

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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CEMENT TREATMENT REPORT

Customer: PICKRELL DRILLING COMPANY INC
 City, State: MT VERNON KS
 Field Rep: DAVE HOMMERZTIEN

Well: YOUNG"RR"
 County: KINGMAN KS
 S-T-R: 34-27S-05W

Ticket: WP1236
 Date: 3/24/2021
 Service: 5.5 LONGSTRING

Downhole Information	
Hole Size:	in
Hole Depth:	3915 ft
Casing Size:	in
Casing Depth:	3898.33 ft
Tubing / Liner:	in
Depth:	ft
Tool / Packer:	
Tool Depth:	ft
Displacement:	93.3 bbls

Calculated Slurry - Lead	
Blend:	H-PLUG
Weight:	13.8 ppg
Water / Sx:	6.9 gal / sx
Yield:	1.43 ft ³ / sx
Annular Bbls / Ft.:	bbs / ft.
Depth:	ft
Annular Volume:	0.0 bbls
Excess:	
Total Slurry:	11.0 bbls
Total Sacks:	55 sx

Calculated Slurry - Tail	
Blend:	H-LONG
Weight:	15 ppg
Water / Sx:	6.0 gal / sx
Yield:	1.42 ft ³ / sx
Annular Bbls / Ft.:	bbs / ft.
Depth:	ft
Annular Volume:	0 bbls
Excess:	
Total Slurry:	44.0 bbls
Total Sacks:	175 sx

TIME	RATE	PSI	STAGE BBLs	TOTAL BBLs	REMARKS
9:20 AM			-	-	ON LOCATION, SAFTEY MEETING
12:15 PM				-	RUN 5 1 1/2 INCH CASING, 31.84 SHOE JOINT, TURBOS ON 1,3,5,7,9,16,17 BASKET ON #5
4:30 PM				-	CASING ON BOTTOM
4:40 PM				-	HOOK TO CASING, CIRCULATE WITH RIG
5:48 PM	3.0	50.0	7.0	7.0	MIX 30 SACKS TO PLUG RAT HOLE
5:54 PM	5.5	400.0	5.0	12.0	MIX 25 SACKS H-PLUG AS SCAVENGER
5:57 PM	4.5	350.0	44.0	56.0	MIX 175 SACKS H-LONG
6:07 PM	3.0	50.0	4.0	60.0	WASH PUMP AND LINE, DROP PLUG
6:15 PM	6.0	300.0		60.0	START 2% KCL DISPLACEMENT
6:25 PM	6.0	380.0	60.0	120.0	LIFT PRESSURE
6:29 PM	3.5	450.0	83.0	203.0	SLOW RATE
6:33 PM		1,500.0	93.3	296.3	PLUG DOWN, RELEASED AND HELD
					CIRCULATION THROUGH JOB
				-	
				-	JOB COMPLETE, THANK YOU!
				-	MIKE MATTAL
				-	KEVEN & GARRETT
				-	
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				-	
				-	

Prod casing

CREW		UNIT	SUMMARY		
Cementer:	MATTAL	912	Average Rate	Average Pressure	Total Fluid
Pump Operator:	MCELMORE	179/521	4.5 bpm	435 psi	296 bbls
Bulk #1:	LESLEY	527/533			
Bulk #2:					

Quality Well Service, Inc.

PO Box 468
Pratt, KS 67124

Invoice

Date	Invoice #
3/15/2021	C-2555

Bill To
Pickrell Drilling Company, Inc. 100 South Main, Suite 505 Wichita, KS 67202-3738

P.O. No.	Terms	Lease Name
		Young RR 2

Description	Qty	Rate	Amount
Common	225	15.50	3,487.50
Gel	470	0.22	103.40
Calcium	705	1.20	846.00
Flo-Seal	125	3.70	462.50
SFC 0-500'	1	600.00	600.00
Handling	269	2.10	564.90
.08 * sacks * miles	7,000	0.08	560.00
Service Supervisor	1	150.00	150.00
LMV	50	3.75	187.50
Heavy Equipment Mileage	100	8.00	800.00
Customer Discount		-3,104.72	-3,104.72
Discount Expires after 30 days from the date of the invoice		0.00	0.00
Young RR 2 Kingman Co			

738 000 III #2

*Cement
Surface (50)*

Thank You for your business!	Subtotal	\$4,657.08
	Sales Tax (8.0%)	\$0.00
	Total	\$4,657.08

[Signature]

Geologic Report
Aaron L. Young

Drilling Time and Sample Log

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

Well Name: Young "RR" #2
API: 15-095-22339
Location: Section 34 - T27S - R5W
License Number: 5123
Spud Date: 03 / 11 / 2021
Surface Coordinates: 1465' FSL and 335' FEL
Approx. SW - SE - NE - SE
Region: Kingman Co., KS
Drilling Completed: 03 / 23 / 2021
Bottom Hole Coordinates:
Ground Elevation (ft): 1436' K.B. Elevation (ft): 1443'
Logged Interval (ft): 2900' To: 3915' Total Depth (ft): 3915'
Formation: Mississippian
Type of Drilling Fluid: Chemical - Mud-Co

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

OPERATOR

Company: Pickrell Drilling Company, Inc.
Address: 100 S Main, Ste 505
Wichita, KS 67202

GEOLOGIST

Name: Aaron L. Young, M. S.
Company: Pickrell Drilling Company, Inc.
Address: 100 S Main Ste 505
Wichita, KS 67202

General Info

CONTRACTOR: Pickrell Drilling, Rig #10

BIT RECORD:

No.	Size	Make	Jets	Out	Feet	Hours
1	12-1/4	RR	15-15-15	224'	224'	3.25
2	7-7/8	JZ HA20TL	14-15-15	3915'	3691'	107.00

SURVEYS: 224'-.75, 3810'-Misrun, 3838'-Misrun

GENERAL DRILLING AND PUMP INFORMATION:

Drilling with 38,000 lbs. on bit and approx 70 RPM.
Running 7.5 stands of collars; 447.91'
Pumping 60 strokes/min @ approx 800-900 psi at standpipe.

Daily Status

3-10-21: MIRT.

3-11-21: Spud well @ 7:30 AM. Drilled 12 1/4" surface hole to 224'. SHT @ 224' = 3/4". Ran 224' 8 5/8" surface casing, set @ 223' (tally 214'). Cement w/ 225sx Common, 2%gel, 3%CC, 1/4# floseal/sx. PD @ 5:30 PM 3/11/21. Cement circulated. Quality ticket #7626.

3-12-21: Shut down until after rains – plan to start up on Tuesday 3-16-21.

3-16-21: Resume drilling @ 7:00 AM.

3-17-21: Drilling ahead @ 1092'.

3-18-21: TD 1645'. TBH after mud pump repairs.

3-19-21: Drilling ahead @ 2477'. Anhydrite 1134-1169'.

3-20-21: Drilling ahead @ 3020'.

3-21-21: Drilling ahead @ 3485'.

3-22-21: TD 3810'. TOOH for DST #1: 3759-3810 (Miss) 30"-60"-90"-90"

3-23-21: TD 3838'. TOOH W/DST #2. DST #2: 3810-3838 (Miss Dol) 30"-60"-90"-90". Prepare to run Elog.

3-24-21: RTD 3915'. LTD 3914'. LDDP to run production casing.

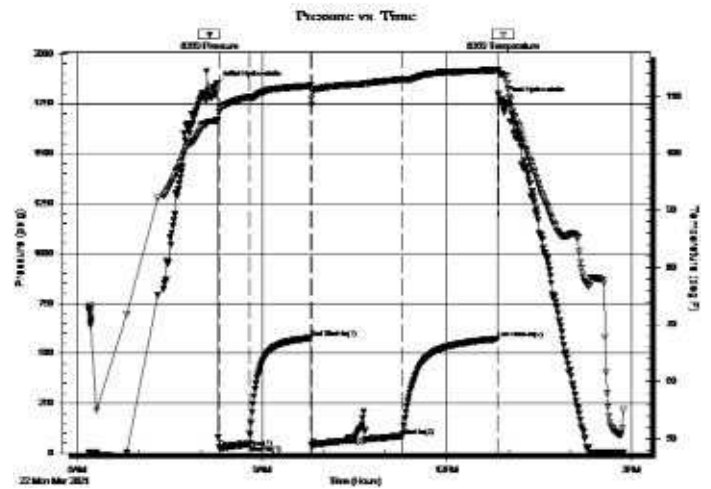
3-25-21: Ran 102jts of used T & D 5 1/2" 14# & 15.5# production casing. Set @ 3910'KB. Cement with 175sx H-Long, 25sx in RH. PD @ 6:33 PM w/1500psi on 3-24-21. RELEASE RIG @ 8:45PM.

DST #1 Mississippi
3759' - 3810'
30"-60"-90"-90"

IF: BOB in 90 sec, built to 260" of water
ISI: No blow back
FF: GTS in 89 min
FSI: No blow back

Rec'd: 120' Drilling Mud (100% M)

SIP: 576-572#
FP: 28-41#, 36-85#
HP: 1846-1769#



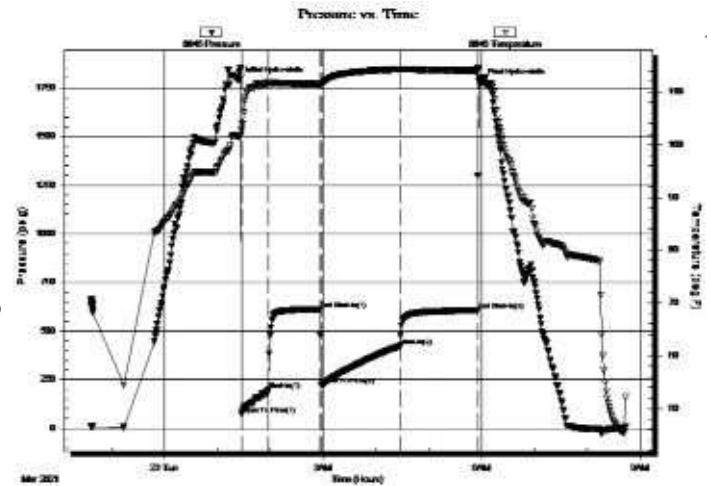
DST #2 Mississippi 3810' - 3838' 30"-60"-90"-90"

IF: BOB in 1 min, GTS in 29 min
ISI: 7" blow back
FF: GTS (see rates below)
FSI: Strong blow back

Rec'd: 220' SW (100% SW), 445' GVSO&MCW (2% G, 3% O, 80% W, 15% M), 230' GSO&WCM (14% G, 8% O, 15% W, 63% M)

GTS: Max Rate 31.73 mcf/d Last Rate 25.06 mcf/d

SIP: 612-606# FP: 72-198#, 222-424# HP: 1789-1778#



ROCK TYPES

	Anhy
	Bent
	Brec
	Cht
	Clyst
	Coal
	Congl
	Dol

	Gyp
	Igne
	Lmst
	Meta
	Mrlst
	Salt
	Shale
	Shcol

	Shgy
	Sltst
	Ss
	Till
	Carb sh
	Dol
	Dtd
	Gry sh

	Sandylms
	Shale
	Sltstn
	Shlyslts
	Sltlysh
	Lms

ACCESSORIES

MINERAL

	Anhy
	Arggrn
	Arg
	Bent
	Bit
	Brecfrag
	Calc
	Carb
	Chtdk
	Chtlt
	Dol
	Feldspar
	Ferrpel
	Ferr
	Glau
	Gyp
	Hvymin
	Kaol
	Marl
	Minxl
	Nodule
	Phos
	Pyr

	Salt
	Sandy
	Silt
	Sil
	Sulphur
	Tuff
	Chlorite
	Dol
	Sand
	Sltly

FOSSIL

	Algae
	Amph
	Belm
	Bioclst
	Brach
	Bryozoa
	Cephal
	Coral
	Crin
	Echin
	Fish
	Foram

	Fossil
	Gastro
	Oolite
	Ostra
	Pelec
	Pellet
	Pisolite
	Plant
	Strom
	Fuss
	Oomold

STRINGER

	Anhy
	Arg
	Bent
	Coal
	Dol
	Gyp
	Ls
	Mrst
	Sltstrg
	Ssstrg
	Carbsh

	Clystn
	Dol
	Grysh
	Gryslt
	Lms
	Sandylms
	Sh
	Sltstn

TEXTURE

	Boundst
	Chalky
	Cryxln
	Earthy
	Finexln
	Grainst
	Lithogr
	Microxln
	Mudst
	Packst
	Wackst

OTHER SYMBOLS

POROSITY TYPE

	Earthy
	Fenest
	Fracture
	Inter
	Moldic
	Organic
	Pinpoint
	Vuggy

SORTING

	Well
	Moderate
	Poor

ROUNDING

	Rounded
	Subrnd
	Subang
	Angular

OIL SHOWS

	Even
	Spotted
	Ques
	Dead
	Gas show

INTERVALS

	Core
	Dst

	Dst
--	-----

EVENTS

	Rft
	Sidewall
	Conn

Curve Track 1

ROP (min/ft)

GR



MD

Porosity

Lithology

Oil Shows

Geological Descriptions

New Track

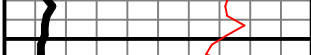
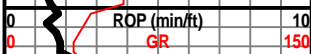
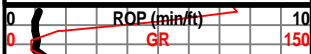
24%
18%
12%
6%

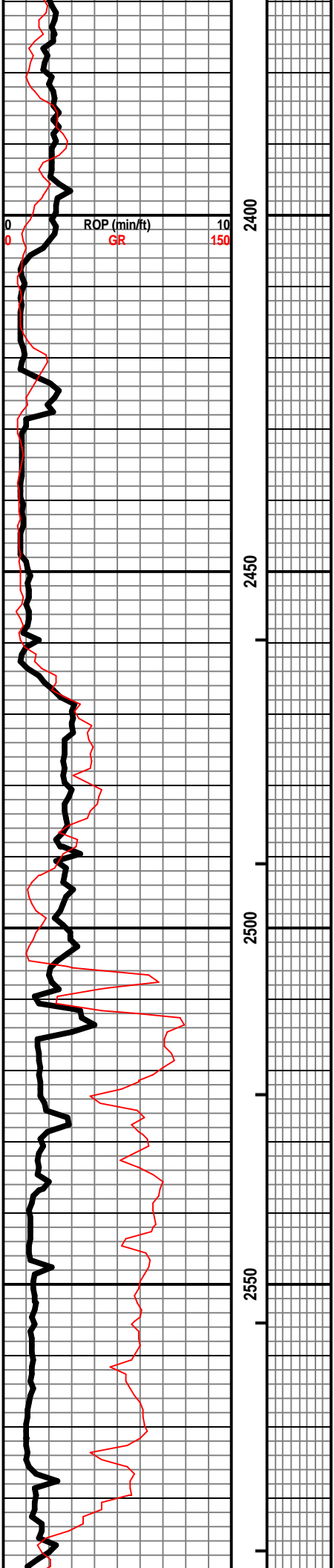
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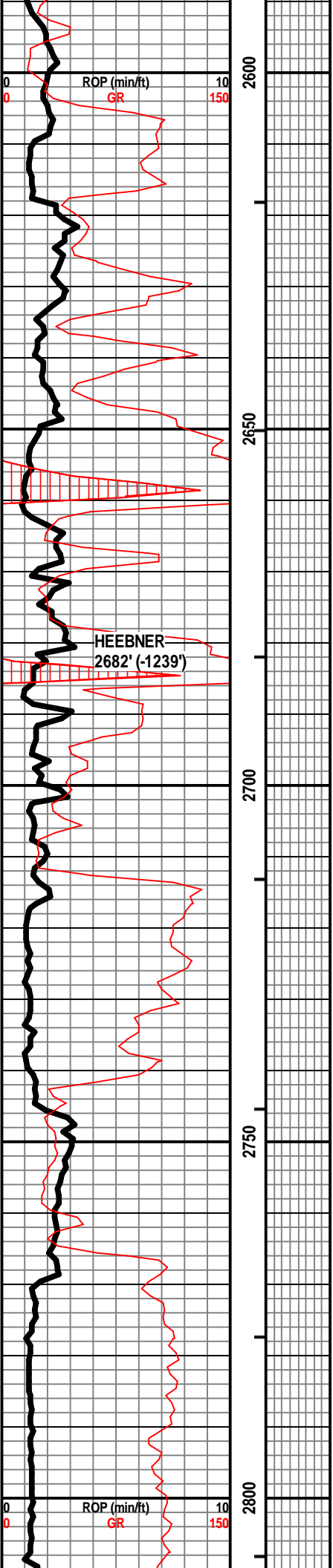
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2300

2350

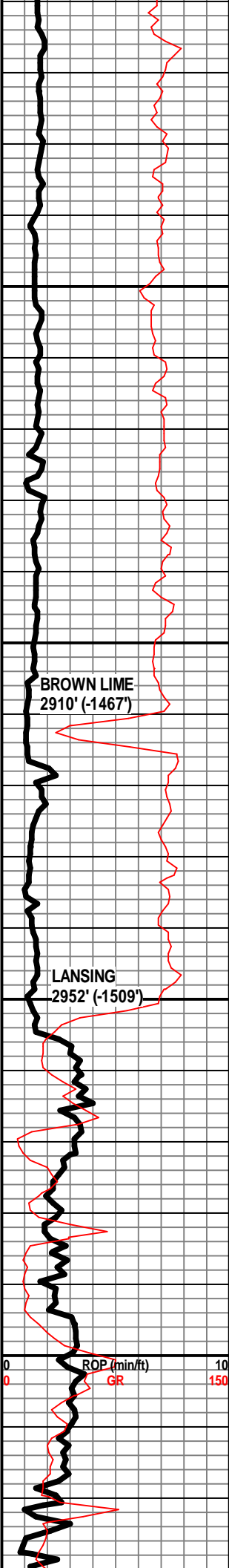






TOH FOR HOLE IN
PIPE

WT 9.3
VIS 28



2850
2900
2950
3000

ROP (min/ft)
0 10
0 150

GR

0 10
0 150

GR



SH - DK GY / GY / LT GY IN PT, SLTY IN PT

SH - DK GY / GY, SLTY IN PT, MOD DNS

SH - DK GY / GY, MOD DNS

LS - TAN / BRN / GY, F XLN, MOD DNS / DNS, W/
S - DK GY / GY, MOD DNS, V SLI SLTY IN PT

SH - LT GY / GY / DK GY, MOD DNS

LS - LT BRN / TAN / GY, F XLN, MOD DNS / DNS,
FOSS

LS - PRED CRM, GY / TAN IN PT, F / VF XLN,
MOD DNS / SUBCHKY, FOSS IN PT

LS - CRM / TAN / GY, F XLN, MOD DNS, FOSS

LS - TAN / GY, F XLN, MOD DNS, BRITTLE,
FOSS

LS - PRED GY, F / M XLN, MOD DNS / DNS,
FOSS, W/ SCAT LS - WHT / CRM, CHKY

LS - GY / TAN / CRM, F / VF XLN, MOD DNS /
DNS, FOSS, SUBCHKY / CHKY IN FEW PIECES

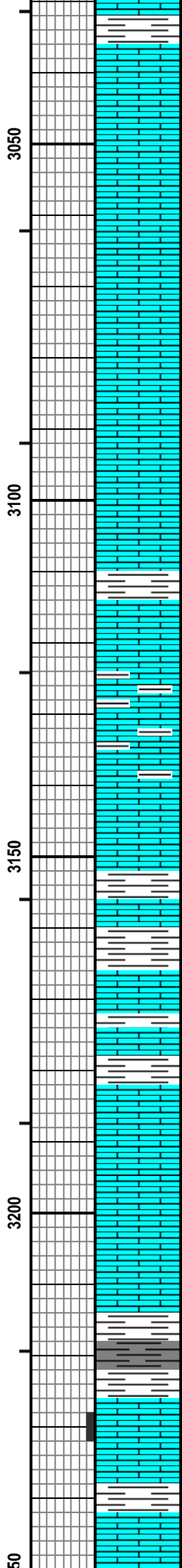
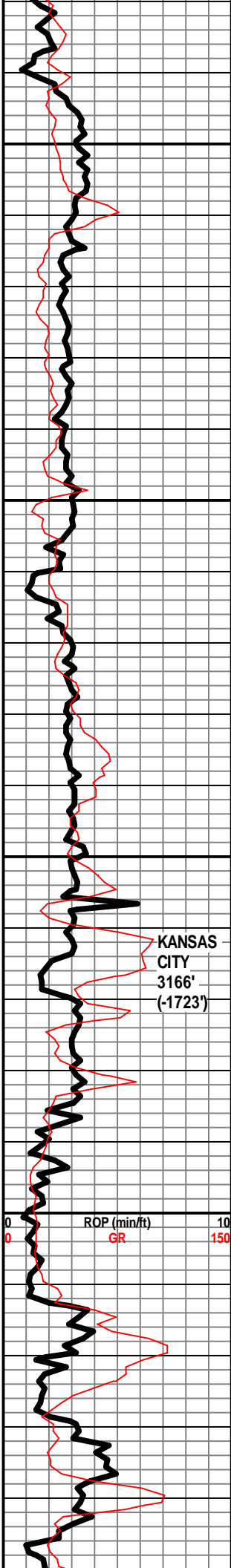
LS - CRM / TAN, F XLN, MOD DNS / SUBCHKY IN
PT, FOSS

LS - CRM / TAN, VF / F XLN, PRED SUBCHKY /
CHKY, MOD DNS IN PT, FOSS IN PT

STARTED TO
DISPLACE

WT 8.9
VIS 68

WT 8.7



SH - PRED GY, GRN / RD IN PT, MOD DNS, FOSS IN PT (CRINOID STEMS)

LS - TAN / CRM / WHT, F / VF XLN, PRED MOD DNS, SUBCHY / CHKY IN PT, FOSS

LS - CRM, PRED MOD DNS, SUBCHKY IN PT, DNS IN PT, FOSS IN PT

LS - CRM / TAN, VF XLN, MOD DNS / SUBCHKY, FOSS

LS - TAN / GY, F XLN, MOD DNS / DNS, FOSS, FEW PIECES SUBCHKY

LS - CRM / TAN / GY, VF XLN, MOD DNS / DNS, SUBCHKY IN PT, FOSS IN PT

LS - GY, F XLN MOD DNS / DNS, FOSS, W/ SH - DK GY, MOD DNS, SCAT FOSS

LS - CRM / TAN, F XLN, MOD DNS, ABUND FOSS, P INTERXLN POR IN PT, NS

LS - CRM / TAN, F XLN, MOD DNS / SUBCHKY, FOSS IN PT, ARG IN PT

LS - CRM / TAN / DK TAN / GY IN PT, F XLN, MOD DNS / DNS, FOSS, ARG IN PT

SH - DK GY / GY, W/ LS - DK TAN, F / M XLN, MOD DNS / DNS, FOSS

SH - GY / GRN IN PT, W/ LS - GY / TAN, F / M XLN, MOD DNS / DNS FOSS

LS - CRM / TAN, F / VF XLN, MOD DNS / DNS, SUBCHKY IN FEW PIECES, FOSS, W/ SH - GY

LS - TAN / GY, F XLN, MOD DNS / DNS, FOSS, OOLITIC IN PT, W/ SH - DK GY / GY

SH - GY, W/ LS - TAN / GY, CRM IN PT, PRED MOD DNS, CRM IS SUBCHKY, FOSS IN PT

LS - CRM / TAN / GY, PRED DNS, MOD DNS IN PT, FOSS

LS - TAN / GY, F / M XLN, MOD DNS / DNS, FOSS

SH - BLK, / DK GY / GY, FOSS IN PT, CALC IN PT, LS - CRM / TAN / GY IN PT, MOD DNS / DNS, FOSS

SH - DK GY / GY, W/ LS - CRM / GY, F XLN, PRED MOD DNS / DNS, P INTERXLN POR IN FEW PIECES, NS, NO DOOR

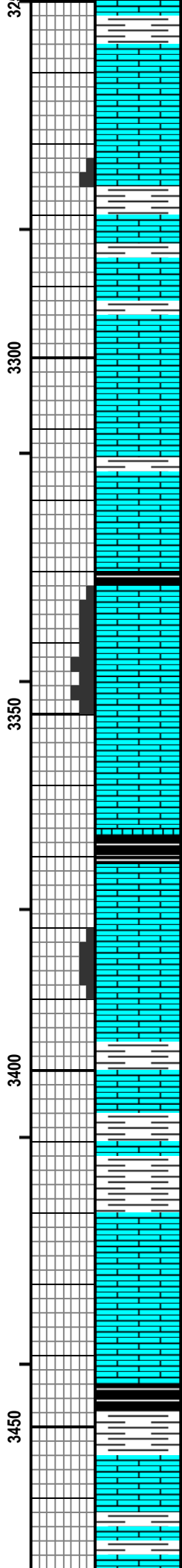
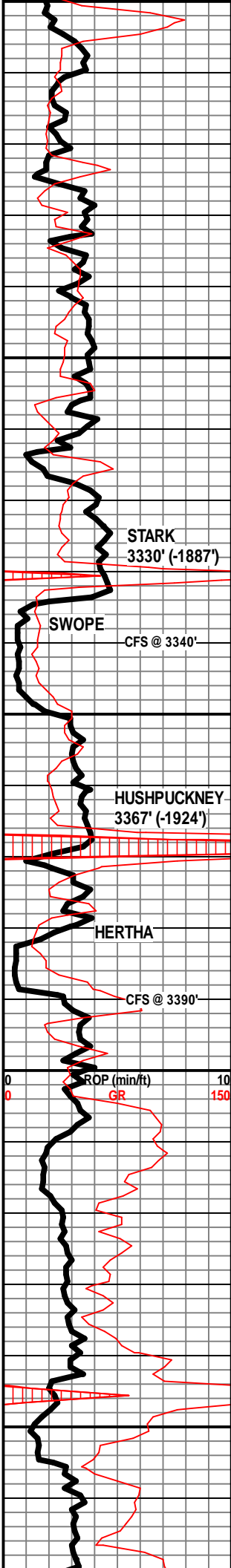
LS - TAN / GY / CRM IN PT, F / M XLN, MOD DNS / DNS, FOSS

LS - CRM, VF / F XLN, MOD DNS / SUBCHKY, FOSS IN PT, W/ SH - LT GY / LT GRN, MOD DNS

WT 8.7
VIS 43

WT 8.8
VIS 49
LCM TRC

WT 8.9
VIS 48
LCM 1#



SH - DK GY / LT GY / LT GRN, MOD DNS, W/ LS - PRED CRM, TAN / GY IN PT, VF / F XLN, MOD DNS, SUBCHKY IN PT, FEW CHKY PIECES, FOSS IN PT

LS - CRM / TAN / GY, SCAT BRN PIECES, F XLN, MOD DNS / DNS, FOSS

LS - CRM, VF / F XLN, PRED MOD DNS, P / F INTERXLN POR IN PT, FSFO IN PT, F OIL SHEEN, F ODOR WHEN BROKEN, W/ SH - GY / GRN

LS - CRM / TAN, F / VF XLN, PRED MOD DNS / DNS, SUBCHKY IN PT, FOSS

LS - CRM / TAN, F XLN, MOD DNS / DNS, FOSS, W/ SH - GY / GRN

LS - GY / TAN, F / M XLN, MOD DNS / DNS, FOSS

LS - TAN / CRM / WHT, F / VF XLN, PRED MOD DNS / DNS, SUBCHKY / CHKY IN PT, FOSS IN PT, W/ SH - GY

LS - CRM / TAN, VF / F XLN, MOD DNS / DNS, FOSS

SH - DK GY / BLK

LS - CRM / TAN, F XLN, P / F OOLMOLDIC POR, NS, NO ODOR, FOSS

LS - CRM / TAN, F XLN, P / F OOLMOLDIC POR, P / F INTERXLN POR IN PT, SSFO IN FEW PIECES, SLI CUP ODOR, ABUND OIL SHEEN

LS - TAN / GY, F / M XLN, OOLITIC IN PT, DNS / V DNS

SH - BLK, CARB, G SHO GAS BUB

LS - CRM / TAN / GY IN PT, F / VF XLN, MOD DNS / DNS, SUBCHKY IN FEW PIECES, FOSS

LS - CRM / TAN, F XLN, P / F OOLMOLDIC POR, P INTERXLN POR IN PT, NS IN ROCK, ABUND OIL SHEEN

LS - TAN / GY, M / F XLN, DNS, FOSS IN PT

SH - GY / GRN, W/ LS - CRM / TAN / GY, F XLN, MOD DNS, FOSS

SH - GY / GRN / RD IN PT, W/ LS - CRM / TAN, VF / F XLN, MOD DNS / SUBCHKY, FOSS

SH - DK GY / GY / GRN, W/ LS - CRM, VF / F XLN, MOD DNS, FOSS

SH - DK GY / GY / GRN / RD IN PT, W/ LS - GY, F XLN, MOD DNS / DNS, FOSS IN PT

LS - DK GY, F XLN, MOD DNS / DNS, FOSS IN PT

SH - BLK, CARB, W/ LS - DK GY, F XLN, MOD DNS / DNS, FOSS IN PT

SH - GY / GRN, MOD DNS, W/ LS - CRM / TAN, F XLN, MOD DNS, FOSS

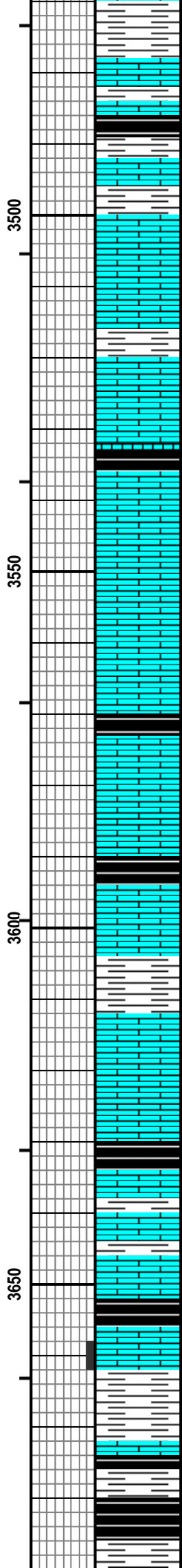
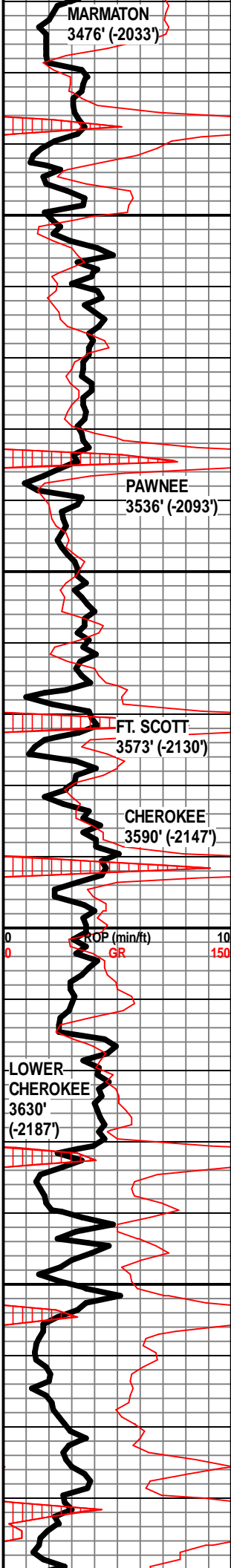
SH - GY / GRN, MOD DNS, W/ SH - RD, V SOFT, W/ LS - TAN, F / M XLN, MOD DNS / DNS, FOSS IN PT, W/ SCAT PYRITE CLUSTERS

WT 8.9
VIS 46
LCM TRC

WT 8.9
VIS 48
LCM TRC

WT 8.8
VIS 47
LCM TRC

WT 8.8
VIS 43
LCM 1/2#



SH - GY / GRN / RD / MAR, W/ LS - CRM, VF / F XLN, MOD DNS, FOSS

SH - GRN / MAR / GY, W/ LS - CRM / TAN, F XLN, DNS, FOSS

SH - BLK, CARB, W/ LS - CRM, VF / F XLN, MOD DNS / SUBCHKY, FOSS IN PT, W/ SH - GY / GRN / RD

SH - GRN / MAR / RD / GY, W/ LS - CRM / TAN, F XLN, MOD DNS / DNS, FOSS

LS - CRM, F / VF XLN, PRED MOD DNS / SUBCHKY IN FEW PIECES, FOSS, W/ SH - RD / GRN

SH - BLK, CARB, W/ LS - TAN / GY, F / M XLN, MOD DNS / DNS

LS - CRM / TAN, F / VF XLN, MOD DNS / SUBCHKY, FOSS IN PT

LS - CRM / TAN, F XLN, MOD DNS / DNS, FOSS

LS - CRM, VF XLN, SUBCHKY / MOD DNS, FOSS IN PT, W/ SH - GRN

LS - TAN, M / M XLN, DNS, FOSS

SH - BLK, CARB, W/ LS - CRM / TAN, F / VF XLN, PRED MOD DNS / DNS, SUBCHKY IN FEW PIECES

LS - GY / TAN / CRM, F XLN, MOD DNS / DNS, FOSS

SH - BLK, CARB, W/ LS - TAN / CRM, F XLN, MOD DNS / DNS, FOSS

SH - LT GY, V SOFT, W/ SH - GY / GRN, SLI WAXY, W/ LS - TAN / CRM, F XLN, MOD DNS / DNS, FOSS

LS - TAN, F / VF XLN, DNS / MOD DNS, FOSS, W/ SH - GY / GRN / RD IN PT

LS - CRM / TAN, F / M XLN, DNS / MOD DNS, FOSS

SH - BLK, CARB, W/ SH - GY / GRN

SH - GY / GRN, W/ LS - GY / TAN, M XLN, DNS, FOSS IN PT

LS - CRM, VF / F XLN, SUBCHKY, W/ SH - GY / GRN / MAR / YEL IN PT

SH - BLK, CARB, W/ SH - GY / GRN / MAR, W/ LS - TAN, F XLN, MOD DNS P OOLMOLDIC POR IN PT, NS

SH - BLK, CARB, W/ SH - GY / GRN, W/ LS - CRM / TAN, F XLN, MOD DNS, FOSS

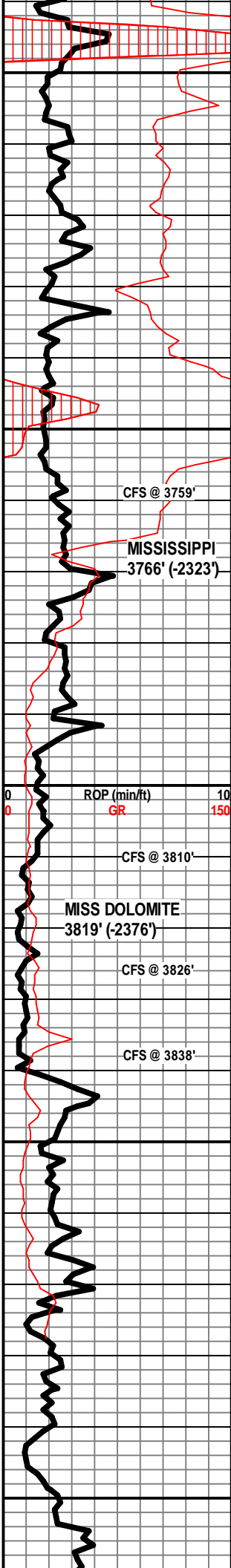
SH - BLK, CARB, W/ SH - GY / GRN / MAR / YEL

WT 9.0
VIS 42
LCM 1#

WT 8.9
VIS 48
LCM 1#

WT 8.9
VIS 52
LCM 1#

WT 8.9
VIS 52
LCM 1#



SH - GY / GRN / YEL / MAR / PURP

SH - BLK, CARB, W/ SH - GY / GRN / MAR / YEL IN PT

SH - GRN / YEL, W/ LS - GY / TAN, F / M XLN, MOD DNS / DNS, FOSS IN PT

SH - GRN / YEL / MAR / PURP, W/ LS - CRM / TAN, F XLN, MOD DNS / DNS, FOSS IN PT

SH - GRN / PURP / MAR / YEL

SH - GRN / GY / MAR / YEL / PURP

SH - MAR / GRN / GY / YEL / PURP

LS - CRM / WHT, VF XLN, SUBCHKY / MOD DNS, VP INTERXLN POR IN PT, NS, NO ODOR

CHT - CRM / WHT, PRED OPAQ, F WEATH POR, ABUND OIL SHEEN, SLI SHO OF GAS, FOSS IN PT, DULL FLUOR IN PT

CHT - CRM / TAN / WHT, PRED OPAQ, F WEATH POR, ABUND OIL SHEEN, SSFO, SLI SHO OF GAS, FOSS IN PT, BRI YEL-GRN FLUOR IN PT

LS - CRM, VF / F XLN, SILICEOUS, P / F INTERXLN POR IN PT, SSFO, ABUND OIL SHEEN, SLI SHO OF GAS BUB, FOSS IN PT, BRI YEL-GRN FLUOR

LS - CRM, VF / F XLN, SILICEOUS, P / F INTERXLN POR IN PT, FSFO, BRI YEL-GRN FLUOR

LS - CRM, V SILICEOUS, VF / F XLN, MOD DNS / SUB CHKY, NO VIS POR, NS

CHT - CRM / TAN / WHT, FRESH IN PT, PRED WEATH, SLI TRANSLUCNT IN PT, F WEATH POR, SSFO IN FEW PIECES, BRI YEL-GRN FLUOR,

DOLO - BRN, F XLN, SUCROSIC, G INTERXLN, POR, FOSS IN PT, GSFO, COMP SATURATED, BRI YEL-GRN FLUOR, F CUP ODOR

DOLO - BRN, F XLN, SUCROSIC, F / G INTERXLN POR, GSFO, SAT, SLI SHO OF GAS WHEN BRKN, BRI YEL-GRN FLUOR, F CUP ODOR

DOLO - BRN / TAN, F XLN, MOD DNS, P / F INTERXLN POR, SSFO, ABUND OIL SHEEN, MOD YEL-GRN FLUOR, FEW PIECES BARREN

LS - CRM, F XLN, V CHKY, DNS, W/ CHT - WHT / CRM, PRED OPAQ, FRSH, MICRO FOSS IN PT

CHT - WHT, FRSH, OPAQ, LMY, P WEATH POR IN PT, NS, NO ODOR

DOLO - BRN / TAN, F XLN, SUCROSIC IN PT, P / F INTERXLN POR, NS, NO ODOR

DOLO - CRM / TAN, F XLN, MOD DNS, CHTY, NS, NO ODOR, W/ SCAT CHT - WHT / CRM, FRSH, OPAQ, SLI TRANSLUCNT IN PT

LS - CRM / TAN, F XLN, MOD DNS / DNS, SILICEOUS, W/ SCAT CHT - WHT / CRM, OPAQ, SLI TRANSLUCNT IN PT

LS - CRM, VF / F XLN, PRED MOD DNS / DNS, SUBCHKY IN FEW PIECES, CHTY

CHT - GY, FRSH, DNS, SLI TRANSLUCNT, FOSS

WT 9.0
VIS 55
LCM 1#

DST #1
3759' - 3810'
30"-60"-90"-90"

IF: BOB in 90 sec, built to 260" of water
ISI: No blow back
FF: GTS in 89 min
FSI: No blow back

Rec'd: 120' Drilling Mud (100% M)

SIP: 576-572#
FP: 28-41#, 36-85#
HP: 1846-1769#

DST #2
3810' - 3838'
30"-60"-90"-90" **SHORT TRIP**

IF: BOB in 1 min, GTS in 29 min
ISI: 7" blow back
FF: GTS (see rates below)
FSI: Strong blow back

Rec'd: 220' SW (100% SW), 445'
GVSO&MCW (2% G, 3% O, 80% W, 15% M), 230' GSO&WCM (14% G, 8% O, 15% W, 63% M)

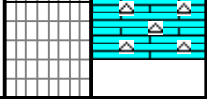
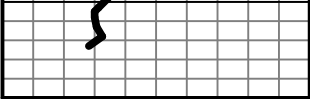
WT 9.3
VIS 49
LCM 1#

GTS
Max Rate 31.73 mcf/d
Last Rate 25.06 mcf/d

SIP: 612-606#
FP: 72-198#, 222-424#
HP: 1789-1778#

WT 9.0
VIS 41
LCM 1#

WT 8.9
VIS 50
LCM 1#



LS - CRM / IAN, F XLN, MOD DNS / SUBCHKY IN
PT, CHTY
RTD 3915'

QUALITY WELL SERVICE, INC.

File

7626

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
3-11-21	34	27S	5W	Kingman	KS		
Lease YOUNG RR		Well No. 2		Location HWY 54 & MT VERNON Ext 1/2 S W. 1/4			
Contractor PICKRELL DRILLING RIG #10				Owner			
Type Job SURFACE				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.			
Hole Size 12 1/4		T.D. 224'		Charge To PICKRELL DRILLING CO			
Csg. 35/8 23#		Depth 224'		Street			
Tbg. Size		Depth		City State			
Tool		Depth		City State			
Cement Left in Csg.		Shoe Joint 20		The above was done to satisfaction and supervision of owner agent or contractor.			
Meas Line		Displace 12.75		Cement Amount Ordered 250 x Common			
EQUIPMENT				2' TEL 3' CL 1/2" PS USED 225			
Pumptrk 8	No.			Common 225			
Bulktrk 10	No.			Poz. Mix			
Bulktrk	No.			Gel. 470#			
Pickup	No.			Calcium 705#			
JOB SERVICES & REMARKS				Hulls			
Rat Hole				Salt			
Mouse Hole				Flowseal 125#			
Centralizers				Kol-Seal			
Baskets				Mud CLR 48			
D/V or Port Collar				CFL-117 or CD110 CAF 38			
Run 5 H.C. 35/8 23# CSG SET @ 224'				Sand			
START CSG CSG ON BOTTOM				Handling 269			
Hook up to CSG & BREAK CIRC W/ RIG				Mileage			
START Pumping 10 Bbl H ₂ O				FLOAT EQUIPMENT			
START Mix Pump 225 x Common				Guide Shoe			
2' TEL 3' CL 1/2" PS @ 14.8"/min				Centralizer			
START DIS				Baskets			
plug down 12.75 Hbl				AFU Inserts			
Close Valve on Csg 150'				Float Shoe			
Pump on thru 503				Latch Down			
Circ out to pit				SERVICE Supr 1 EA			
				LNU			
THANK YOU				Pumptrk Charge SURFACE			
PLEASE CALL AGAIN				Mileage			
TODD MAKE MAT							
X Signature <i>Todd Make Mat</i>				Tax			
				Discount			
				Total Charge			



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Pickrell Drilling Co., Inc.

34/27S/5W Kingman, KS

100 South Main
Suite 505
Wichita, KS. 67202-3738
ATTN: Aaron Young

Young "RR" #2

Job Ticket: 66733

DST#: 1

Test Start: 2021.03.22 @ 06:11:01

GENERAL INFORMATION:

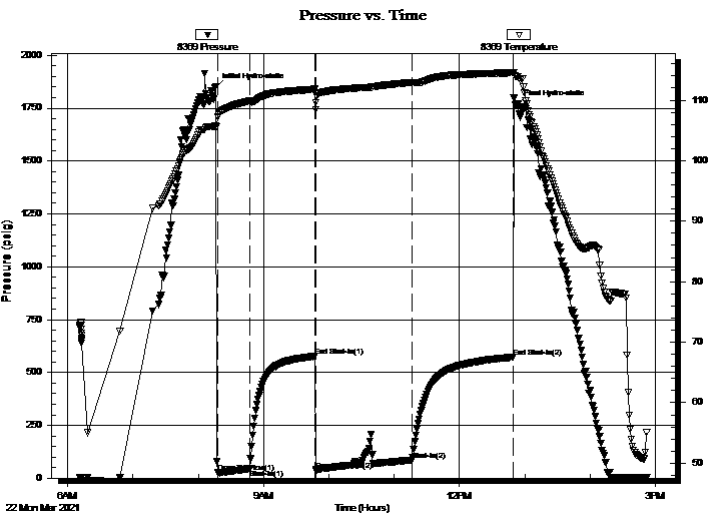
Formation: **Mississippian**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 08:17:50
 Time Test Ended: 14:52:30
 Interval: **3759.00 ft (KB) To 3810.00 ft (KB) (TVD)**
 Total Depth: 3810.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Jimmy Ricketts
 Unit No: 80
 Reference Elevations: 1446.00 ft (KB)
 1436.00 ft (CF)
 KB to GR/CF: 10.00 ft

Serial #: 8369

Outside

Press@RunDepth: 84.54 psig @ 3760.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2021.03.22 End Date: 2021.03.22 Last Calib.: 2021.03.22
 Start Time: 06:11:01 End Time: 14:52:30 Time On Btm: 2021.03.22 @ 08:15:30
 Time Off Btm: 2021.03.22 @ 12:53:00

TEST COMMENT: IF - Strong blow throughout initial flow period. Botton of bucket in 90 seconds. Continuing to build to 260 inches of water.
 FF - Strong blow throughout final flow period. Bled off to check for gas. Gas to surface 89 minutes into final flow period.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1846.01	105.81	Initial Hydro-static
3	28.45	107.21	Open To Flow (1)
32	41.44	109.87	Shut-In(1)
92	576.14	111.80	End Shut-In(1)
93	35.76	109.63	Open To Flow (2)
181	84.54	112.94	Shut-In(2)
274	572.12	114.52	End Shut-In(2)
278	1768.75	113.88	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	Mud	1.68

Gas Rates

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



DRILL STEM TEST REPORT

Pickrell Drilling Co., Inc.
 100 South Main
 Suite 505
 Wichita, KS. 67202-3738
 ATTN: Aaron Young

34/27S/5W Kingman, KS
Young "RR" #2
 Job Ticket: 66733 **DST#: 1**
 Test Start: 2021.03.22 @ 06:11:01

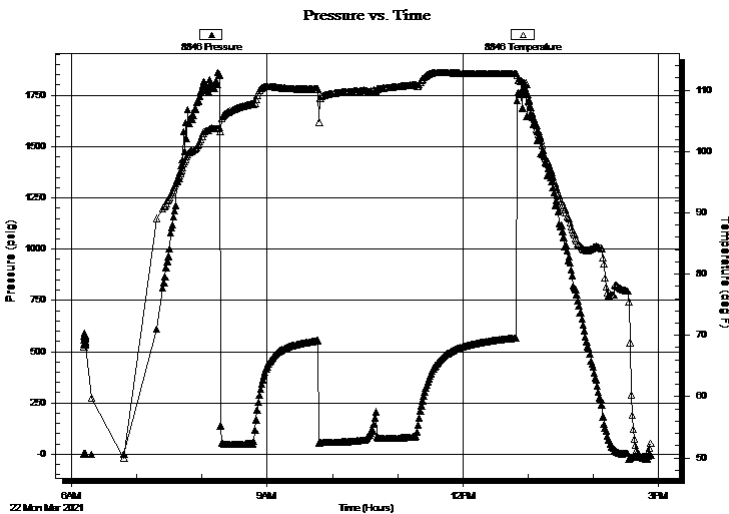
GENERAL INFORMATION:

Formation: **Mississippian**
Deviated: No **Whipstock:** ft (KB) **Test Type:** Conventional Bottom Hole (Initial)
Time Tool Opened: 08:17:50 **Tester:** Jimmy Ricketts
Time Test Ended: 14:52:30 **Unit No:** 80

Interval: **3759.00 ft (KB) To 3810.00 ft (KB) (TVD)** **Reference Elevations:** 1446.00 ft (KB)
Total Depth: 3810.00 ft (KB) (TVD) 1436.00 ft (CF)
Hole Diameter: 7.88 inches **Hole Condition:** Fair **KB to GR/CF:** 10.00 ft

Serial #: 8846 Inside
Press@RunDepth: psig @ 3760.00 ft (KB) **Capacity:** 8000.00 psig
Start Date: 2021.03.22 **End Date:** 2021.03.22 **Last Calib.:** 1899.12.30
Start Time: 06:11:01 **End Time:** 14:52:49 **Time On Btm:**
 Time Off Btm:

TEST COMMENT: IF- Strong blow throughout initial flow period. Botton of bucket in 90 seconds. Continuing to build to 260 inches of water.
 FF - Strong blow throughout final flow period. Bled off to check for gas. Gas to surface 89 minutes into final flow period.



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
120.00	Mud	1.68

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Pickrell Drilling Co., Inc.

34/27S/5W Kingman, KS

100 South Main
Suite 505
Wichita, KS. 67202-3738
ATTN: Aaron Young

Young "RR" #2

Job Ticket: 66733

DST#: 1

Test Start: 2021.03.22 @ 06:11:01

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 49.00 sec/qt

Water Loss: 10.38 in³

Resistivity: ohm.m

Salinity: 8000.00 ppm

Filter Cake: inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API:

Water Salinity: deg API

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
120.00	Mud	1.683

Total Length: 120.00 ft Total Volume: 1.683 bbl

Num Fluid Samples: 0

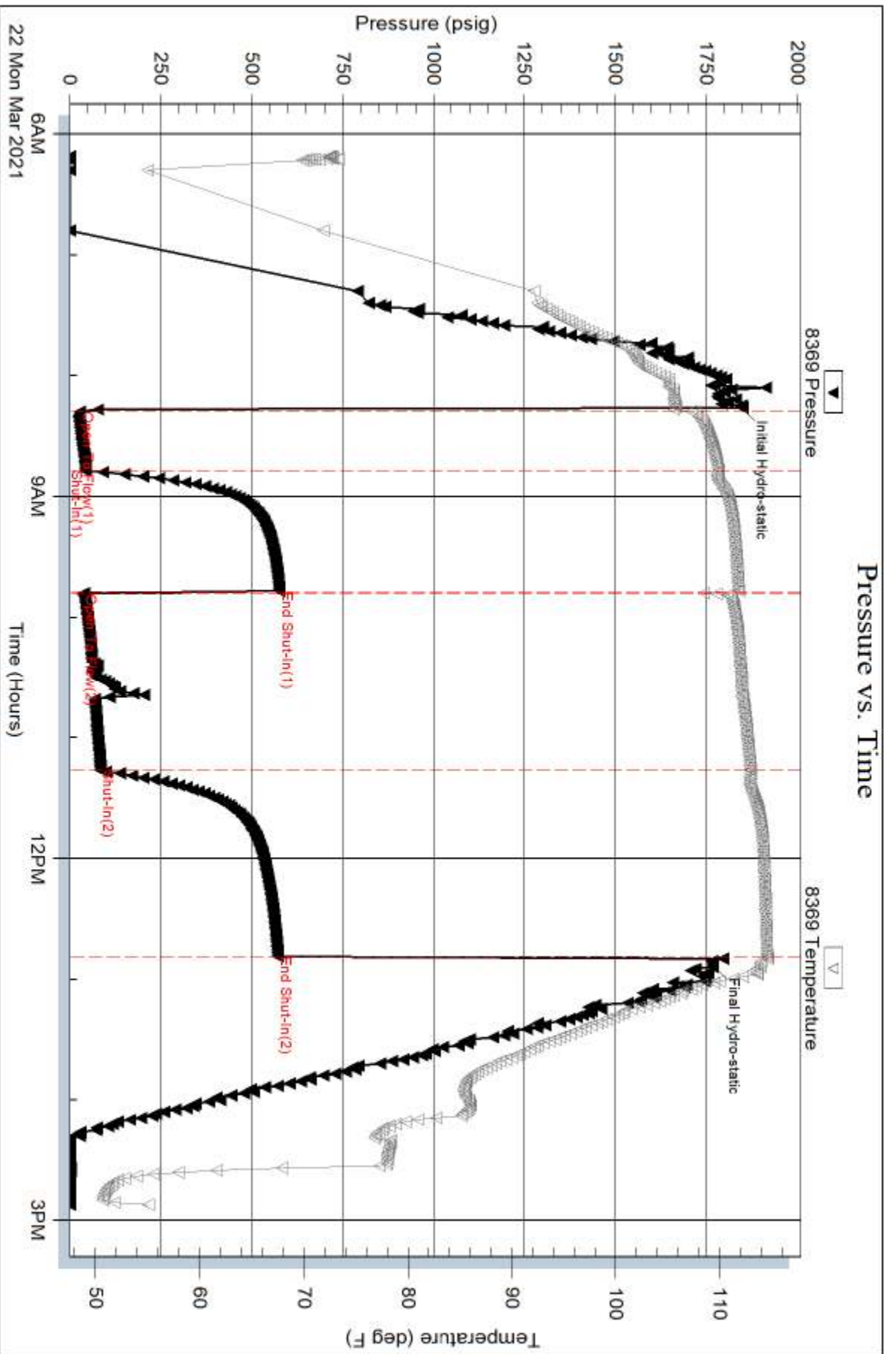
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



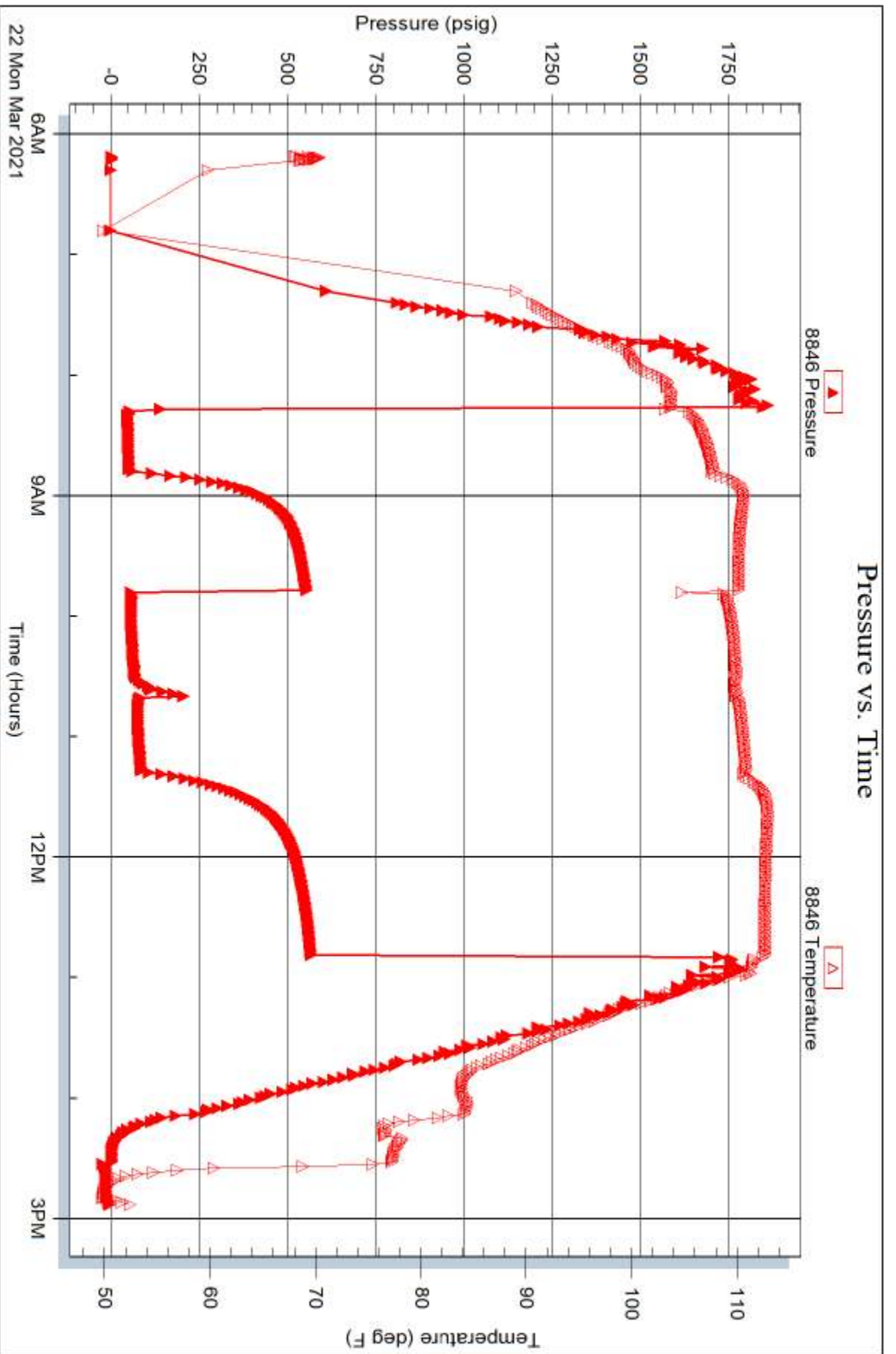
Serial #: 8846

Inside

Pickrell Drilling Co., Inc.

Young "RR" #2

DST Test Number: 1

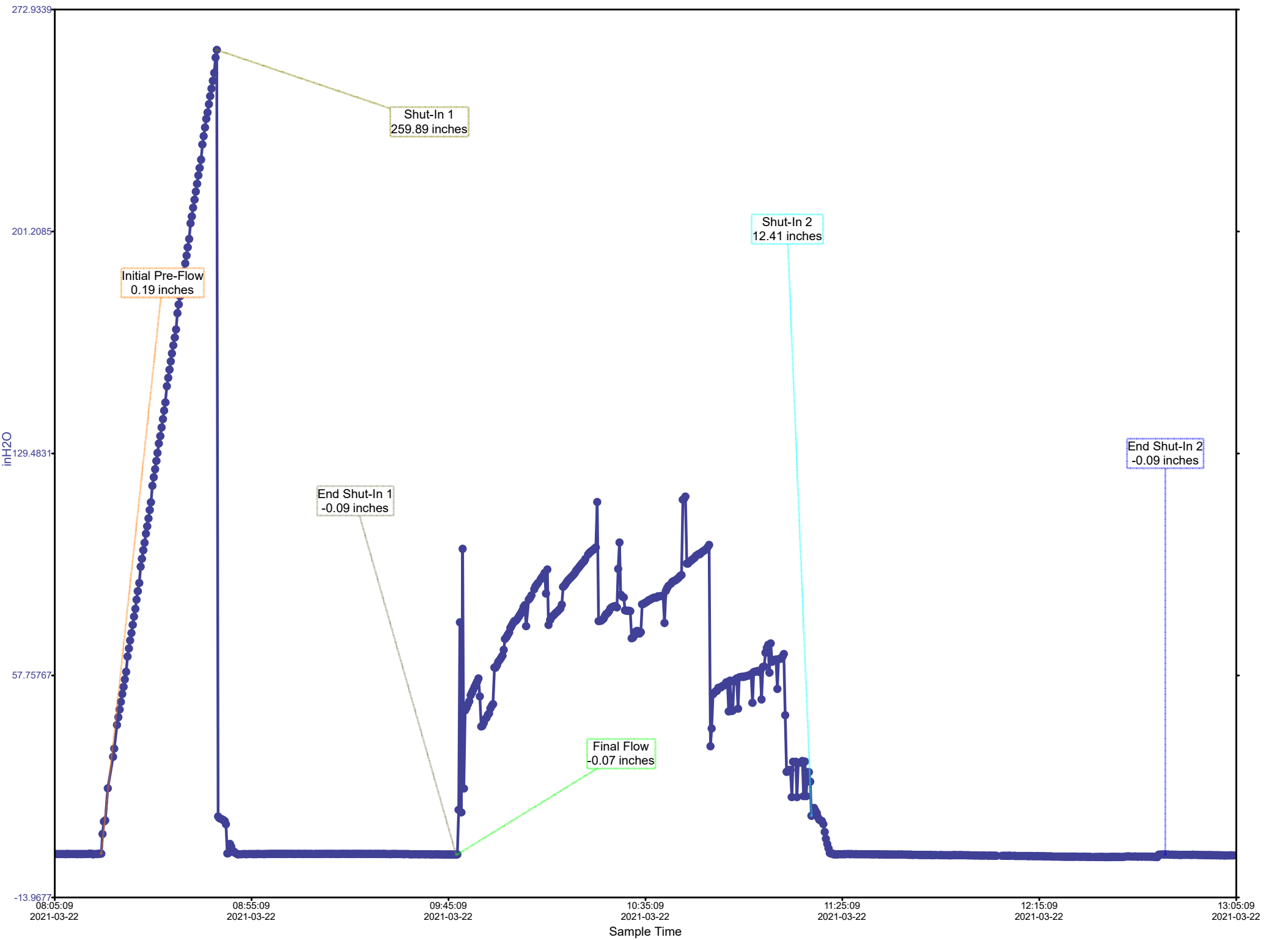


Tribble Testing, Inc

Ref. No: 66733

Printed: 2021.03.22 @ 15:31:19

Pickrell Drilling CO. - Toung "RR" #2 - DST #1





TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Pickrell Drilling Co., Inc.

34/27S/5W Kingman, KS

100 South Main
Suite 505
Wichita, KS. 67202-3738
ATTN: Aaron Young

Young "RR" #2

Job Ticket: 66734

DST#: 2

Test Start: 2021.03.22 @ 22:36:01

GENERAL INFORMATION:

Formation: **Mississippian**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 01:27:20

Time Test Ended: 08:43:40

Test Type: Conventional Bottom Hole (Initial)

Tester: Jimmy Ricketts

Unit No: 80

Interval: 3810.00 ft (KB) To 3838.00 ft (KB) (TVD)

Reference Elevations: 1446.00 ft (KB)

Total Depth: 3838.00 ft (KB) (TVD)

1436.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 10.00 ft

Serial #: 8846

Inside

Press@RunDepth: 423.62 psig @ 3811.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2021.03.22

End Date:

2021.03.23

Last Calib.: 1899.12.30

Start Time: 22:36:01

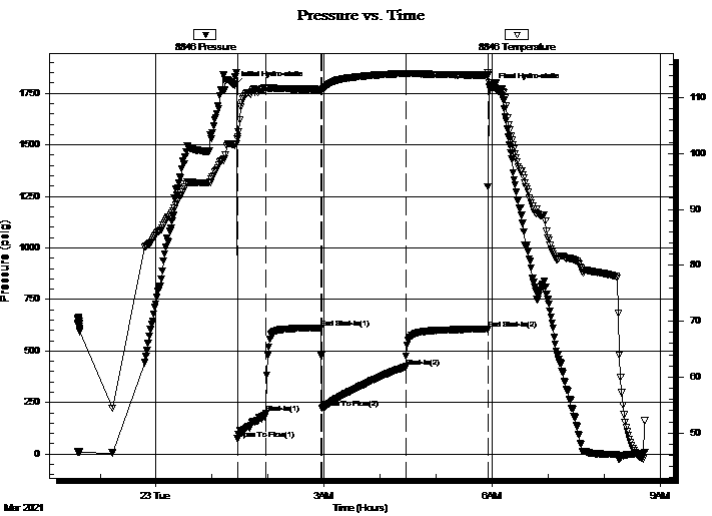
End Time:

08:43:40

Time On Btm: 2021.03.23 @ 01:24:30

Time Off Btm: 2021.03.23 @ 06:00:30

TEST COMMENT: IF - Bottom of bucket in one minutes. Strong blow throughout initial flow period. Gas to surface 29 minutes into initial flow period.
IS - 7 inch blow back during initial shut-in period.
FF - Strong blow throughout final flow period.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1789.28	101.49	Initial Hydro-static
3	72.14	102.98	Open To Flow (1)
34	197.51	111.63	Shut-In(1)
93	612.33	111.48	End Shut-In(1)
94	222.13	111.32	Open To Flow (2)
183	423.62	114.30	Shut-In(2)
271	605.83	114.01	End Shut-In(2)
276	1777.51	112.33	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
220.00	SW 100& W	3.09
445.00	GVSO&MCW 2%G 3%O 80%W & 15%M	6.24
230.00	GSO&WCM 14%G 8%O 15%W & 63%M	3.23
0.00	GTS	0.00

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.13	4.20	6.96
Last Gas Rate	0.25	1.40	25.06
Max. Gas Rate	0.13	6.80	7.94



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Pickrell Drilling Co., Inc.

34/27S/5W Kingman, KS

100 South Main
Suite 505
Wichita, KS. 67202-3738
ATTN: Aaron Young

Young "RR" #2

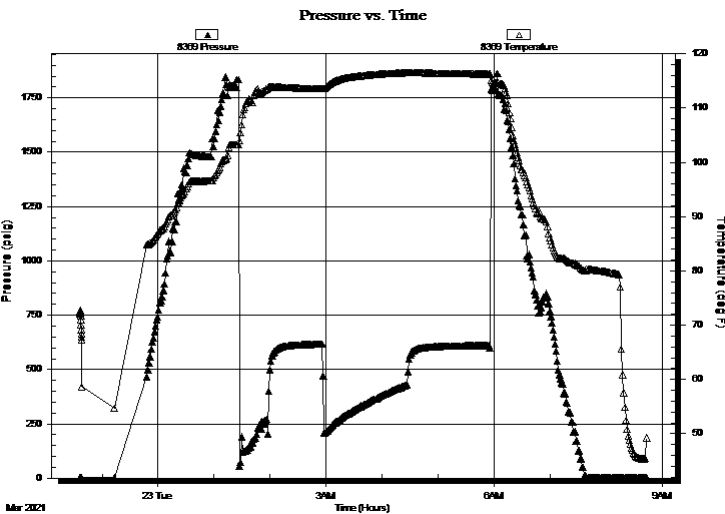
Job Ticket: 66734 **DST#: 2**
Test Start: 2021.03.22 @ 22:36:01

GENERAL INFORMATION:

Formation: **Mississippian**
Deviated: No **Whipstock:** ft (KB)
Time Tool Opened: 01:27:20 **Test Type:** Conventional Bottom Hole (Initial)
Time Test Ended: 08:43:40 **Tester:** Jimmy Ricketts
Unit No: 80
Interval: **3810.00 ft (KB) To 3838.00 ft (KB) (TVD)** **Reference Elevations:** 1446.00 ft (KB)
Total Depth: 3838.00 ft (KB) (TVD) 1436.00 ft (CF)
Hole Diameter: 7.88 inches **Hole Condition:** Fair **KB to GR/CF:** 10.00 ft

Serial #: 8369 Outside
Press@RunDepth: psig @ 3811.00 ft (KB) **Capacity:** 8000.00 psig
Start Date: 2021.03.22 **End Date:** 2021.03.23 **Last Calib.:** 1899.12.30
Start Time: 22:36:01 **End Time:** 08:43:49 **Time On Btm:**
Time Off Btm:

TEST COMMENT: IF - Bottom of bucket in one minutes. Strong blow throughout initial flow period. Gas to surface 29 minutes into initial flow period.
 IS - 7 inch blow back during initial shut-in period.
 FF - Strong blow throughout final flow period.



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
220.00	SW 100& W	3.09
445.00	GVSO&MCW 2%G 3%O 80%W & 15%M	6.24
230.00	GSO&WCM 14%G 8%O 15%W & 63%M	3.23
0.00	GTS	0.00

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.13	4.20	6.96
Last Gas Rate	0.25	1.40	25.06
Max. Gas Rate	0.13	6.80	7.94



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Pickrell Drilling Co., Inc.

34/27S/5W Kingman, KS

100 South Main
Suite 505
Wichita, KS. 67202-3738
ATTN: Aaron Young

Young "RR" #2

Job Ticket: 66734

DST#: 2

Test Start: 2021.03.22 @ 22:36:01

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 55.00 sec/qt

Water Loss: 10.39 in³

Resistivity: ohm.m

Salinity: 8000.00 ppm

Filter Cake: inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API:

Water Salinity: 75000 ppm

deg API

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
220.00	SW 100& W	3.086
445.00	GVSO&MCW 2%G 3%O 80%W & 15%M	6.242
230.00	GSO&WCM 14%G 8%O 15%W & 63%M	3.226
0.00	GTS	0.000

Total Length: 895.00 ft Total Volume: 12.554 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

Pickrell Drilling Co., Inc.

34/27S/5W Kingman, KS

100 South Main
Suite 505
Wichita, KS. 67202-3738
ATTN: Aaron Young

Young "RR" #2

Job Ticket: 66734

DST#: 2

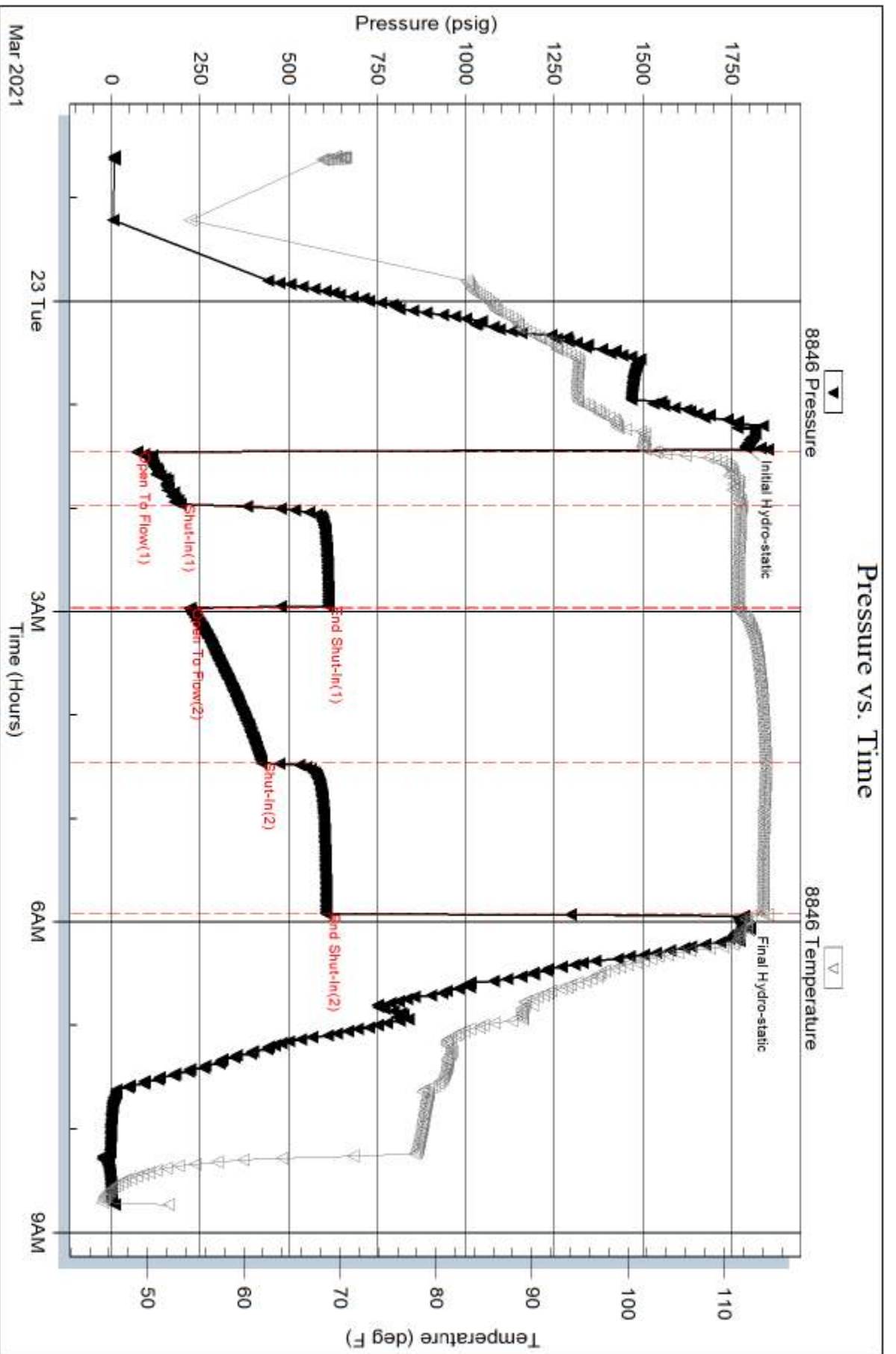
Test Start: 2021.03.22 @ 22:36:01

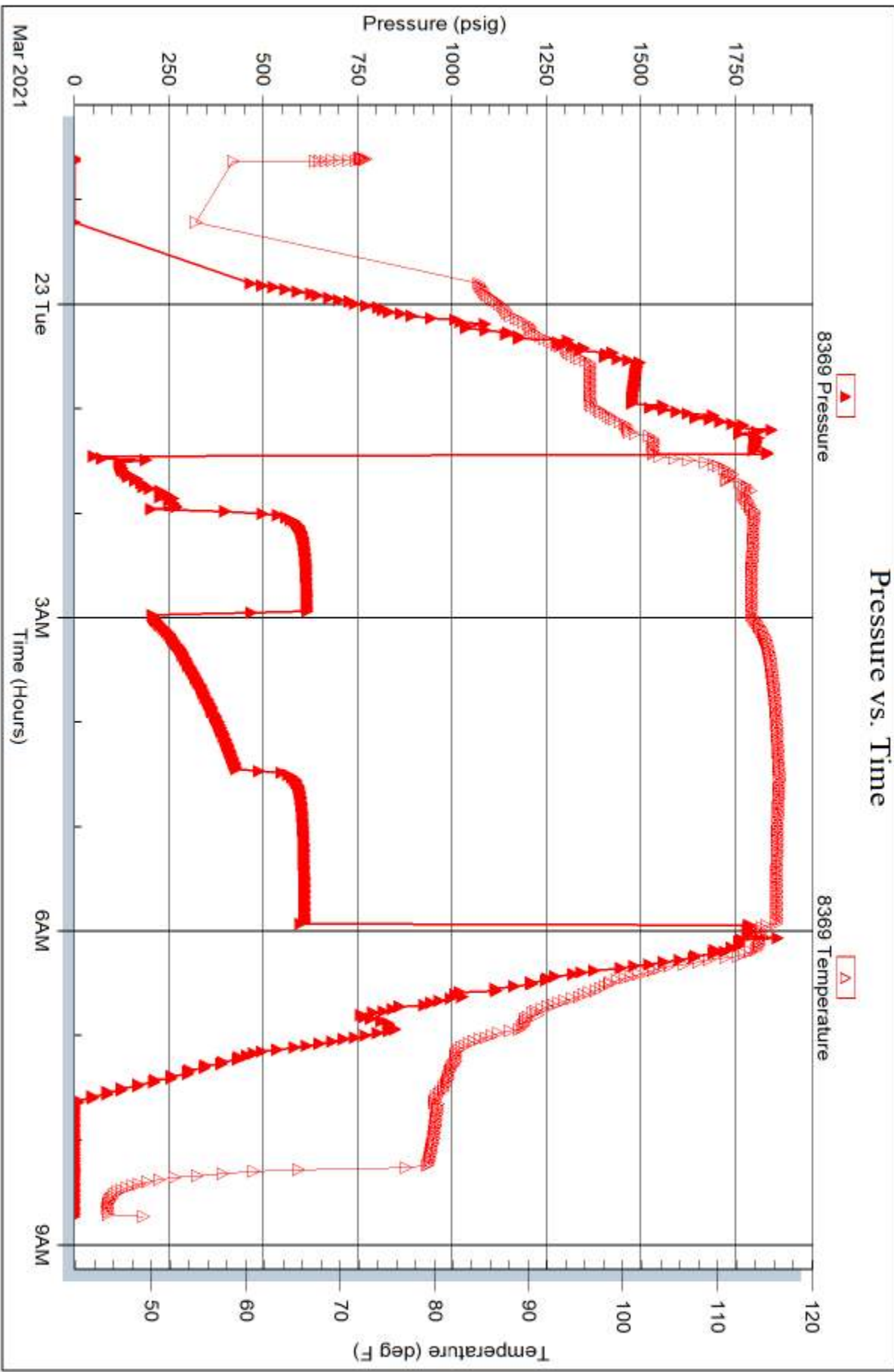
Gas Rates Information

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

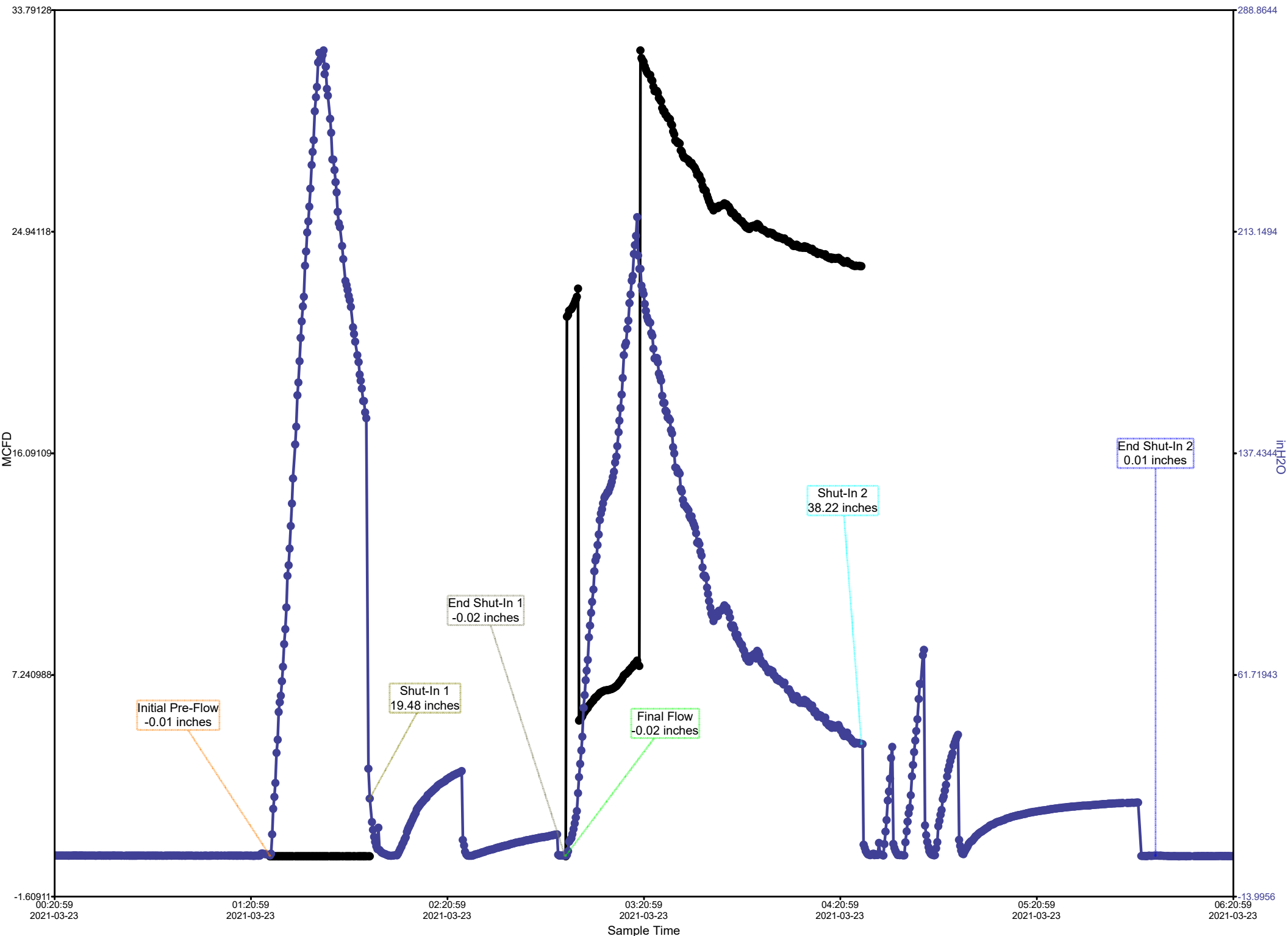
Gas Rates Table

Flow Period	Elapsed Time	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
2	10	0.13	4.20	6.96
2	20	0.13	6.80	7.94
2	30	0.25	5.60	31.73
2	40	0.25	4.00	29.19
2	50	0.25	2.90	27.45
2	60	0.25	2.40	26.65
2	70	0.25	1.90	25.86
2	80	0.25	1.70	25.54
2	90	0.25	1.40	25.06





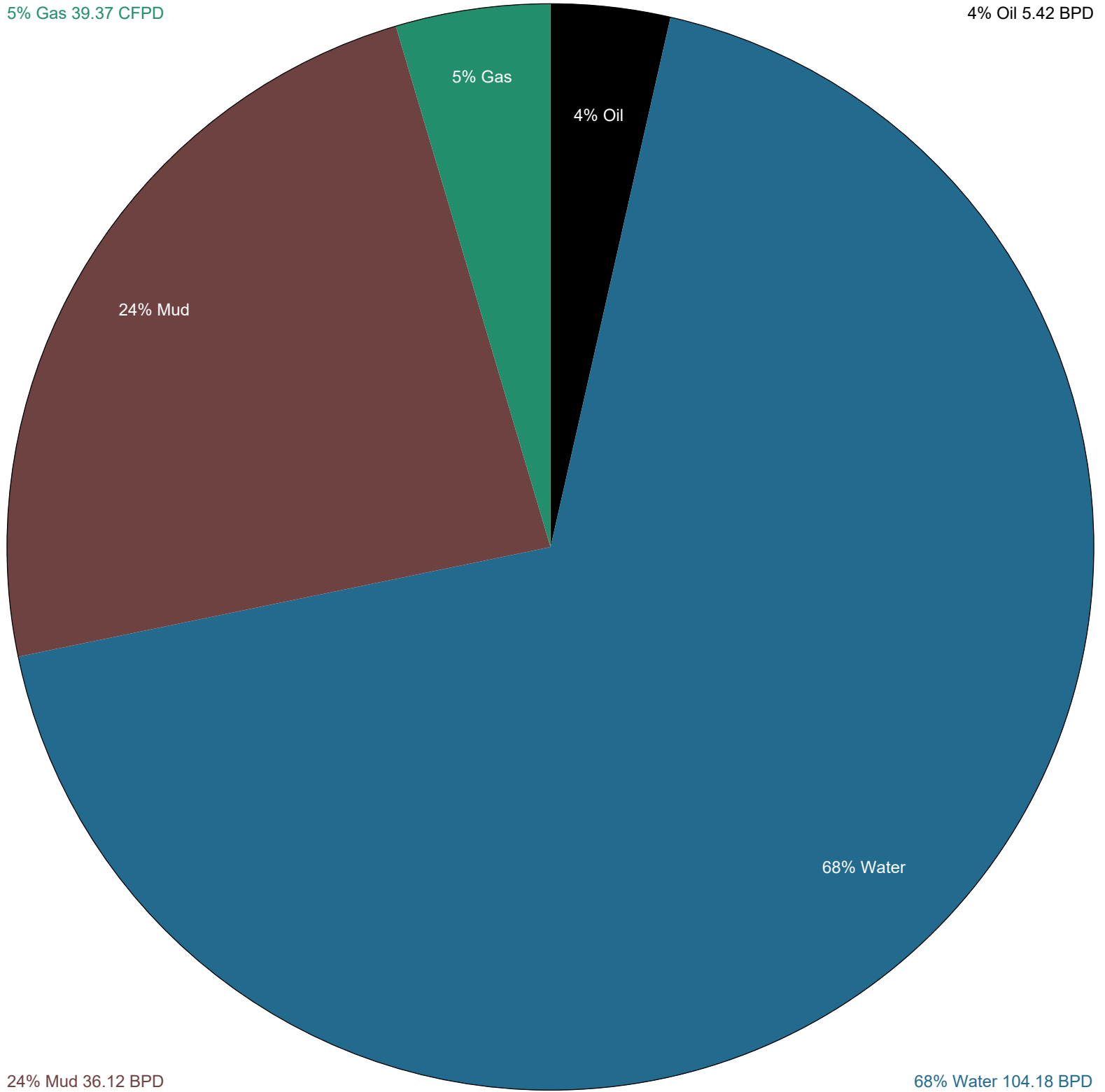
Pickrell Drilling CO. - Young "RR" #2 - DST #2



Calculated Recovery Analysis - Pickrell Drilling CO. - Young "RR" #2 - DST #2

5% Gas 39.37 CFPD

4% Oil 5.42 BPD



24% Mud

5% Gas

4% Oil

68% Water

24% Mud 36.12 BPD

68% Water 104.18 BPD