft
Displacement: 20.2 bbls

Calculated Slurry - Lead

Blend: H-325
Weight: 14.8 ppg
Water / Sx: 6.9 gal / sx
Yield: 1.41 ft ³ / sx
Annular Bbls / Ft.: 0.0735 bbs / ft.
Depth: 338 ft
Annular Volume: 24.8 bbls
Excess:
Total Slurry: 75.3 bbls
Total Sacks: 300 sx

Calculated Slurry - Trail

Blend:
Weight: ppg
Water / Sx: gal / sx
Yield: ft ³ / sx
Annular Bbls / Ft.:
Depth: ft
Annular Volume: 0 bbls
Excess:
Total Slurry: 0.0 bbls
Total Sacks: 0 sx

STAGE TOTAL

PSI BBLs BBLs REMARKS

4:25 PM				-	Arrived on location
4:35 PM				-	Safety meeting
4:45 PM				-	Rigged up
9:41 PM				-	Casing on bottom
9:46 PM				-	Circulated mud
9:54 PM 3.1	100.0	5.0		5.0	Water ahead
9:56 PM 5.0	200.0	75.3		80.3	Mixed 300 sacks H-325 cement @ 14.8 ppg
10:18 PM 4.3	200.0	20.2		100.5	Begin displacement
10:23 PM	150.0			100.5	Plug down and shut in with 5 bbls cement circulated to pit
10:25 PM				100.5	Washed up and rigged down
10:55 PM				100.5	Left location

CREW	UNIT	SUMMARY
Cementer: John	73	Average Rate
Pump Operator: Jose V	208	Average Pressure
Bulk #1: Kate	159-250	163 psi
Bulk #2:		101 bbls



MUD LOG

WellSight Systems

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

Well Name: Orth #1
API: 15-023-21575
Location: 2291' FSL & 356' FEL SW NE NE SE SEC 11-T2S-R42W
License Number: 3581
Spud Date: 8/9/2022
Surface Coordinates: NAD27 Long: -101.9940842
NAD27 Lat: 39.8932553
Region: NW KS
Drilling Completed: 8/17/2022
Bottom Hole Coordinates:
Ground Elevation (ft): 3677
Logged Interval (ft): 4300 To: 5200
Formation: Cherokee
Type of Drilling Fluid: Chemical Mud
K.B. Elevation (ft): 3682
Total Depth (ft): 5270

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

OPERATOR

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

GEOLOGIST

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

DSTs


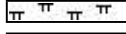



DST #1 4818-4876
L/KC 'K" Zone
30-30-30-30
IF: Weak Blow 1/2"
ISI: No BB
FF: Weak blow 1/4"
FSI: No BB
HPs: 2352-2265#
IFPs: 87-89#
FFPs: 91-94
SIPs: 1314-1296
REC: 140' Mud w spots of oil

Comments

The Orth #1 was structurally low to the Hilt Samler and did not show good porosity development or indications of commercial hydrocarbon potential. Upon evaluation of rock cuttings, DSTs, structural position and E-Logs, it is recommended that no further testing through pipe is necessary and that the well be plugged and abandoned.

Respectfully submitted,
 -Ryan Davis

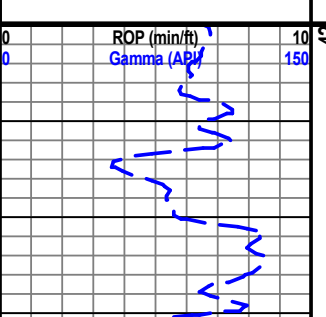
ROCK TYPES

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

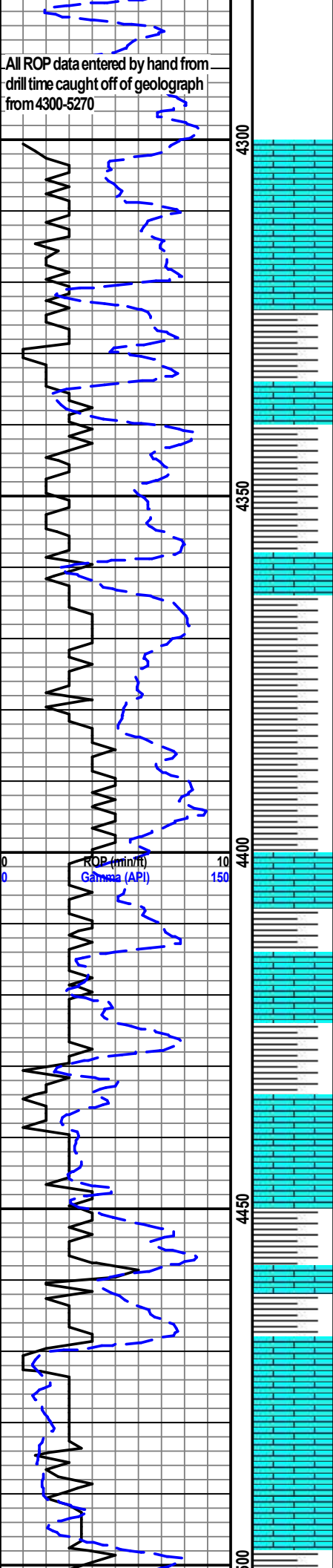
New Header

Formation Tops (Sample):

B/Anhy	3662 (20)
Topeka	4403 (-721)
Lansing	4582 (-900)
Muncie Crk	4732 (-1050)
"J Zone"	4802 (-1118)
Stark	4826 (-1144)
B/KC	4808 (-1226)
Marmaton	4953 (-1271)
Pawnee	5017 (-1335)
Cherokee	5100 (-1418)

Curve Track 1 ROP (min/ft) _____ Gamma (API) - - - - -	MD	Lithology	Lag	Geological Descriptions	Comments
	42			Red Oak Energy, Inc. Orth #1 2291' FSL & 356' FEL Sec 11 -2S- 42W Cheyenne Co., KS API: 15- Geologist: Ryan Davis ELEV: 3677 GL ELEV: 3685 KB	Button Bit Morgan Mud Inc Check #5 @4176' 8/13/22: Cade wt vis pH chl Filtr LCM 8.6 67 11.5 600 6.8 4

All ROP data entered by hand from
drill time caught off of geolograph
from 4300-5270

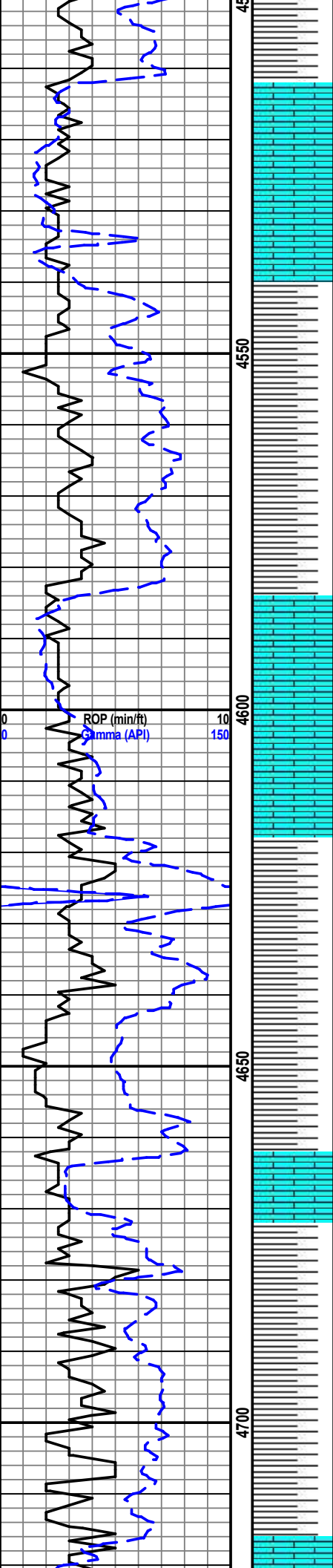


Displaced Mud System @ 4096' w/ 900 bbl

Start 10' Wet & Dry Samples @ 4300'

- 4320 LS; cm, gry, mm, hd-brt, microxln-fxln, mealy-gran tex, biospar-sub suc ip, v p intxln por, NS, SH; rd-bm, slty
- 4330 LS; cm, gry, buff, hd, vfxln-mdxln, biospar, rextzd foss, v p intxln por, NS
- 4340 LS; buff, mstly hd, vfxln-mdxln, biospar, rextzd foss, v p intxln por, sli chky, NS, SH; rd-bm, mar, gn, slty, gummy ip
- 4350 SH; rd-bm, sft-slty, LS; buff, cm, lt gry, hd, microxln-vfxln, dns, biomicrite, ool, ti, no vis por, NS
- 4360 SH; rd-bm, sft-slty, drk gry, gn, LS; tn, lt gry, cm, mstly hd, microxln-vfxln, mealy-gran tex, biomicrite-ool, ti, no vis por, NS
- 4370 LS; buff, cm, lt gry, hd-brt, microxln-fxln, mealy-gran tex, biospar-sub suc ip, v p intxln por, NS, SH; rd-bm, slty
- 4380 LS; lt tn, lt gry, hd, vfxln-fxln, gran tex, ool ip, dns, ti, no vis por, NS, SLTST, gry, lt gm, smwt sft
- 4390 SH; rd-bm, mm, gry, lt gn, sft-slty; LS; AA
- 4400 SH; rd-bm, slty, occ pyr, LS; lt tn, lt gry, hd, microxln-vfxln, dns, no vis por, NS
- 4410 SH; rd-bm, slty, LS; lt tn, lt gry, hd, microxln, dns, biomicrite, sli suc ip, no vis por, NS
- 4420 LS; cm, hd, fxln-medxln, dns, rextzd foss, pkst, scat blk spks, no vis por, NS, ab d SH; AA
- 4430 LS; cm, hd, vfxln, pkst, rextzd foss, scat blk spks, no vis por, NS, SH; rd-bm, slty
- 4440 LS; lt tn, buff, hd, fxln-medxln, gran-mealy tex, v p intxln por, sub suc ip, NS, SH, rd-bm, slty
- 4450 SH; rd-bm, sft, gn, gummy
- 4460 LS; cm, lt gry, buf, microxln-fxln, occ gran tex, suc ip, foss, p intxln por, no odr, NS
- 4470 LS; cm, lt gry, buf, vfxln, ool, ti, suc ip, v p intxln por, sli chky, no odr, NS, SLTST, rd, lt rd, gty
- 4480
- 4490
- 4500 LS; tn, lt gry, buff, medxln-crpxln, ool, rgh gran tex, ti, v p intxln por, biomicrite, dns, no odr, NS
- 4510 LS, tn, lt gry, hd-smwt brit, microxln-fxln, sli dolic, v p intxln por, no odr, NS

—Topeka 4403 (-721)—



4520 SH; rd, slty, LS; buff, brit, gran tex, ool, scat fr intool por, no odr, NS

4530 LS; cm, lt gry, tn, buff, microxn-medxn, sub suc ip, v p intxn por, rextzd foss, sli gran ip, sct blk stn, no vis por, no odr, NS

4540 LS; lt tn, buff, microxn-fxln, biomicrite-occ bioclastic, dns, no vis por, no odr, NS

4550 LS; lt tn, buff, bm, gry, vfxln, rgh gran-scaley xztd tex, foss, occ sct blk dd stn, no odr, NS

4560 SH; rd-bm, gn-gy, sli slty, LS, AA

4570 SH; rd-bm, gn, gry, LS; lt tn, brit-hd, microxn-medxn, micrite-scaley xln tex, no odr, NS

4580 SH; rd-bm, slty, SLTST, lt gry, gn, hd, grity

4590 LS; buff, tn, mstly hd, vfxln-fxln, ool, p interool por, occ sct vggss, v sct show of tary blk oil, wk-no flor, no odr, mky cut

4600

4610

4620 LS; lt gry, tn, vf xln, dolc ip, biomicrite-sli gran, fr intgran por, no stn, no odr, no flor, NS, SH; rd-bm, gry-gn, sli slty

4630 LS; lt gry, tn, mm, mstly dolc, vf sub suc xln, no vis por, abd SH, AA

4640

4650 SH; rd-bm, gry, gn, sndy, clr-gn, vf gr; v p intgm por, no odr, NS

4660 SH; rd-bm, slty, grity, sli sndy, no odr, NS

4670 LS; lt tn, lt gry, hd, microxn-fxln, biomicrite, occ sli gran tex, v p intxn por, sli chky, no odr, NS

4700 SH; rd, bm, , gry, mstly sft

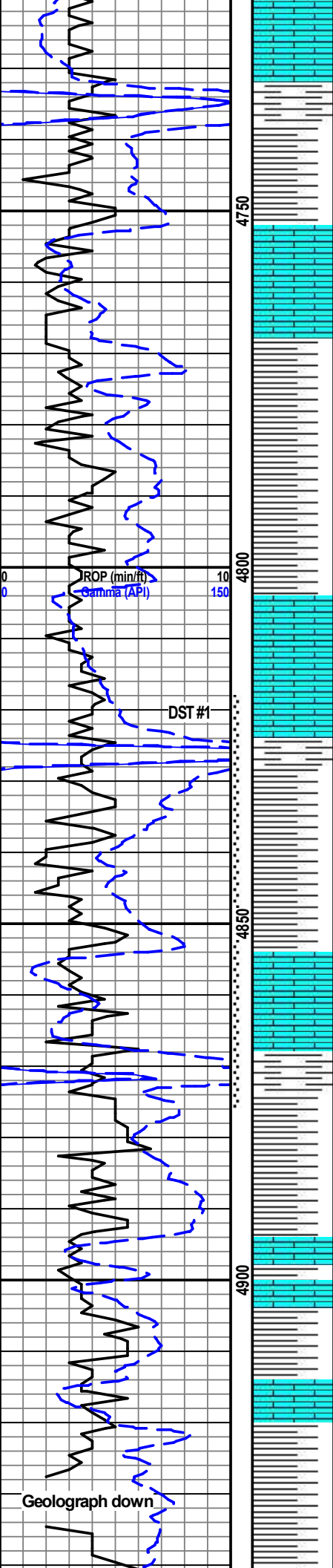
4710 SH, AA, LS; lt tn, buff, microxn-fxln, mealy-sli gran tex, no vis por, no odr, NS

4720 Poor smpl quality, poker chip shale

4730 SH; rd-bm, fiss, sli slty, gry, gmny

VIS 52
WT 8.9
LCM 1.5#

—Lansing 4582 (-900)—



4740 LS; cm, lt gry, hd, microxln-vfxln, sm tex, dns, sli chky, no vis por, no odr, NS

4750 LS; AA, SH; blk, hd, calc, gry, sli slty

4760 SH; blk, gry, rd, bm, LS; lt tn, cm, hd, micrite

4770 LS; buff; smwt brit, fxl-in-medxln, scaly xln tex ip, p-fr intxln por, ch ky, scat blk dd stn, no odr, no flor, NS

4780 LS; buff, lt tn, mstly hd, microxln-vfxln, sm micrite-sli gran tex, v p intxln por, no odr, NS

4790 SLTST; rd-bm, grty, LS; buff, vf-fxl, mealy-sli dolc, sub suc xln, sli chky, v p intxln por, no odr, NS

4800 SH; rd-bm, sft-sity, blk, carb, gry, fiss

4810 SH; AA

4820 LS; buff, cm, lt gry, hd, microxln-vfxln, biomicrite, dns, no vis por, v fnt odr, no stn, NS

4830 LS; gry, mstly hd, micro-vfxln, micrite-sli dolc, dns, no vis por, buff-cm, brit-hd, micro-vfxln, biomicrite, chky ip, no vis por, no odr, no stn, NS

4840 LS; AA, dns pcs incr, chk dec, SH; blk (carb), rd-bm, gn

4850 SH; gry, rd-bm, SLTST, cl, lt tn mtr, ti clus, v scat blk & gn spks, LS; dolc, gry, hd, vf-fxl, sub suc, v p intxln por, no odr, no stn, NS

4860 Prspl qual-SH; gry-blk, rd-bm incr, SLTST % dec, LS; dolc, gry, AA

4870 LS; buff, smwt brit ip, micro-fxl, pkst-sub ool, v p intool & intxln por, occ scat fr-gd vg gy por, scat-sat stn, VSSF HO (dark), no odr, v pr flor, gd ribbon cut, gd sh wo & streaming cut upn crsh

30'
60'
LS; cm-buff, micr-fxl, mstly dns, biomicrite, pr vis por, no odr, no stn, NS

4890 SH; gry, blk (carb), rd-bm, sft

4900 SH; drk-lt gry, blk (carb), rd-bm, drk-lt gn

4910 SH; AA, incr gry slit %, SS; qtz, cl, sft sity gry mtr, fri clst, wmd, frsrt, no stn, no odr, no flor, NS, LS; buff, mstly hd, micro-vfxln, mstly dns micrite, no vis por

4920 SH; rd-bm, blk, carb, elong, gry, fiss-sity, drk-lt gn, LS; tn, buff, hd-brit, micro-vfxln, micrite-sub suc, sli chky ip, no vis por-pr intxln por, no odr, no stn, NS

4930 LS (50%); lt tn, hd, microxln-vfxln, micrite-sub suc, no vis por, no odr, NS, SH (50%); rd-bm, gry-blk; f gr of qtz sand ip sme pcs of blk sh, lt-drk gn

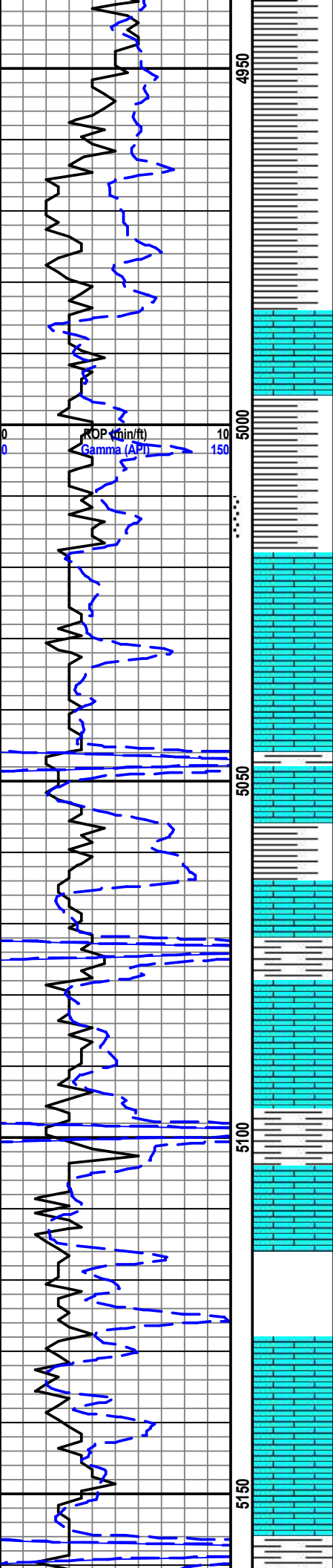
4940 LS; tn-buff, hd-brit, micro-fxl, mstly biomicrite, sli mealy-smwt scaly tex, spary ip, v pr intxln por, no stn, NS

-Muncie Creek 4732 (-1050)

—Stark 4826 (-1144)—

DST #1 4818-4876
L/KC "K" Zone
30-30-30-30
IF: Weak Blow 1/2"
ISI: No BB
FF: Weak blow 1/4"
FSI: No BB
HPs: 2352-2265#
IFPs: 87-89#
FFPs: 91-94
SIPs: 1314-1296
REC: 140' Mud w spots of oil

—Base of KC 4898 (-1216)—



4950 LS; lt tn, cm, gry, lt bm, hd, micro-mdxn, micrite-spry, sm w rgh scaly xln tec, no vis por, no stn, NS, SH; rd-bm, fiss, blk, carb, gry, fiss, no odr

4960 LS; lt tn, gry, lt bm, hd, micro-mdxn, micrite-spry, sm w rgh scaly xln tec, no vis por, no stn, NS, SH; rd-bm, fiss, blk, carb, gry, fiss, gn w blk spks, no odr

4970 SH; rd-bm, fiss-silty, blk-gry, lt-drk gn, LS; buff, cm, hd-brit, micro-mdxn, micrite-sub suc, no vis por, no stn, no odr, NS

4980 SH; rd-bm, fiss-silty, blk-gry, lt-drk gn, sme med clrsbmd qrtz incl, SLTST; clrti qrtz clus w tn calc mtrx, LS; buff, cm, hd-brit, micro-mdxn, micrite-sub suc, no vis por, no stn, no odr, NS

4990 SH; rd-bm, fiss-silty, blk-gry, lt-drk gn, SS; clr smwt fri vf-f gr qrtz clus w lt tn sft mtrx, scat glauc & mica spks, LS; buff, cm, hd-brit, micro-mdxn, micrite-sub suc, no vis por, no stn, no odr, NS

5000 LS; buff-lt bm, hd, micro-vfxln, dns biomicrite, no vis por, no stn, NS, SH; rd-bm, fiss-silty, blk-gry, lt-drk gn

5010 SH (incr 50%); rd-bm, fiss-silty, blk-gry, lt-drk gn, LS (dec to 50%); buff-lt bm, hd, micro-vfxln, dns biomicrite, no vis por, no stn, NS

5020 LS; lt tn-cm, hd, micro-mdxn, rexlzd foss, no vis por, bm, hd, whd, rgh gran tex, no vis por, SH; rd-bm, fiss-silty, blk-gry, lt-drk gn

5030

5040 LS; cm-lt gry, hd, micro-fxln, dns, foss, no vis por, tn-bm, hd, micro-vfxln, clst incl, dns, no vis por

5050 LS (% dec); cm-lt gry, hd, micro-fxln, dns, foss, no vis por, SH; rd, fiss, bm, silty, grty, gn mott blk, blk, gry

5060 LS; drk-lt gry, hd, micro-vfxln, sli sub suc, dns, no vis por, sli chky, 1 pc of buff, vf-fxln w scat vggly por, sme stn, no odr, VSSF0, SH; blk, carb, gry, rd, fiss

5070 SH; rd, bm, blk, gry, fiss, gn, fiss to silty; LS, AA (dec %)

5080 SH; rd, bm, blk, gry, fiss, gn, fiss to silty, LS (inc %) lt tn, hd, microxln, dns, micrite, no vis por

5090 SH; rd, bm, blk, gry, fiss, gn, fiss to silty;

5100 LS; lt-drk tn, hd, gry, micro-vfxln, mstly sm tex, no vis por, pyr, 1 pc of tn ooid clus, wl cmt, p intooid por, SH; AA

5110 LS; tn-lt gry, hd, micro-vfxln, mstly sm tex, dns, no vis por, sli chky, 1 pc of buff ool w scat vggly por, sme d d stn, sli odr, no flor, no cut, SH; blk, carb, gry, rd, fiss

5120 SH; blk, carb, gry, lt gry, v sft, red-bm, sme silty

5130 LS; tn, hd, microxln, dns, smwt foss, md gr ooid clst, hd, wl cmt, v p intooid por, SH; AA (dec%)

5140 LS; buff, cm, hd-brit, micro-vfxln, mstly dns, sli chky, bm, vf-fxln, hd, rgh gran tex, sli whd ap, no vis por, Abd SH, AA

5150 LS; buff, cm, hd-brit, micro-vfxln, mstly dns, sli chky, no vis por, no stn, no odr; abd SH; rd-bm, fiss-silty, blk, carb, gry, fiss-v sft, lt-drk gn

5160 LS; buff, cm, dns inc, chky ip, SH; rd-bm, fiss-silty, blk, carb, gry, fiss-v sft, lt-drk gn

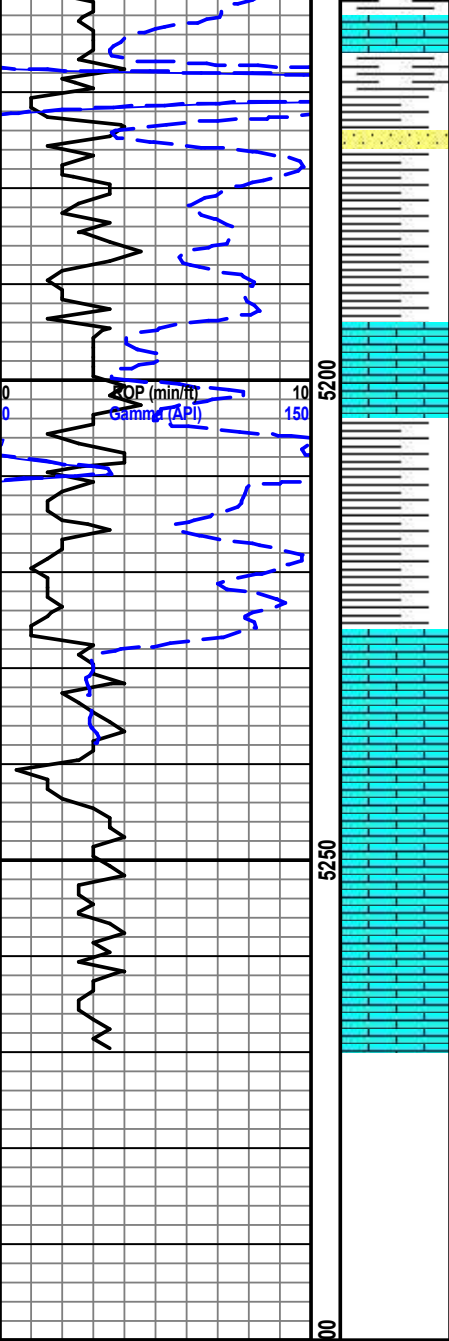
5170

—Marmaton 4985 (-1303)—

—Pawnee 5017 (-1335)—

VIS 51
WT 9.2
LCM 2#

—Cherokee 5100 (-1416)—



5180 LS; buff. cm, hd-brit, micro-vfxln, mstly dns, sli chky, no vis por, no stn, no odr, abd SH; rd-bm, fiss-slty, blk, carb, gry, fiss-v sft, lt-drk gn

5190 SS; cm-buff, vfn-crs gr clus, pr-fr srted, subang-submd qrtz, brit-fri, mstly ti, occ glauc & blk spks, sft calc cmt, v pr-fr IG por, no stn, no odr, no flor, NS, SH; rd-bm, fiss-slty, blk, carb, gry, fiss-v sft, lt-drk gn, LS; AA % dec

5200 LS; cm-buff-gry, micro-vfxln, mstly dns, pr por, n stn, NS, some Sd; clr-gry, scat gn & blk spks, fn crs gr qrtz clus, submd, smwt fri, no stn, no flor, pr-fr IG p or NS

5210 LS; lt-md gry, tn-bm, micro-fnxln, s foss ip, mstly dns, v vis por, NS, Abd SH; rd-bm, blk-gry-gn, no odr

5220 LS; AA (% inc), SH; AA (% dec) some Sd; clr-gry, vf crs gr qrtz clus, submd, w cmt, pr IG por, no stn, no flor, no odr, NS

5230 LS; buff-cm-gry, sft-brit-hd, microxln-mdxln, subsuc-chky, pr-fr inxln por, no stn, no odr, NS

5240 SH; blk-gry-rd-bm-gn, LS; buff-cm, smwt brit-hd, vf-fnxln, sme rgh xln tex, chky ip, pr-fr intxn por, no stn, no odr, NS
SH; blk, carb, grys, rd-bm, fiss-sli slty, turq, gummy, abd LS; AA

5250 LS; cm-tn, sft-brit-hd, fn-microxln, sme suc dol pcs, wht, fnxln, fr intxn por, no stn, chk in α, no odr, NS

5260 LS; lt buff-cm, smwt brit-hd, vf-fnxln, sme rgh xln tex, chky ip, pr-fr intxn por, no stn, scat Sd clus, fngrd, cln, brit-fri, fr IG por, no stn, no flor, no odr, NS

5270 LS; buff-cm, hd, incr cpxln, dec chk, SH; blk-gry, rd-bm-gn, some v ti gry & blk vfgr Sd clus

60' LS; cm-buff-tn, AA, no vis por, no stn no odr, NS

—Atoka 5200 (-1518)—

RTD 5270
LTD 5272

Respectfully submitted,
Ryan Davis



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

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

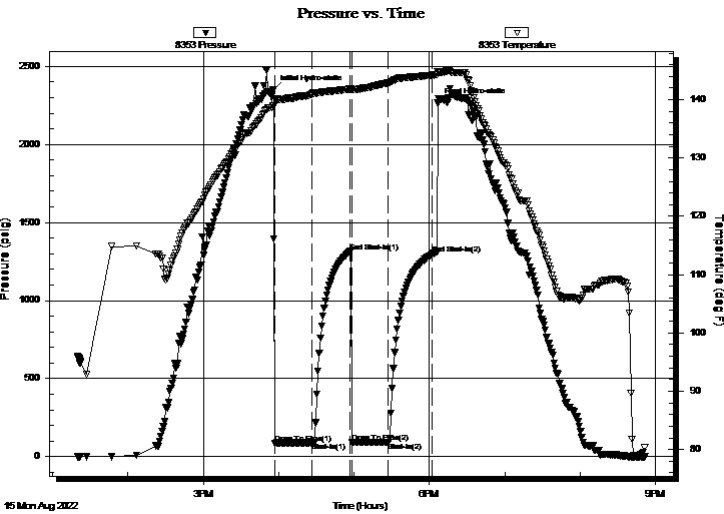
11-2S-39W Cheyenne, KS
Orth #1
 Job Ticket: 68952 **DST#: 1**
 Test Start: 2022.08.15 @ 13:20:00

GENERAL INFORMATION:

Formation: **LKC "K"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 15:56:45
 Time Test Ended: 20:51:15
 Interval: **4818.00 ft (KB) To 4876.00 ft (KB) (TVD)**
 Total Depth: 4876.00 ft (KB) (TVD)
 Hole Diameter: 7.87 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Nathan Aneas
 Unit No: 71
 Reference Elevations: 3682.00 ft (KB)
 3677.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 8353 Inside
 Press@RunDepth: 93.71 psig @ 4819.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2022.08.15 End Date: 2022.08.15 Last Calib.: 2022.08.15
 Start Time: 13:20:01 End Time: 20:51:15 Time On Btm: 2022.08.15 @ 15:55:45
 Time Off Btm: 2022.08.15 @ 18:06:30

TEST COMMENT: 30:IF- Weak surface blow , built to 1/4 inch in 10 min, final blow is 1/2 inch
 30:IS- No blow back
 30:FF- Weak surface blow , final blow is 1/4 inch
 30:FS- No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2352.48	138.91	Initial Hydro-static
1	87.23	140.09	Open To Flow (1)
31	89.08	141.06	Shut-In(1)
61	1313.75	141.82	End Shut-In(1)
63	90.97	141.68	Open To Flow (2)
92	93.71	142.84	Shut-In(2)
127	1295.69	144.22	End Shut-In(2)
131	2265.30	144.84	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	Mud 100%M (Spots of oil)	0.59
20.00	Mud 100%M (Spots of oil)	0.28

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-39W Cheyenne, KS
Orth #1
Job Ticket: 68952 **DST#: 1**
Test Start: 2022.08.15 @ 13:20:00

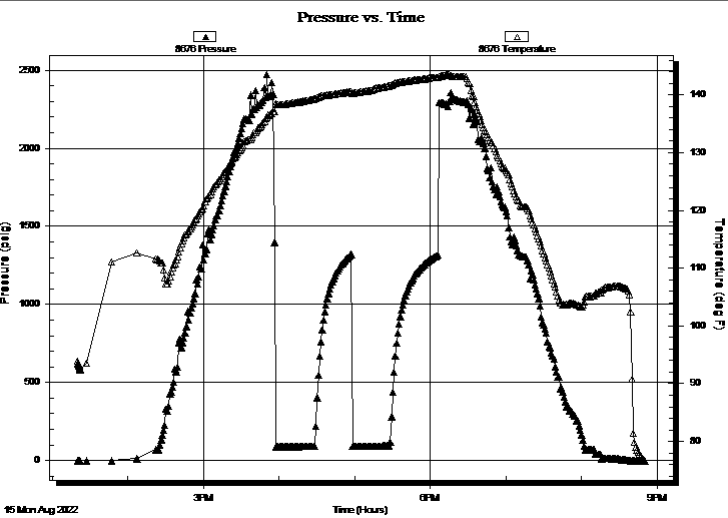
GENERAL INFORMATION:

Formation: **LKC "K"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 15:56:45
Time Test Ended: 20:51:15
Interval: 4818.00 ft (KB) To 4876.00 ft (KB) (TVD)
Total Depth: 4876.00 ft (KB) (TVD)
Hole Diameter: 7.87 inches Hole Condition: Fair

Test Type: Conventional Bottom Hole (Initial)
Tester: Nathan Aneas
Unit No: 71
Reference Elevations: 3682.00 ft (KB)
3677.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 8676 Outside
Press@RunDepth: psig @ 4819.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2022.08.15 End Date: 2022.08.15 Last Calib.: 2022.08.15
Start Time: 13:20:01 End Time: 20:51:00 Time On Btm:
Time Off Btm:

TEST COMMENT: 30:IF- Weak surface blow , built to 1/4 inch in 10 min, final blow is 1/2 inch
30:IS- No blow back
30:FF- Weak surface blow , final blow is 1/4 inch
30:FS- No blow back



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
120.00	Mud 100%M (Spots of oil)	0.59
20.00	Mud 100%M (Spots of oil)	0.28

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

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

11-2S-39W Cheyenne, KS
Orth #1
Job Ticket: 68952 **DST#: 1**
Test Start: 2022.08.15 @ 13:20:00

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: 55.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.20 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 900.00 ppm			
Filter Cake: 2.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
120.00	Mud 100%M (Spots of oil)	0.590
20.00	Mud 100%M (Spots of oil)	0.281

Total Length: 140.00 ft Total Volume: 0.871 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:

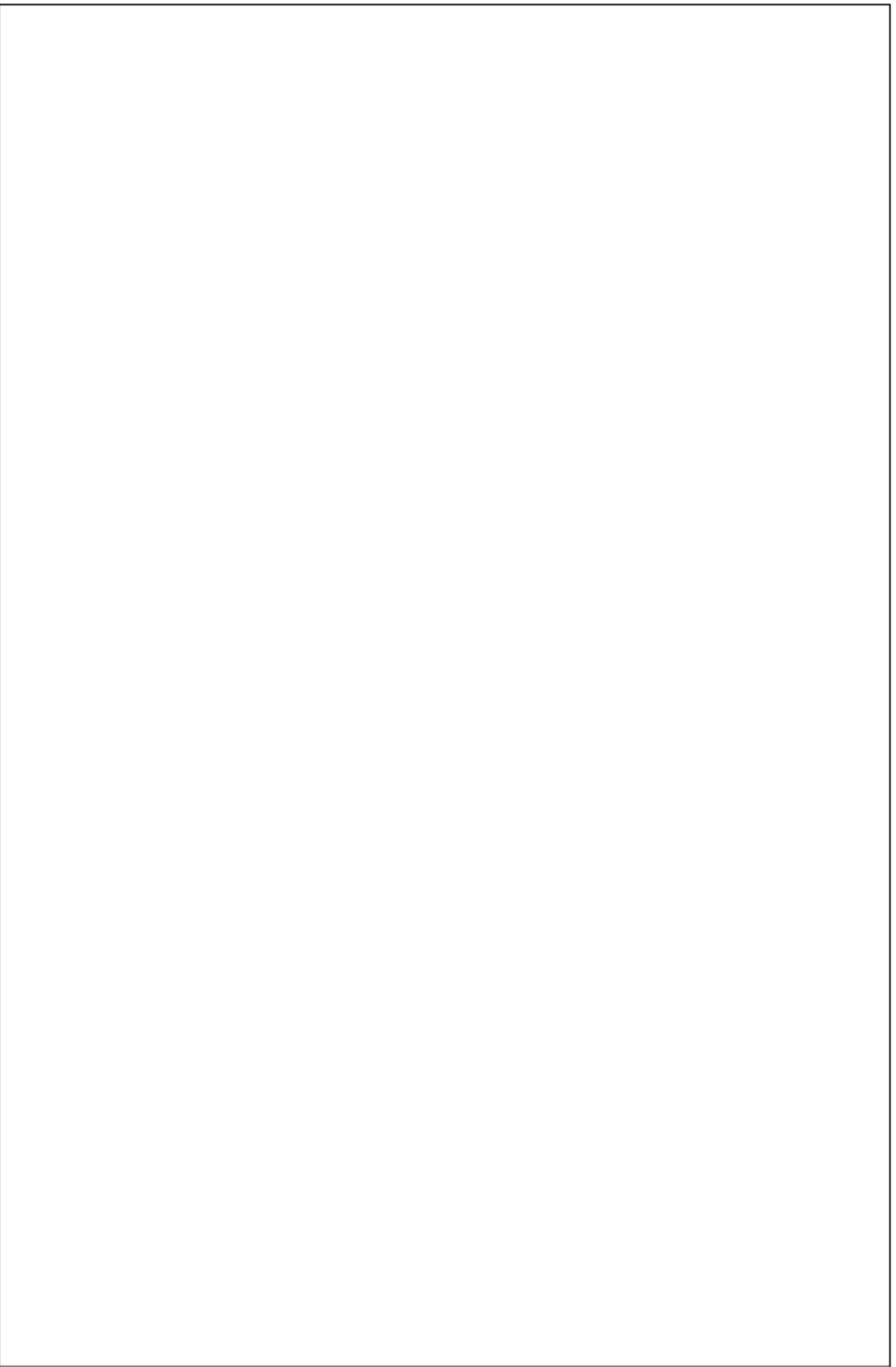
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Inside

Red Oak Energy Inc

Orth #1

DST Test Number: 1



Triobite Testing, Inc

Ref. No: 68952

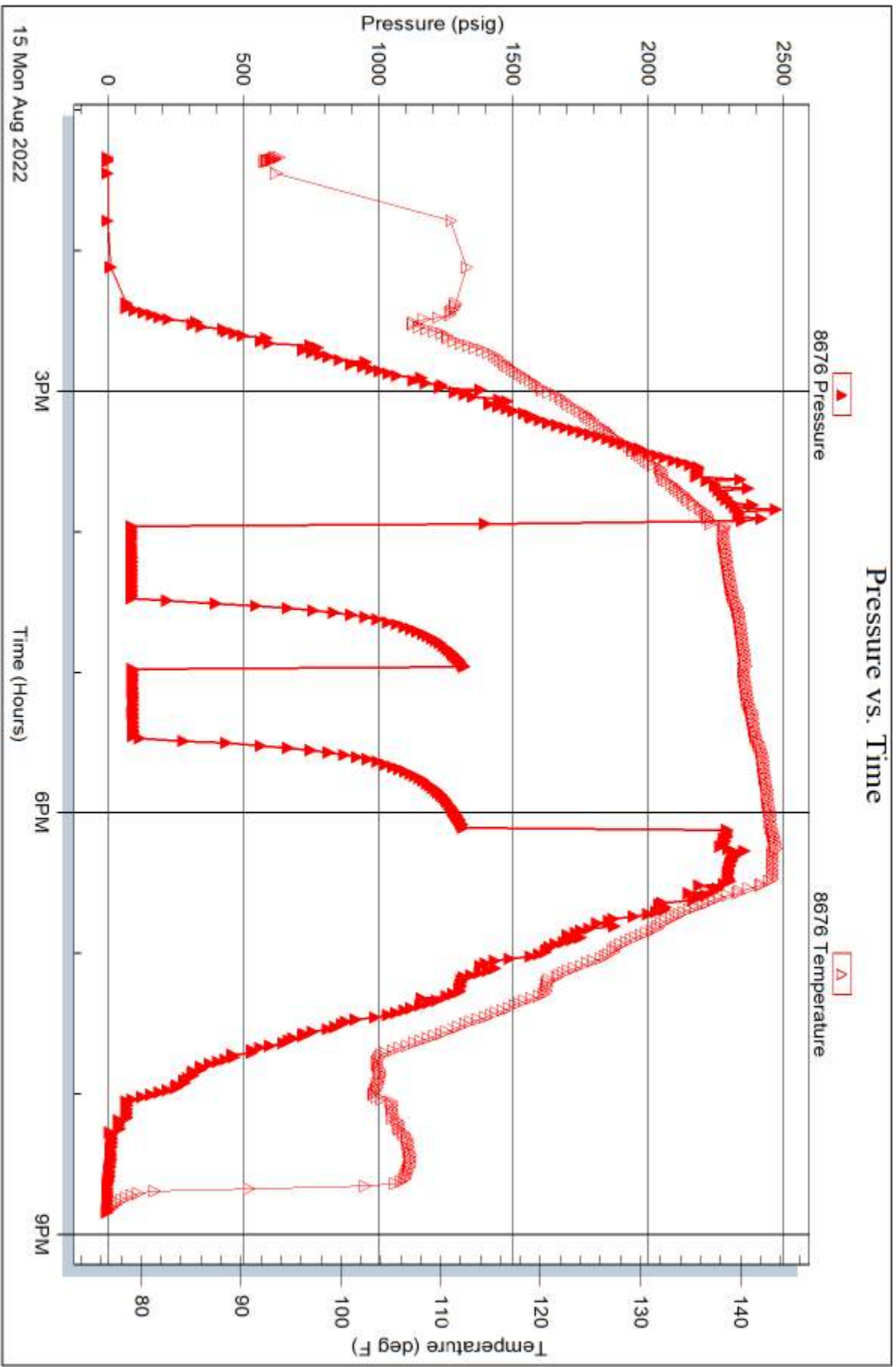
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Serial #: 8676

Outside Red Oak Energy Inc

Orth #1

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 68952

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