

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)</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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BLACK ROCK

— R E S O U R C E S , L L C —

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

Well Name: Polifka 18-2
API: 15-063-22405
Location: 1067' FSL, 634' FEL
License Number: 35310
Spud Date: 4/11/22
Surface Coordinates: 38.918305, -100.24556

Region: Gove Co.
Drilling Completed: 4/19/22

Bottom Hole same as surface
Coordinates:
Ground Elevation (ft): 2515 K.B. Elevation (ft): 2525
Logged Interval (ft): 3500 To: 4419' Total Depth (ft): 4419'
Formation: Mississippian
Type of Drilling Fluid: Chemical based mud

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

OPERATOR

Company: Black Rock Resources, LLC
Address: PO Box 553
Russell, Ks 67665

GEOLOGIST

Name: Chad Counts
Company: MG Oil Inc.
Address: P.O. Box 162
Russell, Ks 67665

Comments

Polifka 18-2 was drilled with Southwind Rig #8 rotary tools commencing 4-11-22, and total depth was reached 4-19-22.

The well ran structurally lower compared to the other Polifka wells and lower than seismic prognosis. Owing to very poor reservoir development, structural position, and the negative results of DST #1; it was elected by the operator to plug and abandon the Polifka 18-2.

Respectfully submitted,

Chad Counts

GENERAL INFORMATION:

Formation: **KC "I - K"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 10:49:10
 Time Test Ended: 14:36:00
 Interval: **3945.00 ft (KB) To 4013.00 ft (KB) (TVD)**
 Total Depth: **4013.00 ft (KB) (TVD)**
 Hole Diameter: **7.88 inches** -hole Condition: **Good**
 Test Type: **Conventional Bottom Hole (Initial)**
 Tester: **Marlene Salinas**
 Unit No: **66**
 Reference Elevations: **2525.00 ft (KB)**
2515.00 ft (CF)
KB to GR/CF: 10.00 ft

Serial #: 8734 **Outside**
 Press@RunDepth: **40.46 psig @ 3946.00 ft (KB)**
 Start Date: **2022.04.18** End Date: **2022.04.18** Capacity: **8000.00 psig**
 Start Time: **08:35:01** End Time: **14:36:00** Last Calib.: **2022.04.18**
 Time On Blrm: **2022.04.18 @ 10:49:00**
 Time Off Blrm: **2022.04.18 @ 12:48:00**

TEST COMMENT: 5-IF-Blow built to 1/2"
 36-ISI-No return
 30-FF-Blow built to 1/2"
 45-FSI-No return

Pressure vs. Time

PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1950.12	112.21	Initial Hydro-static
1	29.21	111.35	Open To Flow (1)
6	31.40	111.69	Shut-In(1)
41	1191.35	113.01	End Shut-In(1)
41	32.35	112.41	Open To Flow (2)
73	40.46	113.51	Shut-In(2)
119	1103.08	115.49	End Shut-In(2)
119	1923.27	115.92	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
25.00	100% Mud w /Oil specks	0.35

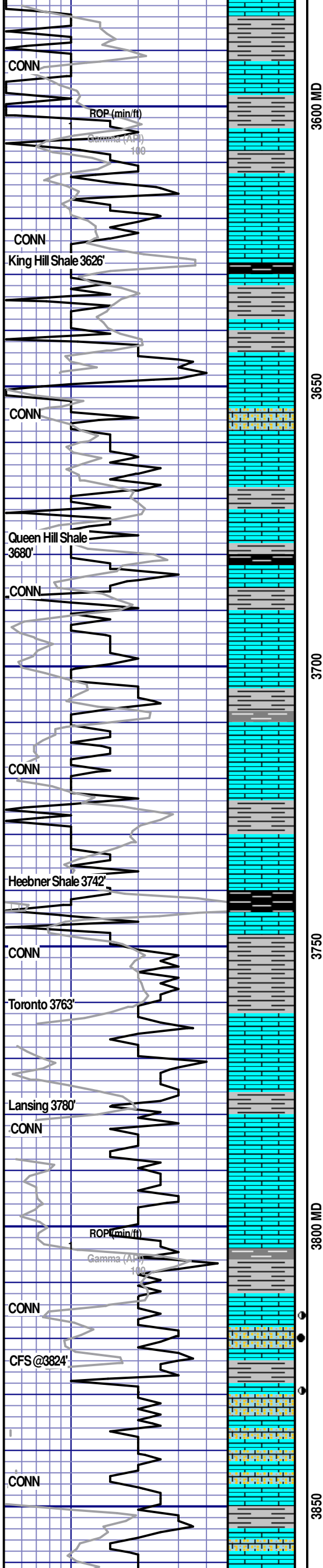
Gas Rates

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

ROCK TYPES

	Anhy		Coal		Igne		Mrlst		Shgy
	Bent		Oolitic limestone		Dark grey shale		Salt		Sltst
	Brec		Congl		Black shale		New symbol		Ss
	Cht		Dol		Lmst		Shale		Till
	Clyst		Gyp		Meta		Shcol		

Curve Track 1 ROP (min/ft) Gamma (API)	Lithology	Oil Shows	MD	DST	Straddle DST	Porosity Type	Image	Geological Descriptions	Remarks
		<p>35</p>	<p>3550</p>					<p>Sh: med-dk grey, mod firm, sup platy-platy, sl cal. <5% light grey shaly limestone, dense, trc fossil frag, NSOC.</p> <p>Sh: med grey, subplaty-platy, firm, calc. 10% Ls: cream-grey, micro xln, lithgraphic tex, abdnt fusulinids, no vis por, NSOC.</p> <p>Sh: med-lt grey, micaceous, sub platy-platy, sl calc, occ. soft, gummy. Ls: lt grey-cream, micro xln, no vis por, occ fossil frag, NSOC.</p> <p>Sh: med-dk grey, mod firm, subplaty, sl micaceous, sl calc, non carb. Ls: cream, lt grey, micro xln, no vis por, sl marl cont, NSOC.</p> <p>30% Ls: cream, light grey, sl arg, micro xln, sl marl, no vis</p>	<p>4/16/22 8:00pm geologist on location.</p> <p>MW 8.6</p>



por, NSOC. Sh: med grey, sub platy, mod firm, non carb.

vis 58
2# LCM

75% Ls: cream, buff, fine-micro xln, brittle, trc fossil frag, sl arg, mod marl cont, no vis por, NSFOC. Sh: med grey, subplaty, mod firm, sl calc.

Ls: lt grey- creamy white, fn xln-micro xln, poor vis invl por, trc pp vug, p-mod marl, sl arg, NSOC. 10% lt grey green sh, platy, mod firm.

Ls: cream, grey, micro xln-fn xln, occ. fossil frag, several fusulinids, occ. mottled plant mat, brittle, sl arg, NSOC. Sh: lt-med grey, sub platy-platy, sl silty-non silty, mod firm.

Ls: ls cream, light grey, brown, micro xln, earthy tex, trc oolitic grainstone 250-350 microns, very poor-no sec por, NSOC. 1% black shale, firm, platy, mod carb. 20% med -lt grey shale, sub platy-non platy, mod firm.

Ls: cream-off white,, lt grey, fn-micro xln, occ. brittle, sl cherty, trc oolitic gs aa, poor vis inxl por, sl. arg, trc fossil, mod marl, NSOC. 10% Sh: dove grey-grey green, sub platy.

Ls: cream, lt grey, micro xln, occ. fossil frag, sl arg, no vis por, NSOC. 10% lt grey shale.

Ls: cream, off white, fn xln-micro xln, <5% oolitic, 250-350microns, well std, poor-fair ingl sec por, barren, NSOC.

Ls: cream, light grey, fn xln, brittle, poor vis inxl por, mod marl, trc fossil frag, NSOC.

Ls: cream, buff, lt grey, micro xln, trc oolitic, <250 microns, poor sec por, mod hvy marl, occ. mottled plant mat, NSOC.

Ls: cream, lt grey, lt brown, fn xln occ. fossil frag, mod hvy marl, no vis por, NSOC.

25% Black shale, firm platy, very carb, firm. Ls: grey brown, earth tex, occ mottled w/plant material, trc scat pp vugs, mod-hvy marl cont, NSOC,

70% Sh: light-med grey, soft, easily washed, occ sub platy, sl gritty, non calc. 30% Ls: cream,buff, micro xln, poor vis por, NSOC.

90% sh: light grey, dove grey, very soft, gummy, occ. sl gritty and blocky, non calc. 10% Ls: cream, micro xln, sharp cleavage, no vis por, NSOC.

Ls: cream, micro xln-fn xln, occ scatt pp vugs, trc vfn spary calc, poor por, sl marl cont, sl. cherty, NSOC.

Ls: cream, micro xln, trc oolitic ls, 350microns, well std, poor-no vis sec por, v dense, sl. marl, NSOC. Sh blue grey subplaty, and brick red shale (red wash), very soft, non calc.

Ls: cream, oolitic, 350-500microns, well std, trc vuggy por, overall poor sec por, dense, sl-mod marl, barren, NSOC.

Ls: cream, buff, micro xln, dense, trc scattered pp vugs (barren), trc oolitic gs, very poor sec por, NSOC.

Sh: med grey, very platy, calcareous, firm, sl carb.



Lansing C porosity: (<5% sample): white, oolitic ls, scattered uneven to partial vuggy por, dense, trc. marl, poor secondary por, scattered heavy black stain and sat among vugs, no odor, SSFO. 40' Carries more even vuggy oocastic porosity, 500-600microns, w/heavy black stain and sat, faint odor FSFO.



Ls: cream, buff, micro xln, dense,poor vuggy por, NSOC. Trc dark grey shale. 20% oolitic ls, poor sec por, well std, trc heavy scatterd stain and sat.

Ls: cream, buff, micro xln, fair scat vuggy por, very dense, NSOC.

Ls: cream, lt grey, micro xln mtrx, fair excellent vuggy por, trc sparry calcite, NSOC. Trc med grey shale.

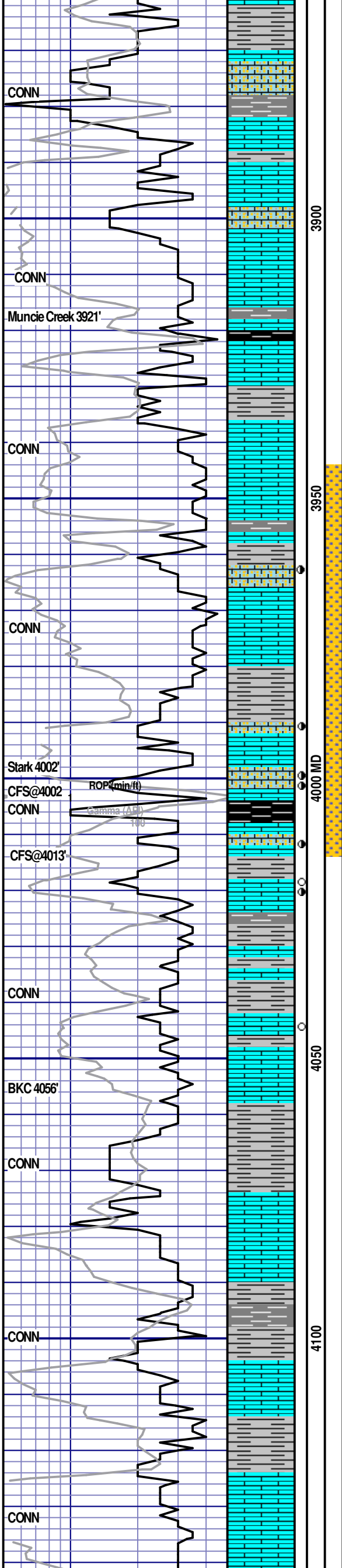
Mudco check
MW 8.9
Vis 60
Filtrate 5.8
chlorides 2000ppm
2# LCM

MW 9.0
VIS 60
2# LCM

Bit trip at 3750'. 7 7/8" pdc to 7 7/8" tricone.

Strap pipe=7' board short.

DST #2
Lansing C & D
3800-3830'
5-17-45-25
IFP 29-35psi
ISIP 1207 psi
FFP 35-78psi
FSIP 1187psi
Recovered:
110' MCW (62%W)
RW=775@66.5F



Ls: cream, lt grey, micro xln matrix, occ oolitic, <250 microns, scat pp. vugs, trc marl, poor sec por, NSOC. <5% dk grey-green subplaty sh.

Oolitic ls, cream, lt grey, fn xln, sl cherty, oolids-250microns, well std, excellent vuggy, castic por, barren, NSOC.

Ls: cream, fn xln, suggary text, occ vfn oolitic ls, <250 microns, fair inxl por, NSOC.

Ls: cream, fn xln, 50% oolitic, mod stds, few large clast, fair-good vuggy castic por, NSOC.

Ls: cream, lt grey, micro xln-fn xln, sl-mod marl, poor vis inxl por, dense, NSOC.


Ls: cream, micro xln, 10% oolitic ls, no vis sec por, dense, NSOC. 5% Black shale, firm, platy, carb.

Ls: lt grey brown, brown, micro xln, sl arg, occ mottled w/plant mat, very sharp cleavage, occ. fossil frag, NSOC. 5% black shale a.a

Ls: grey-brown, micro xln, mod-heavy arg, mottled, earth text, abundant fossil frag, no vis sec por, NSOC. Sh: med grey-green, grey, subplaty-platy, sl calc.


Cream, lt brown, packstone, several shell and fossil frag, sl arg, no vis sec por, very dense, NSOC. <5% med blue grey shale, subplaty.

Ls: light grey-off white, micro xln, lithographic, sharp cleavage, very dense, r fossil frag, NSOC.

 KC I porosity: white, w dk brown spotty stn, oolitic grainstone, 350-500 micron ooids, v well std, poor oolitic por, very scattered stain and slight saturation.ssfo, faint-ques odor. Few droplets on cup.

Ls: cream-grey, micro xln, very dense, no vis por, NSOC.

Sh: med grey, red(red wash, soft), subplaty, sl calc.

 KC J porosity: lt grey, packstone, fn xln, poorly std clasts, scattered to occ. even pp vuggy por, r sparry calcite, few cuttings w/dead black flaky oil, slight sat and stain, faint-fair odor, few oil droplets on cup..

Black shale: firm, platy, very carb/

KC K por: v. fine oolitic grainstone, <200microns, well std, very well cemented, even micro vuggy por, tight, oil and gas slowly seeping from pore throats, fair odor, fsfo.

 KC K Base: Ls cream, lt grey, sl cherty, occ. vf xln, poor scat edge por, spotty stain, very weak sat, tight, vssfo, weak odor.

Dk grey sh: sub platy-non platy, firm, sl calc. Sh Ls: lt-med grey, v arg, well cem, dense, sharp cleavage, no vis por, NSOC.

Ls light-med grey,cream, shaly, hvy arg, micro xln, r fn xln, no vis por, 1-2 cuttings w dead stain, NSOC.

Ls: cream-lt grey, arg, micro xln, no vis por, NSOC. Sh: grey-green, subplaty, mod firm, sl calc.

Ls: lt grey- grey, hvy arg, micro xln, trc fossil frag, sl cherty. Sh: light grey-med and dk grey, sub platy to very light grey wash.

Sh: lt grey-med grey, soft-subplaty, firm, sl calc. Ls: cream,lt grey, microxln, dense, occ r pp vug, nsoc.

Sh: med grey-grey, sub platy platy, firm, non silty, occ. calc. Ls: cream, lt grey, trc oolitic<250microns, poor-no sec por, very dens, NSOC.

Ls: cream, lt grey, micro xln,hvy arg, no vis por, sharp cleavegae, NSOC. Sh: light grey-dkgrey, sl micaceous, sub platy-non platy.

Ls: Lt grey, buff, micro xln, v dense, no vis por, NSOC.

Ls: creamy yellow, heavily mottled w various colors, mod marl, cherty (vary color), very dense, no vis por, NSFOC.

Sh: light grey-grey, grey wash, occ. sub platy, sl gritty, Ls: cream, beige, brown, grey, micro xln, occ. mottled, sl chert, dens, no por, NSFOC.

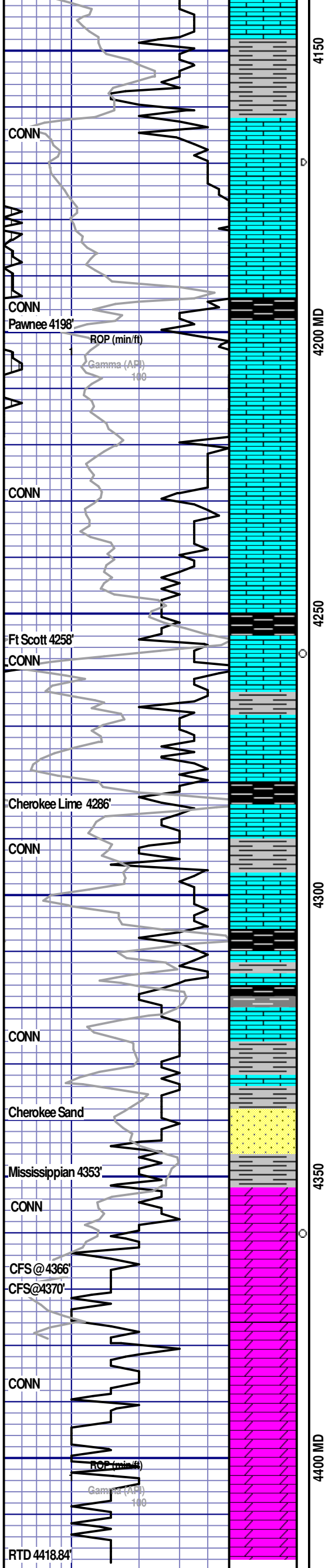
Ls: vary colored, mottled, dense, mod-hvy marl, no vis por, NSFOC.

DST#1
KC I-KC K
3945-4013'
5-36-30-45
IFP 30-31psi
ISIP 1191psi
FFP 32-40psi
FSIP: 1103psi
Recovered:
25' OSM

MW 9.2
VIS 56
2# LCM

MW 9.2
VIS 59
2# LCM

Mudco check
MW 9.0
Vis 61
Filtrate 5.8
chlorides 2000ppm
2# LCM



Ls: marl, light grey, micro xln, litho tex, no vis por, mod marl cont. Grey shale & various other colored shale.

Ls: cream, off white, micro xln, noi vis por, mod marl, sl cherty (orange yellow, grey), Sh: dk grey-purple, subplaty, firm, non carb.

Ls: cream, lt grey, buff, micro xln, on cutting white w/ dead scat oil stain, sl cherty, NSFOC. Sh: light grey, soft much, easily washed.

Ls: cream-lt grey, micro xln, no vis por, <1% w/ scattered dead stain, very scattered and edgy, r scat pp vug, no odor, NSFOC. Abdnt light grey shale wash.

Ls: light-med grey, micro xln, mod arg, very dense, no vis por, NSFOC.

Ls: cream light grey, micro xln, dense, no vis por, NSFOC. Sh: med-dk grey, very platy, brittle, sl. carb. Black shale, firm, Carb.

Ls: light grey-buff, cram, micro xln, mod arg, desne, sharp cleavage, no vis por, NSFOC.

Ls: ligh grey-grey, hvy arg, micro xln, no vis por, NSFOC.

Ls: grey-dk grey, hvy arg, micro xln, no vis por, NSFOC. Sh: med-dk grey, sub platy-platy.

Ls: grey-dk grey, micro xln, v arg, no vis pro, NSFOC.

Ls: lt-med grey, micro xln, v arg, NSFOC. Black shale: sub platy, soft, brittle, v carb, non calc.

Flood black shale: soft, sub platy-platy, very carb, non calc. Abdnt marl. 10% ls: beige brown, micro xln, few crinoids, no vis por. 1 cutting oolitic w good castic por, and spotted sat/stain, no odor,

Ls: cream-beige, grey, micro xln, sl. cherty, v dense, mod marl, no vis por, NSFOC.

Ls: light grey brown, micro xln, arg, occ. crinoids, sl cherty, no vi por, NSFOC. 10% Black shale: firm, very platy, sl. calc, carb.

Ls: cream-lt grey, micro xln, litho tex, no vis por, mod marl, trc fossil frag, sl. cherty, translucent, NSFOC. Sh: lt-dk grey, black, platy-soft, occ calc.

Ls: light grey, cream, micro xln, mod arg, trc fossil frag, mod marl, no vis por, NSOC. Various shales: lt grey-dk grey, soft-subplaty.

Ls: cream, lt grey, micro xln, mod arg, sl marl, very dense, no vis por, NSOC. 20% grey-med grey shale.

Ls: light grey, cream, micro xln, occ r scat pp vug, mod arg, NSOC. Sh: dk grey-blk, platy, firm, sl calc.

Ls: lt grey, cream, occ. mottled, mod arg, occ. pp vugs, occ. pp vugs. Sh: grey-green, waxy, sub platy.

Ls: lt grey-cream, micro xln, occ mottled, cherty. no vis por, NSFOC. Various colored shale, maroon, red, grey, yellow. Hvy red and grey wash.

SS: white, vfg, 125-250microns, well std, very well cons, calcite cement, no vis por, NSFOC. Ls: lt grey, cream, off white, micro xln, no vis por, sl cherty NSOC.

Dolomite: beige-lt brown, fair-good vuggy porosity, occ. spary, abdnt gold/yellow chert w/spiculite. 3 cuttings found white w/ spotty saturation and stain, fair porosity, no odor, vvsfso.

Dolo: beige-lt brown, excellent vuggy por, NSFOC.

Dolo: beige-lt brown, 50% w/ excellent vuggy porosity, 50% dense, micritic dolo. NSFOC. no odor.

Dolo: cream-beige, fn xln, 350-500micron vugs, excellent por, NSFOC.

Dolo: cream, beige, fn xln, excellent vuggy porosity, NSFOC.

Dolo: beige, fn xln, good vuggy por, NSFOC.

MW 9.1
Vis 62
2# LCM

Mudco check
MW 9.2
Vis 62
Filtrate 6.8
chlorides 2000ppm
1# LCM

MW 9.2
VIS 60
2# LCM

QUALITY WELL SERVICE, INC.

7938

Federal Tax I.D. # 481187368

Home Office 30060 N. Hwy 281, Pratt, KS 67124

Mailing Address P.O. Box 468

Office 620-727-3410
Fax 620-672-3663

Rich's Cell 620-727-3409
Brady's Cell 620-727-6964

Date	Sec.	Twp.	Range	County	State	On Location	Finish
4-20-22	18	13S	26W	GOVE	Ks		
Lease POLIFKA	Well No. 13-2	Location Utica Ks W on Hwy 4 to Ard N to P&D					
Contractor Southwind Drilling E.G.	Owner 1/4 W N into			To Quality Well Service, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.			
Type Job PTA	Hole Size 7 7/8			Charge To BLACK ROCK RESOURCES LLC			
Csg.	Tbg. Size 4 1/2 O P			Street P.O. Box 553			
Tool	Cement Left in Csg.			City RUSSOUL State KS 67166-0553			
Meas Line	Displace			Cement Amount Ordered 255x 60/40 4 1/2 FEL			
EQUIPMENT				1/4" PS			
Pumptrk 8 No.	Bulktrk 10 No.			Common 153x			
Bulktrk No.	Pickup No.			Poz. Mix 102 5x			
				Gel. 377"			
				Calcium			
JOB SERVICES & REMARKS				Hulls			
Rat Hole 30 x 60/40 4 1/2 FEL 1/4" PS				Salt			
Mouse Hole 15x 60/40 4 1/2 FEL 1/4" PS				Flowseal 64			
Centralizers				Kol-Seal			
Baskets				Mud CLR 48			
D/V or Port Collar				CFL-117 or CD110 CAF 38			
1st Plug 2040'				Sand			
Pump H2O				Handling 264			
50x 60/40 4 1/2 FEL 1/4" PS				Mileage 60/13500			
Pump H2O				8 5/8 FLOAT EQUIPMENT			
Disp man				Guide Shoe 8 5/8 D&H HOLE PLUG			
2nd Plug 1100'				Centralizer			
Pump H2O				Baskets			
100x 60/40 4 1/2 FEL 1/4" PS				AFU Inserts			
Disp H2O				Float Shoe			
3rd Plug 310'				Latch Down			
Pump H2O				SERVICE SPIN 1 EA			
50x 60/40 4 1/2 FEL 1/4" PS				LW 60			
Disp H2O				Pumptrk Charge PTA			
4th Plug 40'				Mileage 120			
10x 60/40 4 1/2 FEL 1/4" PS				Tax			
THANK YOU PLEASE CALL AGAIN				Discount			
Signature TOMM MIKE BRADY				Total Charge			

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-1071
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. 2761

Date	4-11-22	Sec.	18	Twp.	13	Range	36	County	Gove	State	Ks	On Location		Finish	9:00pm
------	---------	------	----	------	----	-------	----	--------	------	-------	----	-------------	--	--------	--------

Location Quinter 8S 1/2W

Lease	<u>POLITKA</u>	Well No.	<u>18-2</u>	Owner	To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.
Contractor	<u>Southwind</u>			Charge To	<u>BLACK ROCK RESOURCES</u>
Type Job	<u>SURFACE</u>			Street	
Hole Size	<u>12 1/4</u>	T.D.	<u>270</u>	City	State
Csg.	<u>88</u>	Depth	<u>270</u>	The above was done to satisfaction and supervision of owner agent or contractor.	
Tbg. Size		Depth		Cement Amount Ordered	<u>1800/ 80/20 3-2</u>
Tool		Depth			
Cement Left in Csg.	<u>15</u>	Shoe Joint			

Meas Line Displace 16 1/4

EQUIPMENT

Pumptrk	<u>18</u>	No.	Cementer	<u>Bill</u>	Common	<u>143</u>
			Helper		Poz. Mix	<u>35</u>
Bulktrk		No.	Driver	<u>NICK</u>	Gel.	<u>3</u>
Bulktrk		No.	Driver	<u>DOUG</u>	Calcium	<u>7</u>

JOB SERVICES & REMARKS

Remarks:

Rat Hole

Mouse Hole

Centralizers

Baskets

D/V or Port Collar

Handling 190

Mileage

RAN 6 Its net e
Cemt w/180 blk
pump plug w/ 16 1/4 bbls
Cemt did CURE

FLOAT EQUIPMENT

Guide Shoe

Centralizer

Baskets

AFU Inserts

Float Shoe

Latch Down

(Signature)

Pumptrk Charge Surface

Mileage 46

Signature Doug Roberts

Thanks

Tax

Discount

Total Charge



DRILL STEM TEST REPORT

Prepared For: **Black Rock Resources LLC**

P.O. Box 553
Russell, KS 67665

ATTN: Chad Counts

Polifka # 18-2

18-13S.-26W Gove, KS

Start Date: 2022.04.18 @ 08:35:00

End Date: 2022.04.18 @ 14:36:00

Job Ticket #: 68430 DST #: 1

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2022.04.27 @ 12:07:27



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Black Rock Resources LLC

18-13S.-26W Gove, KS

P.O. Box 553
Russell, KS 67665

Polifka # 18-2

Job Ticket: 68430

DST#: 1

ATTN: Chad Counts

Test Start: 2022.04.18 @ 08:35:00

GENERAL INFORMATION:

Formation: **KC "I - K"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 10:49:10

Time Test Ended: 14:36:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Martine Salinas

Unit No: 66

Interval: 3945.00 ft (KB) To 4013.00 ft (KB) (TVD)

Reference Elevations: 2525.00 ft (KB)

Total Depth: 4013.00 ft (KB) (TVD)

2515.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

Serial #: 8734 Outside

Press@RunDepth: 40.46 psig @ 3946.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2022.04.18

End Date:

2022.04.18

Last Calib.:

2022.04.18

Start Time: 08:35:01

End Time:

14:36:00

Time On Btm:

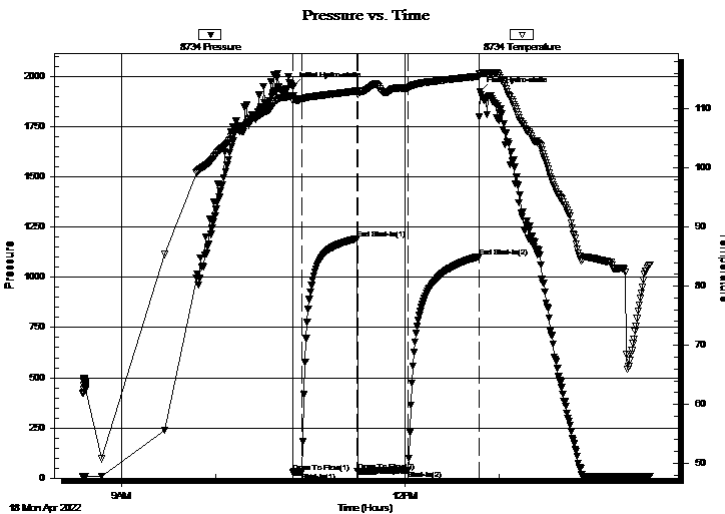
2022.04.18 @ 10:49:00

Time Off Btm:

2022.04.18 @ 12:48:00

TEST COMMENT: 5-IF-Blow built to 1/2"
36-ISI-No return
30-FF-Blow built to 1/2"
45-FSI-No return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1950.12	112.21	Initial Hydro-static
1	29.21	111.35	Open To Flow (1)
6	31.40	111.69	Shut-In(1)
41	1191.35	113.01	End Shut-In(1)
41	32.35	112.41	Open To Flow (2)
73	40.46	113.51	Shut-In(2)
119	1103.08	115.49	End Shut-In(2)
119	1923.27	115.92	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
25.00	100% Mud w /Oil specks	0.35

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Black Rock Resources LLC

18-13S.-26W Gove, KS

P.O. Box 553
Russell, KS 67665

Polifka # 18-2

Job Ticket: 68430

DST#: 1

ATTN: Chad Counts

Test Start: 2022.04.18 @ 08:35:00

GENERAL INFORMATION:

Formation: **KC " I - K "**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 10:49:10

Time Test Ended: 14:36:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Martine Salinas

Unit No: 66

Interval: **3945.00 ft (KB) To 4013.00 ft (KB) (TVD)**

Total Depth: 4013.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2525.00 ft (KB)

2515.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 8959

Inside

Press@RunDepth: psig @ 3946.00 ft (KB)

Start Date: 2022.04.18

End Date:

2022.04.18

Capacity: 8000.00 psig

Last Calib.:

2022.04.18

Start Time: 08:35:01

End Time:

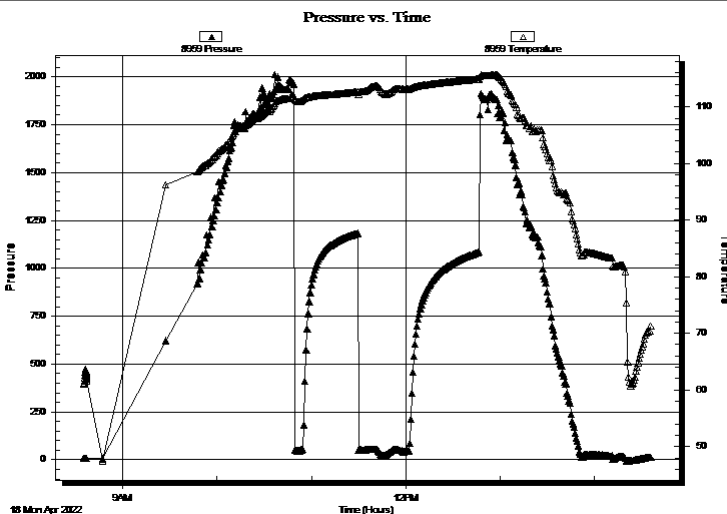
14:36:00

Time On Btm:

Time Off Btm:

TEST COMMENT: 5-IF-Blow built to 1/2"
36-ISI-No return
30-FF-Blow built to 1/2"
45-FSI-No return

PRESSURE SUMMARY



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

Recovery

Length (ft)	Description	Volume (bbl)
25.00	100% Mud w /Oil specks	0.35

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Black Rock Resources LLC

18-13S.-26W Gove, KS

P.O. Box 553
Russell, KS 67665

Polifka # 18-2

Job Ticket: 68430

DST#: 1

ATTN: Chad Counts

Test Start: 2022.04.18 @ 08:35:00

Tool Information

Drill Pipe:	Length: 3942.00 ft	Diameter: 3.80 inches	Volume: 55.30 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 55.30 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	3945.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	68.00 ft			
Tool Length:	101.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3913.00	
Shut In Tool	5.00			3918.00	
Hydraulic tool	5.00	1113		3923.00	
Jars	5.00	01-07		3928.00	
EM Tool	5.00			3933.00	
Safety Joint	3.00	-001		3936.00	
Packer	5.00			3941.00	33.00 Bottom Of Top Packer
Packer	4.00			3945.00	
Stubb	1.00			3946.00	
Recorder	0.00	8959	Inside	3946.00	
Recorder	0.00	8734	Outside	3946.00	
Perforations	30.00			3976.00	
Change Over Sub	1.00			3977.00	
Drill Pipe	32.00			4009.00	
Change Over Sub	1.00			4010.00	
Bullnose	3.00			4013.00	68.00 Bottom Packers & Anchor
Total Tool Length:	101.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Black Rock Resources LLC

18-13S.-26W Gove, KS

P.O. Box 553
Russell, KS 67665

Polifka # 18-2

Job Ticket: 68430

DST#: 1

ATTN: Chad Counts

Test Start: 2022.04.18 @ 08:35:00

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: 61.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.79 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
25.00	100% Mud w /Oil specks	0.351

Total Length: 25.00 ft Total Volume: 0.351 bbl

Num Fluid Samples: 0

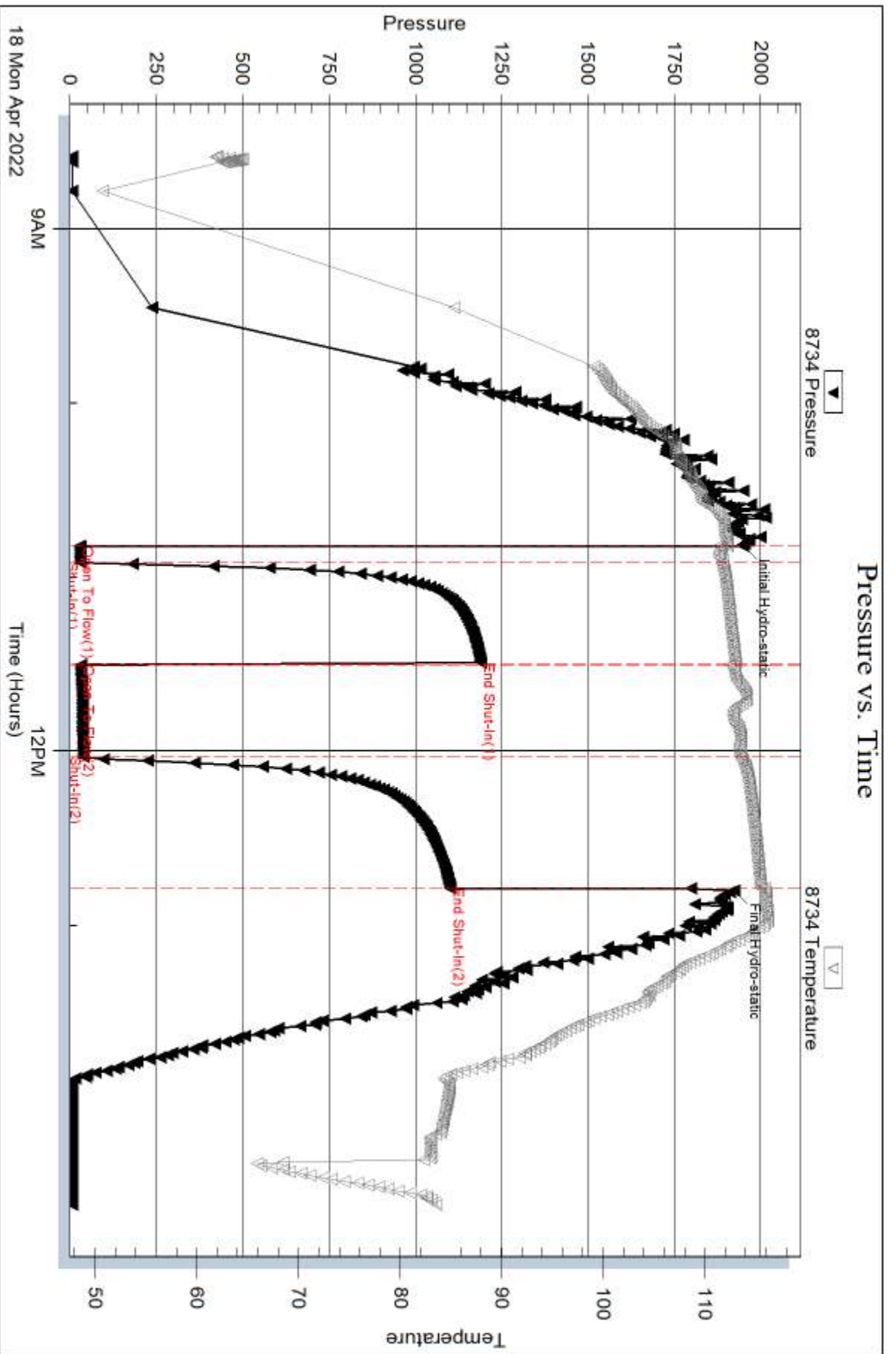
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



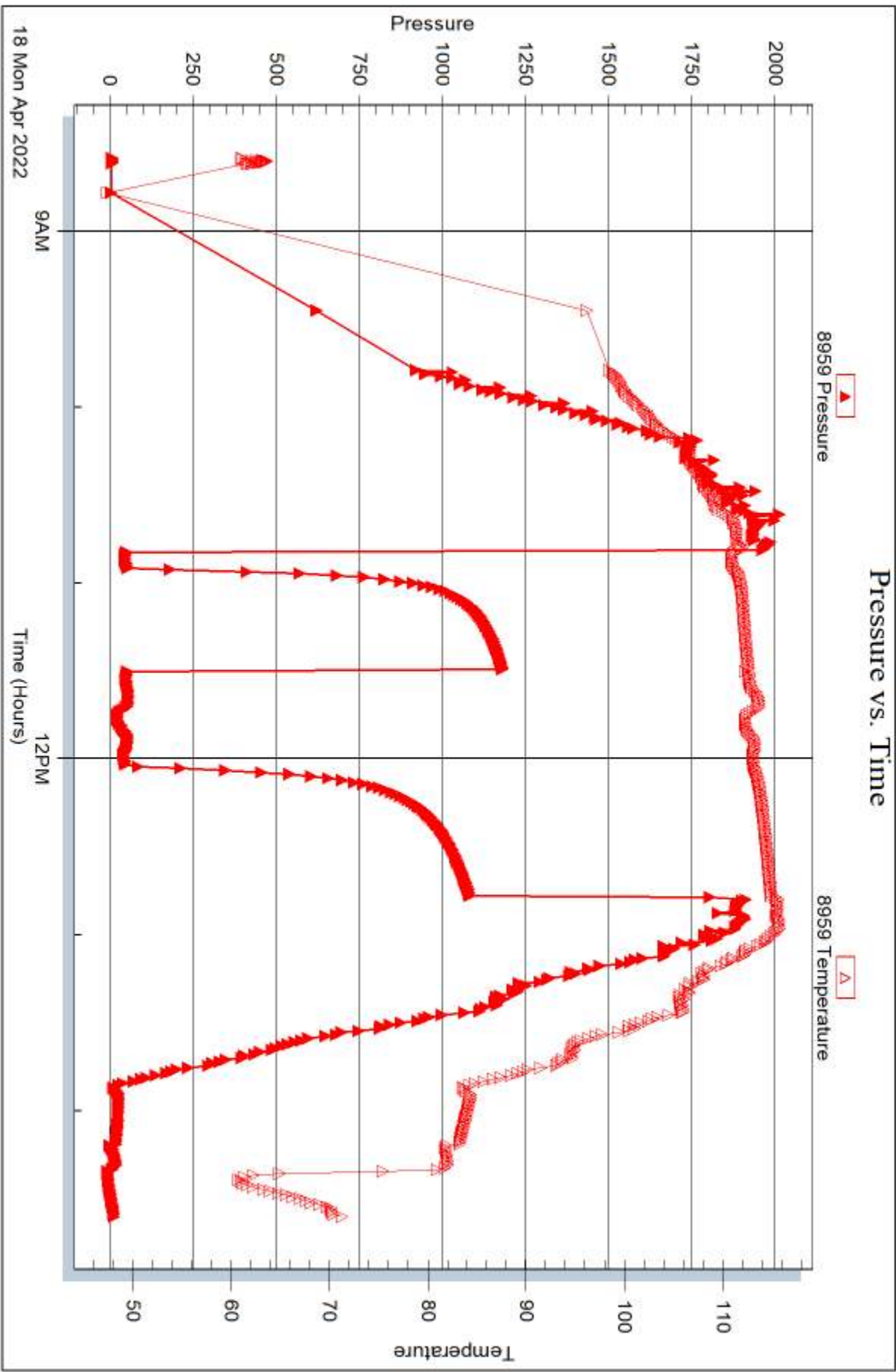
Serial #: 8959

Inside

Black Rock Resources LLC

Poifika # 18-2

DST Test Number: 1



18 Mon Apr 2022

Time (Hours)

Trilobite Testing, Inc

Ref. No: 68430

Printed: 2022.04.27 @ 12:07:29



DRILL STEM TEST REPORT

Prepared For: **Black Rock Resources LLC**

P.O. Box 553
Russell, KS 67665

ATTN: Chad Counts

Polifka # 18-2

18-13S.-26W Gove, KS

Start Date: 2022.04.20 @ 03:55:00

End Date: 2022.04.20 @ 11:28:00

Job Ticket #: 68431 DST #: 2

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2022.04.27 @ 12:06:21



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Black Rock Resources LLC

18-13S.-26W Gove, KS

P.O. Box 553
Russell, KS 67665

Polifka # 18-2

Job Ticket: 68431

DST#: 2

ATTN: Chad Counts

Test Start: 2022.04.20 @ 03:55:00

GENERAL INFORMATION:

Formation: **KC " C & D "**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 06:47:40

Time Test Ended: 11:28:00

Test Type: Conventional Straddle (Reset)

Tester: Martine Salinas

Unit No: 66

Interval: 3800.00 ft (KB) To 3830.00 ft (KB) (TVD)

Reference Elevations: 2525.00 ft (KB)

Total Depth: 4419.00 ft (KB) (TVD)

2515.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

Serial #: 8734 Outside

Press@RunDepth: 78.46 psig @ 3801.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2022.04.20 End Date: 2022.04.20

Last Calib.: 2022.04.20

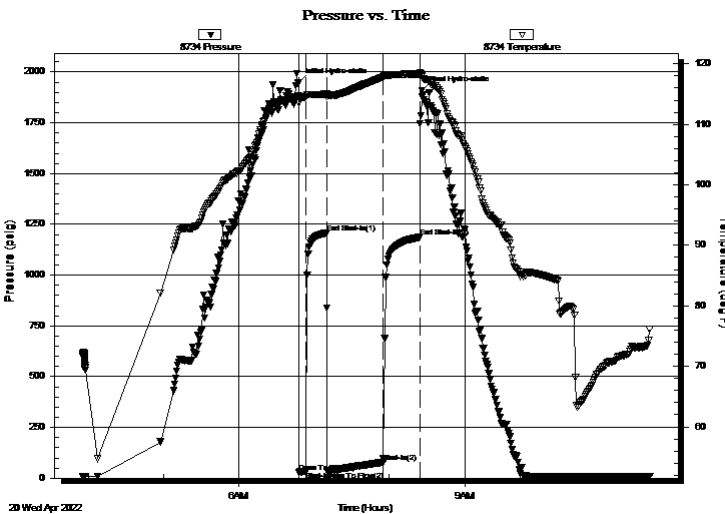
Start Time: 03:55:01 End Time: 11:28:00

Time On Btm: 2022.04.20 @ 06:47:30

Time Off Btm: 2022.04.20 @ 08:26:09

TEST COMMENT: 5-IF-Blow built to 1 1/2"
17-ISI-No return
45-FF-Blow built to 6"
25-FSI-No return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1947.78	114.65	Initial Hydro-static
1	29.37	113.52	Open To Flow (1)
6	35.25	114.52	Shut-In(1)
23	1207.59	115.00	End Shut-In(1)
23	35.56	114.55	Open To Flow (2)
68	78.46	117.82	Shut-In(2)
97	1187.08	118.29	End Shut-In(2)
99	1908.98	117.90	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
110.00	MCW 38%M, 62 %W	1.54

* Recovery from multiple tests

Gas Rates

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



DRILL STEM TEST REPORT

Black Rock Resources LLC

18-13S.-26W Gove, KS

P.O. Box 553
Russell, KS 67665

Polifka # 18-2

Job Ticket: 68431

DST#: 2

ATTN: Chad Counts

Test Start: 2022.04.20 @ 03:55:00

GENERAL INFORMATION:

Formation: **KC " C & D "**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 06:47:40

Time Test Ended: 11:28:00

Test Type: Conventional Straddle (Reset)

Tester: Martine Salinas

Unit No: 66

Interval: **3800.00 ft (KB) To 3830.00 ft (KB) (TVD)**

Total Depth: 4419.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2525.00 ft (KB)

2515.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: **8959** Inside

Press@RunDepth: psig @ 3801.00 ft (KB)

Start Date: 2022.04.20

End Date:

2022.04.20

Start Time: 03:55:01

End Time:

11:28:00

Capacity: 8000.00 psig

Last Calib.:

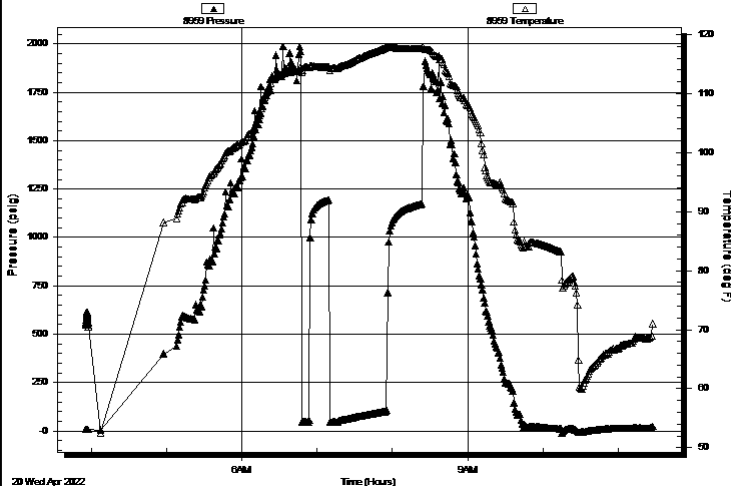
2022.04.20

Time On Btm:

Time Off Btm:

TEST COMMENT: 5-IF-Blow built to 1 1/2"
17-ISI-No return
45-FF-Blow built to 6"
25-FSI-No return

Pressure vs. Time



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
110.00	MCW 38%M, 62 %W	1.54

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Black Rock Resources LLC

18-13S.-26W Gove, KS

P.O. Box 553
Russell, KS 67665

Polifka # 18-2

Job Ticket: 68431

DST#: 2

ATTN: Chad Counts

Test Start: 2022.04.20 @ 03:55:00

GENERAL INFORMATION:

Formation: **KC " C & D "**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 06:47:40

Time Test Ended: 11:28:00

Test Type: Conventional Straddle (Reset)

Tester: Martine Salinas

Unit No: 66

Interval: 3800.00 ft (KB) To 3830.00 ft (KB) (TVD)

Reference Elevations: 2525.00 ft (KB)

Total Depth: 4419.00 ft (KB) (TVD)

2515.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

Serial #: 8520 Below (Straddle)

Press@RunDepth: psig @ 3831.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2022.04.20 End Date: 2022.04.20

Last Calib.: 2022.04.20

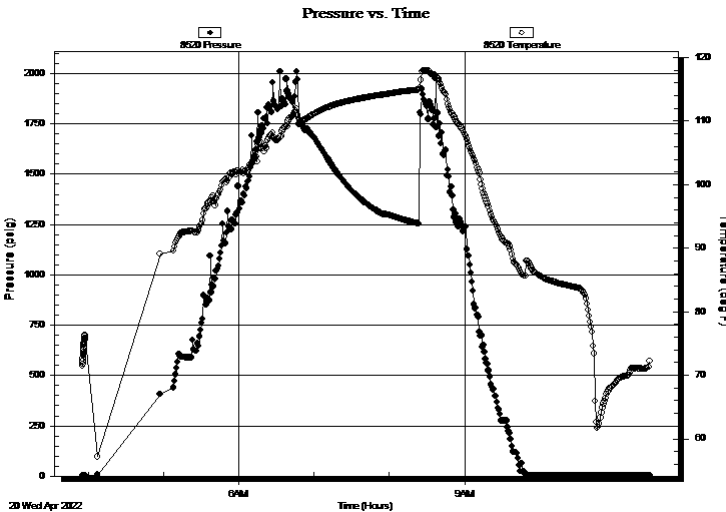
Start Time: 03:55:01 End Time: 11:28:00

Time On Btm:

Time Off Btm:

TEST COMMENT: 5-IF-Blow built to 1 1/2"
17-ISI-No return
45-FF-Blow built to 6"
25-FSI-No return

PRESSURE SUMMARY



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

Recovery

Length (ft)	Description	Volume (bbl)
110.00	MCW 38%M, 62 %W	1.54

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Black Rock Resources LLC

18-13S.-26W Gove, KS

P.O. Box 553
Russell, KS 67665

Polifka # 18-2

Job Ticket: 68431

DST#: 2

ATTN: Chad Counts

Test Start: 2022.04.20 @ 03:55:00

Tool Information

Drill Pipe:	Length: 3785.00 ft	Diameter: 3.80 inches	Volume: 53.09 bbl	Tool Weight: 3000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 53.09 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	18.00 ft			String Weight: Initial 54000.00 lb
Depth to Top Packer:	3800.00 ft			Final 55000.00 lb
Depth to Bottom Packer:	4419.00 ft			
Interval between Packers:	619.00 ft			
Tool Length:	652.00 ft			
Number of Packers:	3	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Length (ft) Serial No. Position Depth (ft) Accum. Lengths

Change Over Sub	1.00			3768.00	
Shut In Tool	5.00			3773.00	
Hydraulic tool	5.00	1113		3778.00	
Jars	5.00	01-07		3783.00	
EM Tool	5.00			3788.00	
Safety Joint	3.00	-001		3791.00	
Packer	5.00			3796.00	33.00 Bottom Of Top Packer
Packer	4.00			3800.00	
Stubb	1.00			3801.00	
Recorder	0.00	8959	Inside	3801.00	
Recorder	0.00	8734	Outside	3801.00	
Perforations	24.00			3825.00	
Blank Off Sub	1.00			3826.00	
Packer - Shale	4.00			3830.00	
Stubb	1.00			3831.00	
Recorder	0.00	8520	Below	3831.00	
Perforations	12.00			3843.00	
Change Over Sub	1.00			3844.00	
Drill Pipe	571.00			4415.00	
Change Over Sub	1.00			4416.00	
Bullnose	3.00			4419.00	619.00 Bottom Packers & Anchor

Total Tool Length: 652.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Black Rock Resources LLC

18-13S.-26W Gove, KS

P.O. Box 553
Russell, KS 67665

Polifka # 18-2

Job Ticket: 68431

DST#: 2

ATTN: Chad Counts

Test Start: 2022.04.20 @ 03:55:00

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:

8500 ppm

Viscosity: 61.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.80 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
110.00	MCW 38%M, 62 %W	1.543

Total Length: 110.00 ft Total Volume: 1.543 bbl

Num Fluid Samples: 0

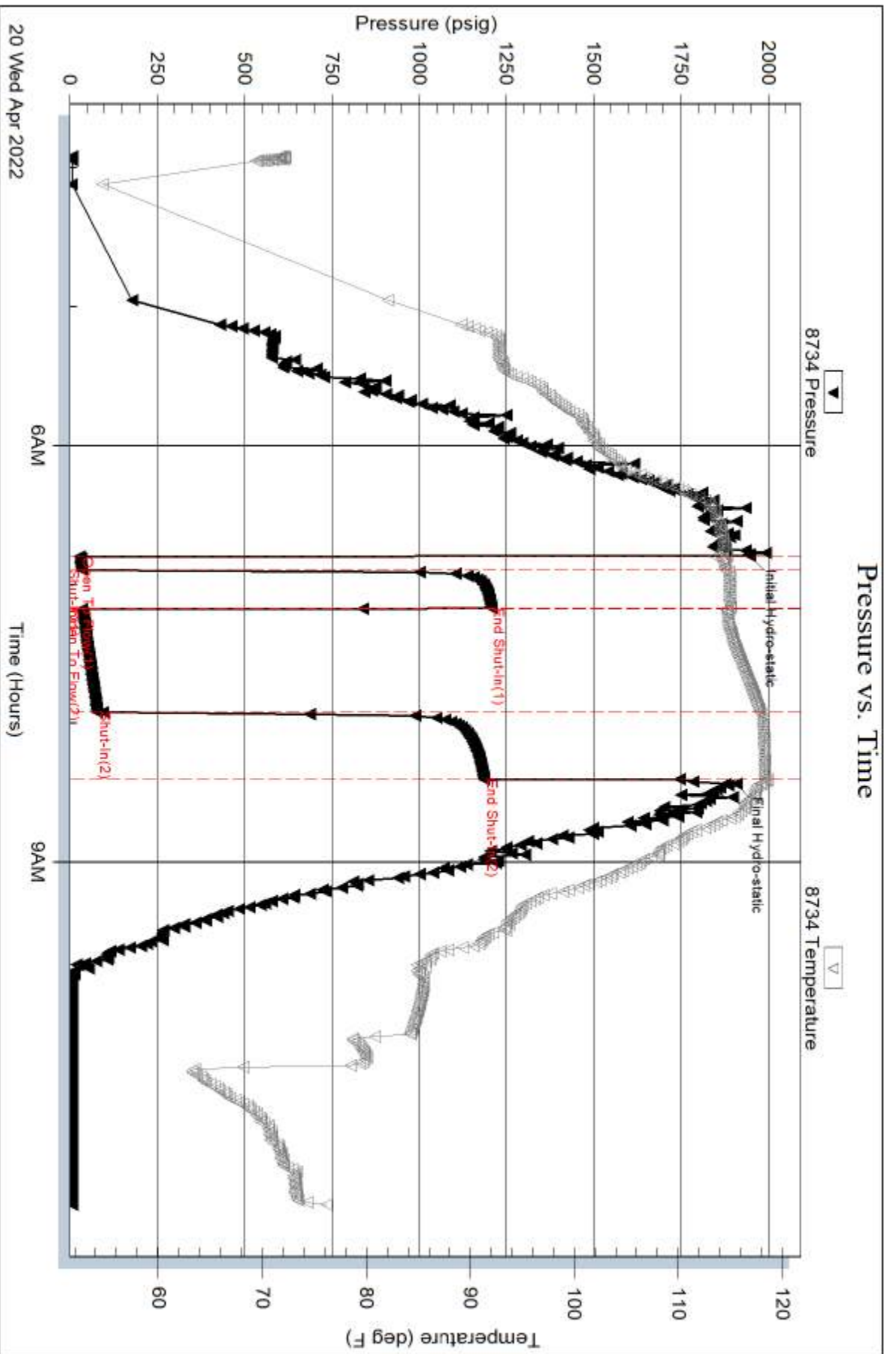
Num Gas Bombs: 0

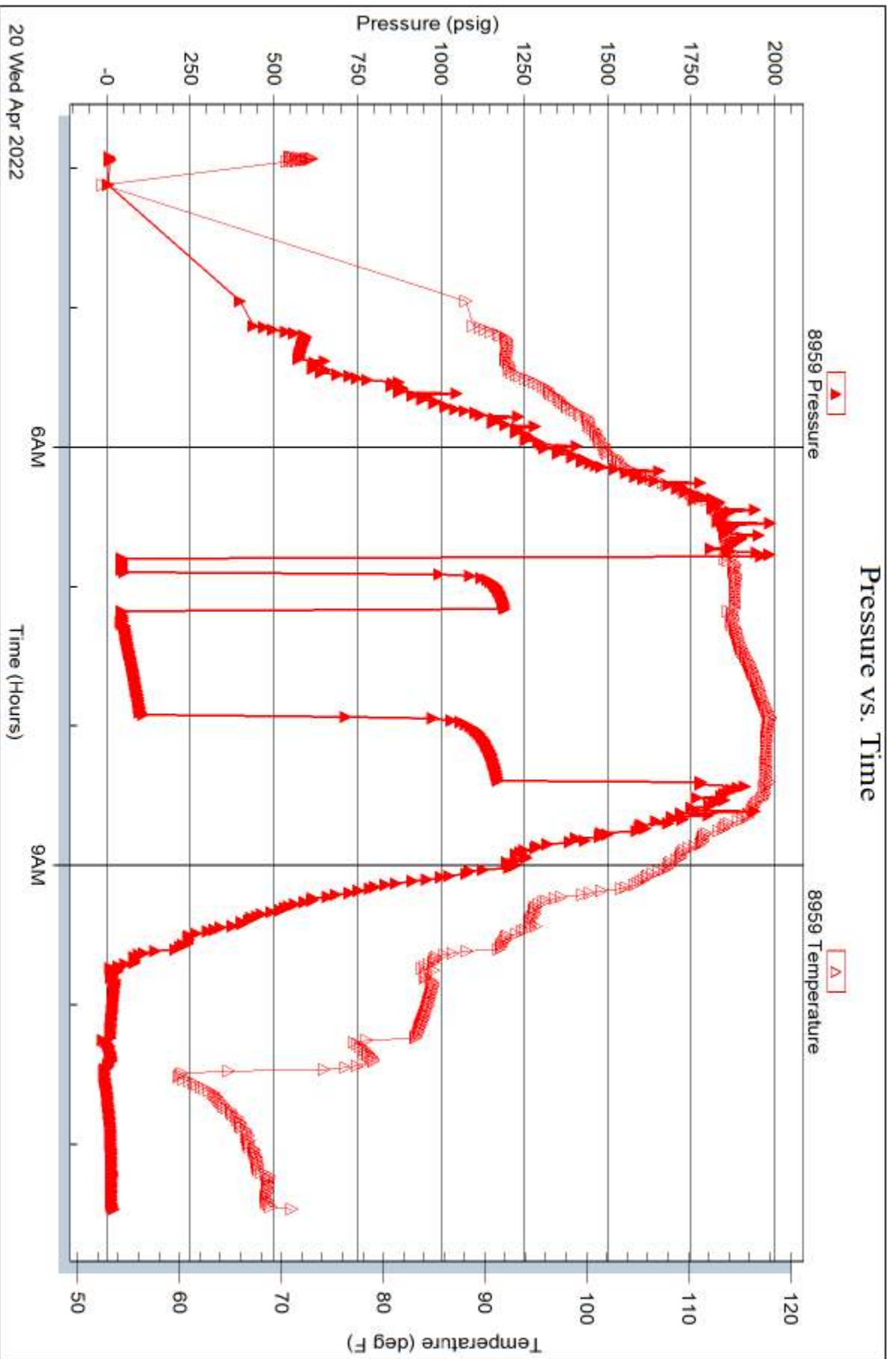
Serial #:

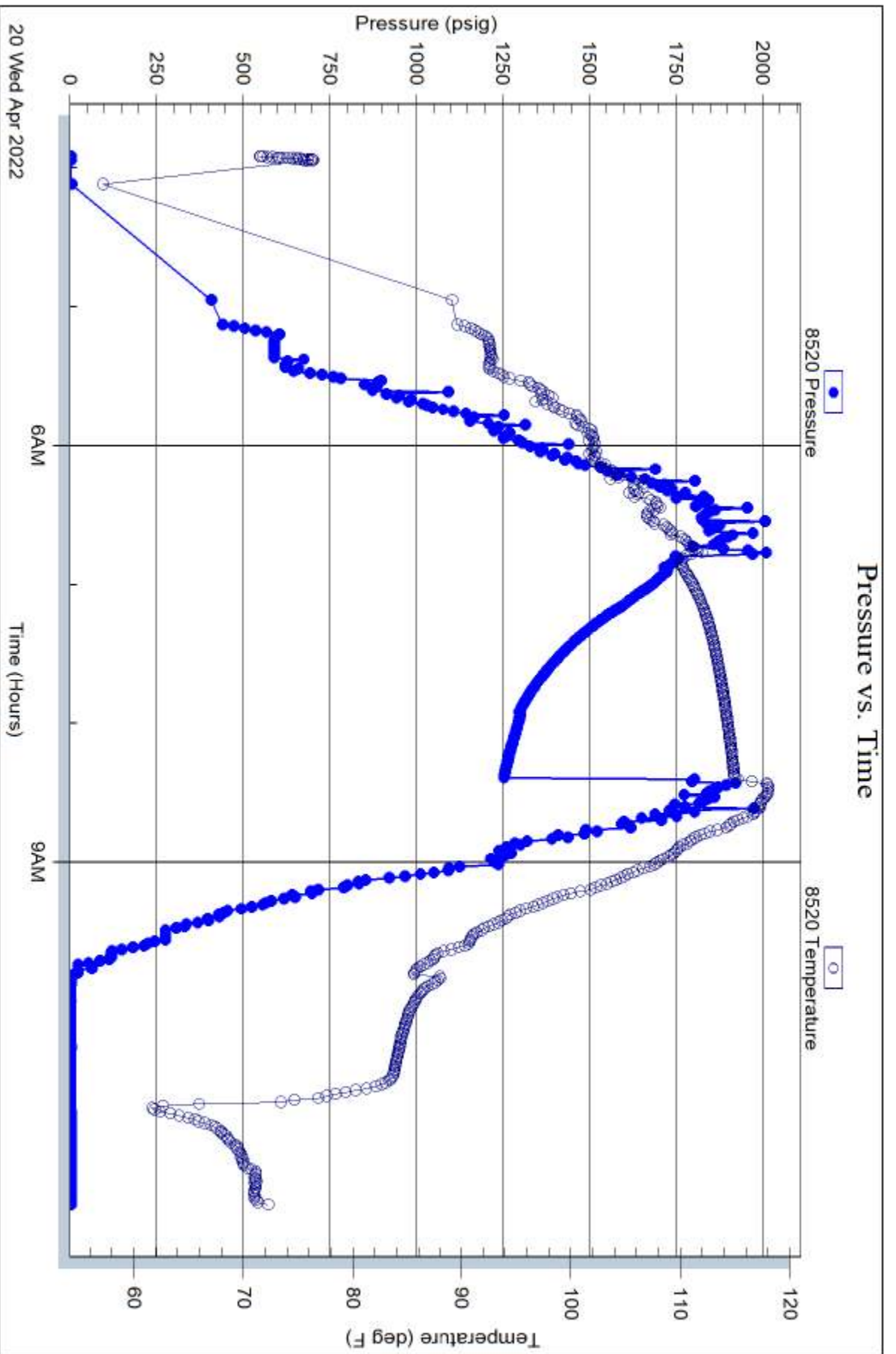
Laboratory Name:

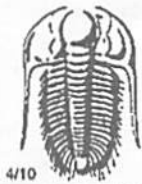
Laboratory Location:

Recovery Comments: RW = .775 @ 66.5 degs= 8500 PPM









TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 68430

Well Name & No. Polifka #18-2 Test No. 1 Date 4-18-22
 Company Black Rock Resources LLC Elevation 2525 KB 2515 GL
 Address P.O. Box 553 Russell, KS 67665
 Co. Rep / Geo. Chad Counts Rig Southwind #8
 Location: Sec. 18 Twp 13S. Rge. 26W. Co. KS "K" Grove State KS

Interval Tested 3945-4013 Zone Tested KC "I-K"
 Anchor Length 68' Drill Pipe Run 3942 Mud Wt. 9.0
 Top Packer Depth 4100 3940 Drill Collars Run — Vis 61
 Bottom Packer Depth 3945 Wt. Pipe Run — WL 5.8
 Total Depth 4013 Chlorides 2000 ppm System LCM off
 Blow Description IF - Blow built to 1/2"
ISI - No return.
FF - Blow built to 1/2"
FSI - No return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>25</u>	<u>Mud w/oil specs.</u>			<u>100</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 25 BHT 116 Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic 1950 Test 1950 T-On Location 07:00
 (B) First Initial Flow 29 Jars 300 T-Started 08:35
 (C) First Final Flow 31 Safety Joint — T-Open 10:49
 (D) Initial Shut-In 1191 Circ Sub — T-Pulled 12:45
 (E) Second Initial Flow 32 Hourly Standby — T-Out 14:36
 (F) Second Final Flow 40 Mileage 134 RT 201 Comments —
 (G) Final Shut-In 1103 Sampler —
 (H) Final Hydrostatic 1923 Straddle — EM Tool —
 Shale Packer — Ruined Shale Packer —
 Extra Packer — Ruined Packer —
 Extra Recorder — Extra Copies —
 Day Standby — Sub Total 0
 Accessibility — Total 2451
 Sub Total 2451 MP/DST Disc't —

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



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 68431

Well Name & No. Polifka #18-2 Test No. 2 Date 4-20-22
 Company Black Rock Resources LLC Elevation 2525 KB 2515 GL
 Address P.O. Box 553 Russell, KS-67665
 Co. Rep / Geo. Chad Counts Rig Southwind #8
 Location: Sec. 18 Twp 13S. Rge. 26W. Co. Grave State KS.

Interval Tested 3800 - 3830 Zone Tested KC "C+D"
 Anchor Length 30' 589' T. pipe Drill Pipe Run 3785 Mud Wt. 9.2
 Top Packer Depth 3795 - 3800 Drill Collars Run --- Vis 58
 Bottom Packer Depth 3830 (Shalc) Wt. Pipe Run --- WL 6.8
 Total Depth 4419 Chlorides 2000 ppm System LCM 2#

Blow Description IF - Blow built to 1 1/2"
ISI - No return.
FF - Blow built to 6"
FSI - No return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>110</u>	<u>MCW</u>		<u>62</u>	<u>38</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 160 BHT 118° Gravity --- API RW .775 @ 66.5 °F Chlorides 8500 ppm

(A) Initial Hydrostatic <u>1948</u>	<input checked="" type="checkbox"/> Test <u>1950</u>	T-On Location <u>02:45</u>
(B) First Initial Flow <u>29</u>	<input checked="" type="checkbox"/> Jars <u>300</u>	T-Started <u>03:55</u>
(C) First Final Flow <u>35</u>	<input checked="" type="checkbox"/> Safety Joint	T-Open <u>06:48</u>
(D) Initial Shut-In <u>1208</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>08:20</u>
(E) Second Initial Flow <u>36</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>11:28</u>
(F) Second Final Flow <u>78</u>	<input checked="" type="checkbox"/> Mileage <u>134 RT</u> 201	Comments <u>Tools loaded @</u>
(G) Final Shut-In <u>1187</u>	<input type="checkbox"/> Sampler	<u>12:30</u>
(H) Final Hydrostatic <u>1909</u>	<input checked="" type="checkbox"/> Straddle <u>600</u>	<input checked="" type="checkbox"/> EM Tool
Initial Open <u>5</u>	<input checked="" type="checkbox"/> Shale Packer <u>250</u>	<input type="checkbox"/> Ruined Shale Packer
Initial Shut-In <u>17</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Ruined Packer
Final Flow <u>45</u>	<input type="checkbox"/> Extra Recorder	<input type="checkbox"/> Extra Copies
Final Shut-In <u>25.</u>	<input type="checkbox"/> Day Standby	Sub Total <u>0</u>
	<input type="checkbox"/> Accessibility	Total <u>3301</u>
	Sub Total <u>3301</u>	MP/DST Disc't

Approved By _____ Our Representative Mark Polifka
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