

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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Form	ACO1 - Well Completion
Operator	Darrah Oil Company, LLC
Well Name	BISHOP 1-17
Doc ID	1597724

All Electric Logs Run

Dual induction
sonic
micro
comp density/neutron



HURRICANE SERVICES INC

Remit To: Hurricane Services, Inc.
250 N. Water, Suite 200
Wichita, KS 67202
316-303-9515

(P)

Customer:
DARRAH OIL
C/O JOHN JAY DARRAH JR
PO BOX 2786
WICHITA, KS 67201-2786

Invoice Date: 7/14/2021
Invoice #: 0354197
Lease Name: Bishop
Well #: 1-17 (New)
County: Logan, Ks
Job Number: WP1594
District: Oakley

Date/Description	HRS/QTY	Rate	Total
Surface	0.000	0.000	0.00
H-325	190.000	17.600	3,344.00
Light Eq Mileage	30.000	1.760	52.80
Heavy Eq Mileage	30.000	3.520	105.60
Ton Mileage	269.000	1.320	355.08
Depth Charge 0'-500'	1.000	880.000	880.00

9308

Total 4,737.48

TERMS: Net 30 days. Interest may be charged on past due invoice at rate of 1 ½% per month or maximum allowed by applicable state or federal laws. HSI has right to revoke any discounts applied in arriving at net invoice price if invoice is past due. If revoked, full invoice price without discount plus additional sales tax, as applicable, is due immediately and subject to interest charges. Customer agrees to pay all collection costs directly or indirectly incurred by HSI in the event HSI engages a third party to pursue collection of past due invoice.

SALES TAX: Services performed on oil, gas and water wells in Kansas are subject to sales tax, with certain exceptions. HSI relies on the well information provided by the customer in identifying whether the services performed on wells qualify for exemption.

WE APPRECIATE YOUR BUSINESS!

Hurricane Services, Inc.
250 N. Water St., Suite #200
Wichita, KS 67202



Customer	Darrah Oil Co	Lease & Well #	Bishop 1-17		Date	7/14/2021	
Service District	Oakley KS	County & State	Logan KS	Legals S/T/R	17-12S-36W	Job #	
Job Type	Surface	<input checked="" type="checkbox"/> PROD	<input type="checkbox"/> INJ	<input type="checkbox"/> SWD	New Well?	<input checked="" type="checkbox"/> YES <input type="checkbox"/> No	Ticket #
Equipment #	Driver	Job Safety Analysis - A Discussion of Hazards & Safety Procedures					
180/520	Jimmie	<input checked="" type="checkbox"/> Hard hat	<input checked="" type="checkbox"/> Gloves	<input type="checkbox"/> Lockout/Tagout	<input type="checkbox"/> Warning Signs & Flagging		
242	Spencer	<input checked="" type="checkbox"/> H2S Monitor	<input type="checkbox"/> Eye Protection	<input type="checkbox"/> Required Permits	<input type="checkbox"/> Fall Protection		
		<input checked="" type="checkbox"/> Safety Footwear	<input type="checkbox"/> Respiratory Protection	<input checked="" type="checkbox"/> Slip/Trip/Fall Hazards	<input checked="" type="checkbox"/> Specific Job Sequence/Expectations		
		<input checked="" type="checkbox"/> FRC/Protective Clothing	<input type="checkbox"/> Additional Chemical/Acid PPE	<input checked="" type="checkbox"/> Overhead Hazards	<input checked="" type="checkbox"/> Muster Point/Medical Locations		
		<input checked="" type="checkbox"/> Hearing Protection	<input checked="" type="checkbox"/> Fire Extinguisher	<input type="checkbox"/> Additional concerns or issues noted below			
Comments							
Product/Service Code							
		Description	Unit of Measure	Quantity	Net Amount		
CP015	H-325		sack	190.00	\$3,344.00		
M015	Light Equipment Mileage		mi	30.00	\$52.80		
M010	Heavy Equipment Mileage		mi	30.00	\$105.60		
M020	Ton Mileage		tm	269.00	\$355.08		
D010	Depth Charge: 0'-500'		job	1.00	\$880.00		
Customer Section: On the following scale how would you rate Hurricane Services Inc.?							
				Total Taxable	\$ -	Tax Rate:	
						Net:	
						\$4,737.48	
Based on this job, how likely is it you would recommend HSI to a colleague?						Sale Tax:	
<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>						\$ -	
Unlikely 1 2 3 4 5 6 7 8 9 10 Extremely Likely						Total:	
						\$ 4,737.48	
HSI Representative:							

TERMS: Cash in advance unless Hurricane Services Inc. (HSI) has approved credit prior to sale. Credit terms of sale for approved accounts are total invoice due on or before the 30th day from the date of invoice. Past due accounts shall pay interest on the balance past due at the rate of 1 3/4% per month or the maximum allowable by applicable state or federal laws. In the event it is necessary to employ an agency and/or attorney to affect the collection, Customer hereby agrees to pay all fees directly or indirectly incurred for such collection. In the event that Customer's account with HSI becomes delinquent, HSI has the right to revoke any discounts previously applied in arriving at net invoice price. Upon revocation, the full invoice price without discount is immediately due and subject to collection. Prices quoted are estimates only and are good for 30 days from the date of issue. Pricing does not include federal, state, or local taxes, or royalties and stated price adjustments. Actual charges may vary depending upon time, equipment, and material ultimately required to perform these services. Any discount is based on 30 days net payment terms or cash. **DISCLAIMER NOTICE:** Technical data is presented in good faith, but no warranty is stated or implied. HSI assumes no liability for advice or recommendations made concerning the results from the use of any product or service. The information presented is a best estimate of the actual results that may be achieved and should be used for comparison purposes and HSI makes no guarantee of future production performance. Customer represents and warrants that well and all associated equipment in acceptable condition to receive services by HSI. Likewise, the customer guarantees proper operational care of all customer owned equipment and property while HSI is on location performing services. The authorization below acknowledges the receipt and acceptance of all terms/conditions stated above, and Hurricane has been provided accurate well information in determining taxable services.

X _____ **CUSTOMER AUTHORIZATION SIGNATURE**



CEMENT TREATMENT REPORT					
Customer:	Darrah Oil Co	Well:	Bishop 1-17	Ticket:	WP 1594
City, State:		County:	Logan KS	Date:	7/14/2021
Field Rep:	JUAN	S-T-R:	17-12S-36W	Service:	Surface

Downhole Information		Calculated Slurry - Lead		Calculated Slurry - Tail	
Hole Size:	12 1/4 in	Blend:	H-325	Blend:	
Hole Depth:	260 ft	Weight:	14.8 ppg	Weight:	ppg
Casing Size:	8 5/8 in	Water / Sx:	6.9 gal / sx	Water / Sx:	gal / sx
Casing Depth:	257 ft	Yield:	1.41 ft ³ / sx	Yield:	ft ³ / sx
Tubing / Liner:	in	Annular Bbls / Ft.:	0.0735 bbls / ft.	Annular Bbls / Ft.:	bbls / ft.
Depth:	ft	Depth:	260 ft	Depth:	ft
Tool / Packer:		Annular Volume:	19.1 bbls	Annular Volume:	0 bbls
Tool Depth:	ft	Excess:		Excess:	
Displacement:	14.8 bbls	Total Slurry:	47.7 bbls	Total Slurry:	0.0 bbls
		Total Sacks:	190 sx	Total Sacks:	0 sx

TIME	RATE	PSI	BBLs	TOTAL BBLs	REMARKS
100A			-	-	ON LOCATION
110A				-	SAFETY MEETING/RIG UP
300A				-	CASING ON BOTTOM
305A				-	CIRCULATE
318A	5.0	250.0	5.0	5.0	H2O AHEAD
320A	7.0	200.0	47.7	52.7	CEMENT H-325 MIXED @ 14.8 PPG (MUD SCALE VERIFIED)
333A	5.0	275.0	14.8	67.5	DISPLACE H2O
337A				67.5	SHUT IN
345A				67.5	RIG DOWN
400A				67.5	LEFT LOCATION
				67.5	
					CIRCULATE 5 BBLs TO PIT

CREW		UNIT	SUMMARY		
Cementer:	Jimmie	180/520	Average Rate	Average Pressure	Total Fluid
Pump Operator:	Spencer	242	5.7 bpm	242 psi	67 bbls
Bulk #1:					
Bulk #2:					



HURRICANE SERVICES INC

Remit To: Hurricane Services, Inc.
250 N. Water, Suite 200
Wichita, KS 67202
316-303-9515

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Customer:
DARRAH OIL
C/O JOHN JAY DARRAH JR
PO BOX 2786
WICHITA, KS 67201-2786

Invoice Date: 7/21/2021
Invoice #: 0354323
Lease Name: Bishop
Well #: 1-17
County: Logan, Ks
Job Number: WP1630
District: Oakley

Date/Description	HRS/QTY	Rate	Total
PTA	0.000	0.000	0.00
Heavy Eq Mileage	30.000	3.520	105.60
Light Eq Mileage	30.000	1.760	52.80
Ton Mileage	330.000	1.320	435.60
Depth Charge 2001'-3000'	1.000	1,760.000	1,760.00
Wooden plug 8 5/8"	1.000	149.600	149.60
H-Plug	255.000	11.440	2,917.20

9208

Net Invoice	5,420.80
Sales Tax:	308.54
Total	5,729.34

TERMS: Net 30 days. Interest may be charged on past due invoice at rate of 1 1/2% per month or maximum allowed by applicable state or federal laws. HSI has right to revoke any discounts applied in arriving at net invoice price if invoice is past due. If revoked, full invoice price without discount plus additional sales tax, as applicable, is due immediately and subject to interest charges. Customer agrees to pay all collection costs directly or indirectly incurred by HSI in the event HSI engages a third party to pursue collection of past due invoice.

SALES TAX: Services performed on oil, gas and water wells in Kansas are subject to sales tax, with certain exceptions. HSI relies on the well information provided by the customer in identifying whether the services performed on wells qualify for exemption.

WE APPRECIATE YOUR BUSINESS!



Customer		Darrah Oil Co		Lease & Well #		Bishop # 1- 17		Date		7/21/2021					
Service District		Oakley KS		County & State		Logan KS		Legals S/T/R		17-12S-36W					
Job Type		PTA		<input checked="" type="checkbox"/> PROD <input type="checkbox"/> INJ <input type="checkbox"/> SWD		Legals S/T/R New Well?		<input checked="" type="checkbox"/> YES <input type="checkbox"/> No		Job #					
Equipment #		Driver		Job Safety Analysis - A Discussion of Hazards & Safety Procedures								Ticket #		WP 1630	
73		Josh		<input checked="" type="checkbox"/> Hard hat		<input checked="" type="checkbox"/> Gloves		<input checked="" type="checkbox"/> Lockout/Tagout		<input checked="" type="checkbox"/> Warning Signs & Flagging					
208		John		<input checked="" type="checkbox"/> H2S Monitor		<input checked="" type="checkbox"/> Eye Protection		<input checked="" type="checkbox"/> Required Permits		<input checked="" type="checkbox"/> Fall Protection					
194/254		Jesse		<input checked="" type="checkbox"/> Safety Footwear		<input checked="" type="checkbox"/> Respiratory Protection		<input checked="" type="checkbox"/> Slip/Trip/Fall Hazards		<input type="checkbox"/> Specific Job Sequence/Expectations					
				<input checked="" type="checkbox"/> FRC/Protective Clothing		<input type="checkbox"/> Additional Chemical/Acid PPE		<input checked="" type="checkbox"/> Overhead Hazards		<input checked="" type="checkbox"/> Muster Point/Medical Locations					
				<input checked="" type="checkbox"/> Hearing Protection		<input checked="" type="checkbox"/> Fire Extinguisher		<input type="checkbox"/> Additional concerns or issues noted below							
Comments															

Product/Service Code	Description	Unit of Measure	Quantity	List Price/Unit	Gross Amount	Item Discount	Net Amount
M010	Heavy Equipment Mileage	mi	30.00				\$105.60
M015	Light Equipment Mileage	mi	30.00				\$52.80
M020	Ton Mileage	tm	330.00				\$435.60
D013	Depth Charge: 2001'-3000'	job	1.00				\$1,760.00
CP055	H-Plug	sack	255.00				\$2,917.20
FE290	8 5/8" Wooden Plug	ea	1.00				\$149.80

Customer Section: On the following scale how would you rate Hurricane Services Inc.?				Gross:		Net:		\$5,420.80	
				Total Taxable \$ -		Tax Rate:			
Based on this job, how likely is it you would recommend HSI to a colleague? <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>				State tax laws deem certain products and services used on new wells to be sales tax exempt. Hurricane Services relies on the customer provided well information above to make a determination if services and/or products are tax exempt.		Sale Tax:		\$ -	
Unlikely 1 2 3 4 5 6 7 8 9 10 Extremely Likely						Total:		\$ 5,420.80	
				HSI Representative: <i>Josh Mosler</i>					

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X _____ CUSTOMER AUTHORIZATION SIGNATURE



CEMENT TREATMENT REPORT					
Customer:	Darrah Oil Co	Well:	Bishop # 1- 17	Ticket:	WP 1630
City, State:	Oakley KS	County:	Logan KS	Date:	7/21/2021
Field Rep:	Josh Mosier	S-T-R:	17-12S-36W	Service:	PTA

Downhole Information Hole Size: 7.875 in Hole Depth: 4792 ft Casing Size: in Casing Depth: ft Tubing / Liner: in Depth: ft Tool / Packer: Tool Depth: ft Displacement: bbls	Calculated Slurry - Lead Blend: H- Plug Weight: 13.8 ppg Water / Sx: 6.9 gal / sx Yield: 1.42 ft ³ / sx Annular Bbls / Ft.: 0.0406 bbs / ft. Depth: 2550 ft Annular Volume: 103.5 bbls Excess: Total Slurry: 64.4 bbls Total Sacks: 255 sx	Calculated Slurry - Tail Blend: Weight: ppg Water / Sx: gal / sx Yield: ft ³ / sx Annular Bbls / Ft.: bbs / ft. Depth: ft Annular Volume: 0 bbls Excess: Total Slurry: 0.0 bbls Total Sacks: 0 sx
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TIME	RATE	PSI	BBLs	TOTAL BBLs	REMARKS
1200A			-	-	GOT TO LOCATION
1205A			-	-	SAFETY MEETING
1210A			-	-	RIGGED UP TRUCKS
1215A	3.0	200.0	5.0	5.0	PUMPED 5 BBL OF H2O AHEAD
1217A	4.2	500.0	12.6	17.6	PUMPED 50 SKS OF H- PLUG @ 2550 FT
1220A	4.0	250.0	31.8	49.4	DISPLACED WITH H2O
1252A	3.5	250.0	25.2	74.6	PUMPED 100 SKS OF H- PLUG @ 1500 FT
1259A	4.0	150.0	12.4	87.0	DISPLACED WITH H2O
137A	6.3	200.0	12.6	99.6	PUMPED 50 SKS OF H- PLUG @ 300 FT
140A	3.0	150.0	1.0	100.6	DISPLACED WITH H2O
210A	1.5	50.0	2.5	103.1	PUMPED 10 SKS OF H- PLUG IN TOP 40 FT OF CASING
214A	1.5	50.0	7.5		PUMPED 30 SKS OF H- PLUG IN RH
217A	1.5	50.0	3.7		PUMPED 15 SKS OF H - PLUG IN MH
225A					PLUG DOWN
230A					WASHED UP PUMP TRUCK
245A					RIGGED DOWN TRUCKS
300A					OFF LOCATION

CREW	UNIT	SUMMARY			
Cementer:	Josh	73	Average Rate	Average Pressure	Total Fluid
Pump Operator:	John	208	3.3 bpm	185 psi	114 bbls
Bulk #1:	Jesse	194/254			
Bulk #2:					



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Darrah Oil Co, LLC

17-12s-36w Logan,KS

124 N Market Ste 1425
Wichita, KS 67302

Bishop # 1-17

Job Ticket: 67490

DST#: 1

ATTN: Larry Nicholson

Test Start: 2021.07.20 @ 00:15:00

GENERAL INFORMATION:

Formation: **Johnson**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:52:30

Time Test Ended: 08:52:45

Test Type: Conventional Bottom Hole (Initial)

Tester: Bradley Walter

Unit No: 78

Interval: 4424.00 ft (KB) To 4558.00 ft (KB) (TVD)

Reference Elevations: 3162.00 ft (KB)

Total Depth: 4558.00 ft (KB) (TVD)

3151.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 11.00 ft

Serial #: 8874

Inside

Press@RunDepth: 35.26 psig @ 4425.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2021.07.20

End Date:

2021.07.20

Last Calib.:

2021.07.20

Start Time: 00:15:05

End Time:

08:52:45

Time On Btm:

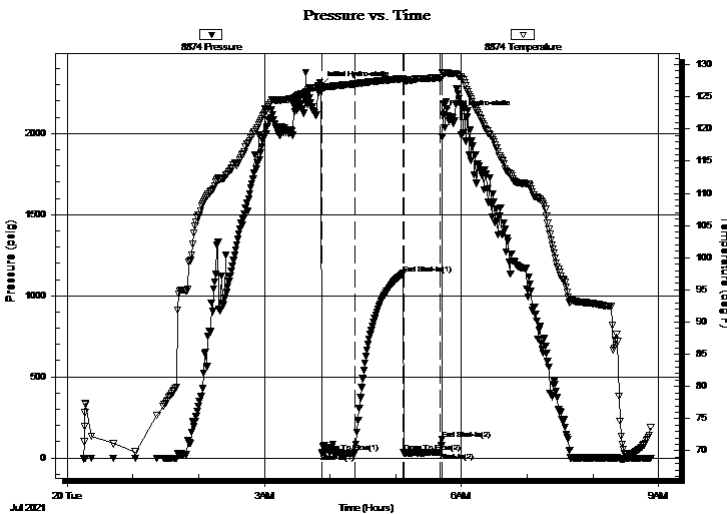
2021.07.20 @ 03:51:45

Time Off Btm:

2021.07.20 @ 05:43:00

TEST COMMENT: 30- IF: 1/2" blow .
45- IS: No return.
30- FF: No blow .
Pulled test.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2296.29	126.59	Initial Hydro-static
1	32.74	126.12	Open To Flow (1)
31	29.10	126.97	Shut-In(1)
75	1136.47	127.81	End Shut-In(1)
76	31.82	127.43	Open To Flow (2)
109	35.26	127.89	Shut-In(2)
111	114.22	127.97	End Shut-In(2)
112	2113.37	128.56	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
25.00	Mud 100m	0.12

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Darrah Oil Co, LLC

17-12s-36w Logan,KS

124 N Market Ste 1425
Wichita, KS 67302

Bishop # 1-17

Job Ticket: 67490

DST#: 1

ATTN: Larry Nicholson

Test Start: 2021.07.20 @ 00:15:00

GENERAL INFORMATION:

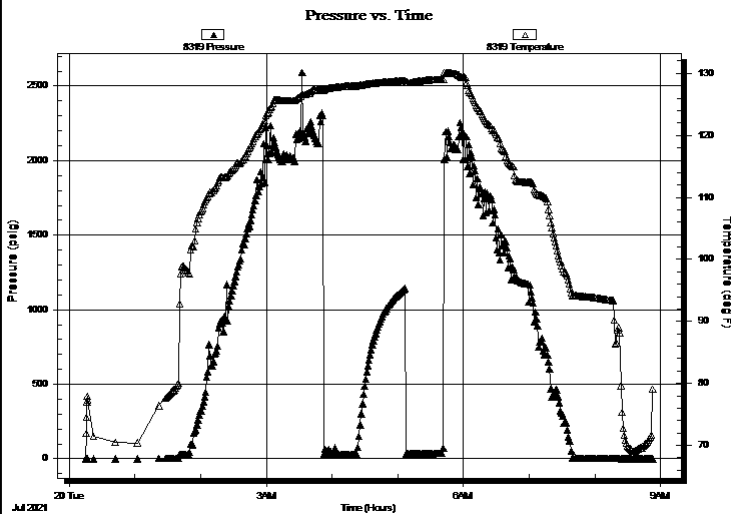
Formation: **Johnson**
 Deviated: No Whipstock: ft (KB) Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 03:52:30 Tester: Bradley Walter
 Time Test Ended: 08:52:45 Unit No: 78
Interval: 4424.00 ft (KB) To 4558.00 ft (KB) (TVD) Reference Elevations: 3162.00 ft (KB)
 Total Depth: 4558.00 ft (KB) (TVD) 3151.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 11.00 ft

Serial #: 8319

Outside

Press@RunDepth: psig @ 4425.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2021.07.20 End Date: 2021.07.20 Last Calib.: 2021.07.20
 Start Time: 00:15:05 End Time: 08:52:45 Time On Btm:
 Time Off Btm:

TEST COMMENT: 30- IF: 1/2" blow .
 45- IS: No return.
 30- FF: No blow .
 Pulled test.



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
25.00	Mud 100m	0.12

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Darrah Oil Co, LLC

17-12s-36w Logan,KS

124 N Market Ste 1425
Wichita, KS 67302

Bishop # 1-17

Job Ticket: 67490

DST#: 1

ATTN: Larry Nicholson

Test Start: 2021.07.20 @ 00:15:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 54.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.59 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
25.00	Mud 100m	0.123

Total Length: 25.00 ft Total Volume: 0.123 bbl

Num Fluid Samples: 0

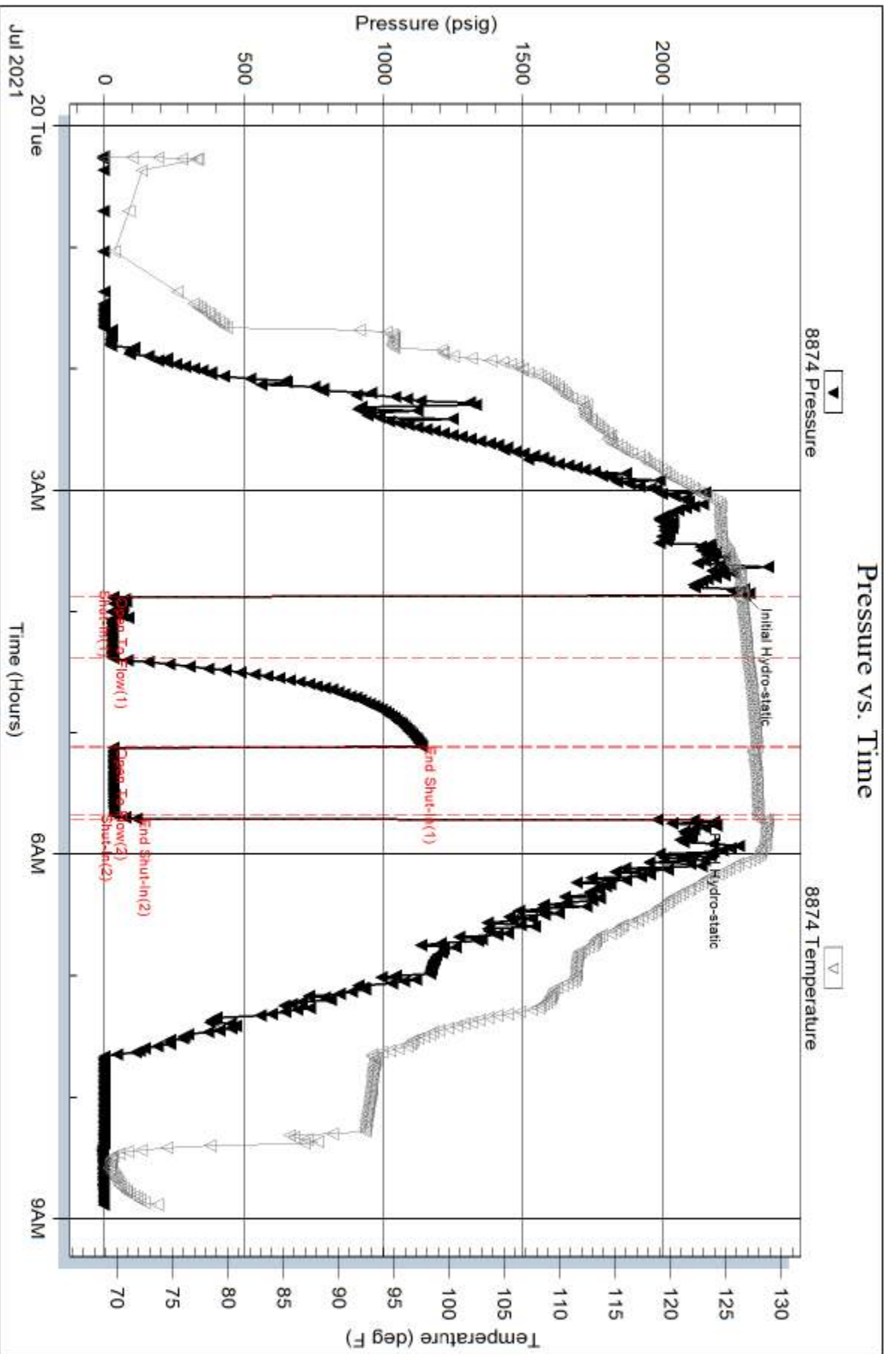
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

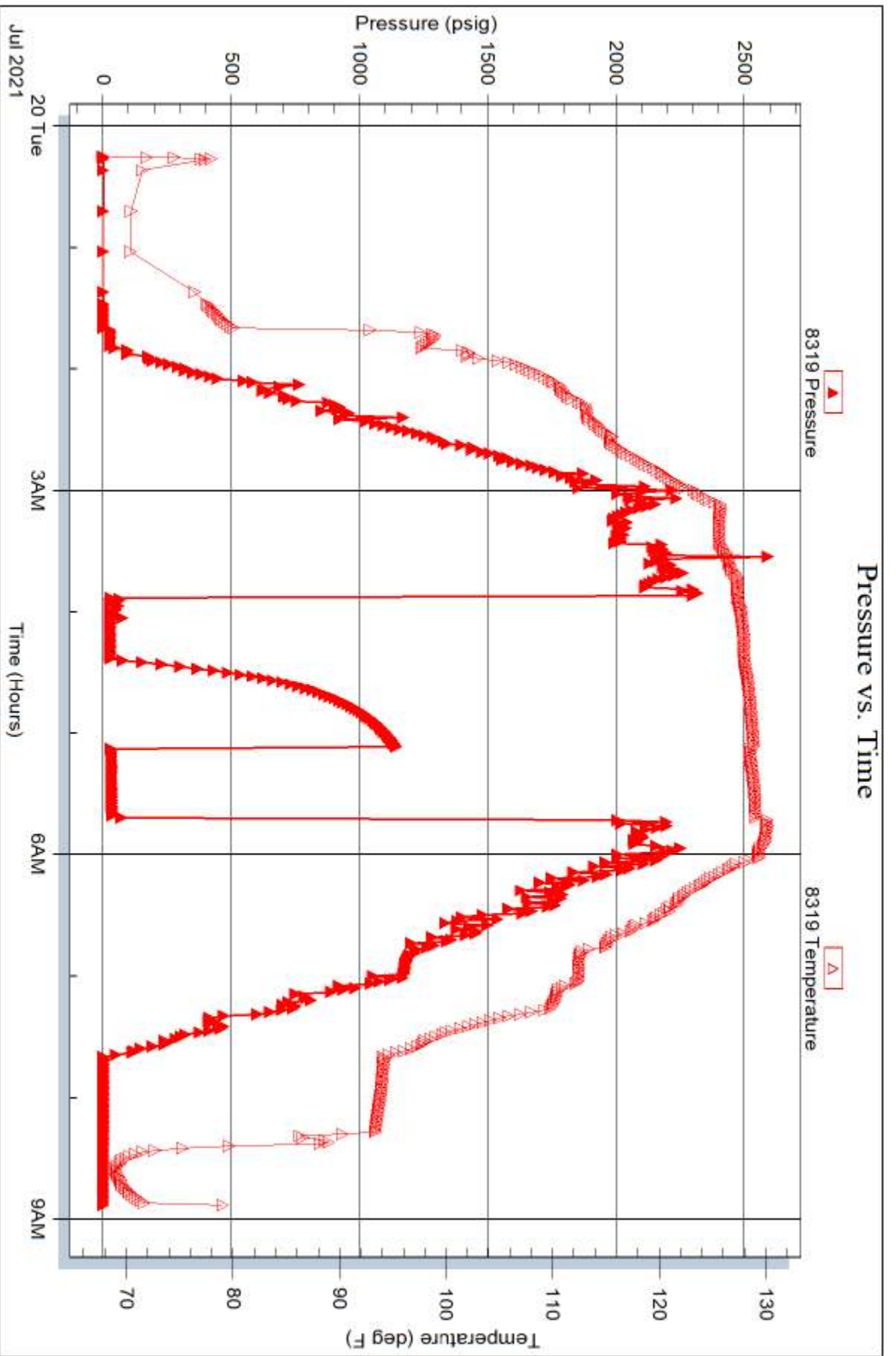


Serial #: 8319

Outside Darrah Oil Co. LLC

Bishop #1-17

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 67490

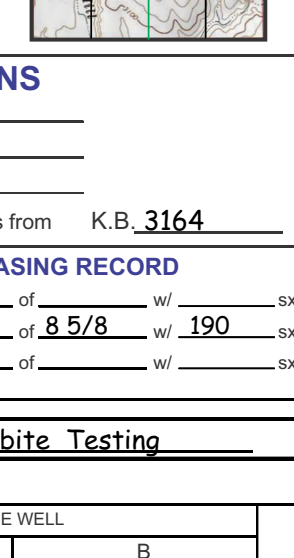
Printed: 2021.07.20 @ 09:25:21

GEOLOGICAL REPORT FINAL

Larry A. Nicholson

NAD 83
39161672
101335959

COMPANY **Durrah Oil Company LLC**
API # **15-109-21623**
LEASE **Bishop SW SW NE NE** WELL # **#1-17**
LOCATION **1292' FNL 1120' FEL SW SW NE**
SEC. **17** TWP. **12S** RGE. **36W**
COUNTY **Logan** STATE **KS**



CONTRACTOR **Murfin TP Luan** Rig # **21**
SPUD **8:45am 7-13-21** COMP. **LTD 4793**
RTD **4792 7:00am 7-21-21** LTD **4793**
MUD UPAT **3480**
MUD TYPE **Chemical Mud-Co LWD**
SAMPLER **3000** FROM **2500** TO **RTD**
DRILLING TIME **2500** FROM **2500** TO **RTD**
SAMPLER EXAMINED **2500** FROM **2500** TO **RTD**
GEOLOGICAL SUPERVISOR **LARRY NICHOLSON**
WELL SITE GEOLOGIST **LARRY NICHOLSON**

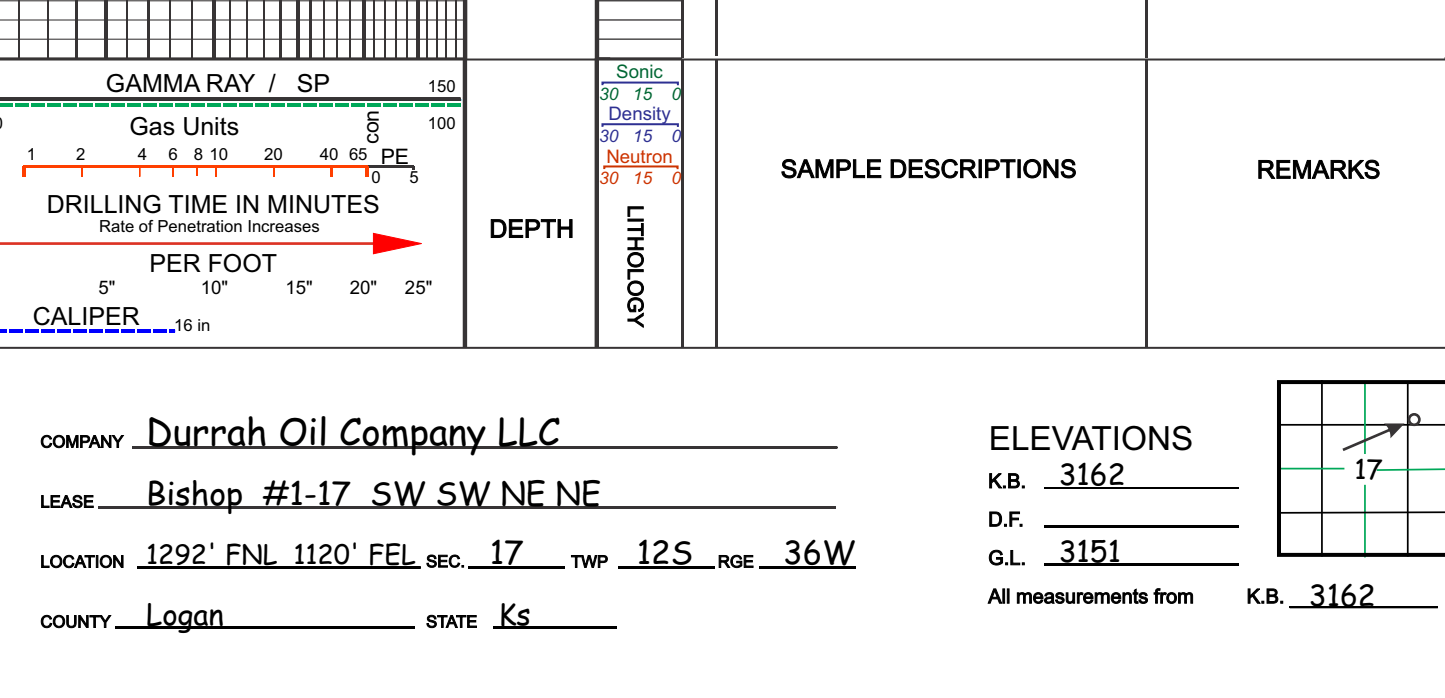
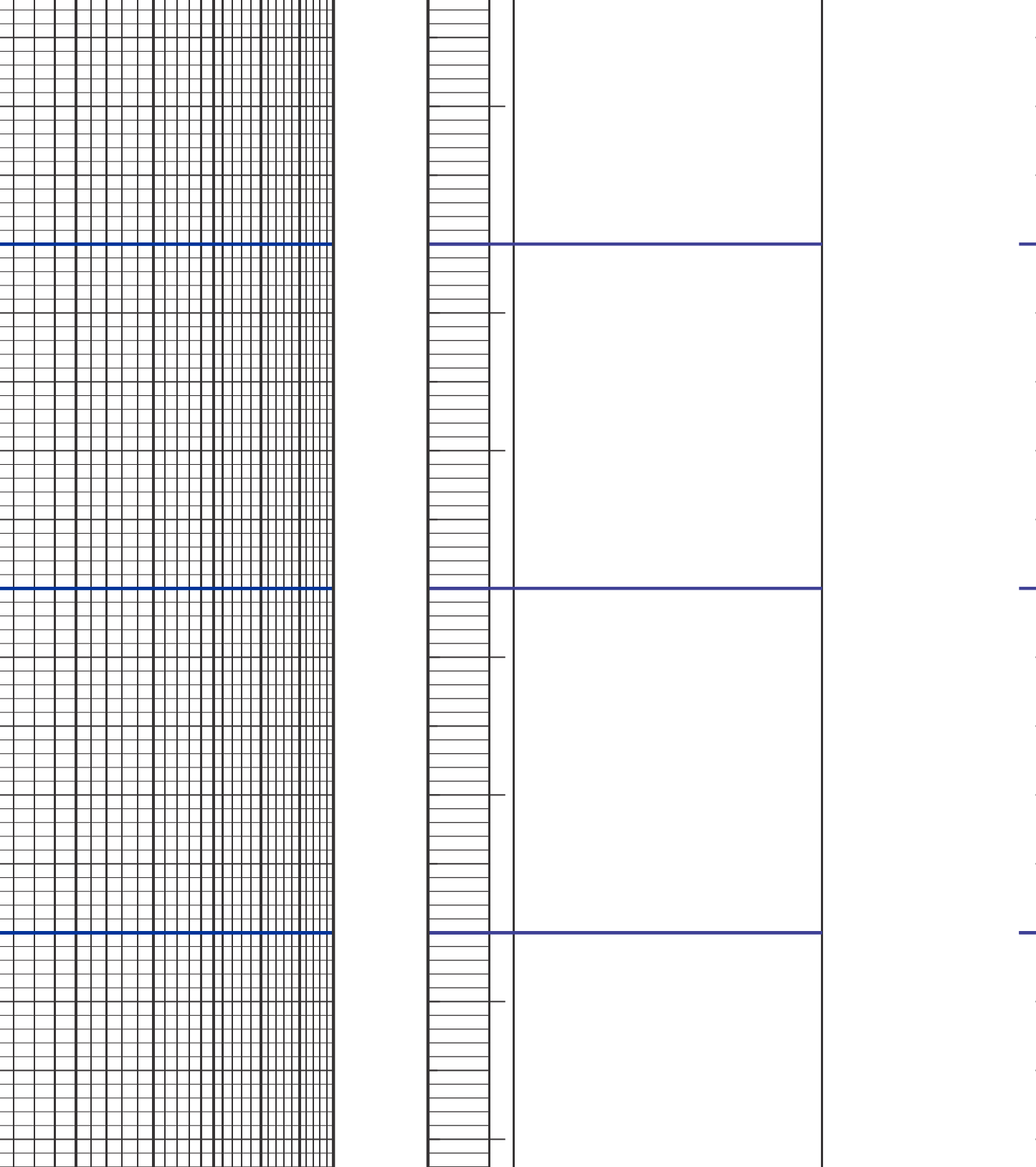
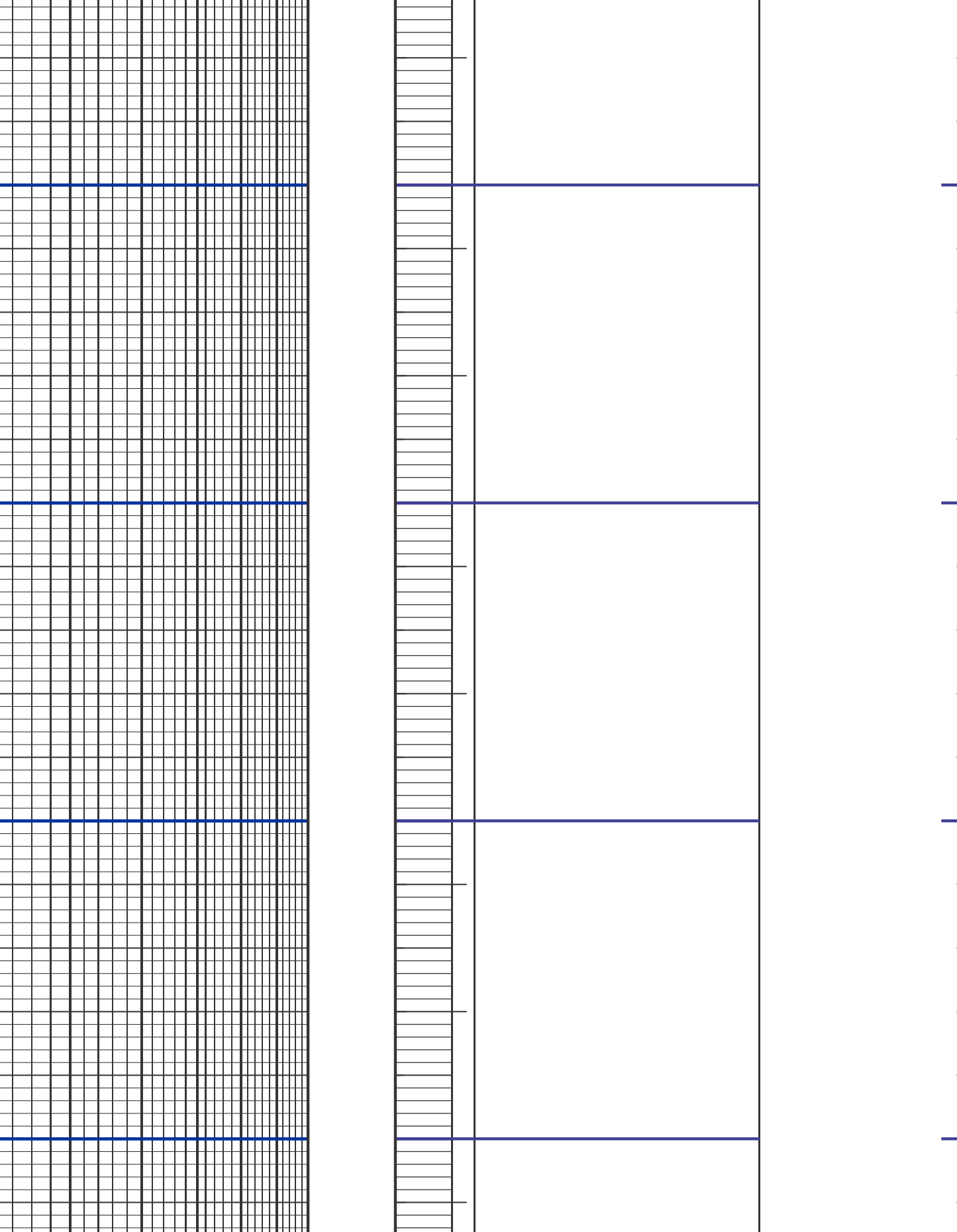
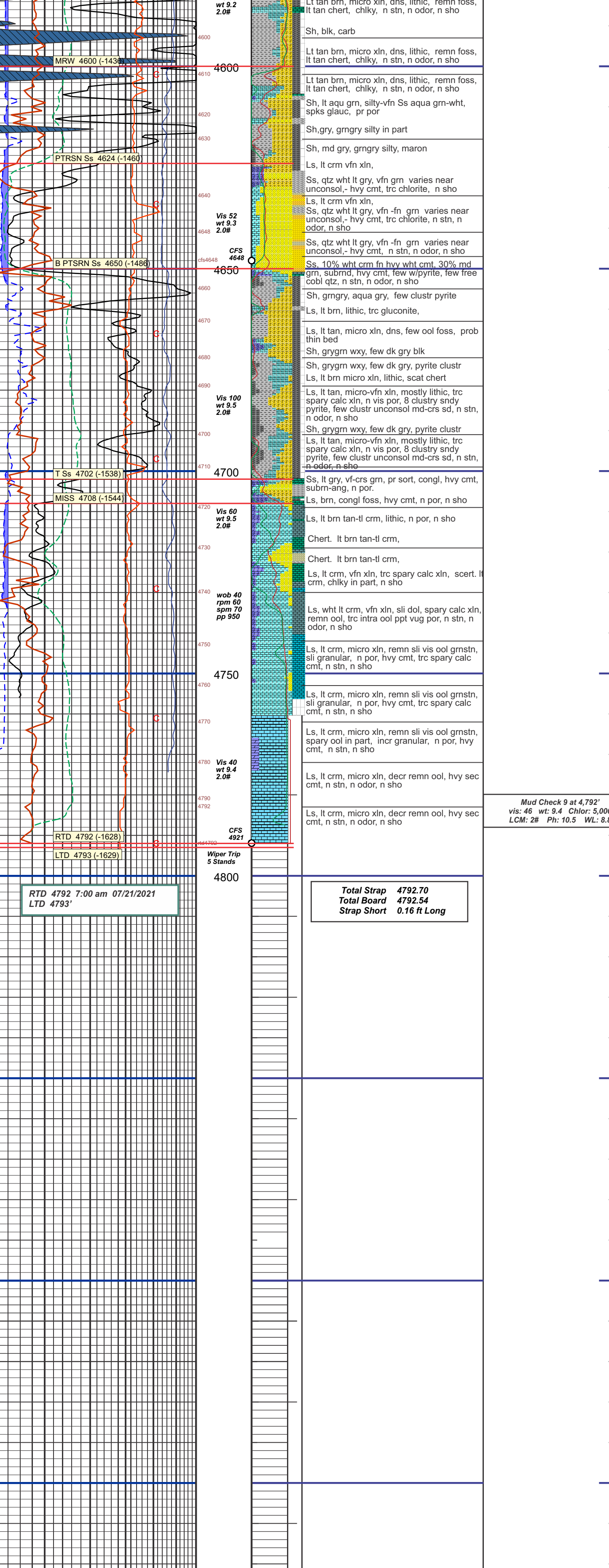
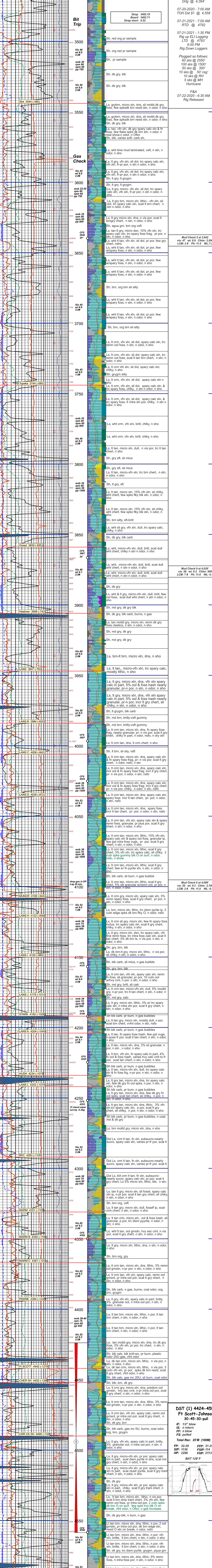
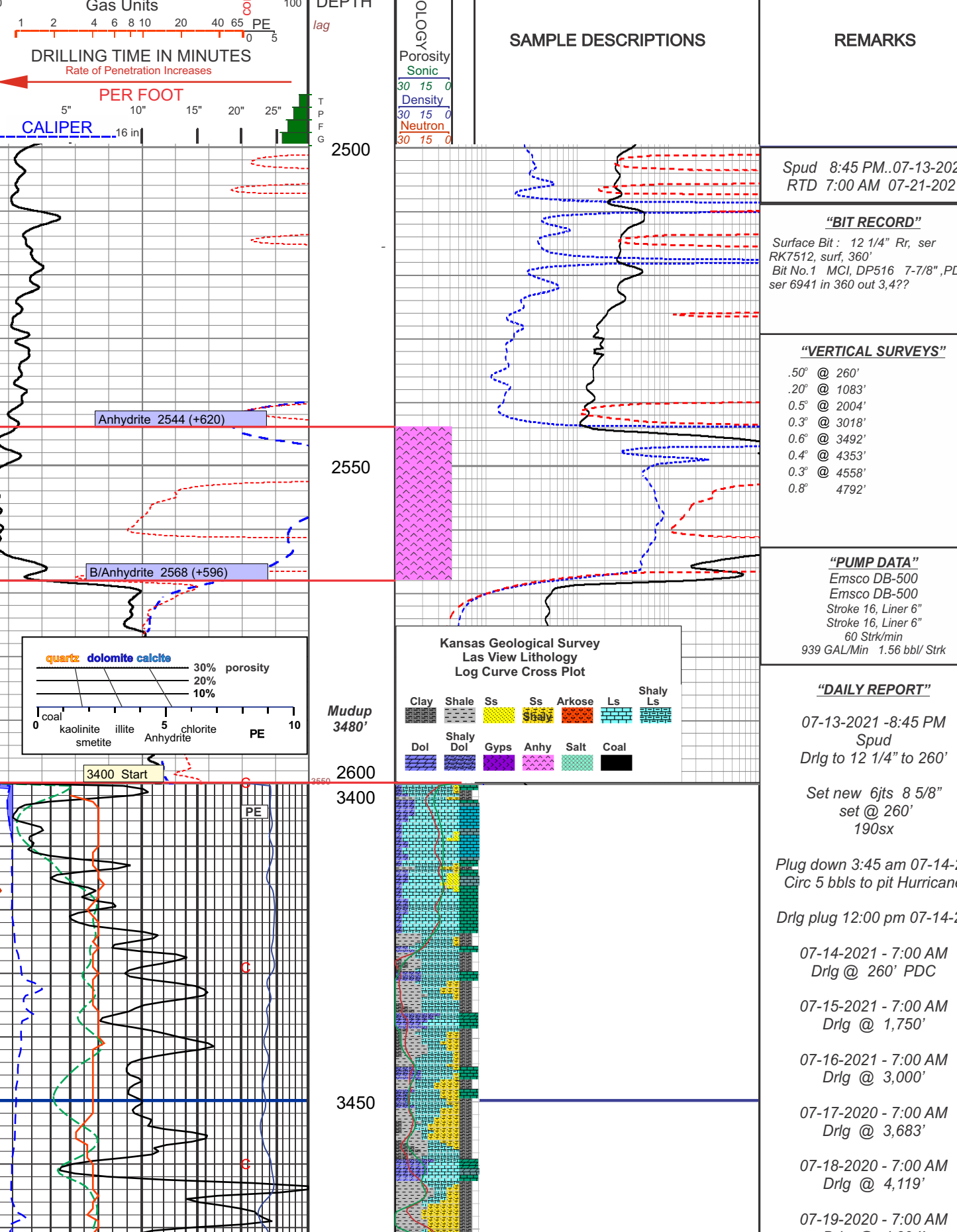
ELEVATIONS
K.B. **3164**
D.F. _____
G.L. **3151**
All measurements from K.B. **3164**

FORMATION TOPS & STRUCTURAL POSITION

FORMATION TOPS	SUBSEA DATUM	ELEV. LOG TOPS (DATE)	SUBSEA DATUM	REFERENCE WELL
SC		2544	A	
Togeka		3734	A	
Hebner		3906	-742	
STARK		4192	-1028	
BKC		4292	-1128	
MARM		4331	-1167	
PAWNE		4394	-1230	
Ft SCOTT		4442	-1279	
CHEK SH		4452	-1298	
MRSW		4600	-1544	
MTSS		4708	-1636	
RTD		4792	-1628	
LTD		4793	-1629	

DRILLSTEM TEST SUMMARY: 505' REMARKS & RECOMMENDATIONS:
Base on structural position, no shows.
no gas detector kicks, and
no gas shows.
the well tests PSA

LEGEND



COMPANY **Durrah Oil Company LLC**
LEASE **Bishop #1-17 SW SW NE NE**
LOCATION **1292' FNL 1120' FEL sec. 17** TWP. **12S** RGE. **36W**
COUNTY **Logan** STATE **Ks**

ELEVATIONS
K.B. **3162**
D.F. _____
G.L. **3151**
All measurements from K.B. **3162**



Total Strap **4792.70**
Total Board **4792.24**
Free Strap **6.14** Ft Long