

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: Flora 1-24
API: 15-063-22401
Location: 2310' FSL & 330' FEL
License Number: 35310
Spud Date: 7/6/22
Surface Coordinates: '38.907354, -100.26191

Region: Gove Co.
Drilling Completed: 7/12/22

Bottom Hole same as surface
Coordinates:
Ground Elevation (ft): 2448' K.B. Elevation (ft): 2438'
Logged Interval (ft): 3500' To: 4370' Total Depth (ft): 4370'
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

Flora 24-1 was drilled with Southwind Rig #8 rotary tools commencing 7-6-22, and total depth was reached 7-12-22.

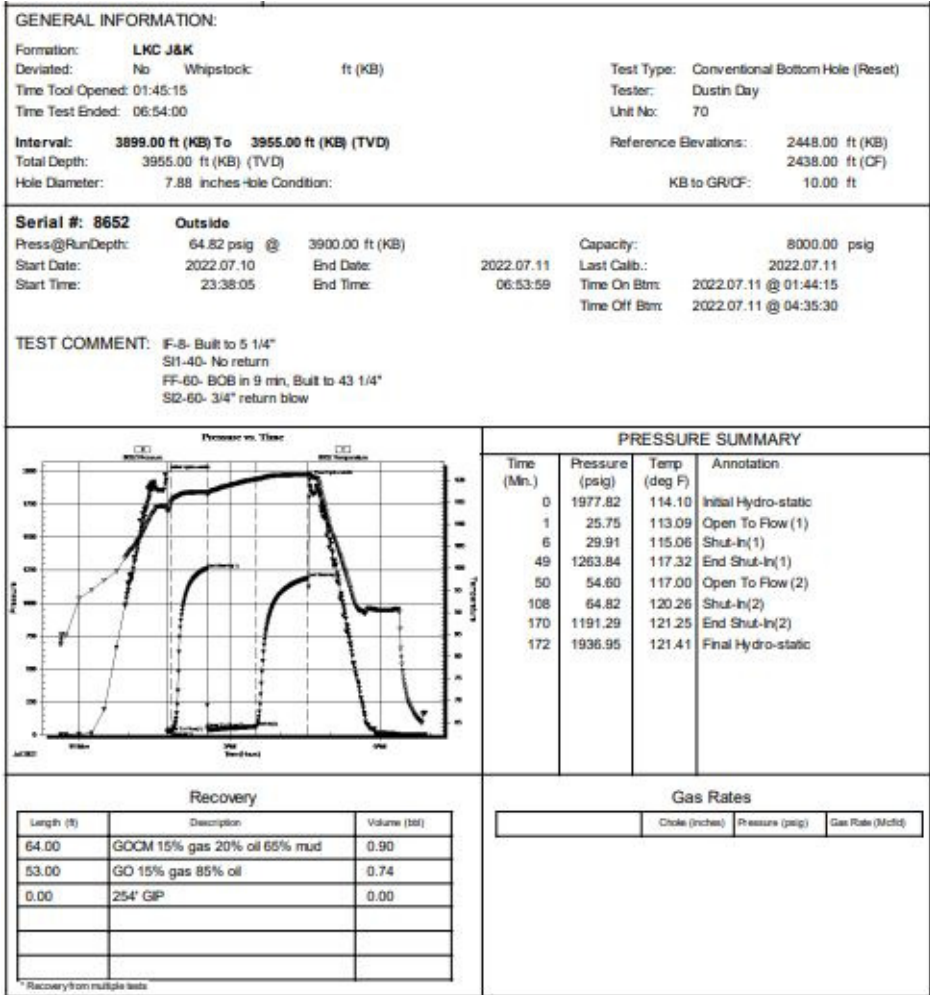
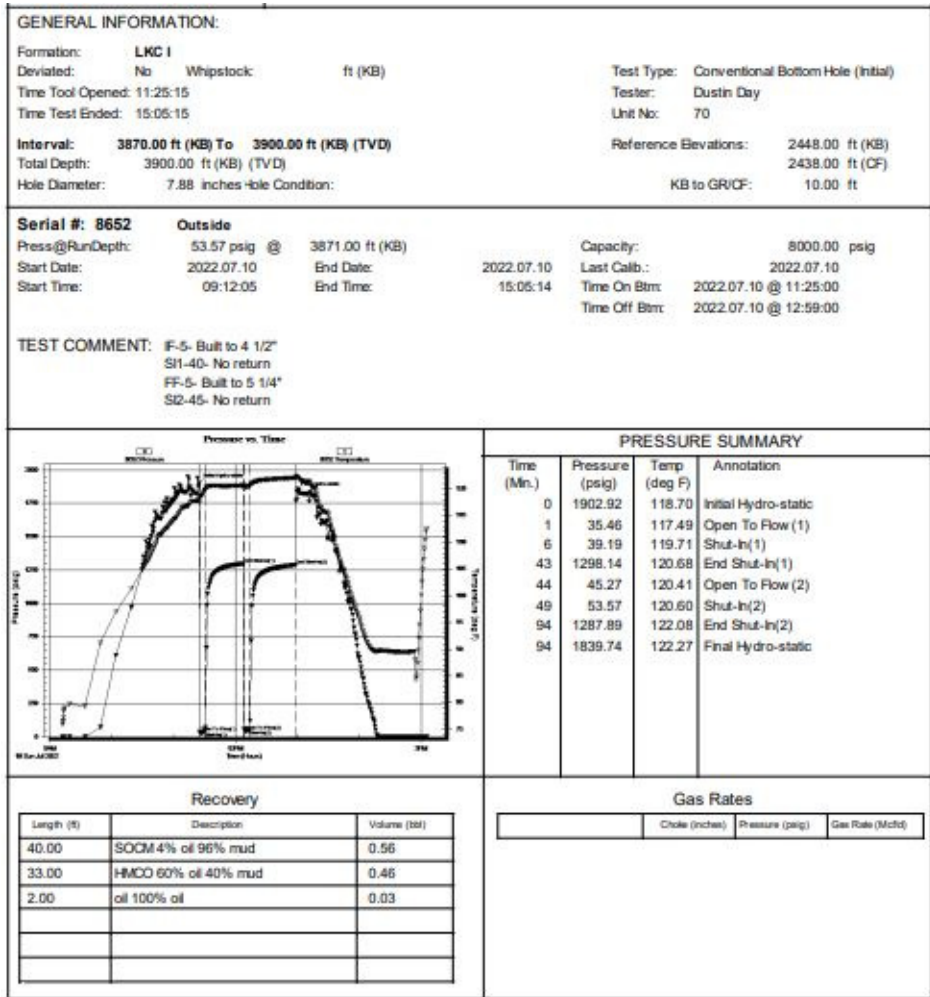
The well ran structurally as expected to seismic prognosis. Owing to reservoir development, oil shows in the Kansas City, and the positive results of DST #1 and DST #2; it was elected by the operator to further test the well through 5 1/2" casing.

Recommended Completion:

KC I 3885-3890'
KC J 3921-3923'
KC K 3932-3935'
Lower KC K 3942-3946'

Respectfully submitted,

Chad Counts



* Recovery from multiple tests

ROCK TYPES

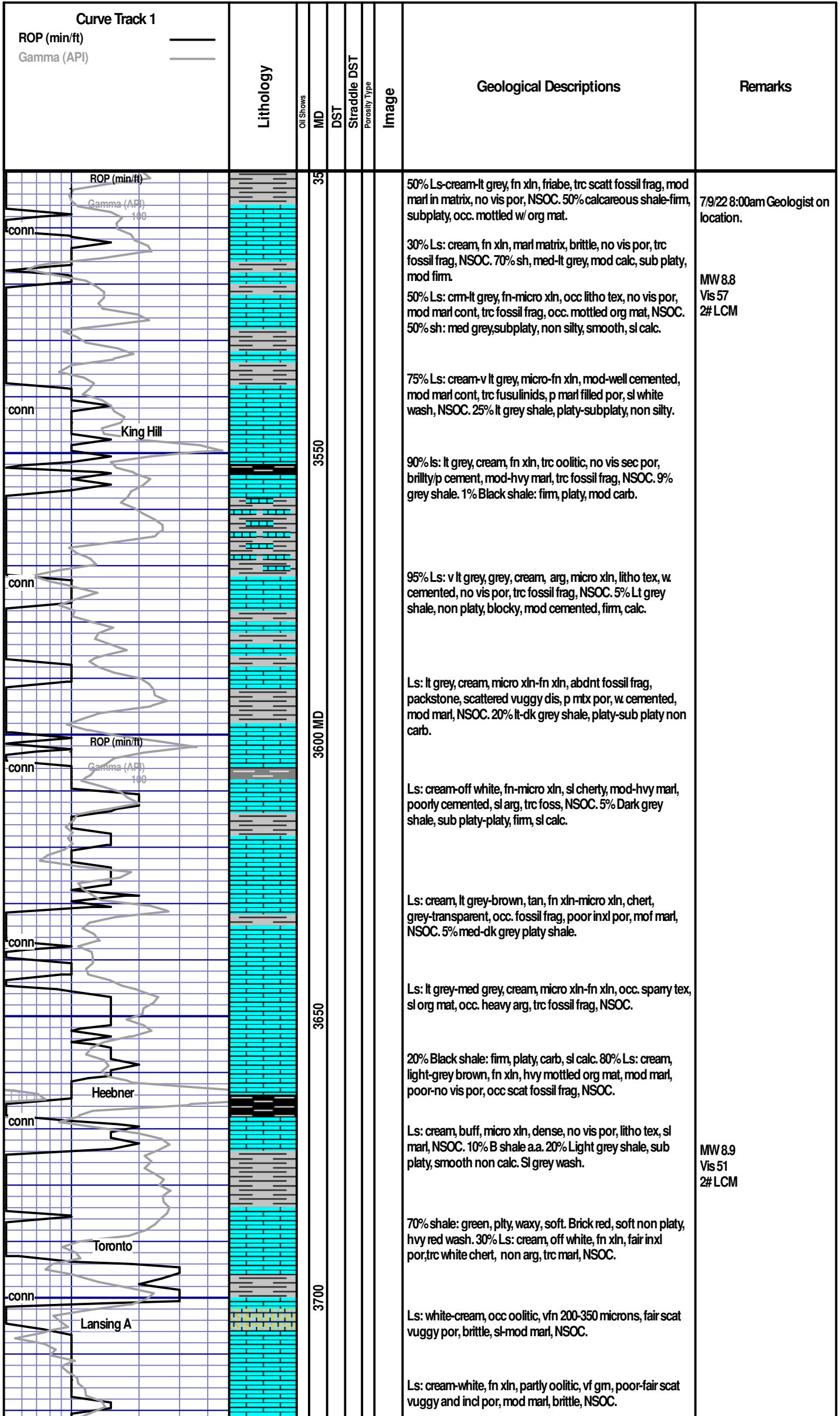
- Anhy
- Bent
- Brec
- Cht
- Clyst

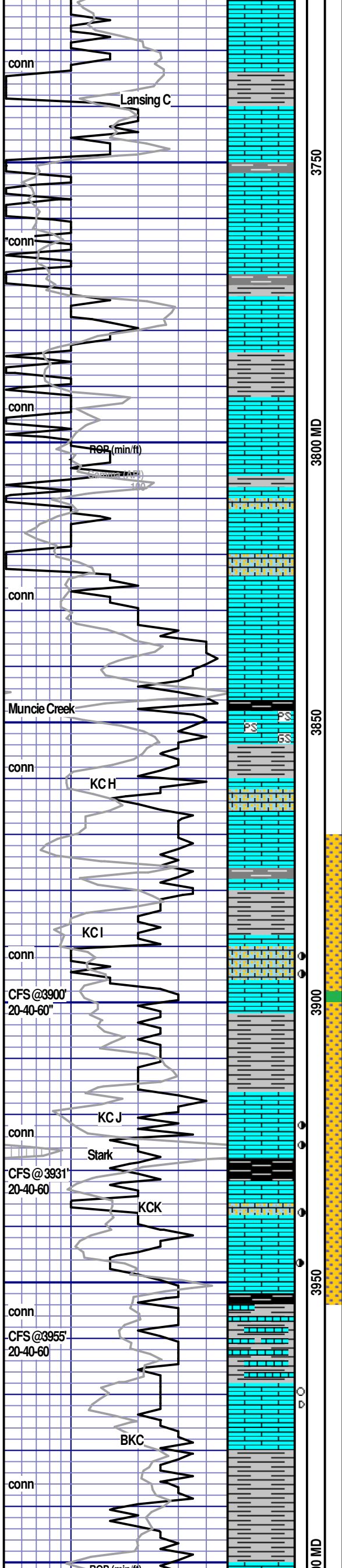
- Coal
- Oolitic limestone
- Congl
- Dol
- Gyp

- Igne
- Dark grey shale
- Black shale
- Lmst
- Meta

- Mrlst
- Salt
- New symbol
- Shale
- Shcol

- Shgy
- Sltst
- Ss
- Till





Ls: cream, off white, micro xln, v fn xln, mod-hvy marl, poor vis por, v brittle, easily crushed, trc fossil frag, NSOC.

Ls: cream, off white, fn xln, occ part oolitic, poor vis por, vf g, hvy marl cont, no stain or odor. 20% brick red shale, very soft, hvy red wash in sample.

Ls: cream, lt grey, micro xln, trc oolitic gs, v poor-no vis sec por, dense, hvy marl cont, NSOC. 10-20% Sh: grey, soft, non platy-subplaty, occ. red a/a w/ hvy wash.

Ls: cream, off white, micro-med xln, occ. scat vuggy por, v hvy marl, NSOC. 20% SH, pale green, grey (platy), non calc, non carb.

*Poor sample quality.

Ls: off white, fn-med xln, sparry, fair-good inxl por, v friable, hvy marl, white wash, NSOC, no odor.

*

Ls: cream-white, micro xln-fn xln, fair inxl por, NSOC.

*

Oolitic gs: vf, 175-250 microns, well std, fair-good intergranular porosity, fair even scat pp vugs, very brittle, heavy marl, NSOC.

Bit trip at 3827' to change PDC to tri-cone.

Ls: lt grey-off white, fn xln, sparry, excellent scat vuggy por, well cem, NSOC.

Ls: lt grey, cream, dense, micro xln mtrx, occ scat pp vuggy por, v w cemented, litho tex, sl marl, trc fossil fragments, NSOC

Ls: cream, beige, lt brown, dense, micro xln, occ scattered fossil frag (lt brwn), no sec por, sl arg, occ mottled org mat. NSOC 5% black shale, firm, platy-subplaty, carb.

Ls: beige, lt brown, packstone-gs, abndnt fossil clast, p std, v pr-no sec por, occ r. ind pp vug, very dense, NSOC, no odor. Sh: lt grey, soft, easily washed.

MW 9.0
VIS 55
4# LCM

KCH break: tan, beige, oolitic ls, 175-250 microns, w. std, v poor-no sec por, occ. r pp vug, marl filled por, NSOC, no odor.

DST #1
KC I
3870-3900'
5-40-5-45
IFP: 35-39psi
ISIP: 1298psi
FFP: 45-54psi
FSIP: 1288psi
Rec: 40' SOCM (4%O)
33' HMCO (60%O)
2' CO
*Note-
miscommunication
between tester resulted in
very short second
opening.

Ls: cream, micro xln, v dense, no vis por, trc scat fos frag, non arg, trc marl, NSOC.

Ls: lt grey, cream, micro xln, trc oolitic ls, 250 microns, no sec por, NSOC. Sh: med dk grey, platy, mod carb.

KCI porosity: white-lt brown spotted str, oolitic grainstone, 175-250 micron ooids, v well std, poor-fair inter-oolitic por, few with even scat pp vugs, very sctd stain and sat. Fair-good sfo upon crush, few with dead flaky oil, faint odor.

Ls: cream, off white, micro xln, occ scat pp vug, dense, NSOC. Sh: grey, soft, non platy.

Sh: med grey, grey, soft, sub platy, non calc. Ls: cream, off white, micro xln, no vis por, NSOC.

DST#2
KC J-KC K
3899-3955'
8-40-60-60
IFP: 26-30psi
ISIP: 1264 psi
FFP: 55-65psi
FSIP: 1191psi
Recovered:
25' GIP
53' GO
64' GOCM (20%O)
38 gravity

20' - J Porosity, off white, tan, vfxln, poor vis inxl por, svrl cuttings pulverized with easy crush, scat-spty hvy dark str, p-fr spotty sat, ssfo-fsfo, fnt-fr odor.

40' - Dk grey-black shale, mod carb, v hvy dk grey wash, soft, non platy-sub platy. Ls: cm, micro xln, dense no vis por. NSOC.

Upper K (3932-3937'): Ls: tan, beige, fn xln, occ, partly oolitic gs, poor inter ool por, w cemented, few cuttings w even vugs less <150 microns, spty-even str, fr sat, fr od, sfo on cup.

Base K (3945-3948'): Ls, lt grey, vf xln, pt oolitic gs, vfg, well std, even scat pp vugs, <150microns, well cem, even dry str, fr sat, fr-gd od, sfo on cup.

Mudco check
MW 9.0
VIS 52
Filtrate 5.4
Chloride 2400ppm
1# LCM

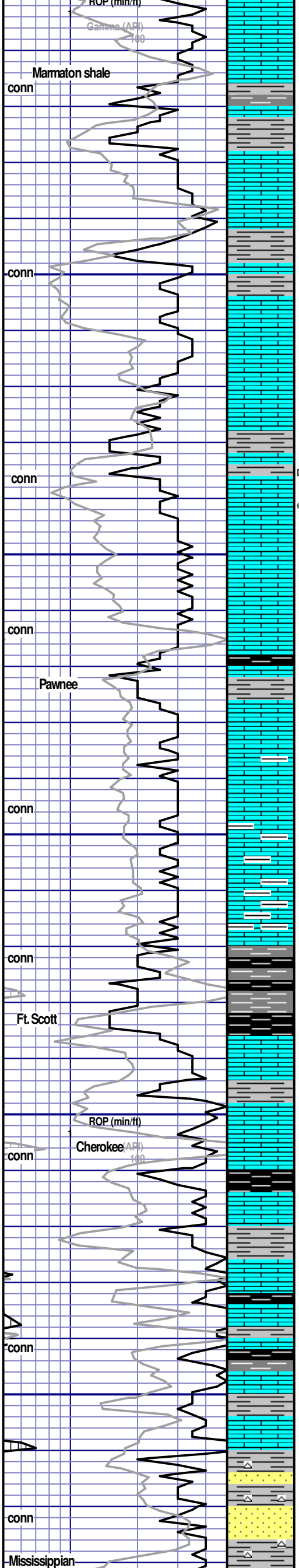
40'-Dk grey & black shale, 50% Ls: lt grey-cream, sl arg, micro xln, dense, (10% w/show a.a)

Lag to 3969: Ls-gry, cm, fn xln-microxln, most arg, occ spry calc along frac, trc gs, few lrg clasts, v p sec por, r scat pp vugs, spty dd oil stain, 2 oil specks on cup.

Lag to 3978: Ls: 75% lt grey, dense, arg, micro xln, 25% buff-beige, gs, poorly st, clasts up to 500 microns, r pp vug, p-no sec por, NSOC.

Lag 3990': 75% shale: med-dk grey subplaty-soft, no carb, occ hvy calc and firm. 25% Ls grey-buff, micro xln, trc fossil gs, no sec por, NSOC.

Lag to 3999': Ls: beige, lt brown, gry, micro xln, arg, occ fos



4000 MD

gs, r pp vug, packstone, p sec por, NSOC. 40% lt-med grey sh.

Lag 4009 Ls: lt brown, grey, beige, micro xln, occ fossil frag, very dense, no vis por or vugs, occ. v arg. Sh: grey, grey green, sub platy-blocky, calc.

Lag 4019: Ls: cream, lt brown-brwn, micro xln, occ fos frag, v dense, no vis por NSOC. Sh: med dk grey, subplaty, firm, sl calc.

Lag 4030: sh: grey, soft-mod firm, non platy, non calc. Ls: cream, white, beige, micro xln, no vis por. NSOC.

Lag 4040: Ls cream, brown, micro xln, v dense, occ clasts, no vis por, NSOC. Sh: maroon, grey, non platy, non calc.

Sh: dk grey, maroon, sub platy-blocky, sl calc. Lscream, beige, micro xln, dens, sharp frac, no vis por, NSOC.

Ls: cream, grey, brown, micro xln, litho tex, sharp cleavage, v dense, no vis por, cherty, NSOC. Sh: a/a

Cherty Ls: cream, lt grey, micro xln, v dense, chert (tint burnt orange, grey, opaque), no vis por, NSOC.

Ls: cream, tan, dense, occ oolitic gs, no sec por, abdnt chert, NSOC.

Oolitic Ls: cream, 250 micron ooids, w std, w cemented, no vis sec por, 2 cuttings w trace dead stain, no free oil or odor. Remaining sample dense, micro xln. SH: med grey subplaty firm.

10% Oolitic Ls, lt grey-brown, poor scat por, 350-400micron vugs, poorly connected, dense, w cemented, sfo bleed from vugs and on crush, fsfo, no odor.

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

Ls: light grey, buff, micro xln, mod marl, mod-hvy arg, mod cemented, no vis por, NSOC. Sh: maroon, grey, subplaty, soft.

Black shale: sub platy-platy, mod carb, non calc. Grey shale, soft, non platy, hvy grey wash. Ls: cream, micro xln, hvy marl, no vis por, NSOC.

Ls: med-dk grey, micro xln, hvy arg, well cemented, dense, no vis por, hvy marl, NSOC.

Ls: cream, grey, micro xln, mod-hvy arg, dense, no vis por, hvy marl, occ. fusulinid frag, NSOC.

Ls-calcareous sh: lt med grey, calcareous, sub platy, firm, hvy arg, no vis por, trc fossil frag, NSOC.

Calcareous sh-sh limestone: med grey, blocky-sub platy, firm, v arg, no vis por, NSOC.

Flood dk grey-black shale: platy-sub platy, mod firm-soft, carb-very carb, non calc, faint, sweet gassy odor.

Ls: lt grey-brown, micro xln, litho tex, sharp cleavage, v dense, no vis por, trc fos frag, trc chert w spicules. 50% dk and blk shale a.a

Ls: grey, grey-brown, micro xln, dense, no vis por, svrl bivalve frag, mod arg, even cleavage, NSOC. no odor.

Ls: lt grey-beige, micro xln, v dense, sl cherty (grey), no vis por, occ scat fossil frag, NSOC.

Ls: cream, lt grey brown, micor xln, dense, sl arg, no vis por, trc fos frag, NSOC. 10% Blk shale: platy, firm, carb.

Ls: cream, lt grey-brown, micor xln, dense, r. scat pp vug, sl arg, no vis por, trc fos frag, few marl chunks, NSOC.

Ls: pred cream, lt grey, micro xln, v dense, sl marl, occ gs (5%), no vis sec por, granular tex, r pp vug, NSOC.

Ls: cream, lt grey, micro xln, mod arg, trc fossil frag, no vis por, NSOC. Sh: grey-green, maroon, semi waxy, smooth, soft, non calc. 5% black shale, platy-subplaty, non calc, mod carb.

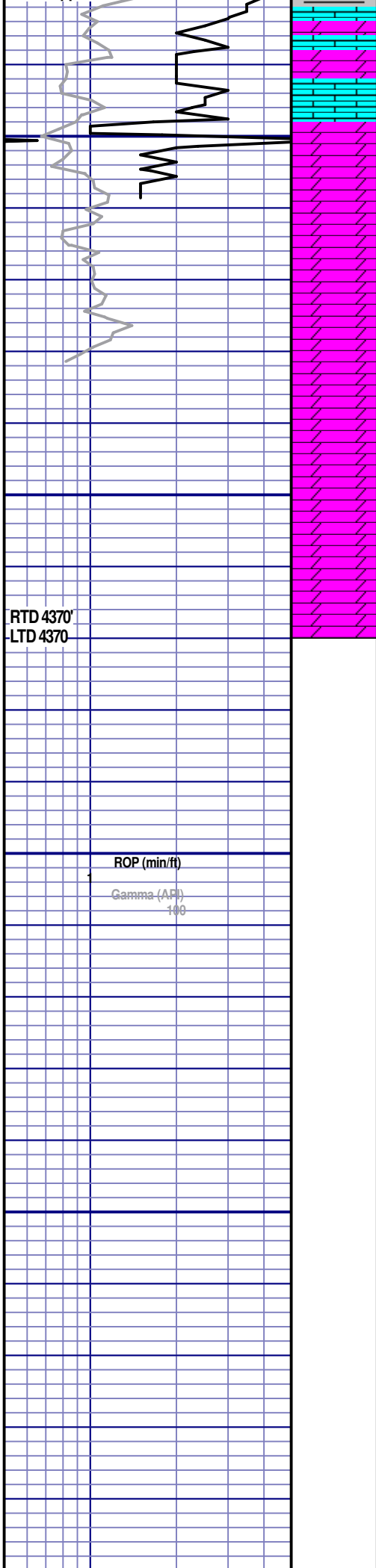
Ls: cream, grey, beige, micro xln, dense, no vis por, svrl fract, mod marl, scat fos frag, occ. indiv pp vug, NSOC. Sh: grey-green, platy, smooth, non calc.

30% ss: white, occ yellow brwn stnd, vfg-silt, v well cons, calc cement, w. std, no vis por, NSOC. 30% LS A.A. 35% Sh: mustard, green (waxy), maroon. 5% chert, clear, translucent.

35% ss: white, vfg, w std, well cons, no vis por, dense, calc cement. 40% various shale. 25% Limestone: cream, lt grey, micro xln, dense no vis por. NSOC.

MW 9.2
Vis53
2# LCM

MW 9.1
Vis 57
2# LCM



4300

4350

4400 MD

4450

00

Dolomitic ls: cream, lt grey, fn xln, svrl spary tex, sucrosic, abndnt marl, poor vis inxl por, NSOC. Trc orange, white trans chert

Dolomitic Ls: cream-off white, fn xln, occ spary, fair scat vuggy por, mod marl, no stain or odor.

75% Dolomite: light brown, fn xln, poor-fair inxl por, occ pp vugs, mod-hvy marl, NSOC. 25% LS A/A

90% dolomite: lt brown fine-med xln, good vuggy por, v w cemented, fair inxl por, fair marl cont, NSOC.

Dolomitic ls: cream-beige, fn xln, fair scat vuggy por, dense, NSOC.

Dolomitic ls: cream, fine-med xln, fair-poor vuggy por, sl marl, NSOC.

Ls-Dolo Ls: cream, fn xln, poor vuggy por, poor inxl por, cherty, white, translucent, NSOC..

25% arg LS: med grey, dense, micritic-fn xln, poor-no vis por. 50% LS a.a 25% beige,

Mudco check
MW 9.1
Vis 57
Filtrate 5.8
Chlorides 2400ppm
1# LCM



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Black Rock Resources

24_13_27 Gove, KS

1029 E. 7TH ST. P.O. Box 553
Russell, KS 67665

Flora #24-1

Job Ticket: 69116

DST#: 1

ATTN: Chad Counts

Test Start: 2022.07.10 @ 09:12:00

GENERAL INFORMATION:

Formation: **LKC I**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 11:25:15

Time Test Ended: 15:05:15

Test Type: Conventional Bottom Hole (Initial)

Tester: Dustin Day

Unit No: 70

Interval: 3870.00 ft (KB) To 3900.00 ft (KB) (TVD)

Reference Elevations: 2448.00 ft (KB)

Total Depth: 3900.00 ft (KB) (TVD)

2438.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition:

KB to GR/CF: 10.00 ft

Serial #: 8652 Outside

Press@RunDepth: 53.57 psig @ 3871.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2022.07.10 End Date: 2022.07.10

Last Calib.: 2022.07.10

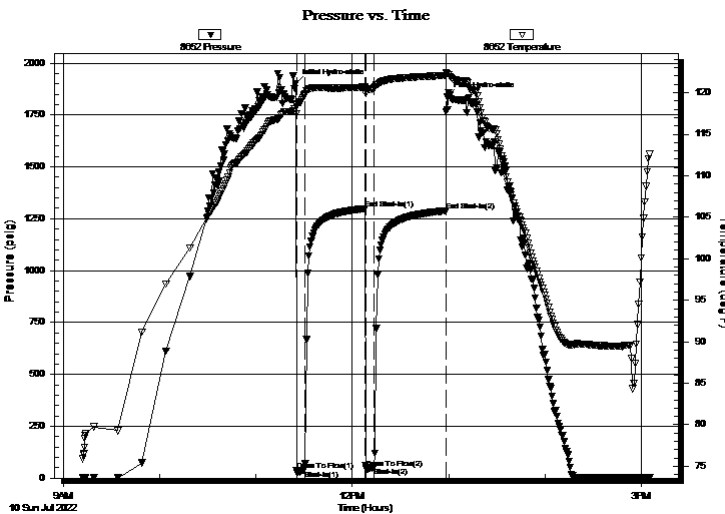
Start Time: 09:12:05 End Time: 15:05:14

Time On Btm: 2022.07.10 @ 11:25:00

Time Off Btm: 2022.07.10 @ 12:59:00

TEST COMMENT: IF-5- Built to 4 1/2"
SI1-40- No return
FF-5- Built to 5 1/4"
SI2-45- No return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1902.92	118.70	Initial Hydro-static
1	35.46	117.49	Open To Flow (1)
6	39.19	119.71	Shut-In(1)
43	1298.14	120.68	End Shut-In(1)
44	45.27	120.41	Open To Flow (2)
49	53.57	120.60	Shut-In(2)
94	1287.89	122.08	End Shut-In(2)
94	1839.74	122.27	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
40.00	SOCM 4% oil 96% mud	0.56
33.00	HMCO 60% oil 40% mud	0.46
2.00	oil 100% oil	0.03

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Black Rock Resources

24_13_27 Gove, KS

1029 E. 7TH ST. P.O. Box 553
Russell, KS 67665

Flora #24-1

Job Ticket: 69116

DST#: 1

ATTN: Chad Counts

Test Start: 2022.07.10 @ 09:12:00

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: 53.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.40 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2100.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
40.00	SOCM 4% oil 96% mud	0.561
33.00	HMCO 60% oil 40% mud	0.463
2.00	oil 100% oil	0.028

Total Length: 75.00 ft

Total Volume: 1.052 bbl

Num Fluid Samples: 0

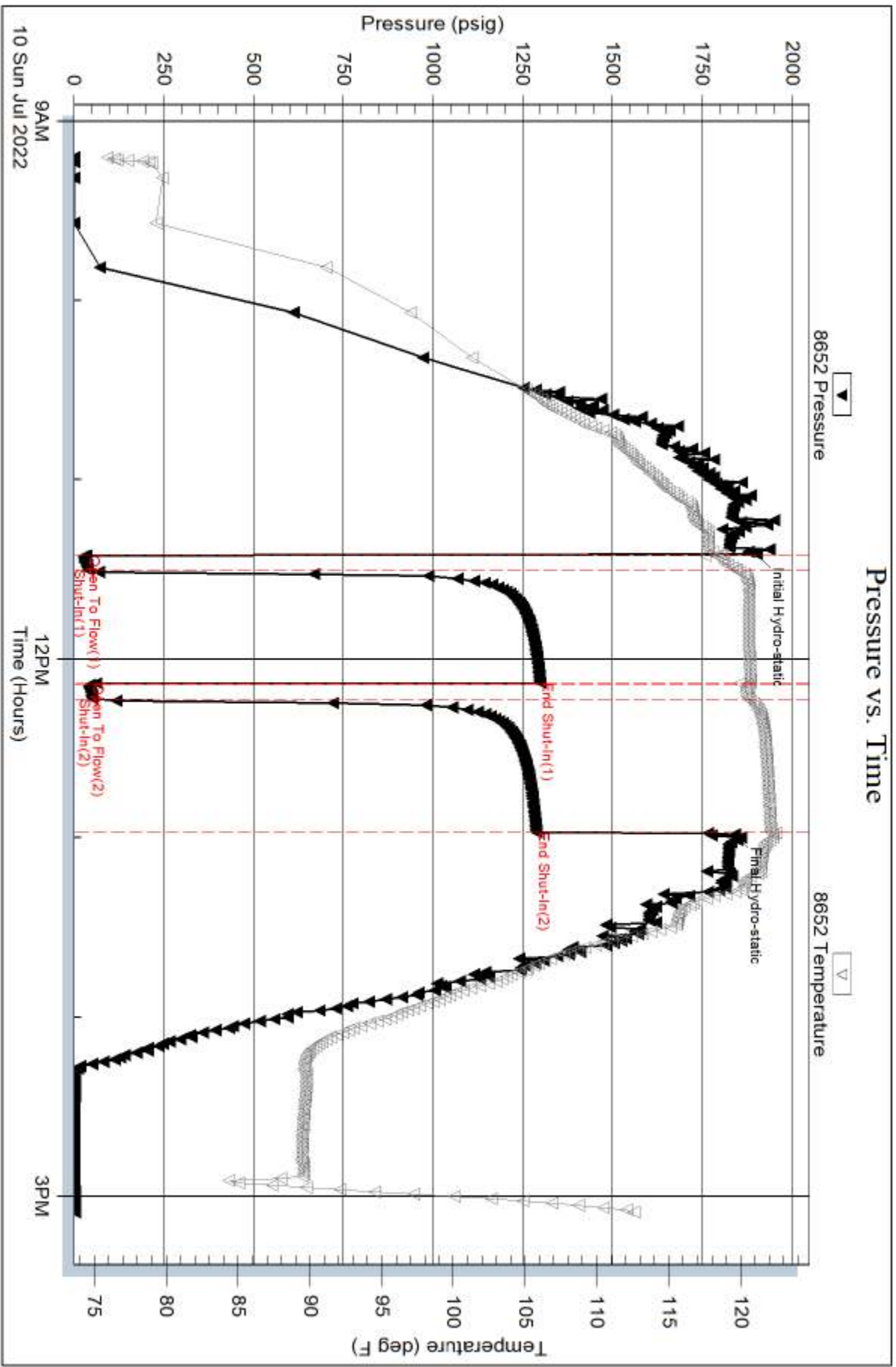
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: LCM 2#



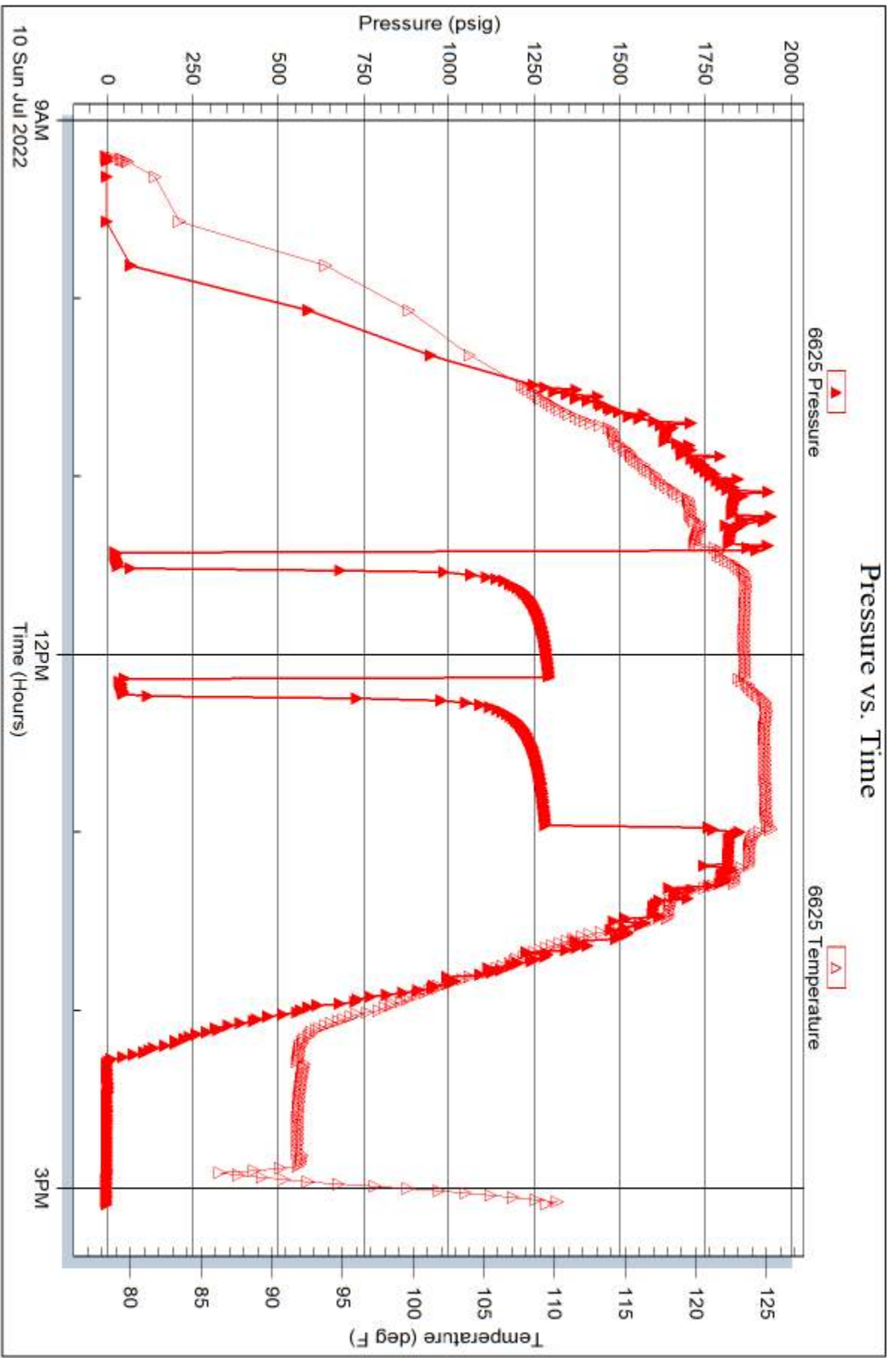
Serial #: 6625

Inside

Black Rock Resources

Flora #24-1

DST Test Number: 1





**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Black Rock Resources

24_13_27 Gove, KS

1029 E. 7TH ST. P.O. Box 553
Russell, KS 67665

Flora #24-1

Job Ticket: 69117

DST#: 2

ATTN: Chad Counts

Test Start: 2022.07.10 @ 23:38:00

GENERAL INFORMATION:

Formation: **LKC J&K**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 01:45:15

Time Test Ended: 06:54:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Dustin Day

Unit No: 70

Interval: 3899.00 ft (KB) To 3955.00 ft (KB) (TVD)

Reference Elevations: 2448.00 ft (KB)

Total Depth: 3955.00 ft (KB) (TVD)

2438.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition:

KB to GR/CF: 10.00 ft

Serial #: 8652 Outside

Press@RunDepth: 64.82 psig @ 3900.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2022.07.10

End Date:

2022.07.11

Last Calib.:

2022.07.11

Start Time: 23:38:05

End Time:

06:53:59

Time On Btm:

2022.07.11 @ 01:44:15

Time Off Btm:

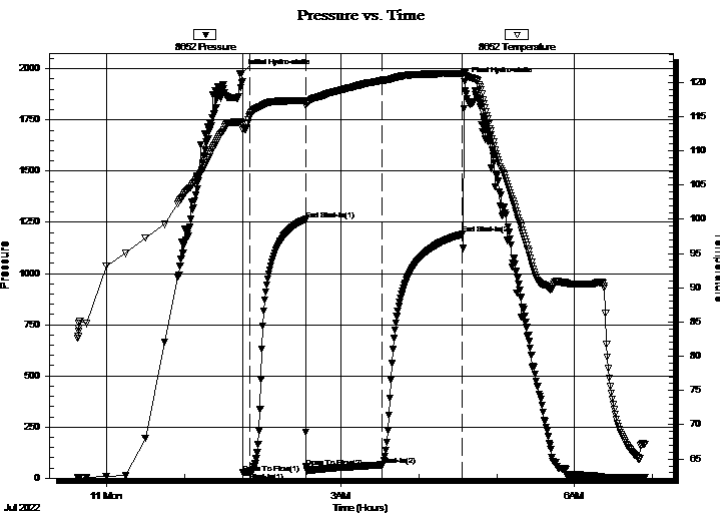
2022.07.11 @ 04:35:30

TEST COMMENT: IF-8- Built to 5 1/4"

SI1-40- No return

FF-60- BOB in 9 min, Built to 43 1/4"

SI2-60- 3/4" return blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1977.82	114.10	Initial Hydro-static
1	25.75	113.09	Open To Flow (1)
6	29.91	115.06	Shut-In(1)
49	1263.84	117.32	End Shut-In(1)
50	54.60	117.00	Open To Flow (2)
108	64.82	120.26	Shut-In(2)
170	1191.29	121.25	End Shut-In(2)
172	1936.95	121.41	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
64.00	GOCM 15% gas 20% oil 65% mud	0.90
53.00	GO 15% gas 85% oil	0.74
0.00	254' GIP	0.00

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Black Rock Resources

24_13_27 Gove, KS

1029 E. 7TH ST. P.O. Box 553
Russell, KS 67665

Flora #24-1

Job Ticket: 69117

DST#: 2

ATTN: Chad Counts

Test Start: 2022.07.10 @ 23:38:00

GENERAL INFORMATION:

Formation: **LKC J&K**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 01:45:15

Time Test Ended: 06:54:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Dustin Day

Unit No: 70

Interval: 3899.00 ft (KB) To 3955.00 ft (KB) (TVD)

Reference Elevations: 2448.00 ft (KB)

Total Depth: 3955.00 ft (KB) (TVD)

2438.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition:

KB to GR/CF: 10.00 ft

Serial #: 6625 Inside

Press@RunDepth: psig @ 3900.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2022.07.10

End Date:

2022.07.11

Last Calib.:

2022.07.11

Start Time: 23:38:05

End Time:

06:53:59

Time On Btm:

Time Off Btm:

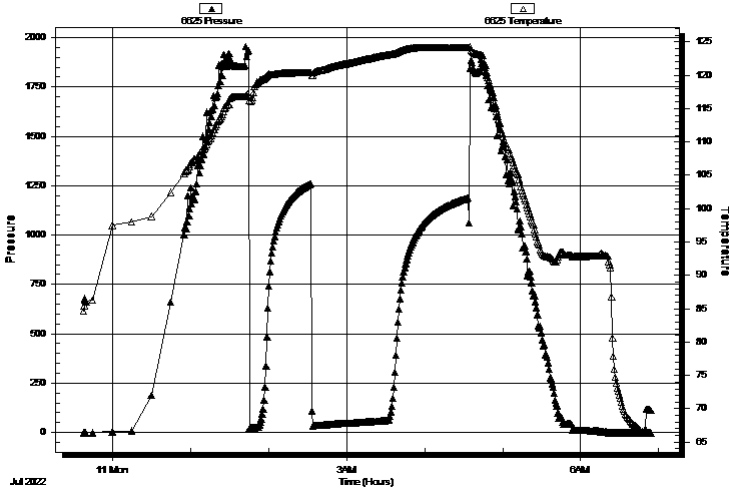
TEST COMMENT: IF-8- Built to 5 1/4"

SI1-40- No return

FF-60- BOB in 9 min, Built to 43 1/4"

SI2-60- 3/4" return blow

Pressure vs. Time



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
64.00	GOCM 15% gas 20% oil 65% mud	0.90
53.00	GO 15% gas 85% oil	0.74
0.00	254' GIP	0.00

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Black Rock Resources

24_13_27 Gove, KS

1029 E. 7TH ST. P.O. Box 553
Russell, KS 67665

Flora #24-1

Job Ticket: 69117

DST#: 2

ATTN: Chad Counts

Test Start: 2022.07.10 @ 23:38:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

38 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 53.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.40 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2100.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
64.00	GOCM 15% gas 20% oil 65% mud	0.898
53.00	GO 15% gas 85% oil	0.743
0.00	254' GIP	0.000

Total Length: 117.00 ft

Total Volume: 1.641 bbl

Num Fluid Samples: 0

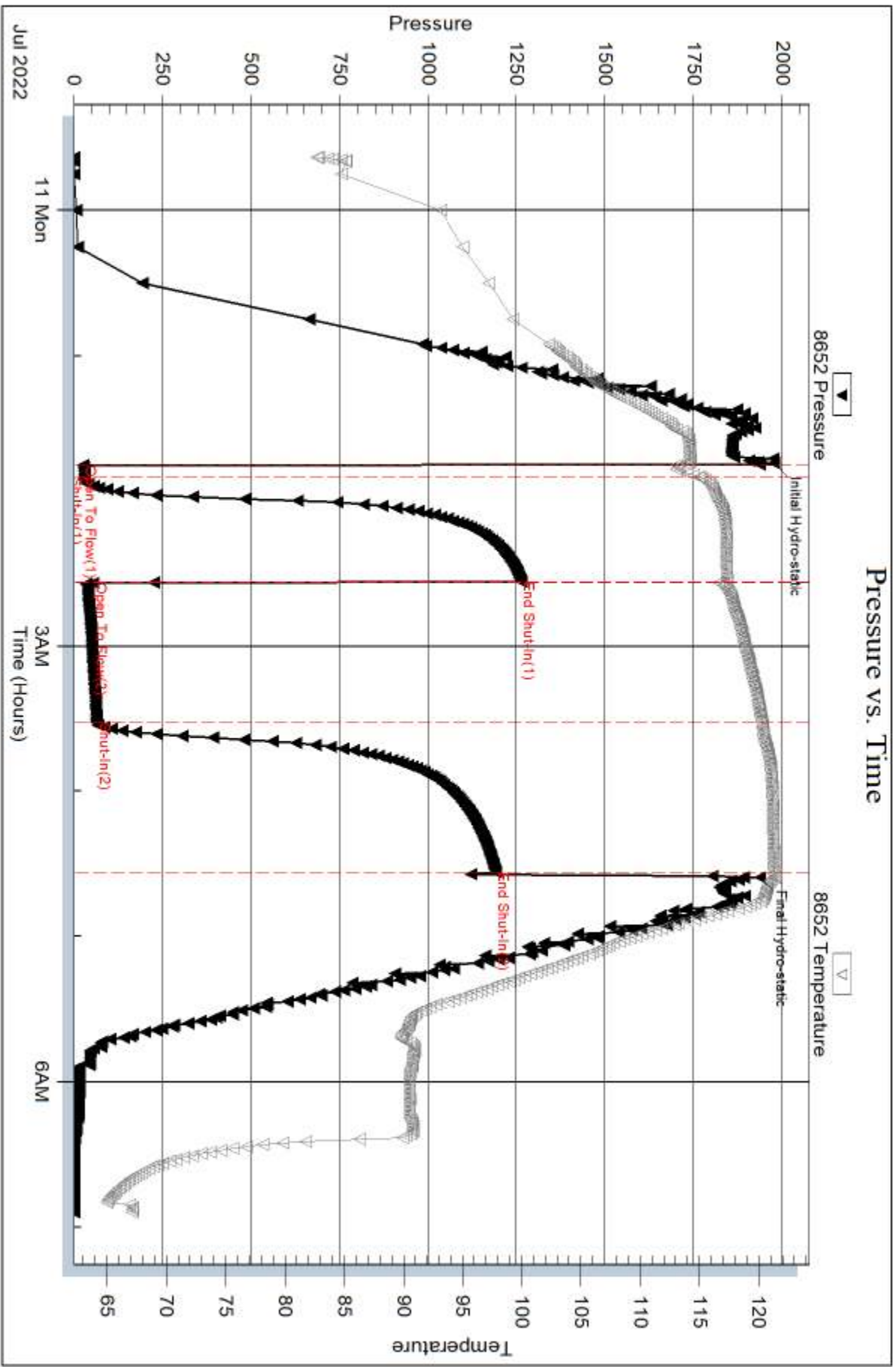
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



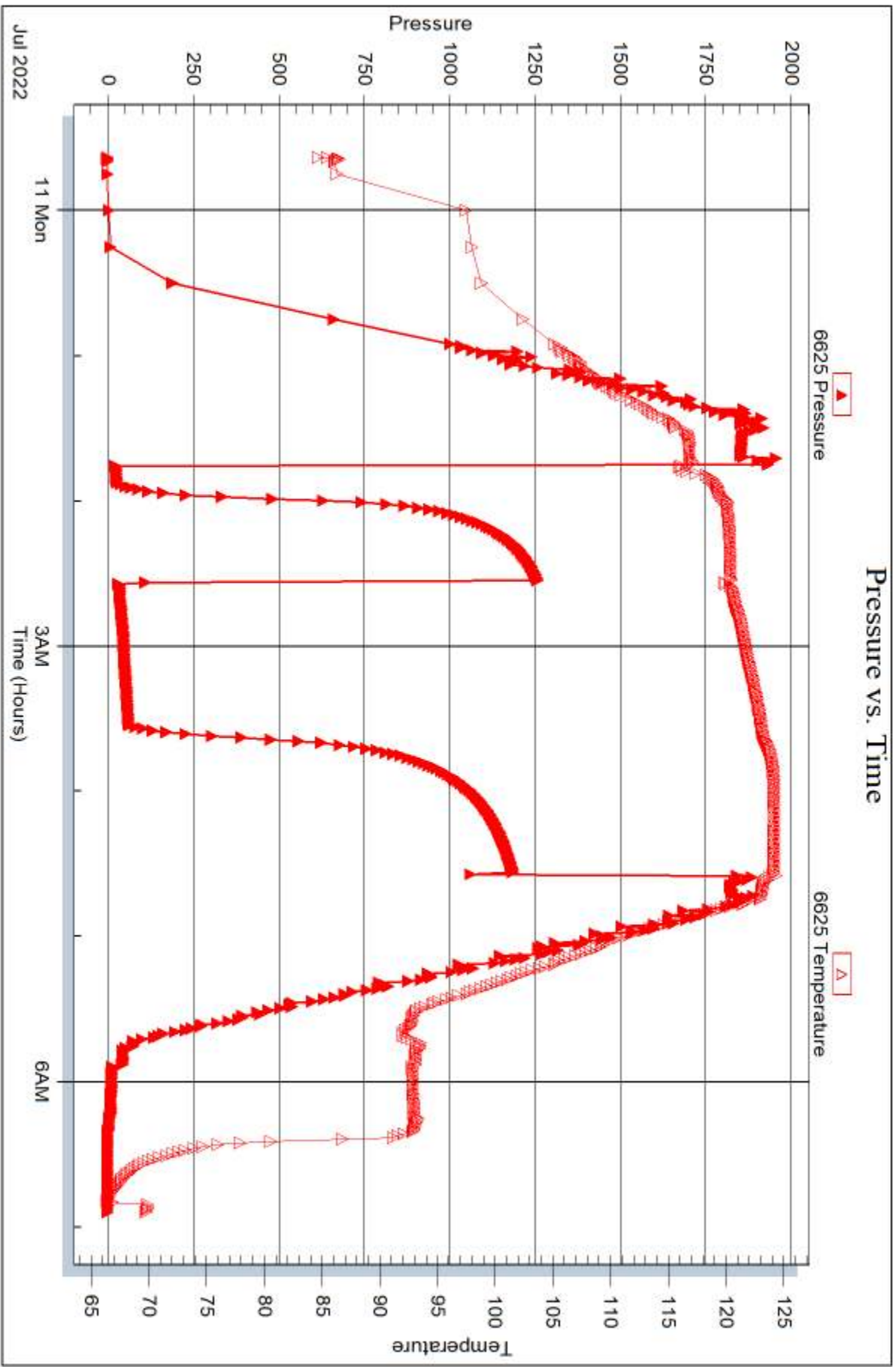
Serial #: 6625

Inside

Black Rock Resources

Flora #24-1

DST Test Number: 2



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. 2539

Date	7-6-22	Sec.	24	Twp.	13	Range	27	County	Gove	State	KS	On Location		Finish	
------	--------	------	----	------	----	-------	----	--------	------	-------	----	-------------	--	--------	--

Location *Quinter 10.5 1 1/2 W*

Lease *Flora* Well No. *1-24* Owner

Contractor *Sawthwind Dr-1* To Quality Oilwell Cementing, Inc.

Type Job *Surface* 270? You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.

Hole Size *12 1/4* T.D. *287?* Charge To *Black Rock Resources*

Csg. *2 3/8* Depth Street

Tbg. Size Depth City State

Tool Depth The above was done to satisfaction and supervision of owner agent or contractor.

Cement Left in Csg. *10-15* Shoe Joint *10 1/4* Cement Amount Ordered *180 60/30 342*

Meas Line Displace

EQUIPMENT

Pumptrk	P.No.	Cementer	Bill	Common	145
---------	-------	----------	------	--------	-----

		Helper		Poz. Mix	35
--	--	--------	--	----------	----

Bulktrk	16	No. Driver	Nick	Gel.	3
---------	----	------------	------	------	---

Bulktrk	14	No. Driver	Robert	Calcium	7
---------	----	------------	--------	---------	---

JOB SERVICES & REMARKS

Remarks:	Hulls
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	Salt
--	------

Rat Hole	Flowseal
----------	----------

Mouse Hole	Kol-Seal
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Centralizers	Mud CLR 48
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Baskets	CFL-117 or CD110 CAF 38
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D/V or Port Collar	Sand
--------------------	------

<i>Cement Cir</i>	Handling <i>190</i>
-------------------	---------------------

	Mileage
--	---------

FLOAT EQUIPMENT

	Guide Shoe
--	------------

	Centralizer
--	-------------

	Baskets
--	---------

	AFU Inserts
--	-------------

	Float Shoe
--	------------

	Latch Down
--	------------

--	--

--	--

--	--

--	--

	Pumptrk Charge <i>Surface</i>
--	-------------------------------

	Mileage <i>46</i>
--	-------------------

	Tax
--	-----

	Discount
--	----------

	Total Charge
--	--------------

X Signature	
-------------	--

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. 2921

Date	7-13-22	Sec.	24	Twp.	13	Range	27	County	Gove	State	Ks	On Location		Finish	4:00 AM
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Lease **Flora** Location **Quarter 115 to 0 Rd, 1 1/2 W**

Well No. **1-24** Owner **M. Int'l**

Contractor **Southwind #8** 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.

Type Job **Top Stage** Charge To **Black Rock Resources**

Hole Size **7 7/8 in** T.D. **4370'** Street

Csg. **5 1/2" 15.50** Depth

Tbg. Size Depth City State

Tool **DU Tool** Depth **1920.12'** The above was done to satisfaction and supervision of owner agent or contractor.

Cement Left in Csg. Shoe Joint Cement Amount Ordered **400 80/20 QMDC 1/4#**

Meas Line Displace **45 3/4 BGS Fib-seal** Common **400 80/20 QMDC**

EQUIPMENT Poz. Mix

Pumptrk **17** No. Cementer **Nick** Helper **Rock** Gel.

Bulktrk **19** No. Driver **Ross** Calcium

Bulktrk **9** No. Driver **Tom** Hulls

JOB SERVICES & REMARKS Salt

Remarks: **Drop Dart open tool 1000 #** Flowseal **100 #**

Rat Hole **305x** Kol-Seal

Mouse Hole **155x** Mud CLR 48

Centralizers CFL-117 or CD110 CAF 38

Baskets Sand

DN or Port Collar **#57 1920.12'** Sand handling **400**

Pipe on bottom break Circulate Mileage

Plug Rat + mouseholes Cement **Top stage w/ 355 sx, Shut** **down Drop-Plug + Displaced** **w/ 45 3/4 BGS 1120** **Released + held.**

Lift pressure 700 # **Closed tool with 1200 #** **Cement did Circulate**

Float Equipment Guide Shoe

Centralizer **See ticket #**

Baskets **2920**

AFU Inserts

Float Shoe

Latch Down

Pumptrk Charge **prod string** **Top Stage**

Mileage **46**

Tax

Discount

Total Charge

X Signature **Doug Roberts**

Thanks

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. 2920

Date	7-13-22	Sec.	24	Twp.	13	Range	27	County	Gove	State	Ks	On Location		Finish	2:45 AM
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Lease Flora Well No. 1-04 Owner Minto
Location Quinter - 115 to Ord, 1 1/2 W

Contractor Southwind #8 To Quality Oilwell Cementing, Inc.
Type Job Bottom Stage You are hereby requested to rent cementing equipment and furnish
Hole Size 7 7/8" T.D. 4370' Charge To Black Rock Resources
Csg. 5 1/2" 15.50 Depth 4352' Street _____
Tbg. Size _____ Depth _____ City _____ State _____

Tool D U Tool #57 Depth 1920.12' KB The above was done to satisfaction and supervision of owner agent or contractor.
Cement Left in Csg. 42, 43' Shoe Joint 42.43' Cement Amount Ordered 160 Q Pro-C 10% Salt
Meas Line _____ Displace 103 Bls 500 Gilsonite 500 gal mud Clear

EQUIPMENT
Pumptrk 17 No. Cement Nick Rick Common 160 Q Pro C
Bulktrk 9 No. Helper _____ Poz. Mix _____
Bulktrk 19 No. Driver Tim _____ Gel. _____
Bulktrk _____ No. Driver Ross _____ Calcium _____

JOB SERVICES & REMARKS
Remarks: Water @ 56 mud 48 Halls _____
Rat Hole ~~_____~~ Salt 14
Mouse Hole ~~_____~~ Flowseal _____
Centralizers 1, 3, 5, 7, 9, 11, 13, 15, 56 Kol-Seal 800#
Baskets 5, 17, 57 Mud CLR 48 500 gal
CFL-117 or CD110 CAF #8 _____

DN or Port Collar #57 1920.12' KB Sand _____
Pipe on bottom break circulation Handling 182
pump 500 gal mud Clear 5Bl Mileage _____
water spacer mix 160 x Q Pro C

Shut down wash pump + lines **FLOAT EQUIPMENT**
Displaced w/ 103 Bls. Released + Guide Shoe D U Tool w/ L Down
float held Centralizer 9
Baskets 3

Lift pressure 700 # AFU Inserts _____
Land plugs to 1500 # Float Shoe 1
Latch Down _____

Drop Dart + open tool _____
1600 # _____

Pumptrk Charge prod String Bottom Stage
Mileage _____

X Signature Doug Robert Tax _____
Discount _____

Total Charge _____
Thanks