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 #		API No.:
Name:		Spot Description:
Address 1:		SecTwpS. R East West
Address 2:		Feet from North / South Line of Section
City: State: Z	′ip:+	Feet from _ East / _ West Line of Section
Contact Person:		Footages Calculated from Nearest Outside Section Corner:
Phone: ()		□NE □NW □SE □SW
CONTRACTOR: License #		GPS Location: Lat:, Long:
Name:		(e.g. xxx.xxxxx) (e.gxxx.xxxxxx)
Wellsite Geologist:		Datum: NAD27 NAD83 WGS84
Purchaser:		County:
Designate Type of Completion:		Lease Name: Well #:
New Well Re-Entry	Workover	Field Name:
		Producing Formation:
Oil WSW SWD		Elevation: Ground: Kelly Bushing:
☐ Gas ☐ DH ☐ EOR ☐ GSW		Total Vertical Depth: Plug Back Total Depth:
CM (Coal Bed Methane)		Amount of Surface Pipe Set and Cemented at: Feet
Cathodic Other (Core, Expl., etc.):		Multiple Stage Cementing Collar Used?
If Workover/Re-entry: Old Well Info as follows:		If yes, show depth set: Feet
Operator:		If Alternate II completion, cement circulated from:
Well Name:		feet depth to:w/sx cmt.
Original Comp. Date: Original 7	Fotal Depth:	
Deepening Re-perf. Conv. to E	EOR Conv. to SWD	Drilling Fluid Management Plan
Plug Back Liner Conv. to 0	GSW Conv. to Producer	(Data must be collected from the Reserve Pit)
		Chloride content: ppm Fluid volume: bbls
_		Dewatering method used:
		Location of fluid disposal if bouled office.
		Location of fluid disposal if hauled offsite:
		Operator Name:
GOVV		Lease Name: License #:
Spud Date or Date Reached TD	Completion Date or	Quarter Sec TwpS. R
Recompletion Date	Recompletion Date	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 III Approved by: Date:							

KOLAR Document ID: 1469712

Page Two

Operator Name:					Lease Nam	ne:			Well #:	
Sec Tw	pS. F	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 (Attach Addit			Ye	es No		Lo	og Formatio	n (Top), Deptl	n and Datum	Sample
Samples Sent to	Geological Sur	vey	Ye	es 🗌 No		Name)		Тор	Datum
Cores Taken Electric Log Run Geologist Repor List All E. Logs F	t / Mud Logs		Y€ Y€	es No						
			Repo		RECORD [Nev	w Used rmediate, producti	on. etc.		
Purpose of St		ze Hole Orilled	Siz	e Casing (In O.D.)	Weight Lbs. / Ft.		Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
				ADDITIONAL	OF MENTING /					
Purpose:	[Depth	Typo	of Cement	# Sacks Use		EEZE RECORD	Typo a	nd Percent Additives	
Perforate Protect Ca Plug Back	Top	Bottom	туре	or cement	# Sacks Use	,u		туре а	ia reicent Additives	
Plug Off Z										
Did you perform Does the volum Was the hydraul	e of the total base	fluid of the hyd	draulic fra	cturing treatmen		•	Yes ns? Yes	No (If No	, skip questions 2 an , skip question 3) , fill out Page Three o	,
Date of first Produ	ction/Injection or	Resumed Produ	uction/	Producing Meth			Coolift 0	thor (Fundain)		
Estimated Produc	otion	Oil Bb	le.	Flowing Gas	Pumping	Wate		ther <i>(Explain)</i> bls.	Gas-Oil Ratio	Gravity
Per 24 Hours		Oli Bb	15.	Gas	IVICI	vvale	ı Di	JIS.	Gas-Oil Hallo	Gravity
DISPO	OSITION OF GAS	S:		N	METHOD OF CO	MPLE.	TION:		PRODUCTIO	N INTERVAL:
Vented	Sold Use	d on Lease		Open Hole		Dually		nmingled	Тор	Bottom
(If vente	ed, Submit ACO-18	.)			(5	SUDITIIL I	ACO-5) (Subi	mit ACO-4)		
Shots Per Foot	Perforation Top	Perforation Bottom	on	Bridge Plug Type	Bridge Plug Set At		Acid,		Cementing Squeeze Kind of Material Used)	Record
TUBING RECOR	D: Size:		Set At:		Packer At:					

Form	ACO1 - Well Completion
Operator	Richland Oil Investments, LLC
Well Name	MOORE 22-3
Doc ID	1469712

Tops

Name	Тор	Datum
Anhydrite	2590	+518
Anhdrite Base	2612	+496
Heebner	4012	-904
Toronto	4036	-928
Lansing	4056	-948
ВКС	4341	-1233
Marmaton	4356	-1248
Cherokee	4562	-1454
Johnson	4606	-1498
Morrow Sh	4644	-1536
Morrow Sst	4658	-1550
Mississippian	4702	-1594

Form	ACO1 - Well Completion
Operator	Richland Oil Investments, LLC
Well Name	MOORE 22-3
Doc ID	1469712

Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement		Type and Percent Additives
Surface	12.25	8.625	23	224	Common	150	3%CC 2% Gel

GLOBAL OIL FIELD SERVICES, LLC

13776

REMIT TO

24 S. Lincoln Russell, KS 67665

SERVICE POINT:

DATE > 73-14	SEC.	TWP.	RANGE		CALLED OUT	ON LOCATION		JOB FINISH
LEASE Morre	WELL#.	77	LOCATION	9	And the State of t	AC TO STON	COUNTY	STATE
OLD OR NEW (CIRC	CLE ONE)		y v a comment				1 Land of the land	1/4)
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TYPE OF JOB	Fface		3 , ,	1,3				
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STREET							TOTAL	
CITY	STATE	ZIP						
		241				PLUG & FLC	AT EQUIPMEN	TV
Global Oil Field S	ervices I	IC					***	
You are hereby requ	ested to re	nt cement	ng equinmen	t and			_ @	_
furnish cementer and	helper(s) to	assist ow	ner or contract	tor to	-		_ @	
do work as is listed.	The above	work was	done to satisf	action			_ @	
and supervision of ov	vner agent	or contract	or I have rea	d and			@	
understand the "GEI	VERAL TE	ERMS AN	D CONDITION	ONS			- @	
listed on the reverse s	ide.	ZIVID ZIIV.	COMPILI	OND				
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GLOBAL OIL FIELD SERVICES, LLC

CA

SERVICE POINT:

CONTRACTOR STANCES

13781

REMIT TO

LEASE /

CONTRACTOR
TYPE OF JOB
HOLE SIZE

CASING SIZE

TUBING SIZE DRILL PIPE

PRES. MAX

MEAS. LINE

CEMENT LEFT IN CSG.

DISPLACEMENT

PUMP TRUCK

BULK TRUCK
4 73

BULK TRUCK

CHARGE TO: STREET ____

TOOL

PERFS

OLD OR NEW (CIRCLE ONE)

24 S. Lincoln Russell, KS 67665

SEC.

WELL#.

EQUIPMENT

REMARKS:

WI PAT Plug

You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS"

ZIP

1005/5

STATE -

Global Oil Field Services, LLC

listed on the reverse side.

PRINTED NAME

SIGNATURE

CEMENTER

HELPER

DRIVER

DRIVER

TWP. .

RANGE

T.D.

DEPTH DEPTH

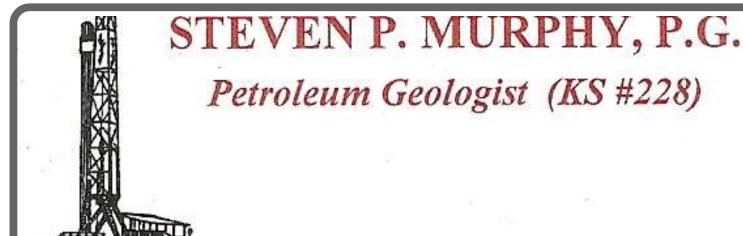
DEPTH DEPTH

MINIMUM

SHOE JOINT

LOCATION

	ON LOCATION	JOB START	JOB FINISH
ALC:		COUNTY	STATE
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1AC	42		
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MILEAGE DEPTH OF JOI PUMP TRUCK EXTRA FOOT. MILEAGE	SE CHARGE AGE PLUG & FLO	TOTE CRVICE - @	AL ENT
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MILEAGE DEPTH OF JOI PUMP TRUCK EXTRA FOOT. MILEAGE	SE BCHARGEAGEPLUG & FLO	TOTE CRVICE - @	AL ENT
DEPTH OF JOI PUMP TRUCK EXTRA FOOT. MILEAGE MANIFOLD	SE B CHARGE AGE PLUG & FLO	TOTE CRVICE - @	AL ENT
DEPTH OF JOI PUMP TRUCK EXTRA FOOT MILEAGE MANIFOLD SALES TAX (1)	SE B CHARGE AGE PLUG & FLO	TOTE CRVICE - @	AL ENT



Cell 620.639.3030 Fax 785.387.2400

RR#1, Box 69 Otis, Kansas 67565 geomurphy@gbta.net

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

Well Name: Moore #22-3

API: 15-109-21594-00-00

Location: Logan County

License Number: 34099

Region: Kansas Drilling Completed: 08/01/2019 Spud Date: 7/23/2019

Surface Coordinates: 2270' FSL & 1200' FWL (SE NE NW SW)

Section 22-T12S-R33W

Bottom Hole Same as above, vertical well

Coordinates:

Ground Elevation (ft): 3098'

K.B. Elevation (ft): 3108'

Total Depth (ft): 4778' KB 3700' To: 4780' Logged Interval (ft):

Topeka through Mississippian Formation:

Type of Drilling Fluid: Chemical

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

OPERATOR

Company: Richland Oil Investments, LLC

Address: P.O. Box 166

Palco, KS 67657-0166

GEOLOGIST

Name: Steven P. Murphy, PG

Company: Consulting Petroleum Geologist

2501 Zarah Drive Address:

Great Bend, KS 67530

LogTops (Datum)

Anhydrite Top - 2590 (+518)

Anhydrite Base - 2612 (+496)

Heebner - 4012 (-904)

Toronto - 4036 (-928) Lansing - 4056 (-948)

Muncie Creek - 4203 (-1095)

Stark - 4283 (-1175)

Hushpuckney - 4319 (-1211)

BKC - 4341 (-1233)

Marmaton - 4356 (-1248)

Pawnee - 4476 (-1368)

Myrick Station - 4518 (-1410)

Ft. Scott - 4535 (-1427)

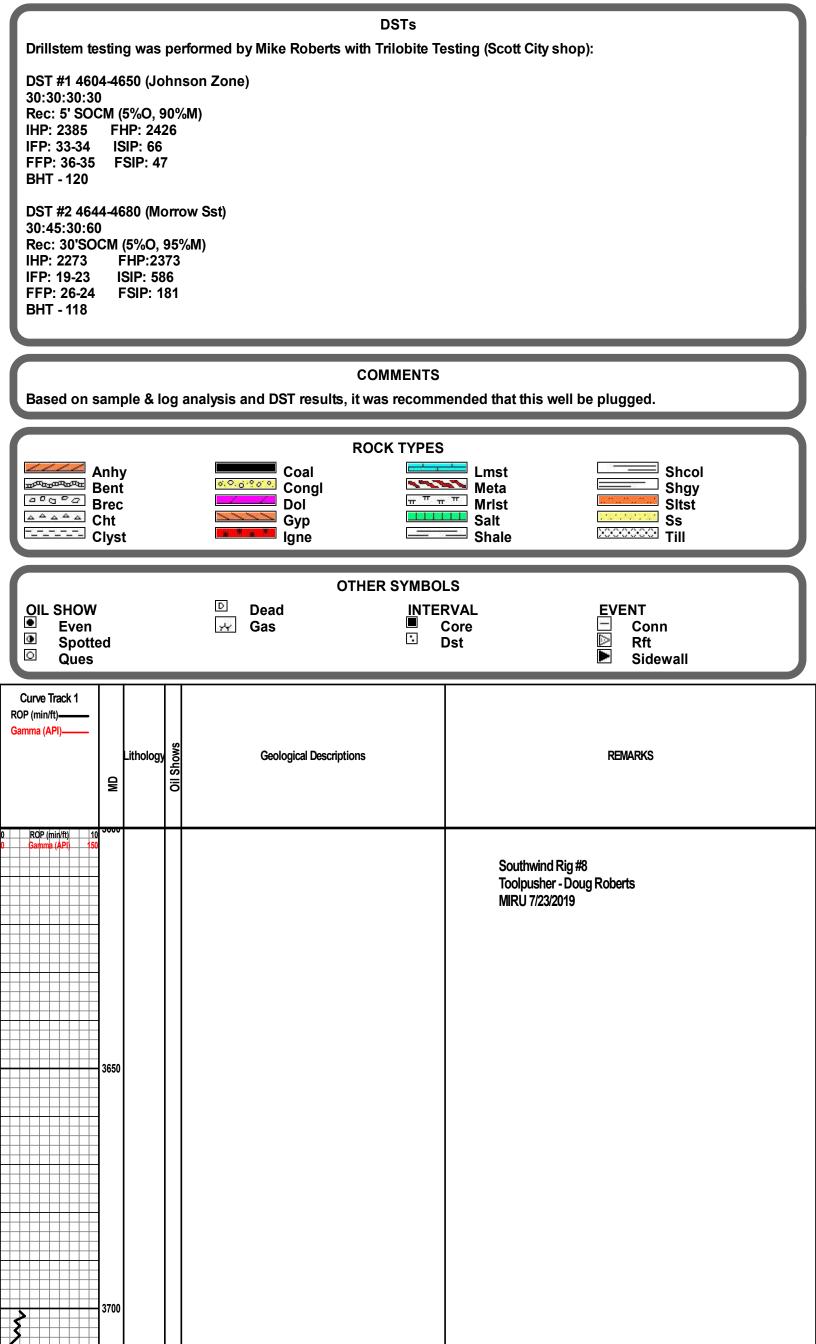
Cherokee - 4562 (-1454)

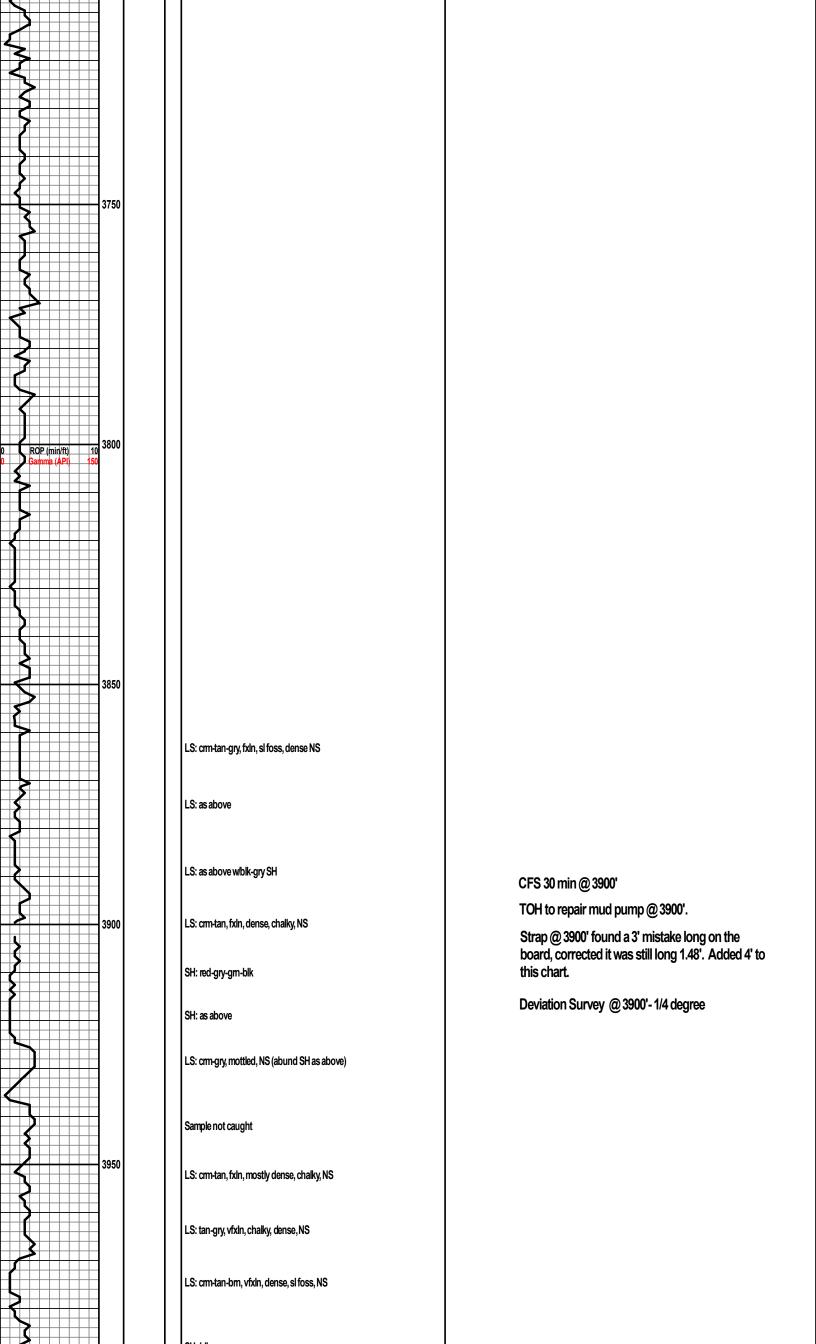
Johnson Zone - 4606 (-1498)

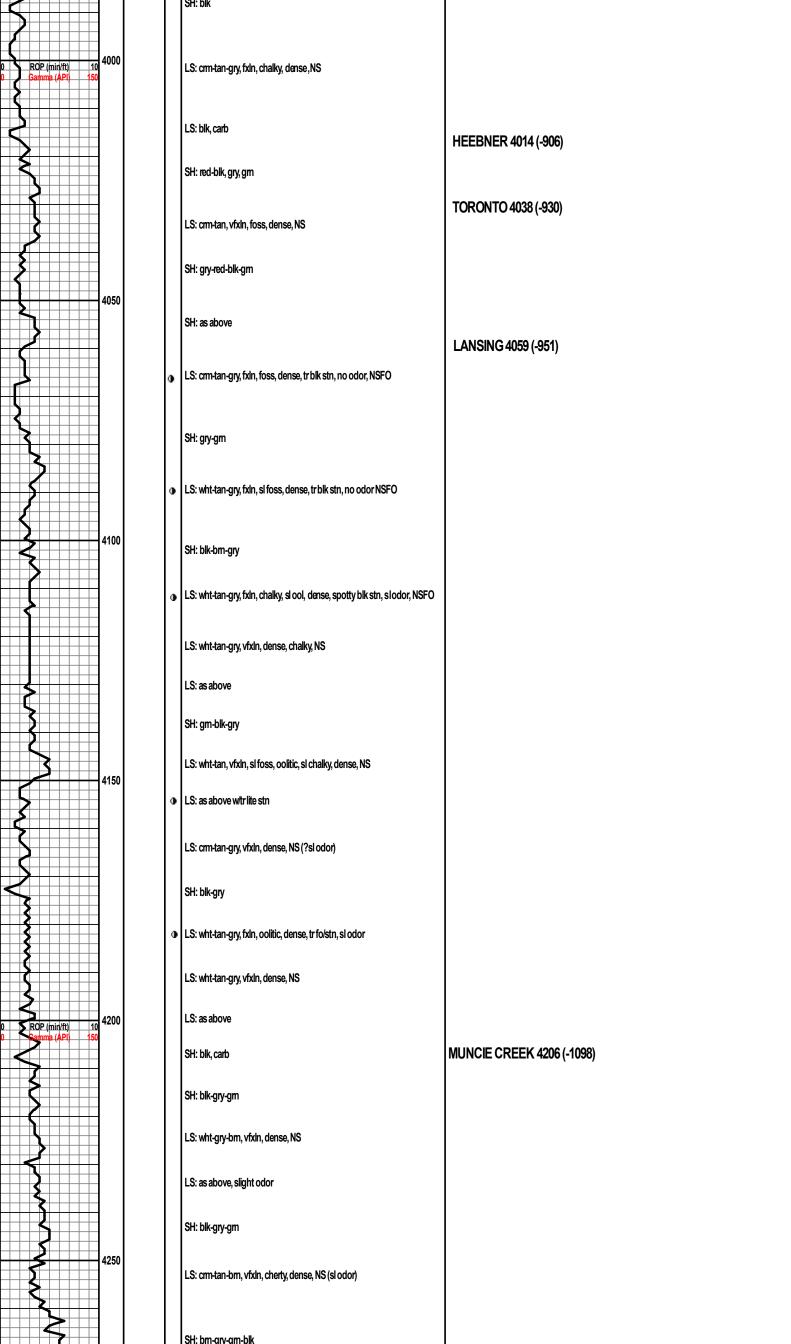
Morrow Sh - 4644 (-1536)

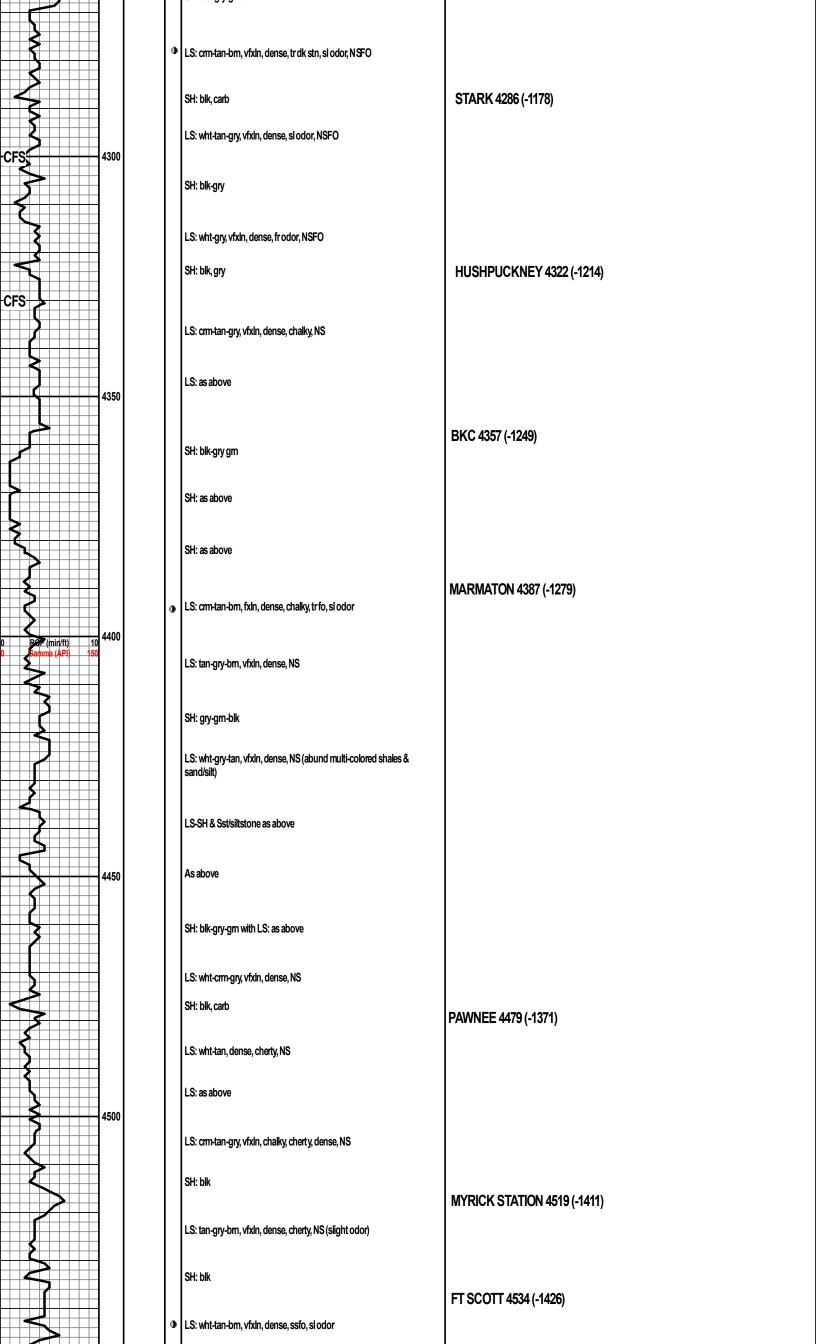
Morrow Sst - 4658 (-1550)

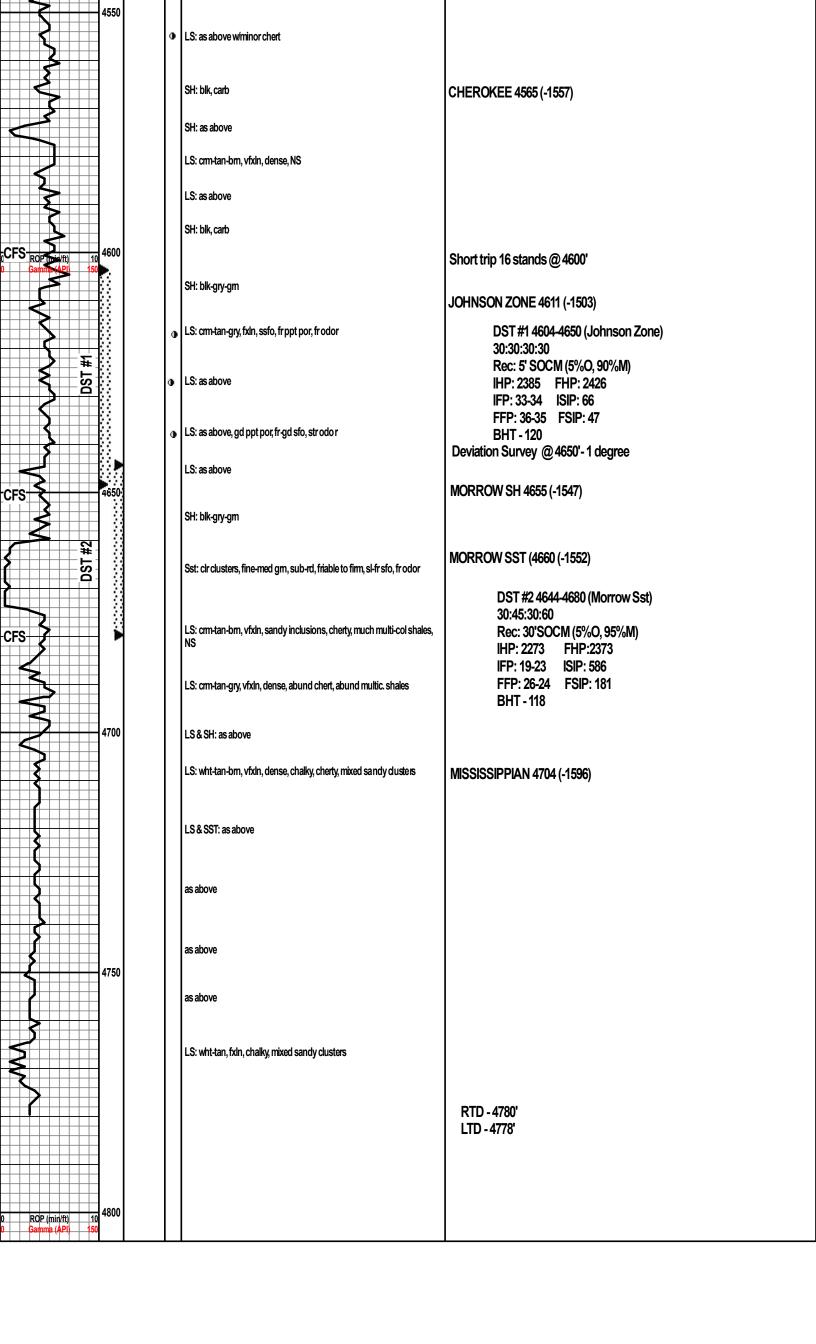
Mississippian - 4702 (-1594)













Richland Oil Investments LLC

Moore 22-3

608 E. 1st. P.O.. Box 166 Palco Tx 67657

ATTN: Steve Murphy

Job Ticket: 64843

DST#:1

Palco IX 0/00/

Test Start: 2019.07.30 @ 08:45:15

22-12-33 Logan Co KS

GENERAL INFORMATION:

Formation: Johnson

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 11:01:00
Time Test Ended: 14:49:30

4604.00 ft (KB) To 4650.00 ft (KB) (TVD)

Total Depth: 4650.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Test Type: Conventional Bottom Hole (Initial)

Mike Roberts

Unit No: 81

Reference Elevations:

Tester:

0400

31

3108.00 ft (KB) 3098.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 8521
Press@RunDepth:

Interval:

Start Date:

Start Time:

Inside

34.73 psig @ 2019.07.30

08:21:00

4640.00 ft (KB) End Date:

End Time:

2019.07.30

Capacity: Last Calib.: 8000.00 psig

2019.07.30

14:25:15

Time On Btm:

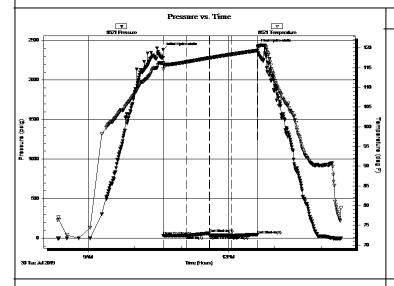
2019.07.30 @ 10:36:30

Time Off Btm:

2019.07.30 @ 12:38:00

TEST COMMENT: IF:Built to weak surface blow

IS:No return blow FF:No blow FS:No return blow



PRESSURE SUMMARY Pressure Temp Annotation

lime	Pressure	lemp	Annotation
(Min.)	(psig)	(deg F)	
0	2384.56	116.23	Initial Hydro-static
1	33.17	114.62	Open To Flow (1)
30	34.32	116.41	Shut-In(1)
60	65.59	117.48	End Shut-In(1)
60	35.53	117.46	Open To Flow (2)
88	34.73	118.38	Shut-In(2)
121	47.42	119.33	End Shut-In(2)
122	2425.62	120.20	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	socm 10%o 90%m	0.07

Gas Rates

Choke (inches) Pressure (psig)

Gas Rate (Mcf/d)

Trilobite Testing, Inc Ref. No: 64843 Printed: 2019.07.30 @ 15:03:53



Richland Oil Investments LLC

22-12-33 Logan Co KS

81

608 E. 1st. P.O.. Box 166

Palco Tx 67657

Job Ticket: 64843

Moore 22-3

DST#: 1

ATTN: Steve Murphy

Test Start: 2019.07.30 @ 08:45:15

Test Type: Conventional Bottom Hole (Initial)

GENERAL INFORMATION:

Formation: Johnson

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 11:01:00 Tester: Mike Roberts

Time Test Ended: 14:49:30 Unit No:

Interval: 4604.00 ft (KB) To 4650.00 ft (KB) (TVD) Reference ⊟evations: 3108.00 ft (KB)

Total Depth: 4650.00 ft (KB) (TVD) 3098.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 10.00 ft

Serial #: 8968 Outside

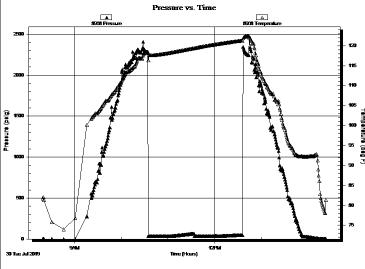
 Press@RunDepth:
 psig
 @
 4640.00 ft (KB)
 Capacity:
 8000.00 psig

Start Date: 2019.07.30 End Date: 2019.07.30 Last Calib.: 2019.07.30

Start Time: 08:19:15 End Time: 14:23:30 Time On Btm: Time Off Btm:

TEST COMMENT: IF:Built to weak surface blow

IS:No return blow FF:No blow FS:No return blow



Ы	RESSUF	RE SU	MMARY

	Time	Pressure	Temp	Annotation
	(Min.)	(psig)	(deg F)	
_				
en e				
Temperature (deg F)				
(i				
Ē				

Recovery

Description	Volume (bbl)
socm 10%o 90%m	0.07
	Description socm 10%o 90%m

Gas Rates

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

Trilobite Testing, Inc Ref. No: 64843 Printed: 2019.07.30 @ 15:03:53



FLUID SUMMARY

Richland Oil Investments LLC

22-12-33 Logan Co KS

608 E. 1st. P.O.. Box 166 Palco Tx 67657 Moore 22-3

Job Ticket: 64843

Serial #:

DST#:1

ATTN: Steve Murphy

Test Start: 2019.07.30 @ 08:45:15

Mud and Cushion Information

Mud Type:Gel ChemCushion Type:Oil API:0 deg APIMud Weight:9.00 lb/galCushion Length:ftWater Salinity:0 ppm

Mud Weight:9.00 lb/galCushion Length:ftViscosity:61.00 sec/qtCushion Volume:bbl

Water Loss: 7.98 in³ Gas Cushion Type:

Resistivity: 0.00 ohm.m Gas Cushion Pressure: psig

Salinity: 4000.00 ppm Filter Cake: 1.00 inches

Recovery Information

Recovery Table

 Length ft
 Description
 Volume bbl

 5.00
 socm 10% o 90% m
 0.070

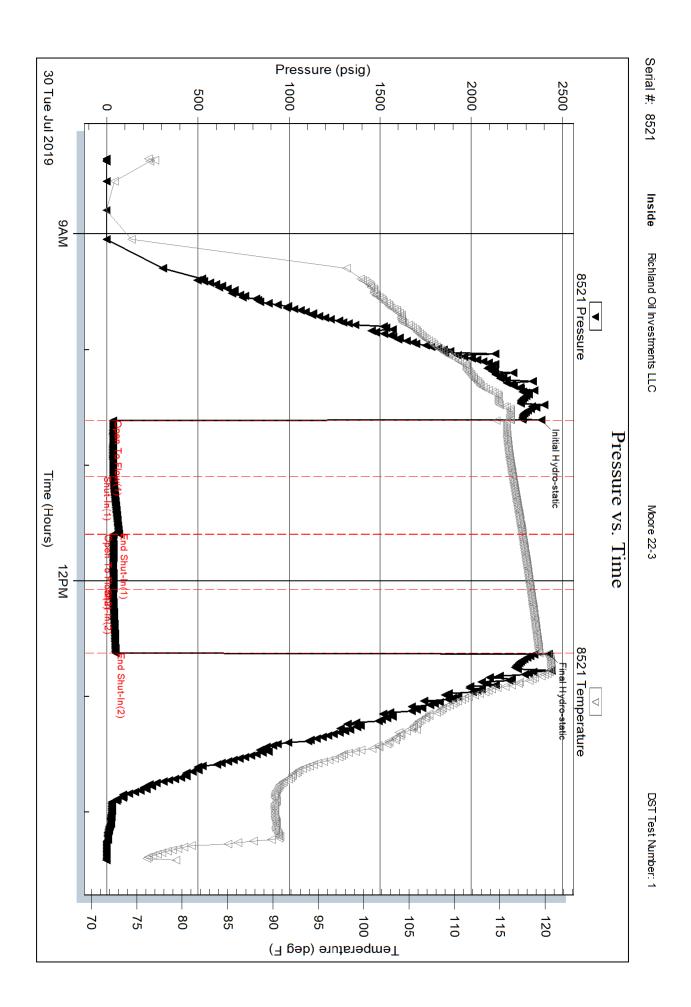
Total Length: 5.00 ft Total Volume: 0.070 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0

Laboratory Name: Laboratory Location:

Recovery Comments:

Trilobite Testing, Inc Ref. No: 64843 Printed: 2019.07.30 @ 15:03:54

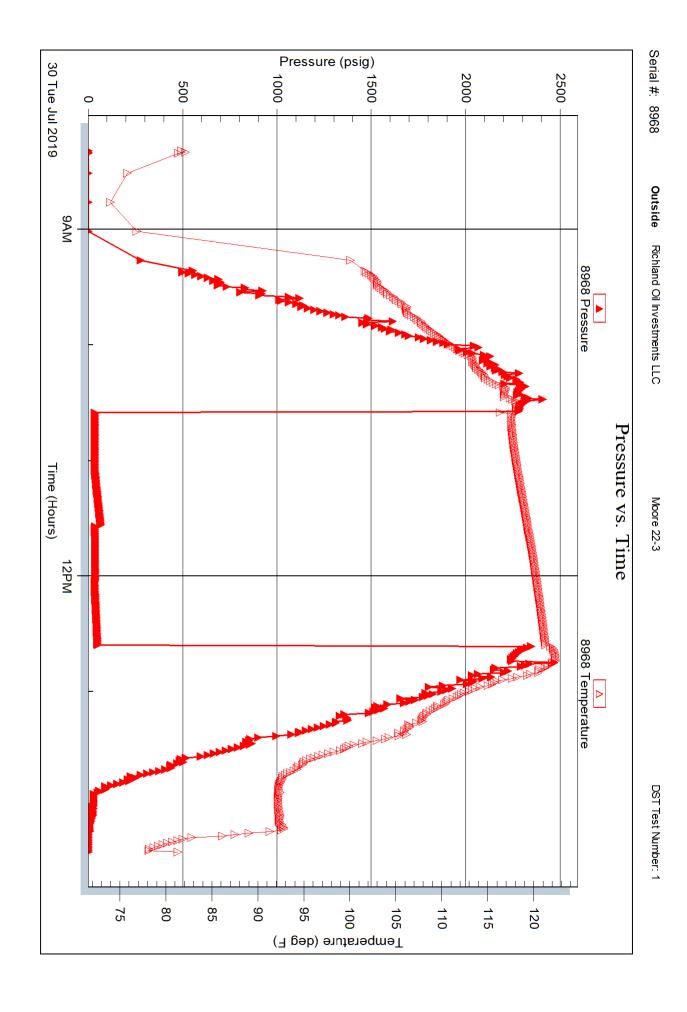


Trilobite Testing, Inc

Ref. No:

64843

Printed: 2019.07.30 @ 15:03:54



Trilobite Testing, Inc

Ref. No: 64843

Printed: 2019.07.30 @ 15:03:54



Richland Oil Investments LLC

Moore 22-3

608 E. 1st. P.O.. Box 166 Palco Tx 67657

Job Ticket: 64844

DST#: 2

22-12-33 Logan Co KS

ATTN: Steve Murphy

Test Start: 2019.07.30 @ 22:03:15

GENERAL INFORMATION:

Formation: **Morrow Sand**

Deviated: Whipstock: Test Type: Conventional Bottom Hole (Reset) ft (KB)

Time Tool Opened: 23:57:30 Time Test Ended: 04:26:15

Interval: 4644.00 ft (KB) To 4680.00 ft (KB) (TVD)

Total Depth: 4680.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Inside

Tester: Mike Roberts

Unit No: 81

Reference Elevations:

3108.00 ft (KB)

3098.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 8521

Start Date:

Start Time:

Press@RunDepth:

24.17 psig @

2019.07.30

22:03:15

4645.00 ft (KB) End Date:

End Time:

2019.07.31 04:26:15 Capacity:

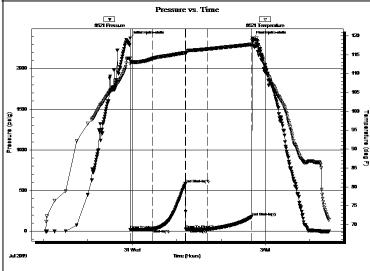
8000.00 psig

Last Calib.: 2019.07.31

Time On Btm: Time Off Btm: 2019.07.30 @ 23:57:15 2019.07.31 @ 02:42:30

TEST COMMENT: IF:Built to 1" blow

IS:No return blow FF:Built to 1 1/4" blow FS:No return blow



	FINESSUINE SUIVIMANT				
	Time	Pressure	Temp	Annotation	
	(Min.)	(psig)	(deg F)		
	0	2373.70	114.03	Initial Hydro-static	
	1	19.06	112.61	Open To Flow (1)	
	31	23.39	114.01	Shut-In(1)	
	75	586.57	115.53	End Shut-In(1)	
	76	26.66	115.24	Open To Flow (2)	
	105	24.17	116.50	Shut-In(2)	
ì	165	181.21	117.75	End Shut-In(2)	
,	166	2373.12	118.81	Final Hydro-static	

PRESSURE SUMMARY

Recovery

Length (ft)	Description	Volume (bbl)
30.00	socm 5 % o 95%m	0.42
* Recovery from mult	iple tests	

Gas Rates			
	Choke (inches)	Pressure (neig)	Gas Rate (Mcf/d)

Trilobite Testing, Inc. Ref. No: 64844 Printed: 2019.07.31 @ 07:19:42



Richland Oil Investments LLC

22-12-33 Logan Co KS

608 E. 1st. P.O.. Box 166

ATTN: Steve Murphy

Palco Tx 67657

Moore 22-3

Job Ticket: 64844

Test Start: 2019.07.30 @ 22:03:15

DST#: 2

GENERAL INFORMATION:

Formation: **Morrow Sand**

Deviated: Whipstock: Test Type: Conventional Bottom Hole (Reset) ft (KB)

Time Tool Opened: 23:57:30 Tester: Mike Roberts

Time Test Ended: 04:26:15 Unit No: 81

Interval: 4644.00 ft (KB) To 4680.00 ft (KB) (TVD) Reference Elevations: 3108.00 ft (KB)

Total Depth: 4680.00 ft (KB) (TVD) 3098.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 10.00 ft

Serial #: 8968 Outside

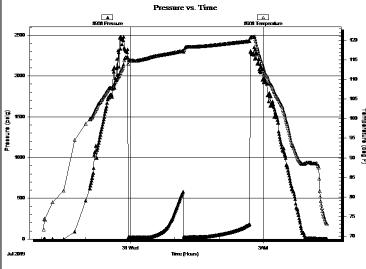
Press@RunDepth: 4645.00 ft (KB) Capacity: 8000.00 psig psig @

Start Date: 2019.07.30 End Date: 2019.07.31 Last Calib.: 2019.07.31

Start Time: 22:03:15 End Time: 04:26:00 Time On Btm: Time Off Btm:

TEST COMMENT: IF:Built to 1" blow

IS:No return blow FF:Built to 1 1/4" blow FS:No return blow



	PRESSURE SUMMARY		
Time	Pressure	Temp	Annotation

	(Min.)	(psig)	(deg F)	, , , , , , , , , , , , , , , , , , , ,	
,					
Temperature (dec F)					
פ					

Recovery

Length (ft)	Description	Volume (bbl)
30.00	socm 5 % o 95%m	0.42
* Recovery from mult	tiple tests	

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

Printed: 2019.07.31 @ 07:19:42 Trilobite Testing, Inc Ref. No: 64844



FLUID SUMMARY

Richland Oil Investments LLC

22-12-33 Logan Co KS

608 E. 1st. P.O.. Box 166 Palco Tx 67657 Moore 22-3

Job Ticket: 64844

Serial #:

DST#: 2

ATTN: Steve Murphy

Test Start: 2019.07.30 @ 22:03:15

Mud and Cushion Information

Mud Type:Gel ChemCushion Type:Oil API:0 deg APIMud Weight:9.00 lb/galCushion Length:ftWater Salinity:0 ppm

Viscosity: 60.00 sec/qt Cushion Volume: bbl

7.97 in³ Gas Cushion Type:

Resistivity: 0.00 ohm.m Gas Cushion Pressure: psig

Salinity: 4000.00 ppm Filter Cake: 1.00 inches

Recovery Information

Water Loss:

Recovery Table

Length ft	Description	Volume bbl
30.00	socm 5 % o 95%m	0.421

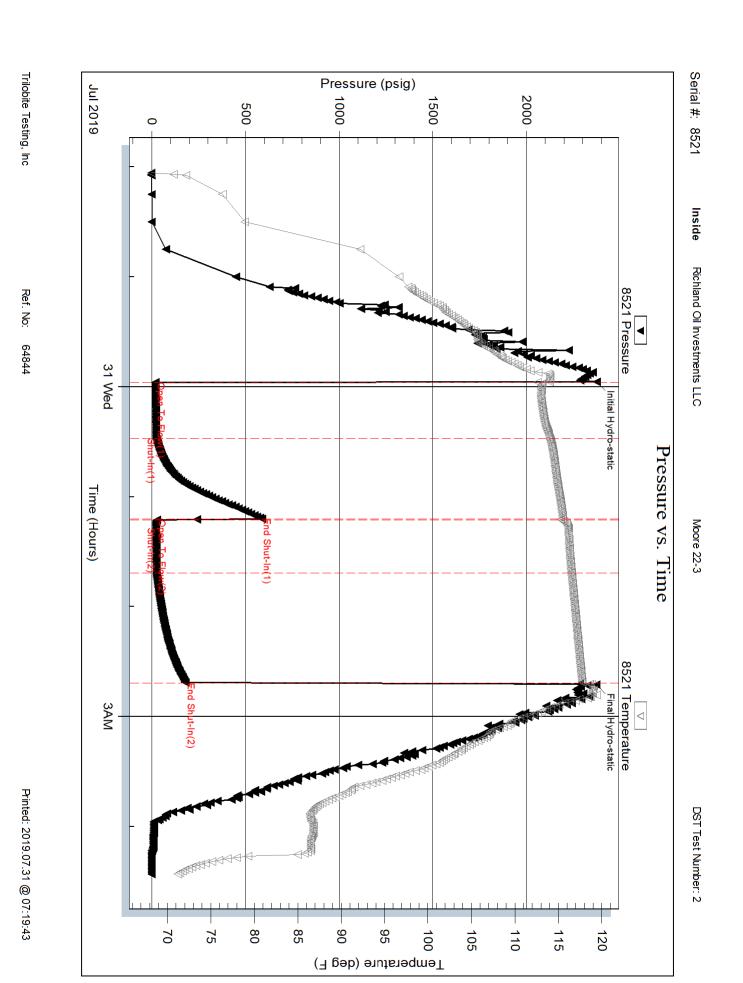
Total Length: 30.00 ft Total Volume: 0.421 bbl

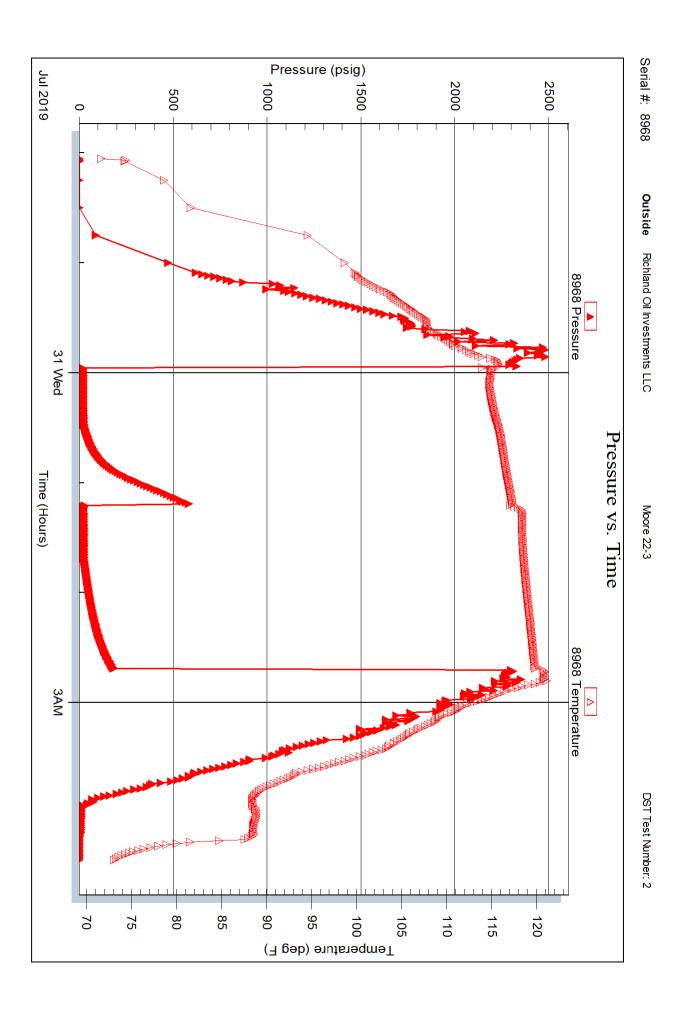
Num Fluid Samples: 0 Num Gas Bombs: 0

Laboratory Name: Laboratory Location:

Recovery Comments:

Trilobite Testing, Inc Ref. No: 64844 Printed: 2019.07.31 @ 07:19:43





Trilobite Testing, Inc

Ref. No:

64844

Printed: 2019.07.31 @ 07:19:43