

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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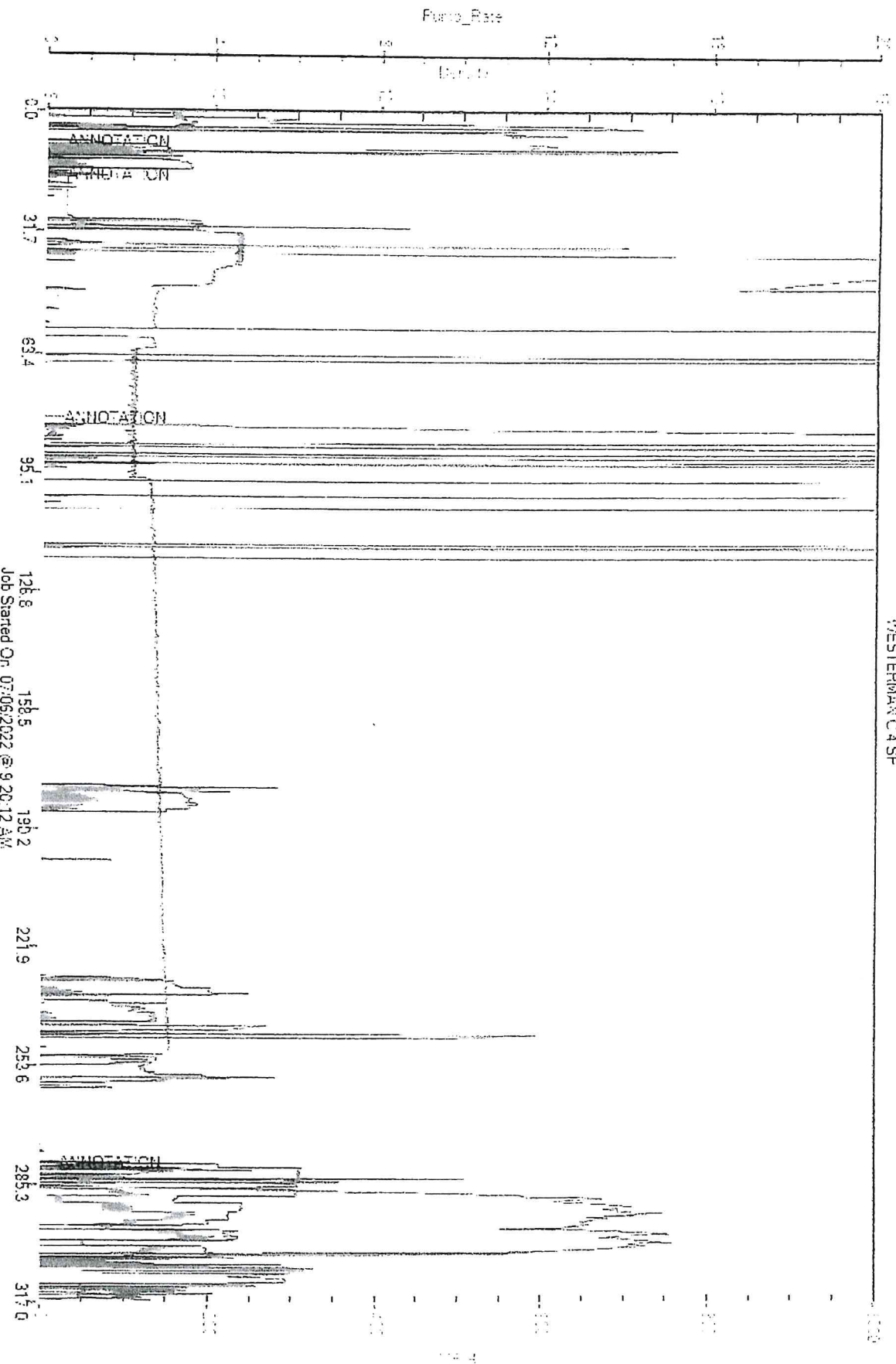








R & B OIL AND GAS  
WESTERMAN C4 SF



# QUALITY WELL SERVICE, INC.

8024

Office 620-786-6992  
Fax 620-672-3663

Home Office 30060 N. Hwy 281, Pratt, KS 67124  
Mailing Address P.O. Box 468

Todd's Cell 620-388-4967  
Brady's Cell 620-727-6964

Date	7-12-22	Sec.	19	Twp.	305	Range	9W	County	Kingman	State	Ks	On Location		Finish	
Lease	WESTWARD	Well No.	C-4	Location	Nashville Ks 3 E to 120th Rd										
Contractor	Fossil D&G 26 13														
Type Job	PTA	Owner 25 W 19th													
Hole Size	7 7/8	T.D.	4740												
Csg.		Depth	Charge To RIB OIL? GAS INC												
Tbg. Size	4 1/2 DP	Depth	Street												
Tool		Depth	City												
Cement Left in Csg.		Shoe Joint	The above was done to satisfaction and supervision of owner agent or contractor.												
Meas Line		Displace	Cement Amount Ordered 215 sc 6060												
<b>EQUIPMENT</b>															
Pumptrk	8	No.		Common		4 1/2 TEL									
Bulktrk	15	No.		Poz. Mix		86 sc									
Bulktrk		No.		Gel.		790'									
Pickup		No.		Calcium											
<b>JOB SERVICES &amp; REMARKS</b>															
Rat Hole	305	Hulls													
Mouse Hole	204	Salt													
Centralizers		Flowseal													
Baskets		Kol-Seal													
D/V or Port Collar		Mud CLR 48													
1st Plug	4740	CFL-117 or CD110 CAF 38													
2nd Plug	1450	Sand													
3rd Plug	1000	Handling 223													
4th Plug	320	Mileage 40 / 8920													
DISJ MOD		<b>FLOAT EQUIPMENT</b>													
DISJ MOD		Guide Shoe													
DISJ MOD		Centralizer													
DISJ MOD		Baskets													
DISJ MOD		AFU Inserts													
DISJ MOD		Float Shoe													
DISJ MOD		Latch Down													
DISJ MOD		Pumptrk Charge PTA													
DISJ MOD		Mileage 80													
DISJ MOD		Tax													
DISJ MOD		Discount													
DISJ MOD		Total Charge													
Signature		Total Charge													



# Timothy G. Pierce

## Petroleum Geologist

### GEOLOGIST'S REPORT DRILLING TIME AND SAMPLE LOG

COMPANY R&B Oil & Gas, Inc

LEASE Westernman 'C' #4

FIELD Spivey-Grabs-Basil

LOCATION C SE SE

SEC 19 TWP 30S RGE 9W

COUNTY Kingman STATE Kansas

CONTRACTOR Fossil Drilling Rig #3

SPUD 7-05-2022 COMP 7-12-2022

RTD 4740 LTD NA

MUD UP 3191 TYPE MUD Chemical

SAMPLES SAVED FROM 3400 TO RTD

DRILLING TIME KEPT FROM 3400 TO RTD

SAMPLES EXAMINED FROM 3500 TO RTD

GEOLOGICAL SUPERVISION FROM 3620 to RTD

GEOLOGIST ON WELL Tim Pierce

#### ELEVATIONS

KB 1722'

DF \_\_\_\_\_

GL 1710'

Measurements Are All  
From Kelly Bushing

#### CASING

CONDUCTOR \_\_\_\_\_

SURFACE 8-5/8" at 263'

PRODUCTION None

#### ELECTRICAL SURVEYS

\_\_\_\_\_ None

#### FORMATION TOPS

#### ELECTRIC LOG

#### SAMPLE

Heebner Sh. 3499 (-1777)

Stark Sh. 4108 (-2386)

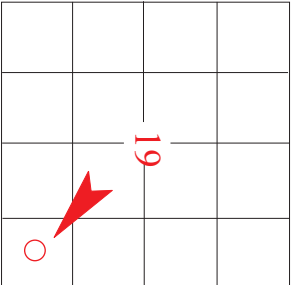
Cherokee Sh. 4339 (-2617)

Mississippi 4375 (-2653)

Chattanooga Sh. 4632 (-2910)

Viola 4667 (-2945)

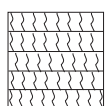
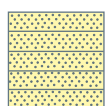
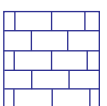
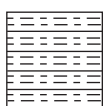

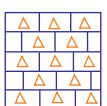

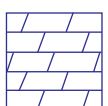
Simpson 4732 (-3010)



REMARKS The Upper Mississippi section tested low volume gas with depleted pressures, the lower Mississippi zone that was productive in the C#1 well tested only gas cut mud w/oil specks and tight pressures, since the lower zone in the Miss was the main objective in drilling this well and it proved non permeable, the decision was made to plug and abandon the Westerman C-4 as a dry hole.

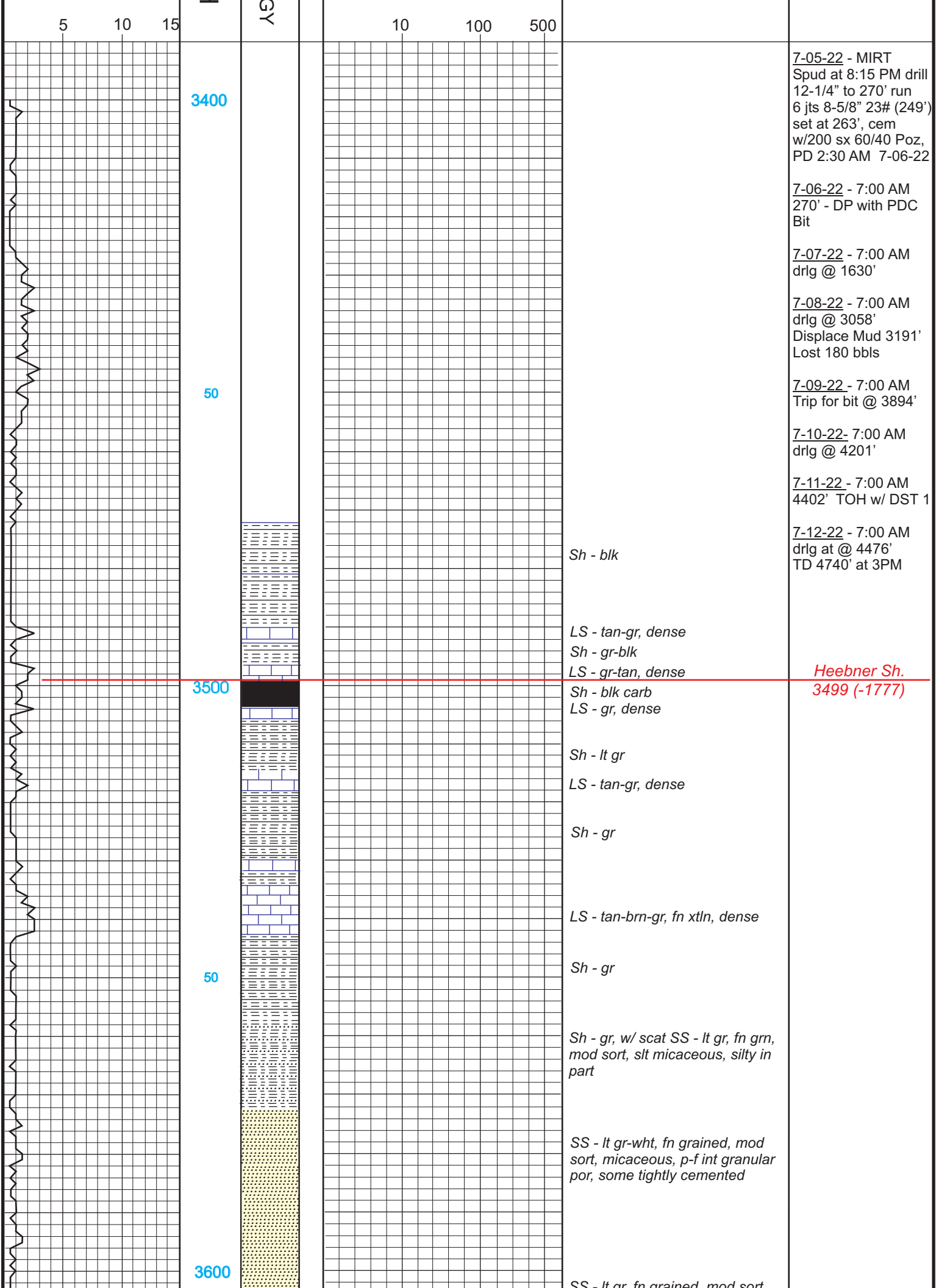
*Timothy G. Pierce*

#### LEGEND

							
Anhydrite	Sandstone	Limestone	Shale	Carb Sh	Cherty LS	Chert	Dolomite

DRILLING TIME IN MINUTES PER FOOT Rate of Penetration Decreases 	<b>DEPTH</b>	<b>LITHOLOGY</b>	<b>GAS SCALE</b>	<b>SAMPLE DESCRIPTION</b>	<b>REMARKS</b>
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7-05-22 - MIRT  
 Spud at 8:15 PM drill  
 12-1/4" to 270' run  
 6 jts 8-5/8" 23# (249')  
 set at 263', cem  
 w/200 sx 60/40 Poz,  
 PD 2:30 AM 7-06-22

7-06-22 - 7:00 AM  
 270' - DP with PDC  
 Bit

7-07-22 - 7:00 AM  
 drlg @ 1630'

7-08-22 - 7:00 AM  
 drlg @ 3058'  
 Displace Mud 3191'  
 Lost 180 bbls

7-09-22 - 7:00 AM  
 Trip for bit @ 3894'

7-10-22- 7:00 AM  
 drlg @ 4201'

7-11-22 - 7:00 AM  
 4402' TOH w/ DST 1

7-12-22 - 7:00 AM  
 drlg at @ 4476'  
 TD 4740' at 3PM

Sh - blk

LS - tan-gr, dense

Sh - gr-blk

LS - gr-tan, dense

Heebner Sh.  
 3499 (-1777)

Sh - blk carb

LS - gr, dense

Sh - lt gr

LS - tan-gr, dense

Sh - gr

LS - tan-brn-gr, fn xtl, dense

Sh - gr

Sh - gr, w/ scat SS - lt gr, fn grn,  
 mod sort, slt micaceous, silty in  
 part

SS - lt gr-wht, fn grained, mod  
 sort, micaceous, p-f int granular  
 por, some tightly cemented

SS - lt gr, fn grained, mod sort

SS - lt gr, fn grained, mod sort,  
micaceous, silty to tightly cem

Geologist on Location  
7:30 PM 7-08-22

SS - lt gr, fn grained, mod-well  
sort, micaceous, gd int gran por

50

SS - lt gr, fn grained, well sort,  
micaceous, gd por

LS - tan-wht-gr, dense

3700

SS - lt gr, fn grained, well sort,  
micaceous, gd por

Lansing.  
3718 (-1996)

LS - tan-gr, fn xtl, dense

LS - tan-lt gr, fn xtl, dense

50

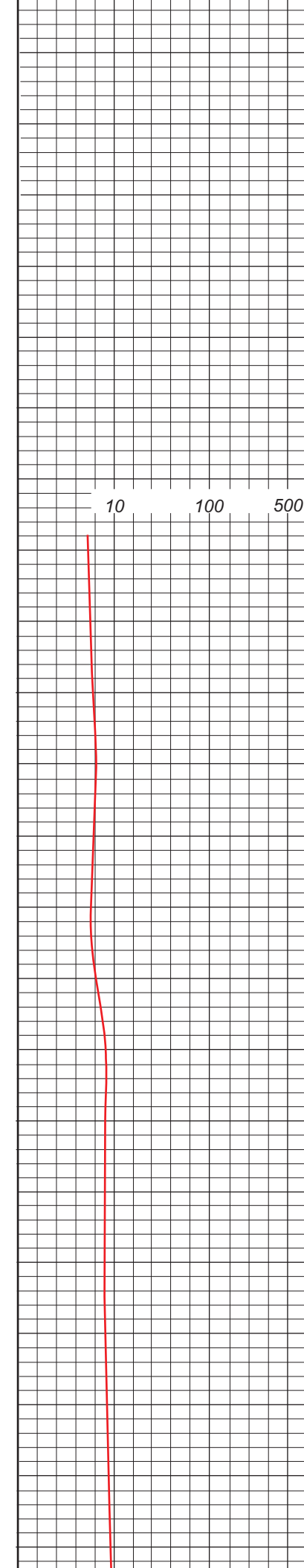
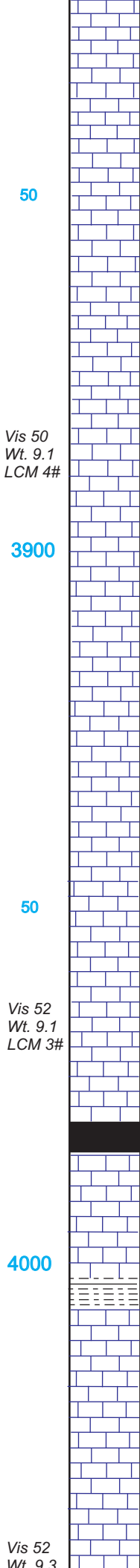
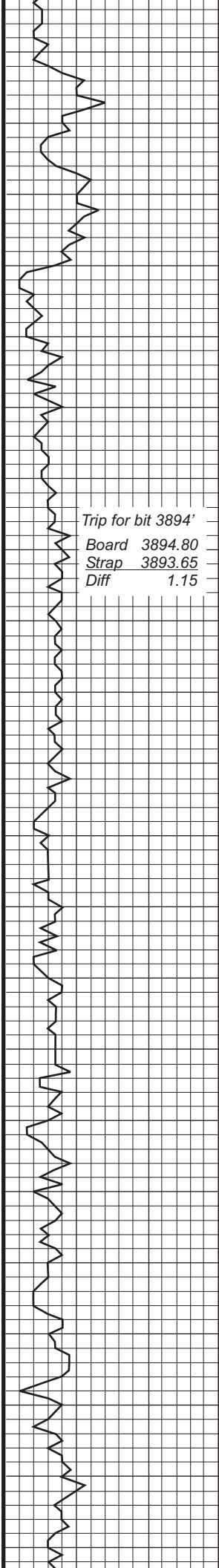
LS - tan-gr, fn xtl, dense

Vis 52  
Wt. 9.4  
LCM 4#

LS - gr-tan, dense

3800

LS - lt gr-tan, dense



LS - lt gr, dense

LS - lt gr-wht, dense to slt chalky

50

Vis 50  
Wt. 9.1  
LCM 4#

3900

10 100 500

LS - gr, fn xtl, dense

LS - gr-tan, fn xtl, dense

50

LS - gr-tan, fn xtl, dense

Vis 52  
Wt. 9.1  
LCM 3#

Sh - gr-blk

LS - tan-gr, fn xtl, poor vug  
por, dense, scat gr vitreous  
chert

4000

Sh - gr-blk

LS - gr-tan-wht, fn xtl, dense  
scat poor vug por, slt chalky

LS - gr-tan, dense

Vis 52  
Wt 9.3

Wt. 9.4  
LCM 4#

50

LS - gr-tan, fn xtln, dense

LS - lt-dk gr-tan-wht, fn xtln,  
dense, scat chalk, interbedded  
gr and blk shale

LS - gr-tan, dense and sh - gr-blk

4100

Stark Sh.  
4108 (-2386)

Sh - blk carb

LS - gr-tan-wht, fn xtln, dense  
to slt chalky, no vis por, no show

LS - dk gr-tan, fn xtln, dense

Sh - blk carb

LS - gr-tan, fn xtln, dense

50

LS - dk gr-brn, oolitic w/ f-gd  
oomoldic por, no show

CFS

LS - gr-tan, fn xtln, dense

LS - gr-tan-brn, dense

LS - dk gr, fn xtln, dense

4200

Sh - gr-blk

LS - gr-tan, dense

Sh - gr-blk, some brown

LS - tan-wht, fn xtln, dense

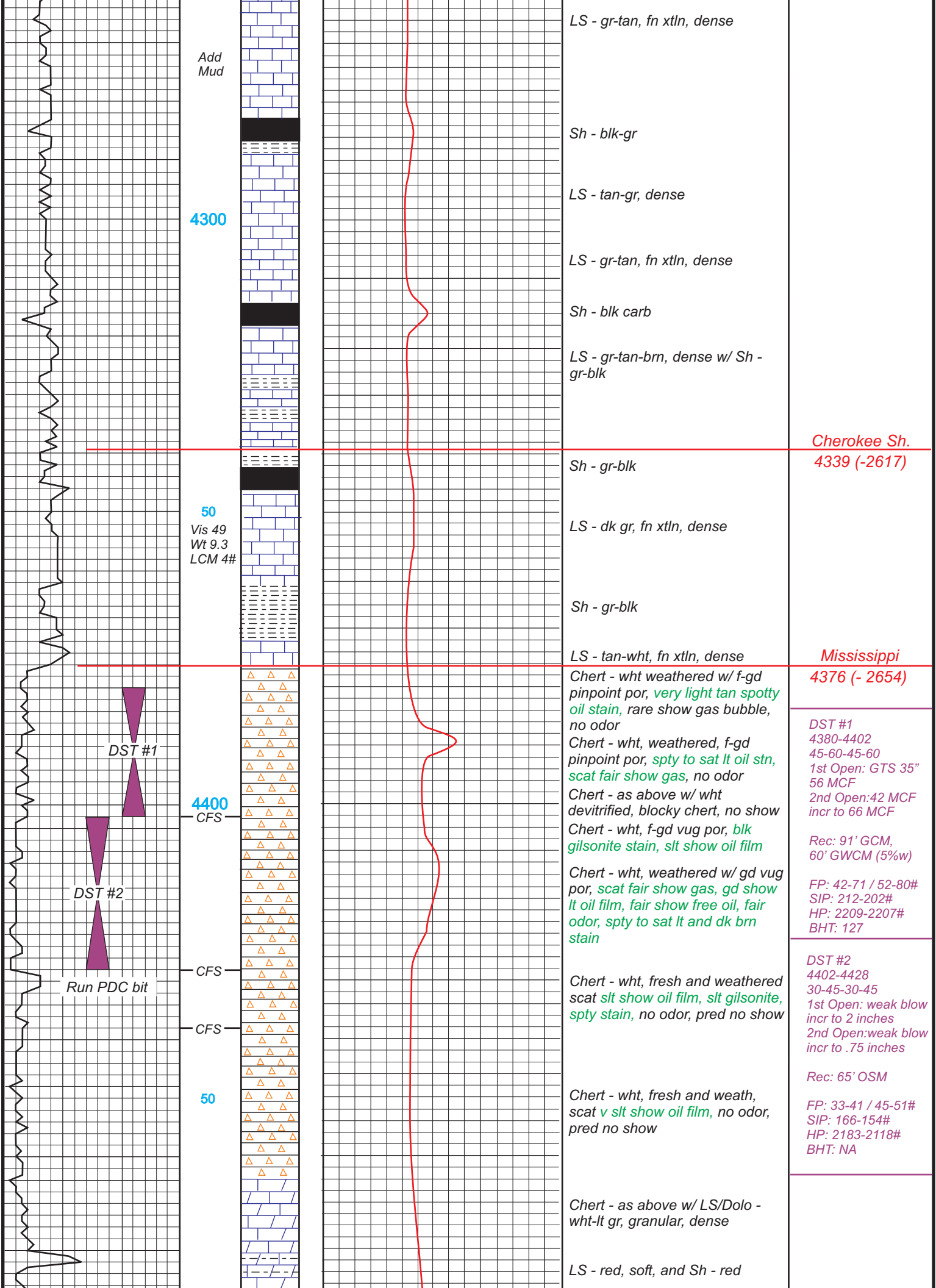
Vis 51  
Wt. 9.4  
LCM 4#  
Filt 10.0

Sh - blk,gr

50

LS - gr, dense and Sh - gr





LS - gr-tan, fn xtl, dense

Sh - blk-gr

LS - tan-gr, dense

LS - gr-tan, fn xtl, dense

Sh - blk carb

LS - gr-tan-brn, dense w/ Sh - gr-blk

**Cherokee Sh.**  
4339 (-2617)

Sh - gr-blk

LS - dk gr, fn xtl, dense

Sh - gr-blk

LS - tan-wht, fn xtl, dense

**Mississippi**  
4376 (- 2654)

Chert - wht weathered w/ f-gd pinpoint por, *very light tan spotty oil stain*, rare show gas bubble, no odor

Chert - wht, weathered, f-gd pinpoint por, *spty to sat lt oil stn, scat fair show gas*, no odor

Chert - as above w/ wht devitrified, blocky chert, no show  
Chert - wht, f-gd vug por, *blk gilsonite stain, slt show oil film*

Chert - wht, weathered w/ gd vug por, *scat fair show gas, gd show lt oil film, fair show free oil, fair odor, spty to sat lt and dk brn stain*

DST #1  
4380-4402  
45-60-45-60  
1st Open: GTS 35"  
56 MCF  
2nd Open: 42 MCF  
incr to 66 MCF

Rec: 91' GCM,  
60' GWCM (5%w)

FP: 42-71 / 52-80#  
SIP: 212-202#  
HP: 2209-2207#  
BHT: 127

Chert - wht, fresh and weathered scat *slt show oil film, slt gilsonite, spty stain*, no odor, pred no show

DST #2  
4402-4428  
30-45-30-45  
1st Open: weak blow  
incr to 2 inches  
2nd Open: weak blow  
incr to .75 inches

Rec: 65' OSM

Chert - wht, fresh and weath, scat *v slt show oil film*, no odor, pred no show

FP: 33-41 / 45-51#  
SIP: 166-154#  
HP: 2183-2118#  
BHT: NA

Chert - as above w/ LS/Dolo - wht-lt gr, granular, dense

LS - red, soft, and Sh - red

Add Mud

4300

50

Vis 49  
Wt 9.3  
LCM 4#

4400  
CFS

CFS

CFS

50

DST #1

DST #2

Run PDC bit

4500

Vis 53  
Wt 9.3+  
LCM 4#  
Filt 8.8

50

4600

50

4700

Gas Detector Quit

LS/Dolo - lt gr-wht, fn xtltn to granular, dense, scat gr-wht vitreous chert w/ Sh as above

LS - lt gr-wht, fn xtltn and gran, scat wht-clear vitreous chert

LS - gr-wht, fn xtltn, granular, scat vitreous chert

Kinderhook Sh.  
4546 (-2834)

Sh - gr-blk-brn

Sh - gr-blk

Sh - gr-blk

Chattanooga Sh.  
4632 (-2910)

Sh - blk-gr

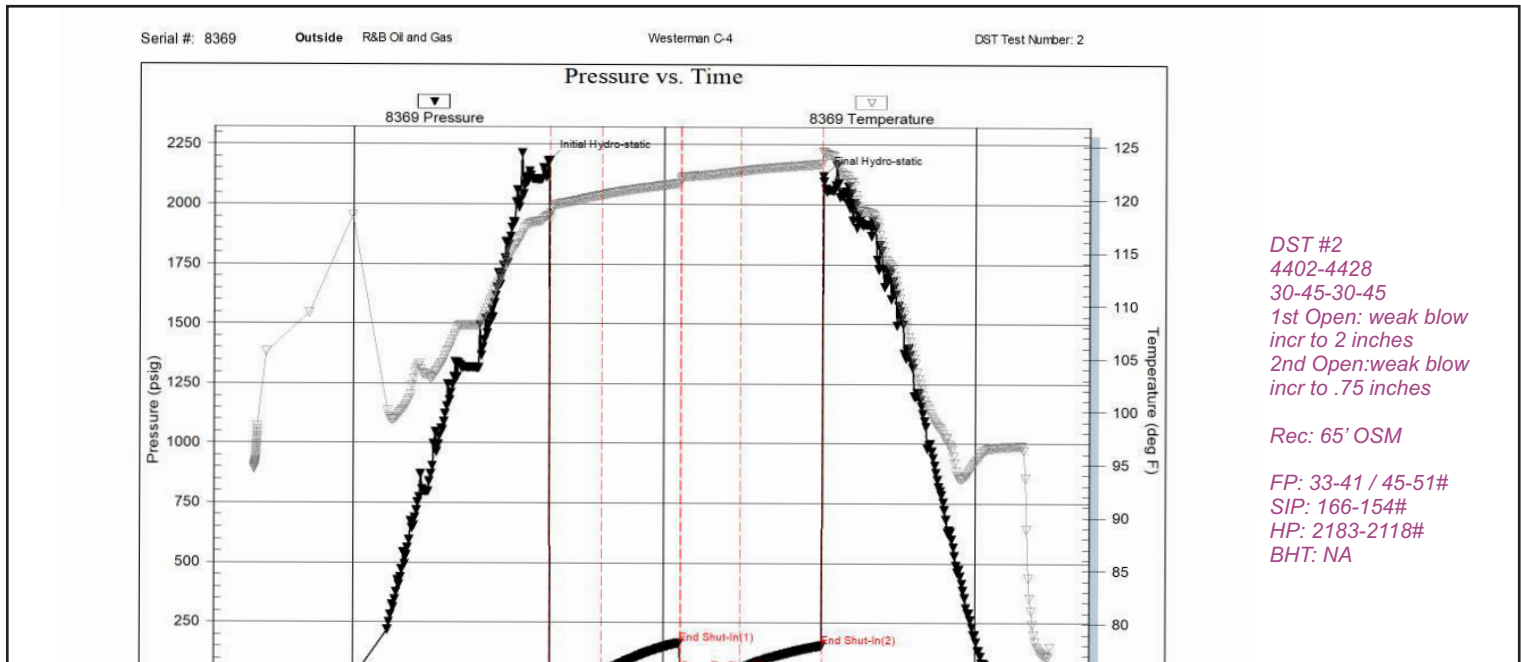
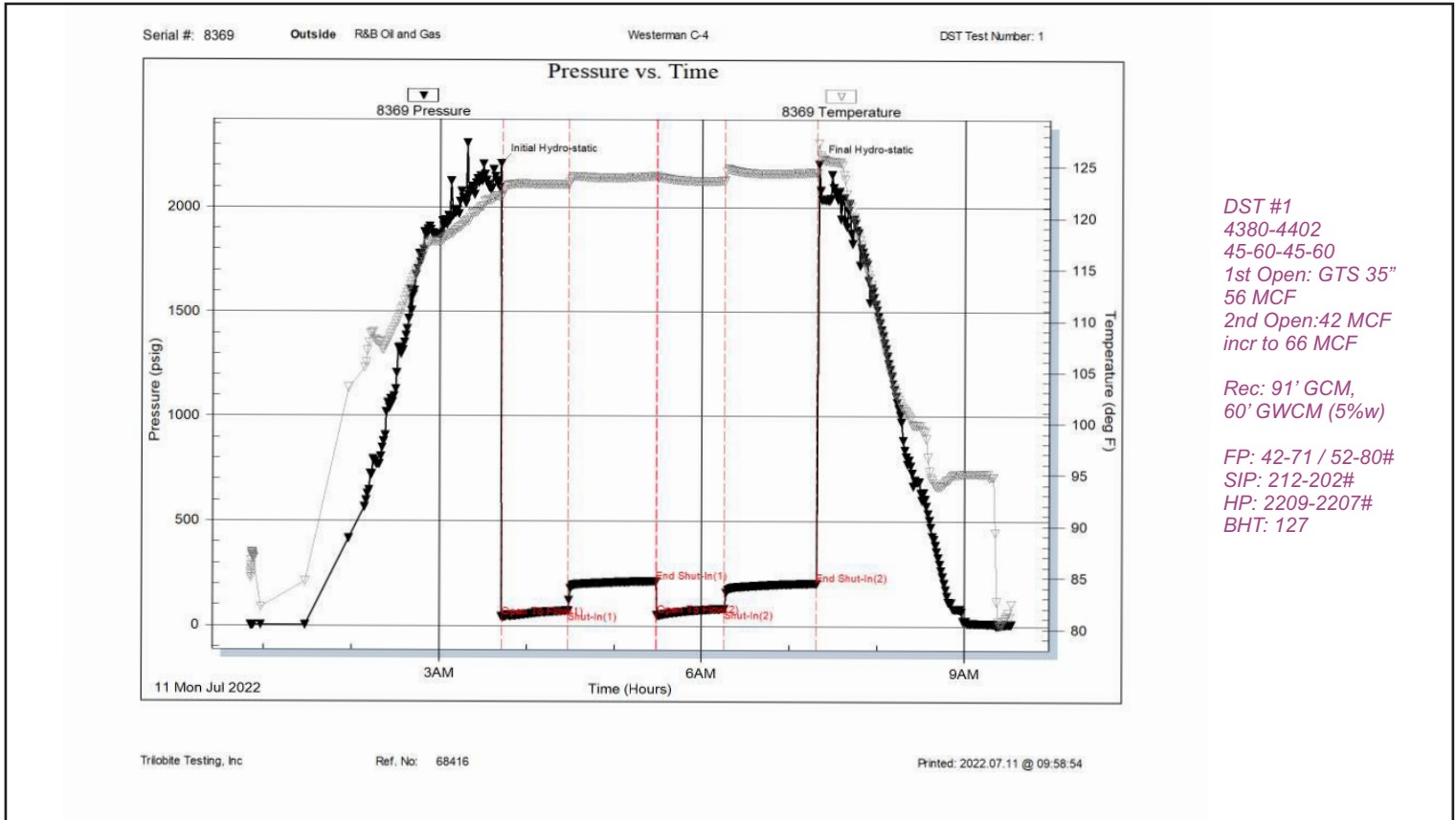
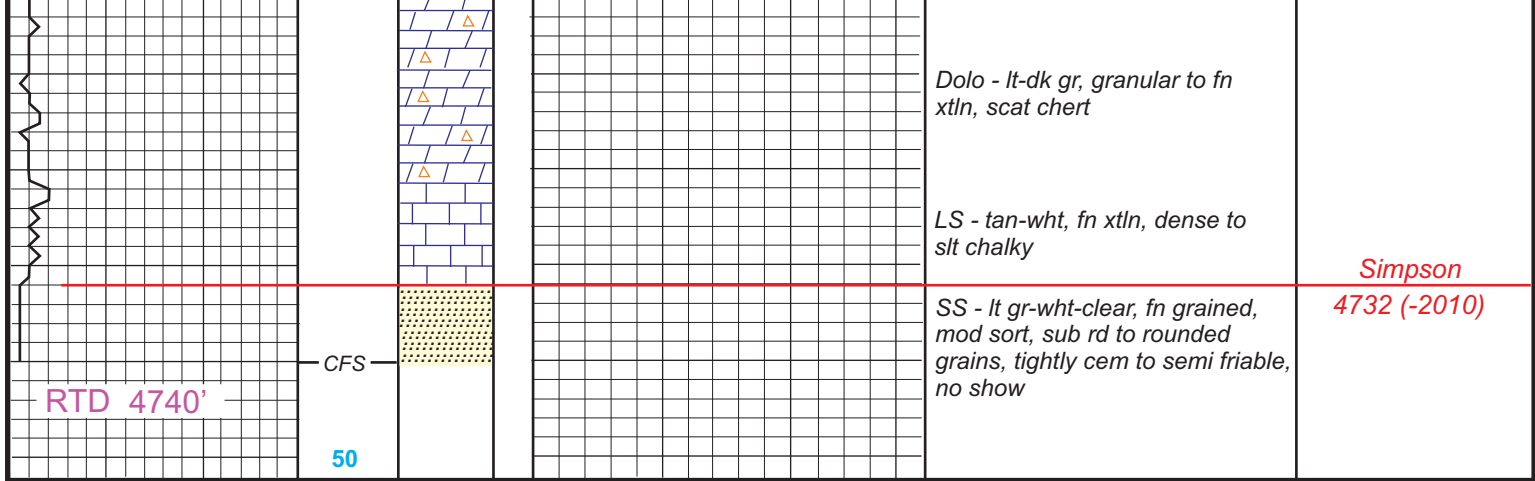
Sh - gr-blk

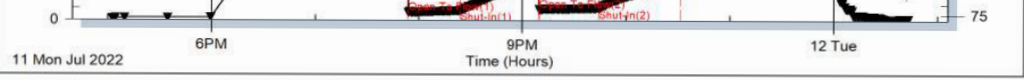
Viola  
4667 (-2945)

Dolo - lt tan-lt gr, fn xtltn to gran, scat fair int xtltn por, and Chert - wht, fresh to slt weath, no show

CFS

Dolo - tan-lt gr, fn xtltn and gran, w/ Chert - wht fresh to slt weath









**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

R&B Oil and Gas  
124 N Main Po Box 195  
Attica Ks 67009  
ATTN: Tim Pierce

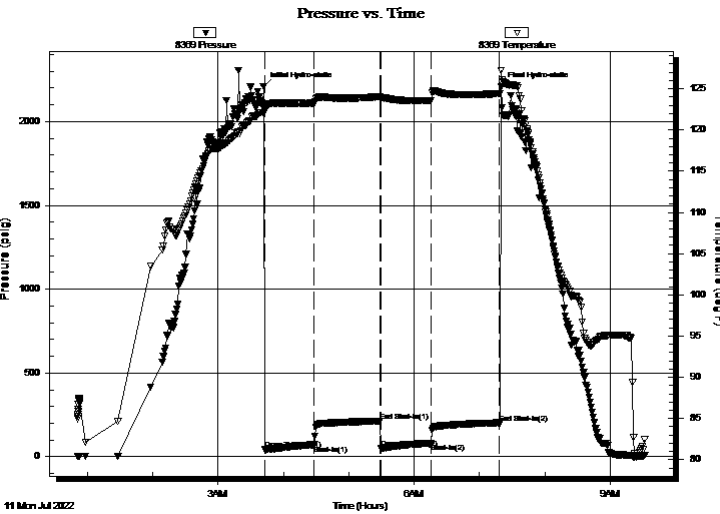
**19-30S-9W Kingman Co**  
**Westerman C-4**  
Job Ticket: 68416      **DST#: 1**  
Test Start: 2022.07.11 @ 00:50:58

## GENERAL INFORMATION:

Formation: **Mississippian**  
Deviated: No Whipstock:                      ft (KB)  
Time Tool Opened: 03:42:38  
Time Test Ended: 09:32:08  
Interval: **4380.00 ft (KB) To 4402.00 ft (KB) (TVD)**  
Total Depth: 4402.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches Hole Condition: Fair  
Test Type: Conventional Bottom Hole (Initial)  
Tester: Eric Burgess  
Unit No: 80  
Reference Elevations: 1722.00 ft (KB)  
1710.00 ft (CF)  
KB to GR/CF: 12.00 ft

**Serial #: 8369      Outside**  
Press@RunDepth: 80.32 psig @ 4381.00 ft (KB)      Capacity: 8000.00 psig  
Start Date: 2022.07.11      End Date: 2022.07.11      Last Calib.: 1899.12.30  
Start Time: 00:50:59      End Time: 09:32:08      Time On Btm: 2022.07.11 @ 03:41:38  
Time Off Btm: 2022.07.11 @ 07:19:37

TEST COMMENT: IF:Strong Building Blow built 660.34" (45)  
IS:No Blow Back (60)  
FF:Strong Building Blow built 759.96" (45)  
FS:No Blow Back (60)



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2209.32	122.11	Initial Hydro-static
1	42.03	122.18	Open To Flow (1)
47	71.07	123.24	Shut-In(1)
108	212.39	124.04	End Shut-In(1)
108	51.57	123.82	Open To Flow (2)
154	80.32	123.59	Shut-In(2)
217	202.26	124.42	End Shut-In(2)
218	2206.51	127.22	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
60.00	GWCM 20%G 5%W 75%M	0.30
91.50	GWCM 10%G 90%M	0.77

## Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.25	21.68	57.24
Last Gas Rate	0.25	26.78	65.33
Max. Gas Rate	0.25	26.78	65.33





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

R&B Oil and Gas

**19-30S-9W Kingman Co**

124 N Main Po Box 195  
Attica Ks 67009

**Westerman C-4**

Job Ticket: 68416

**DST#: 1**

ATTN: Tim Pierce

Test Start: 2022.07.11 @ 00:50:58

### 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: 51.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.99 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5000.00 ppm

Filter Cake: 0.20 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	GWCM 20%G 5%W 75%M	0.295
91.50	GWCM 10%G 90%M	0.765

Total Length: 151.50 ft

Total Volume: 1.060 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**GAS RATES**

R&B Oil and Gas

**19-30S-9W Kingman Co**

124 N Main Po Box 195  
Attica Ks 67009

**Westerman C-4**

Job Ticket: 68416

**DST#: 1**

ATTN: Tim Pierce

Test Start: 2022.07.11 @ 00:50:58

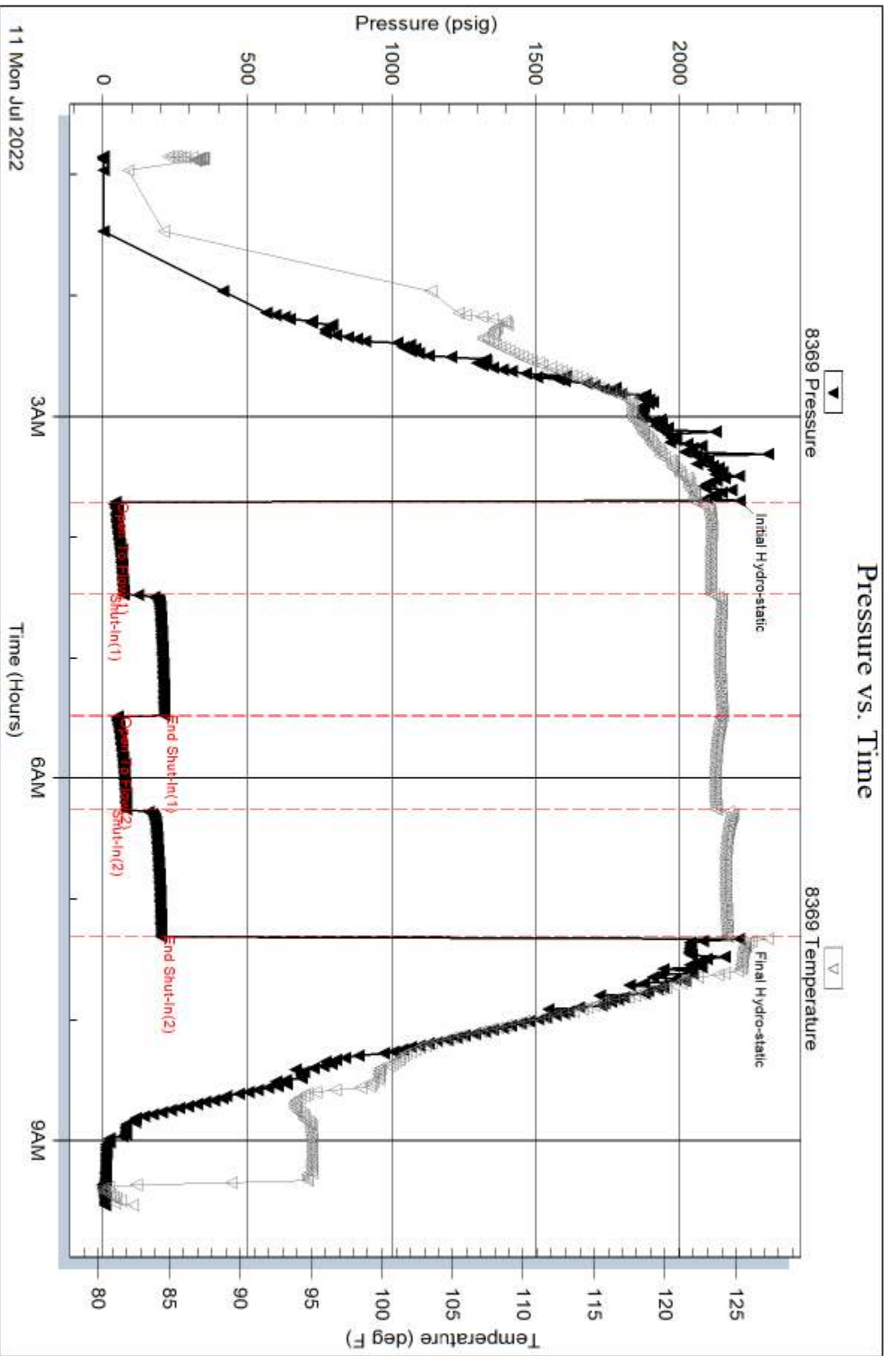
### Gas Rates Information

Temperature: 59 (deg F)  
Relative Density: 0.65  
Z Factor: 0.8

Gas Rates Table

Flow Period	Elapsed Time	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
1	35	0.25	21.68	57.24
1	35	0.25	21.68	57.24
1	45	0.25	23.97	60.87
2	10	0.25	14.54	45.91
2	20	0.25	20.40	55.21
2	30	0.25	24.28	61.36
2	40	0.25	26.78	65.33





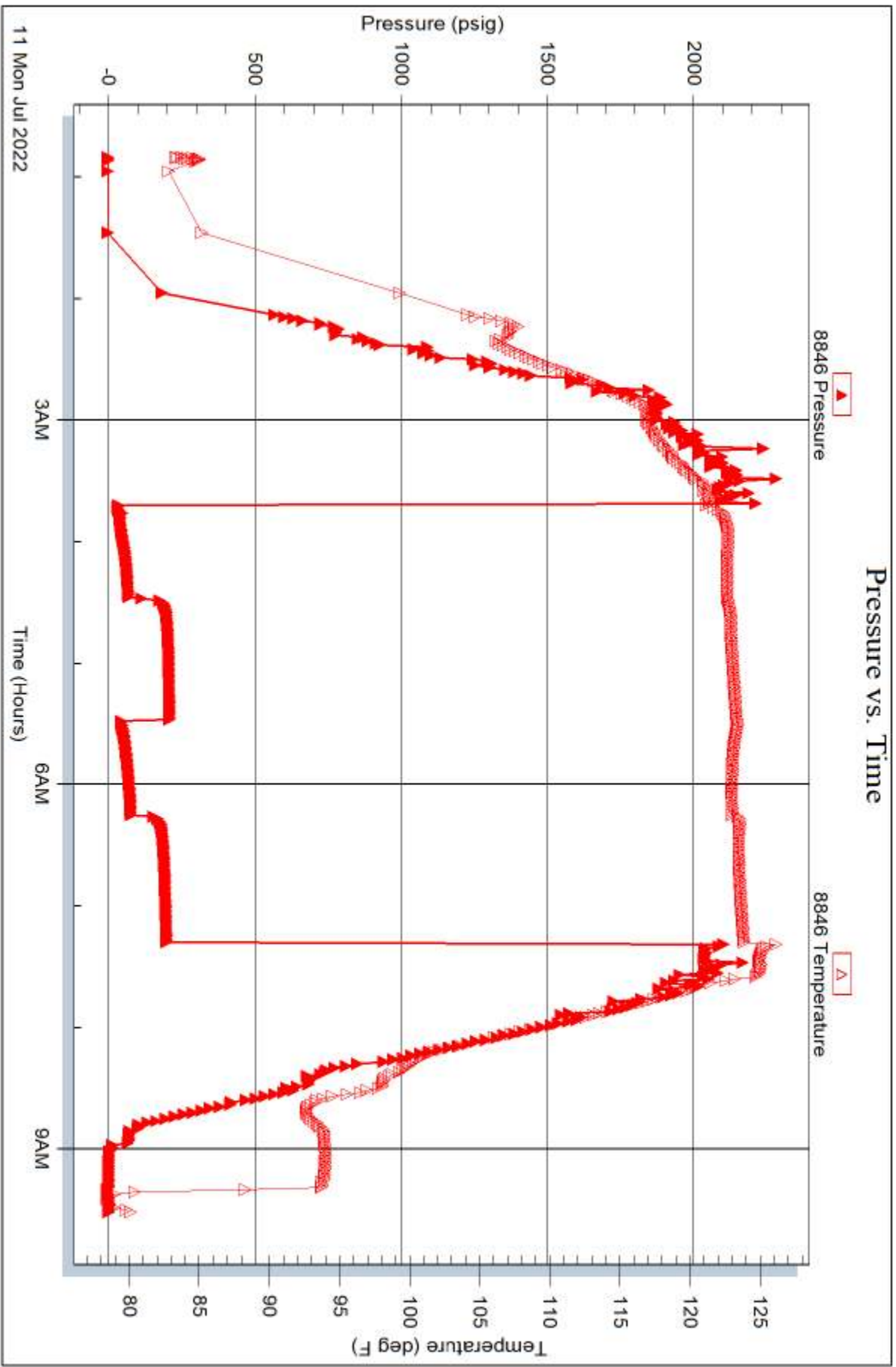
Serial #: 8846

Inside

R&B Oil and Gas

Westernman C-4

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 68416

Printed: 2022.07.11 @ 11:11:17



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

R&B Oil and Gas  
124 N Main Po Box 195  
Attica Ks 67009  
ATTN: Tim Pierce

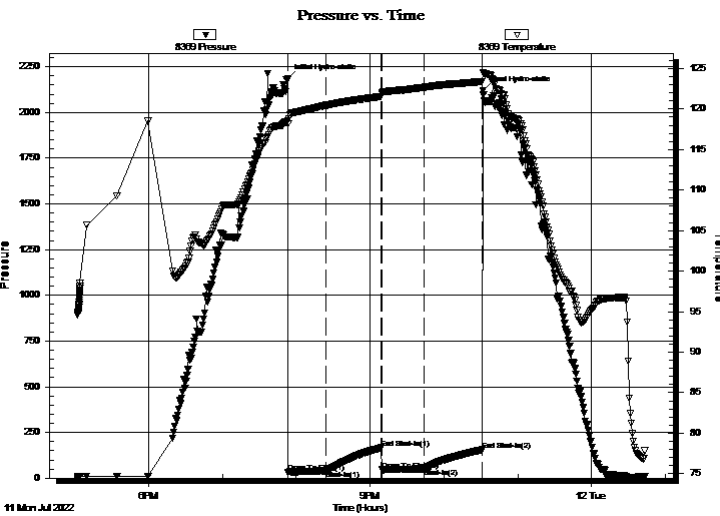
**19-30S-9W Kingman Co**  
**Westerman C-4**  
Job Ticket: 68417      **DST#: 2**  
Test Start: 2022.07.11 @ 17:02:29

## GENERAL INFORMATION:

Formation: **Miss**  
Deviated: No Whipstock:                      ft (KB)  
Time Tool Opened: 19:53:29  
Time Test Ended: 00:43:29  
Interval: **4402.00 ft (KB) To 4428.00 ft (KB) (TVD)**  
Total Depth: 4428.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches Hole Condition: Fair  
Reference Elevations: 1722.00 ft (KB)  
1710.00 ft (CF)  
KB to GR/CF: 12.00 ft  
Test Type: Conventional Bottom Hole (Reset)  
Tester: Eric Burgess  
Unit No: 80

**Serial #: 8369      Outside**  
Press@RunDepth: 51.46 psig @ 4403.00 ft (KB)      Capacity: 8000.00 psig  
Start Date: 2022.07.11      End Date: 2022.07.12      Last Calib.: 1899.12.30  
Start Time: 17:02:30      End Time: 00:43:29      Time On Btm: 2022.07.11 @ 19:52:59  
Time Off Btm: 2022.07.11 @ 22:31:49

**TEST COMMENT:** IF:Fair Building Blow built 2" in bucket (30)  
IS:No Blow Back (45)  
FF:Weak Building Blow built .75" in bucket (30)  
FS:No Blow Back (45)



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2182.97	118.53	Initial Hydro-static
1	32.74	118.18	Open To Flow (1)
31	40.75	120.43	Shut-In(1)
77	165.82	121.56	End Shut-In(1)
77	44.68	122.02	Open To Flow (2)
112	51.46	122.68	Shut-In(2)
159	154.48	123.38	End Shut-In(2)
159	2118.48	124.51	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
65.00	OSM 100%M	0.32

\* Recovery from multiple tests

## Gas Rates

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



# DRILL STEM TEST REPORT

R&B Oil and Gas  
 124 N Main Po Box 195  
 Attica Ks 67009  
 ATTN: Tim Pierce

**19-30S-9W Kingman Co**  
**Westerman C-4**  
 Job Ticket: 68417 **DST#: 2**  
 Test Start: 2022.07.11 @ 17:02:29

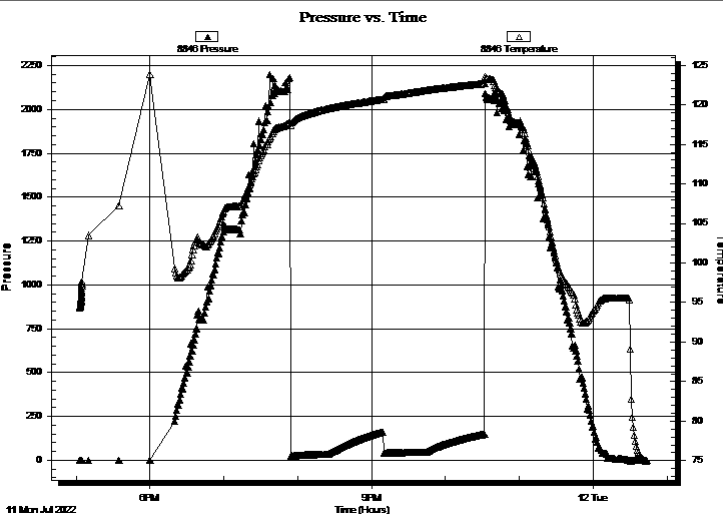
## GENERAL INFORMATION:

Formation: <b>Miss</b>		Test Type: Conventional Bottom Hole (Reset)
Deviated: No Whipstock: ft (KB)		Tester: Eric Burgess
Time Tool Opened: 19:53:29		Unit No: 80
Time Test Ended: 00:43:29		Reference Elevations: 1722.00 ft (KB)
<b>Interval: 4402.00 ft (KB) To 4428.00 ft (KB) (TVD)</b>		1710.00 ft (CF)
Total Depth: 4428.00 ft (KB) (TVD)		KB to GR/CF: 12.00 ft
Hole Diameter: 7.88 inches	Hole Condition: Fair	

## Serial #: 8846 Inside

Press@RunDepth: psig @ 4403.00 ft (KB)	Capacity: 8000.00 psig
Start Date: 2022.07.11	End Date: 2022.07.12
Start Time: 17:02:54	End Time: 00:43:53
	Last Calib.: 2022.07.12
	Time On Btm:
	Time Off Btm:

**TEST COMMENT:** IF:Fair Building Blow built 2" in bucket (30)  
 IS:No Blow Back (45)  
 FF:Weak Building Blow built .75" in bucket (30)  
 FS:No Blow Back (45)



## PRESSURE SUMMARY

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

## Recovery

Length (ft)	Description	Volume (bbl)
65.00	OSM 100%M	0.32

\* Recovery from multiple tests

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

R&B Oil and Gas

**19-30S-9W Kingman Co**

124 N Main Po Box 195  
Attica Ks 67009

**Westerman C-4**

Job Ticket: 68417

**DST#: 2**

ATTN: Tim Pierce

Test Start: 2022.07.11 @ 17:02:29

## 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: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.99 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5000.00 ppm

Filter Cake: 0.20 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
65.00	OSM 100%M	0.320

Total Length: 65.00 ft      Total Volume: 0.320 bbl

Num Fluid Samples: 0

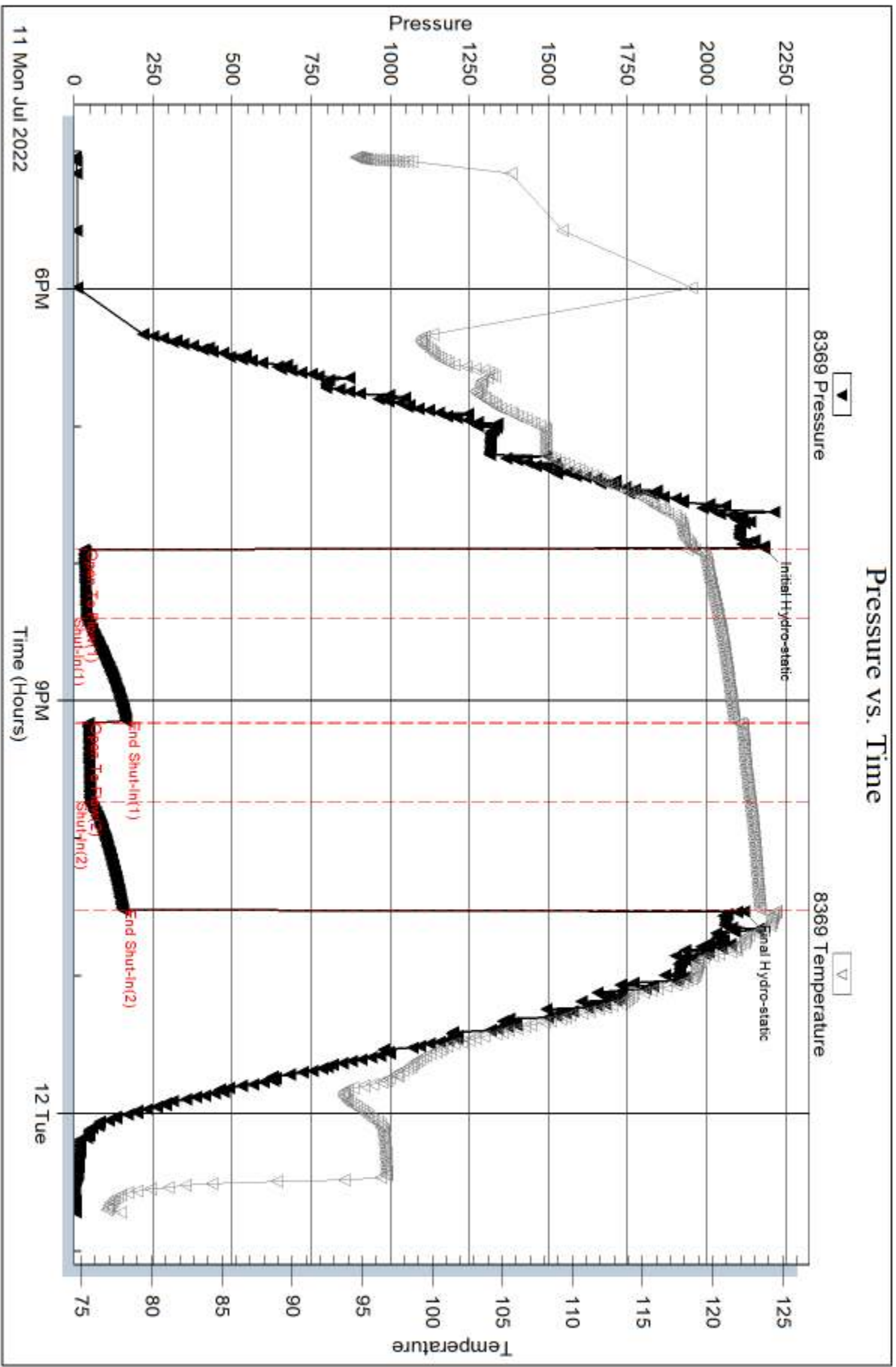
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





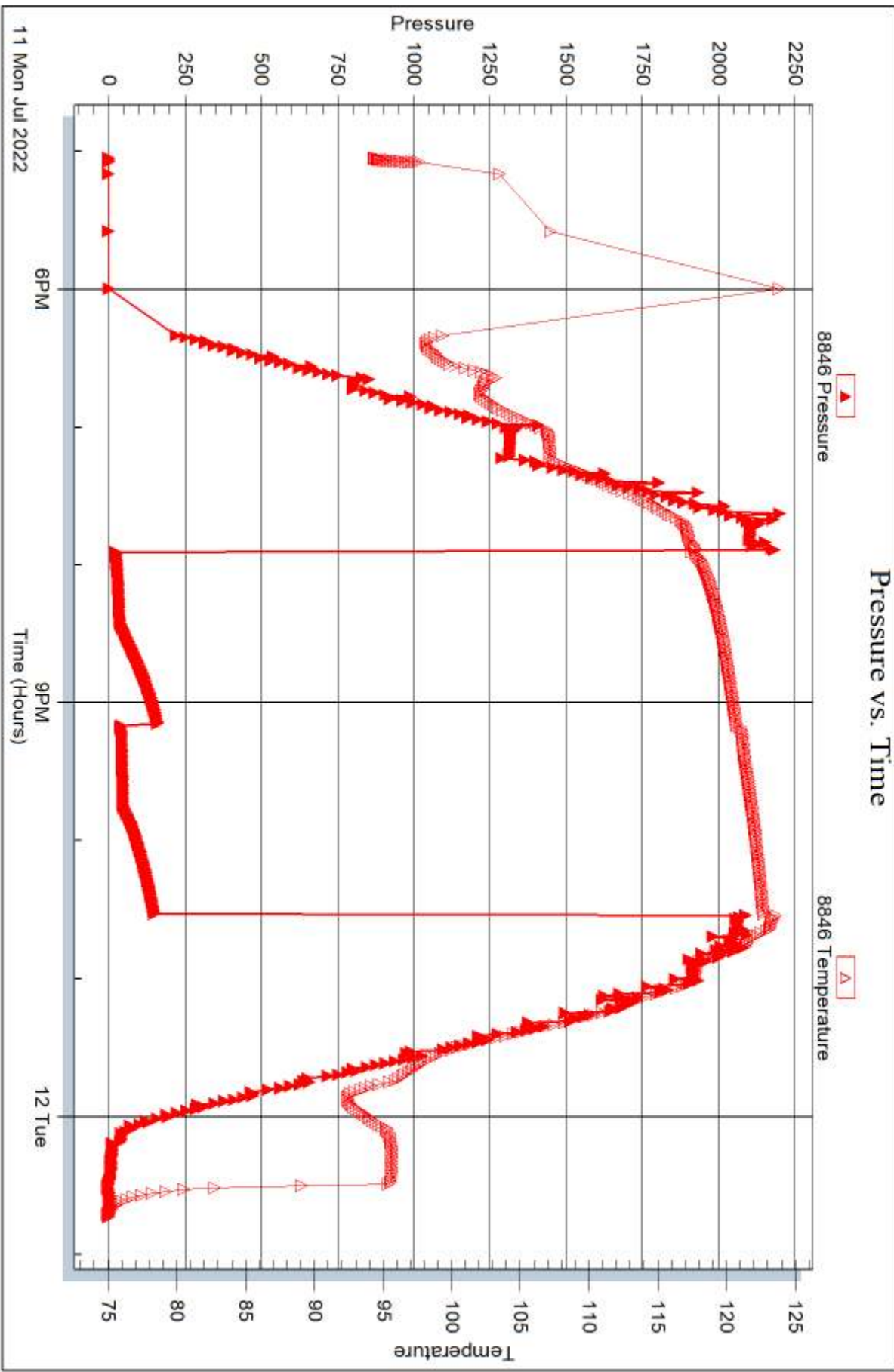
Serial #: 8846

Inside

R&B Oil and Gas

Westernman C-4

DST Test Number: 2



Triobite Testing, Inc

Ref. No: 68417

Printed: 2022.07.12 @ 07:13:35