

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	Landmark Resources, Inc.
Well Name	BARNHART UNIT 1-19
Doc ID	1678454

All Electric Logs Run

Dual Comp Porosity
Borehole Compensated
Dual Induction
Microresistivity

Form	ACO1 - Well Completion
Operator	Landmark Resources, Inc.
Well Name	BARNHART UNIT 1-19
Doc ID	1678454

Tops

Name	Top	Datum
Anhydrite	2445	722
B/Anhydrite	2464	704
Topeka	3772	-608
Heebner	4003	-852
Toronto	4020	-868
Lansing	4051	-900
C	4096	-944
D	4115	-958
E	4142	-996
F	4164	-1018
G	4186	-1042
Muncie Creek	4242	-1086
H	4256	-1097
I	4286	-1126
J	4328	-1162
Stark Shale	4348	-1192
K	4370	-1205
L	4398	-1243
BKC	4446	-1286
Marmaton	4502	-1344
Altamont	4532	-1370
Pawnee	4584	-1423
Myrick Station	4622	-1459
Fort Scott	4638	-1474

Form	ACO1 - Well Completion
Operator	Landmark Resources, Inc.
Well Name	BARNHART UNIT 1-19
Doc ID	1678454

Tops

Name	Top	Datum
Cherokee	4666	-1502
Johnson Zone	4716	-1565
Morrow Shale	4808	-1658
U Morrow Sd	4878	-1718
Missippian	4912	-1767



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

Customer:
 LANDMARK RESOURCES INC
 4900 WOODWAY DR
 SUITE 880
 HOUSTON, TX 77056

Invoice Date: 9/13/2022
 Invoice #: 0363280
 Lease Name: Barnhart
 Well #: 1-19
 County: Scott, Ks
 Job Number: WP3369
 District: Oakley

Date/Description	HRS/QTY	Rate	Total
Surface	0.000	0.000	0.00
H-325	215.000	22.500	4,837.50
Light Eq Mileage	60.000	2.000	120.00
Heavy Eq Mileage	120.000	4.000	480.00
Ton Mileage	609.000	1.500	913.50
Service Supervisor	1.000	275.000	275.00
Cement Blending & Mixing	215.000	1.400	301.00
Depth Charge 0'-500'	1.000	1,000.000	1,000.00

Total 7,927.00

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!



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

Customer:
 LANDMARK RESOURCES INC
 4900 WOODWAY DR
 SUITE 880
 HOUSTON, TX 77056

Invoice Date: 9/25/2022
 Invoice #: 0363704
 Lease Name: Barnhart
 Well #: 1-19 (New)
 County: Scott, Ks
 Job Number: WP3420
 District: Oakley

Date/Description	HRS/QTY	Rate	Total
2 Stage	0.000	0.000	0.00
H-Long	200.000	35.000	7,000.00
Cement Pozmix 60/40	485.000	15.000	7,275.00
Bentonite Gel	2,590.000	0.400	1,036.00
Cement Friction Reducer	75.000	8.000	600.00
Cement baskets 5 1/2"	2.000	300.000	600.00
5 1/2" Turbolizers	14.000	125.000	1,750.00
5 1/2" Floatshoe-Flapper AFU	1.000	375.000	375.00
5 1/2" 2 Stage DV Tool	1.000	5,000.000	5,000.00
5 1/2" LD Plug & Baffle	1.000	350.000	350.00
5 1/2" Stop Ring	2.000	30.000	60.00
Mud flush	500.000	1.000	500.00
Liquid Defoamer	2.000	50.000	100.00
Light Eq Mileage	60.000	2.000	120.00
Heavy Eq Mileage	180.000	4.000	720.00
Ton Mileage	1,818.000	1.500	2,727.00
Depth Charge 4001'-5000'	1.000	2,500.000	2,500.00
Cement Data Acquisition	1.000	250.000	250.00
Cement plug container	1.000	250.000	250.00
Cement Blending & Mixing	655.000	1.400	917.00
Service Supervisor	1.000	275.000	275.00
Total			32,405.00

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!



Customer	Landmark Resources	Lease & Well #	Barnhart Unit #1-19			Date	9/25/2022
Service District	Oakley KS	County & State	Scott KS	Legals S/T/R	19-17S-34W	Job #	
Job Type	2 Stage	<input checked="" type="checkbox"/> PROD <input type="checkbox"/> INJ <input type="checkbox"/> SWD	<input type="checkbox"/> New Well?	<input checked="" type="checkbox"/> YES <input type="checkbox"/> No		Ticket #	WP 3420

Equipment #	Driver	Job Safety Analysis - A Discussion of Hazards & Safety Procedures					
73	John	<input checked="" type="checkbox"/> Hard hat	<input checked="" type="checkbox"/> Gloves	<input type="checkbox"/> Lockout/Tagout	<input type="checkbox"/> Warning Signs & Flagging		
230	Jose V	<input checked="" type="checkbox"/> H2S Monitor	<input checked="" type="checkbox"/> Eye Protection	<input type="checkbox"/> Required Permits	<input type="checkbox"/> Fall Protection		
205	Florencio	<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		
194-235	Florencio	<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 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
CP030	H-Long	sack	200.00				\$7,000.00
CP070	60/40/2 Pozmix A	sack	485.00				\$7,275.00
CP095	Bentonite Gel	lb	2,590.00				\$1,036.00
CP133	Cement Friction Reducer	lb	75.00				\$600.00
FE130	5 1/2" Cement Basket	ea	2.00				\$600.00
FE135	5 1/2 Turbolizer	ea	14.00				\$1,750.00
FE145	5 1/2" Float Shoe - AFU Flapper Type	ea	1.00				\$375.00
FE150	5 1/2" DV Tool - 2 Stage	ea	1.00				\$5,000.00
FE170	5 1/2" Latch Down Plug & Baffle	ea	1.00				\$350.00
FE132	5 1/2" Stop Ring	ea	2.00				\$60.00
CP170	Mud Flush	gal	500.00				\$500.00
CP136	Liquid Defoamer	gal	2.00				\$100.00
M015	Light Equipment Mileage	mi	60.00				\$120.00
M010	Heavy Equipment Mileage	mi	180.00				\$720.00
M020	Ton Mileage	tm	1,818.00				\$2,727.00
D015	Depth Charge: 4001'-5000'	job	1.00				\$2,500.00
C035	Cement Data Acquisition	job	1.00				\$250.00
C050	Cement Plug Container	job	1.00				\$250.00
C060	Cement Blending & Mixing Service	sack	655.00				\$917.00
R061	Service Supervisor	day	1.00				\$275.00

Customer Section: On the following scale how would you rate Hurricane Services Inc.?				Net:	\$32,405.00
Based on this job, how likely is it you would recommend HSI to a colleague?				Total Taxable	\$ -
<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"/>				Tax Rate:	
Unlikely 1 2 3 4 5 6 7 8 9 10 Extremely Likely				Sale Tax:	\$ -
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.				Total:	\$ 32,405.00

HSI Representative: *John Polley*

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 1/2% 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

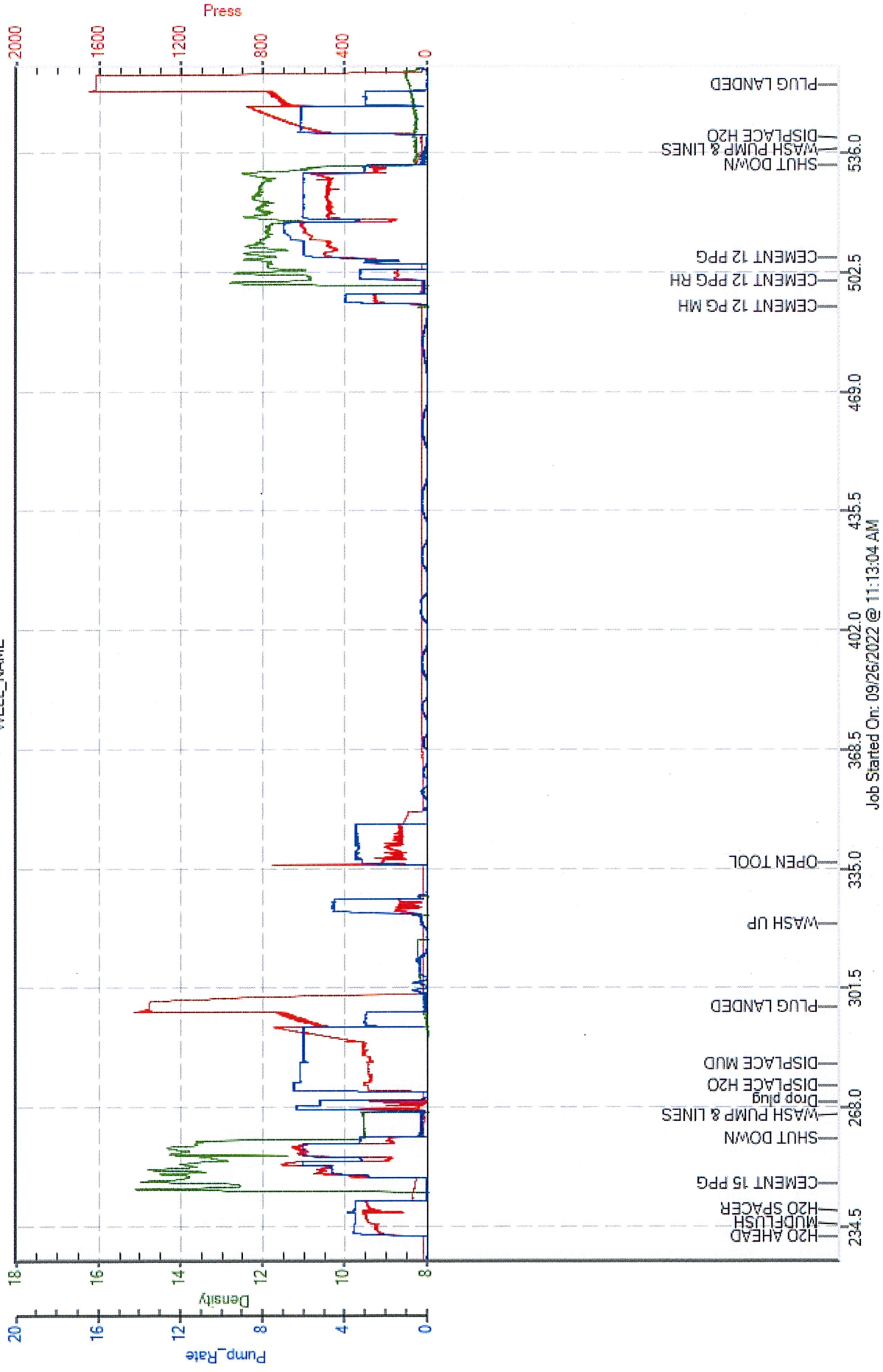
Customer: Landmark Resources	Well: Barnhart Unit #1-19	Ticket: WP 3420
City, State: Pence KS	County: Scott KS	Date: 9/25/2022
Field Rep: Butch Drylie	S-T-R: 19-17S-34W	Service: 2 Stage

Downhole Information		Calculated Slurry - Lead		Calculated Slurry - Tail	
Hole Size:	7 7/8 in	Blend:	H-Long	Blend:	60/40/2 Pozmix A
Hole Depth:	5000 ft	Weight:	15.0 ppg	Weight:	13 ppg
Casing Size:	5 1/2 in	Water / Sx:	6.2 gal / sx	Water / Sx:	9.0 gal / sx
Casing Depth:	4984 ft	Yield:	1.36 ft ³ / sx	Yield:	1.73 ft ³ / sx
Tubing / Liner:	in	Annular Bbls / Ft.:	0.0309 bbs / ft.	Annular Bbls / Ft.:	0.0309 bbs / ft.
Depth:	ft	Depth:	4984 ft	Depth:	2431 ft
Tool / Packer:	DV Tool	Annular Volume:	154.0 bbls	Annular Volume:	75.1179 bbls
Tool Depth:	2431 ft	Excess:		Excess:	
Displacement:	117.8 bbls	Total Slurry:	48.4 bbls	Total Slurry:	149.4 bbls
		Total Sacks:	200 sx	Total Sacks:	485 sx

TIME	RATE	PSI	BBLs	TOTAL BBLs	REMARKS
8:20 PM			-	-	Arrived on location
8:30 PM				-	Safety meeting
8:40 PM				-	Rigged up
8:50 PM				-	Put DV Tool on between joints 61-62 @ 2431'
9:50 PM				-	Casing on bottom
10:17 PM				-	Dropped ball and circulated mud 1 1/2 hours
11:54 PM	3.6	220.0	10.0	10.0	Water ahead
11:57 PM	3.5	280.0	12.0	22.0	Pumped 500 gallons mud flush
12:01 AM	3.5	290.0	10.0	32.0	Water behind
12:10 AM	5.3	575.0	48.4	80.4	Mixed 200 sacks H-Long cement @ 15.0 ppg
12:22 AM				80.4	Shut down, loaded plug, cleared lines and pump
12:34 AM	6.2	270.0	60.0		Begin water displacement
12:45 AM	6.0	300.0	47.8		Begin mud displacement
12:53 AM	3.0	500.0	10.0		Slowed pump down to 3 bpm @ 10 bbls to go
12:58 AM		1,350.0			Plug down @ 650 landing psi and 1350 bump psi
1:00 AM					Released pressure plug held with .7 bbl back to tank
1:10 AM					Dropped bomb and waited 20 minutes to fall
1:38 AM	2.5	800.0	0.3		Opened tool 2.5 bpm @ 800 psi with .25 bbl of mud
1:39 AM	3.0	200.0	5.0		Pumped remaining mud off tanks and washed out
1:55 AM					Begin mud circulation for 2 hours
4:16 AM	4.0	250.0	10.0		Water ahead
4:24 AM	3.2	150.0	9.2		Mixed 30 sacks cement for rat hole plug
4:28 AM	6.5	520.0	140.1		Mixed 455 sacks 60/40/2 Pozmix A cement @ 13.0 ppg
4:54 AM					Shut down, loaded plug, cleared lines and pump
5:04 AM	6.2	500.0	47.8		Begin displacement
5:13 AM	3.0	600.0	10.0		Slowed pump down to 3 bpm @ 10 bbls to go
5:17 AM		1,620.0			Plug down @ 750 landing psi and 1620 bump psi with 15 bbls cement circulated to pit

CREW		UNIT	SUMMARY		
Cementer:	John	73	Average Rate	Average Pressure	Total Fluid
Pump Operator:	Jose V	230	4.3 bpm	527 psi	421 bbls
Bulk #1:	Florencio	205			
Bulk #2:	Florencio	194-235			

Landmark
WELL_NAME





DRILL STEM TEST REPORT

Prepared For: **Landmark Resources Inc**

4900 Woodway Dr.
Houston, TX 77056

ATTN: Saman Sharifaie

Barnhart Unit #1-19

19-17S.-34W. Scott,KS

Start Date: 2022.09.16 @ 23:25:00

End Date: 2022.09.17 @ 08:24:40

Job Ticket #: 66086 DST #: 1

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2022.09.26 @ 11:14:56



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Landmark Resources Inc

19-17S.-34W. Scott,KS

4900 Woodway Dr.
Houston, TX 77056

Barnhart Unit #1-19

Job Ticket: 66086

DST#: 1

ATTN: Saman Sharifaie

Test Start: 2022.09.16 @ 23:25:00

GENERAL INFORMATION:

Formation: **LKC " C - D "**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 02:34:10

Time Test Ended: 08:24:40

Test Type: Conventional Bottom Hole (Initial)

Tester: Martine Salinas

Unit No: 82

Interval: 4078.00 ft (KB) To 4130.00 ft (KB) (TVD)

Reference Elevations: 3152.00 ft (KB)

Total Depth: 4130.00 ft (KB) (TVD)

3144.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

Serial #: 8734 Outside

Press@RunDepth: 143.63 psig @ 4079.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2022.09.16 End Date: 2022.09.17

Last Calib.: 2022.09.17

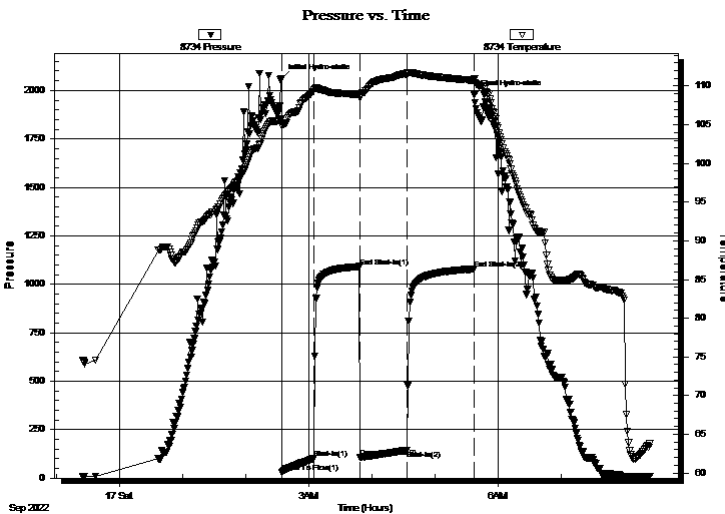
Start Time: 23:25:01 End Time: 08:24:40

Time On Btm: 2022.09.17 @ 02:34:00

Time Off Btm: 2022.09.17 @ 05:37:30

TEST COMMENT: 30-ISI-1/4" blow built to 5"
45-ISI-No return
45-FF-Blow built to 3 3/4"
60-FSI-No return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2062.81	105.76	Initial Hydro-static
1	30.88	104.89	Open To Flow (1)
31	102.29	109.49	Shut-In(1)
75	1091.76	108.93	End Shut-In(1)
75	106.41	108.43	Open To Flow (2)
120	143.63	111.56	Shut-In(2)
184	1078.80	110.76	End Shut-In(2)
184	1977.20	110.93	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
270.00	MCW w/Oil specks 30%M, 70%W	2.18

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Landmark Resources Inc

19-17S.-34W. Scott,KS

4900 Woodway Dr.
Houston, TX 77056

Barnhart Unit #1-19

Job Ticket: 66086

DST#: 1

ATTN: Saman Sharifaie

Test Start: 2022.09.16 @ 23:25:00

Tool Information

Drill Pipe:	Length: 3900.00 ft	Diameter: 3.80 inches	Volume: 54.71 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 176.00 ft	Diameter: 2.25 inches	Volume: 0.87 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 55.58 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	31.00 ft			String Weight: Initial 56000.00 lb
Depth to Top Packer:	4078.00 ft			Final 56000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	52.00 ft			
Tool Length:	85.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4046.00	
Shut In Tool	5.00			4051.00	
Hydraulic tool	5.00	1113		4056.00	
Jars	5.00	01-07		4061.00	
EM Tool	5.00			4066.00	
Safety Joint	3.00	-001		4069.00	
Packer	5.00			4074.00	33.00 Bottom Of Top Packer
Packer	4.00			4078.00	
Stubb	1.00			4079.00	
Recorder	0.00	8959	Inside	4079.00	
Recorder	0.00	8734	Outside	4079.00	
Perforations	14.00			4093.00	
Change Over Sub	1.00			4094.00	
Drill Pipe	30.00			4124.00	
Change Over Sub	1.00			4125.00	
Bullnose	5.00			4130.00	52.00 Bottom Packers & Anchor
Total Tool Length:	85.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Landmark Resources Inc

19-17S.-34W. Scott,KS

4900 Woodway Dr.
Houston, TX 77056

Barnhart Unit #1-19

Job Ticket: 66086

DST#: 1

ATTN: Saman Sharifaie

Test Start: 2022.09.16 @ 23:25:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

36000 ppm

Viscosity: 70.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.38 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3100.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
270.00	MCW w/Oil specks 30%M, 70%W	2.184

Total Length: 270.00 ft Total Volume: 2.184 bbl

Num Fluid Samples: 0

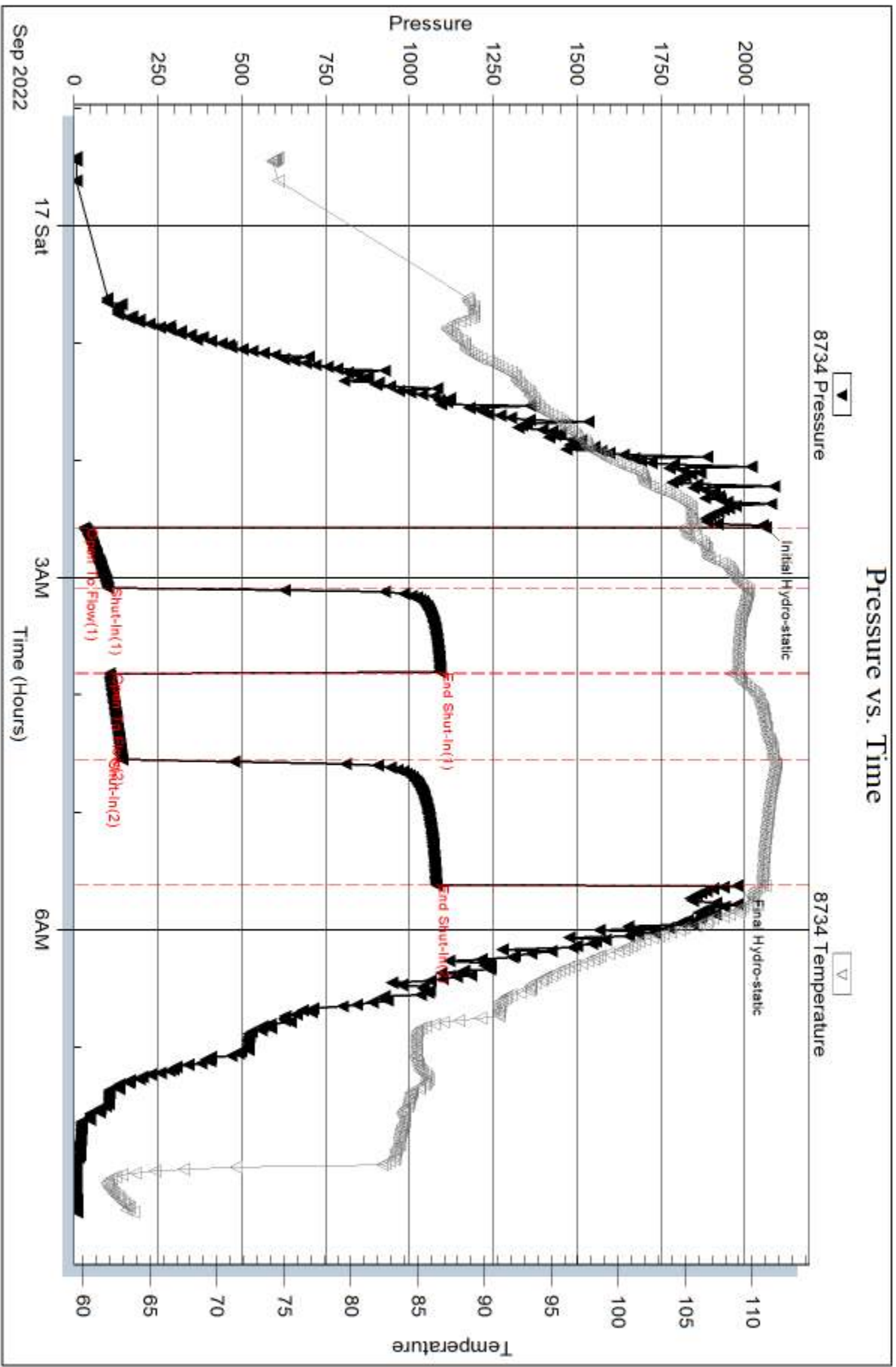
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW= .250 @ 57.5 degs = 36,000 PPM



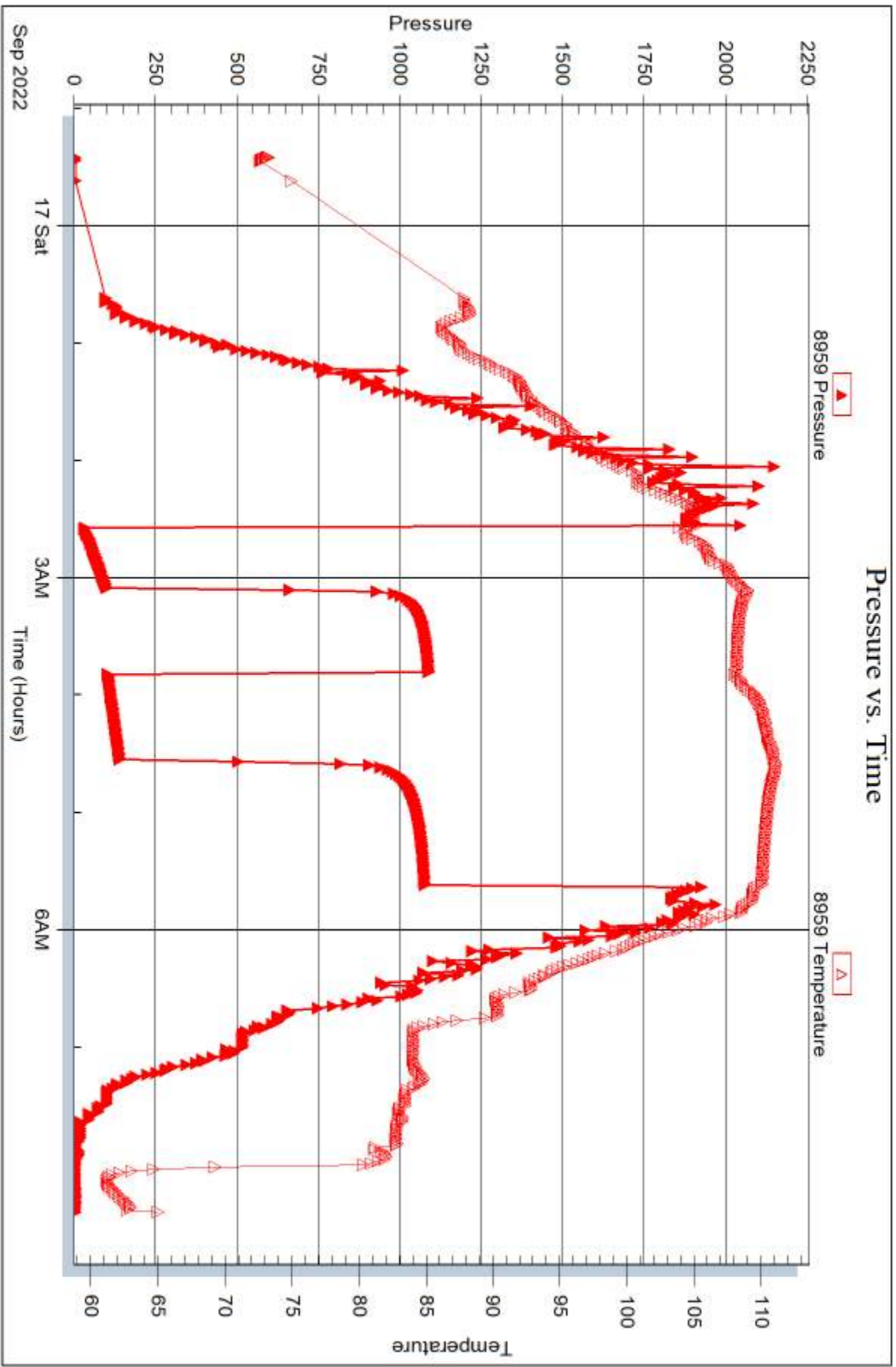
Serial #: 8959

Inside

Landmark Resources Inc

Barnhart Unit #1-19

DST Test Number: 1





DRILL STEM TEST REPORT

Prepared For: **Landmark Resources Inc**

4900 Woodway Dr.
Houston, TX 77056

ATTN: Saman Sharifaie

Barnhart Unit #1-19

19-17S.-34W. Scott,KS

Start Date: 2022.09.18 @ 21:05:00

End Date: 2022.09.19 @ 07:10:40

Job Ticket #: 66087 DST #: 2

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2022.09.26 @ 11:14:08



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Landmark Resources Inc

19-17S.-34W. Scott,KS

4900 Woodway Dr.
Houston, TX 77056

Barnhart Unit #1-19

Job Ticket: 66087

DST#: 2

ATTN: Saman Sharifaie

Test Start: 2022.09.18 @ 21:05:00

GENERAL INFORMATION:

Formation: **Marmaton**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 23:58:30

Time Test Ended: 07:10:40

Test Type: Conventional Bottom Hole (Reset)

Tester: Martine Salinas

Unit No: 82

Interval: 4446.00 ft (KB) To 4526.00 ft (KB) (TVD)

Reference Elevations: 3152.00 ft (KB)

Total Depth: 4526.00 ft (KB) (TVD)

3144.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

Serial #: 8734 Outside

Press@RunDepth: 570.47 psig @ 4447.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2022.09.18

End Date: 2022.09.19

Last Calib.: 2022.09.19

Start Time: 21:05:01

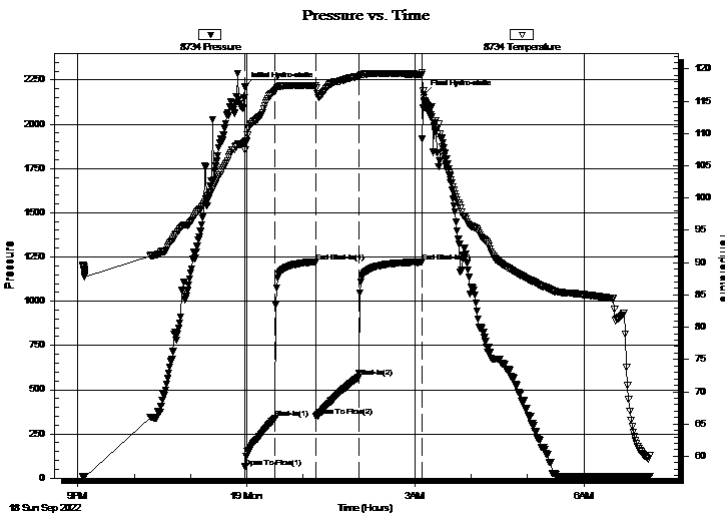
End Time: 07:10:40

Time On Btm: 2022.09.18 @ 23:58:20

Time Off Btm: 2022.09.19 @ 03:09:09

TEST COMMENT: 30-IF-B.O.B (11 inches) @ 6 mins (blow built to 58 1/4")
45-ISI-Return blow built to 8" & decreased to 6 1/2"
45-FF-B.O.B @ 7 mins (blow built to 53")
60-FSI-Return blow built to 3 1/2" & decreased to 2 1/2"

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2210.41	108.73	Initial Hydro-static
1	63.58	107.54	Open To Flow (1)
33	339.11	116.65	Shut-In(1)
76	1222.79	117.42	End Shut-In(1)
76	349.10	117.06	Open To Flow (2)
122	570.47	118.81	Shut-In(2)
190	1221.64	119.14	End Shut-In(2)
191	2168.16	115.53	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
740.00	GMCO 40%G,21%M,39%O	8.78
660.00	CGO 18%G, 82%O	9.26
0.00	300' GIP	0.00

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Landmark Resources Inc

19-17S.-34W. Scott,KS

4900 Woodway Dr.
Houston, TX 77056

Barnhart Unit #1-19

Job Ticket: 66087

DST#: 2

ATTN: Saman Sharifaie

Test Start: 2022.09.18 @ 21:05:00

Tool Information

Drill Pipe:	Length: 4242.00 ft	Diameter: 3.80 inches	Volume: 59.50 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 176.00 ft	Diameter: 2.25 inches	Volume: 0.87 bbl	Weight to Pull Loose: 74000.00 lb
			<u>Total Volume: 60.37 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	5.00 ft			String Weight: Initial 57000.00 lb
Depth to Top Packer:	4446.00 ft			Final 61000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	80.00 ft			
Tool Length:	113.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4414.00	
Shut In Tool	5.00			4419.00	
Hydraulic tool	5.00	1113		4424.00	
Jars	5.00	01-07		4429.00	
EM Tool	5.00			4434.00	
Safety Joint	3.00	-001		4437.00	
Packer	5.00			4442.00	33.00 Bottom Of Top Packer
Packer	4.00			4446.00	
Stubb	1.00			4447.00	
Recorder	0.00	8959	Inside	4447.00	
Recorder	0.00	8734	Outside	4447.00	
Perforations	9.00			4456.00	
Change Over Sub	1.00			4457.00	
Drill Pipe	63.00			4520.00	
Change Over Sub	1.00			4521.00	
Bullnose	5.00			4526.00	80.00 Bottom Packers & Anchor
Total Tool Length:	113.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Landmark Resources Inc

19-17S.-34W. Scott,KS

4900 Woodway Dr.
Houston, TX 77056

Barnhart Unit #1-19

Job Ticket: 66087

DST#: 2

ATTN: Saman Sharifaie

Test Start: 2022.09.18 @ 21:05:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

28 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 58.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.98 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4100.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
740.00	GMCO 40%G,21%M,39%O	8.777
660.00	CGO 18%G, 82%O	9.258
0.00	300' GIP	0.000

Total Length: 1400.00 ft Total Volume: 18.035 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

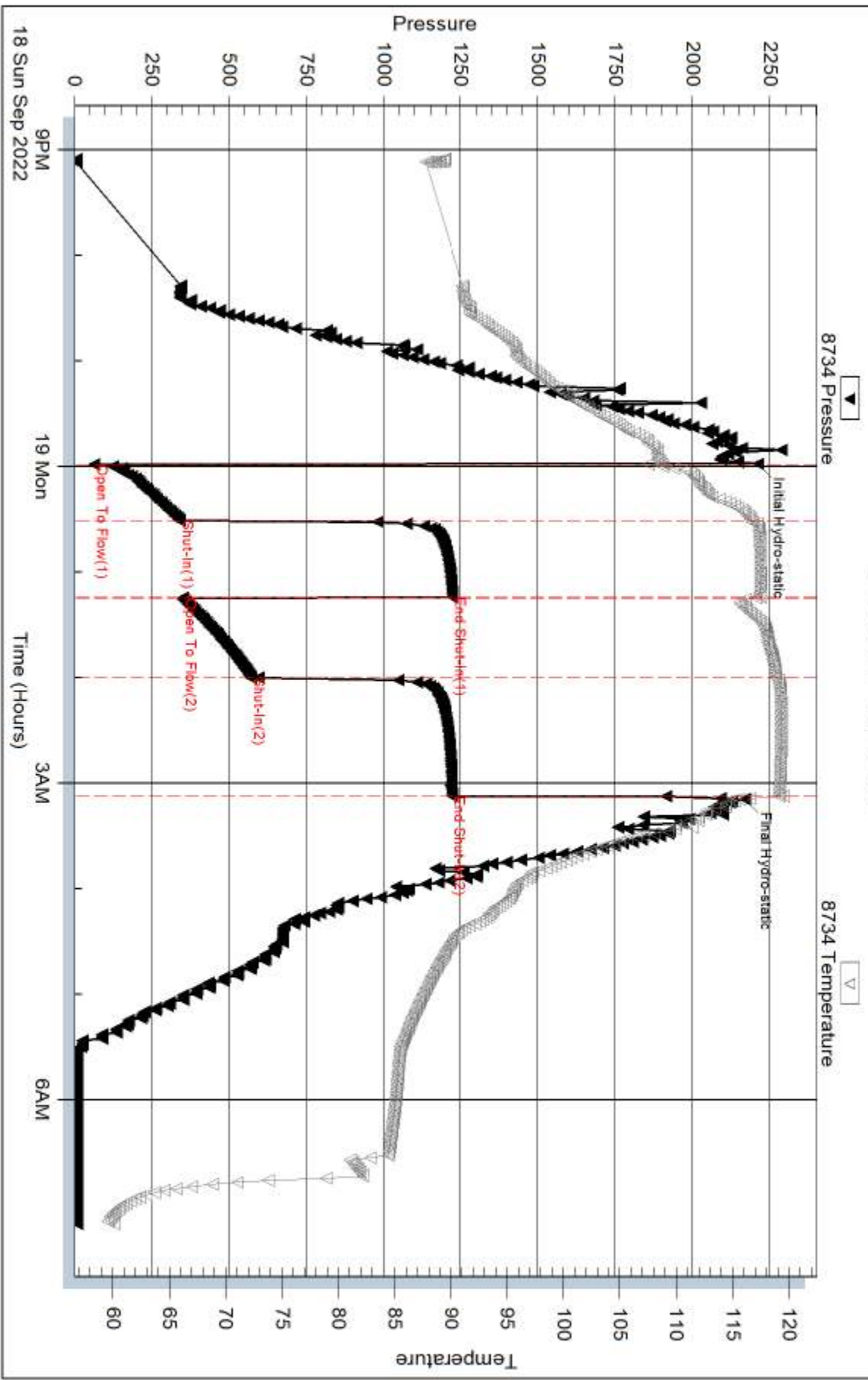
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Gravity of oil = 28.0 @ 60 degs

Pressure vs. Time



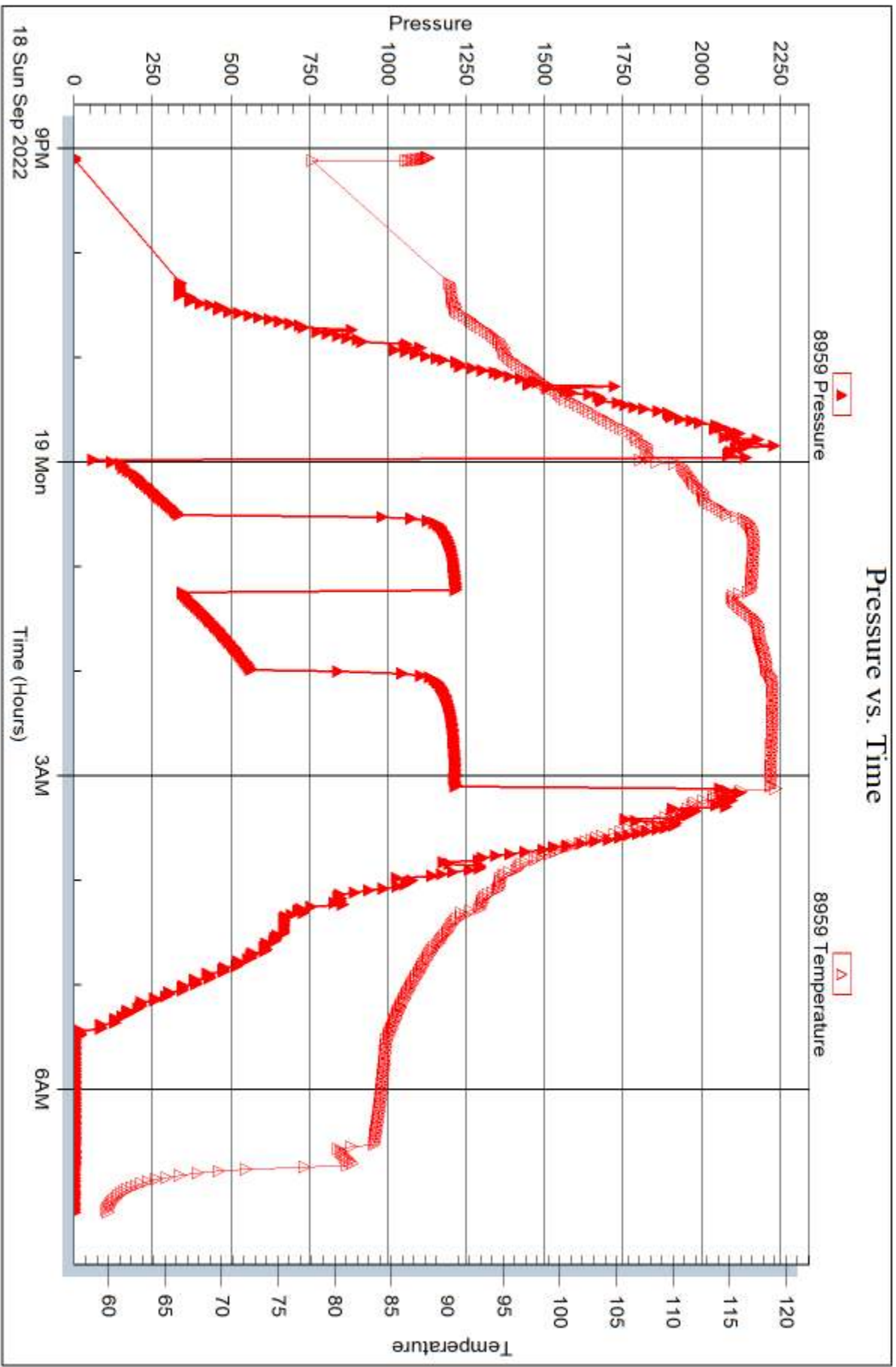
Serial #: 8959

Inside

Landmark Resources Inc

Barnhart Unit #1-19

DST Test Number: 2



Tribble Testing, Inc

Ref. No: 66087

Printed: 2022.09.26 @ 11:14:10



DRILL STEM TEST REPORT

Prepared For: **Landmark Resources Inc**

4900 Woodway Dr.
Houston, TX 77056

ATTN: Saman Sharifaie

Barnhart Unit #1-19

19-17S.-34W. Scott,KS

Start Date: 2022.09.19 @ 18:00:00

End Date: 2022.09.19 @ 20:27:20

Job Ticket #: 66088 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Printed: 2022.09.26 @ 11:13:41

Landmark Resources Inc

19-17S.-34W. Scott,KS

Barnhart Unit #1-19

DST # 3

Altamont

2022.09.19



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Landmark Resources Inc

19-17S.-34W. Scott,KS

4900 Woodway Dr.
Houston, TX 77056

Barnhart Unit #1-19

Job Ticket: 66088

DST#: 3

ATTN: Saman Sharifaie

Test Start: 2022.09.19 @ 18:00:00

Tool Information

Drill Pipe:	Length: 4336.00 ft	Diameter: 3.80 inches	Volume: 60.82 bbl	Tool Weight:	2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 inches	Volume: 0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 176.00 ft	Diameter: 2.25 inches	Volume: 0.87 bbl	Weight to Pull Loose:	0.00 lb
			<u>Total Volume: 61.69 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	19.00 ft			String Weight: Initial	68000.00 lb
Depth to Top Packer:	4526.00 ft			Final	68000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	44.00 ft				
Tool Length:	77.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			
Tool Comments:					

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4494.00	
Shut In Tool	5.00			4499.00	
Hydraulic tool	5.00	1113		4504.00	
Jars	5.00	01-07		4509.00	
EM Tool	5.00			4514.00	
Safety Joint	3.00	-001		4517.00	
Packer	5.00			4522.00	33.00 Bottom Of Top Packer
Packer	4.00			4526.00	
Stubb	1.00			4527.00	
Recorder	0.00	8959	Inside	4527.00	
Recorder	0.00	8734	Outside	4527.00	
Perforations	5.00			4532.00	
Change Over Sub	1.00			4533.00	
Drill Pipe	31.00			4564.00	
Change Over Sub	1.00			4565.00	
Bullnose	5.00			4570.00	44.00 Bottom Packers & Anchor
Total Tool Length:	77.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Landmark Resources Inc

19-17S.-34W. Scott,KS

4900 Woodway Dr.
Houston, TX 77056

Barnhart Unit #1-19

Job Ticket: 66088

DST#: 3

ATTN: Saman Sharifaie

Test Start: 2022.09.19 @ 18:00:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 54.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.78 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4500.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
0.00	Rig Repair...T.O.H to fix light plant	0.000

Total Length:

ft

Total Volume:

bbbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

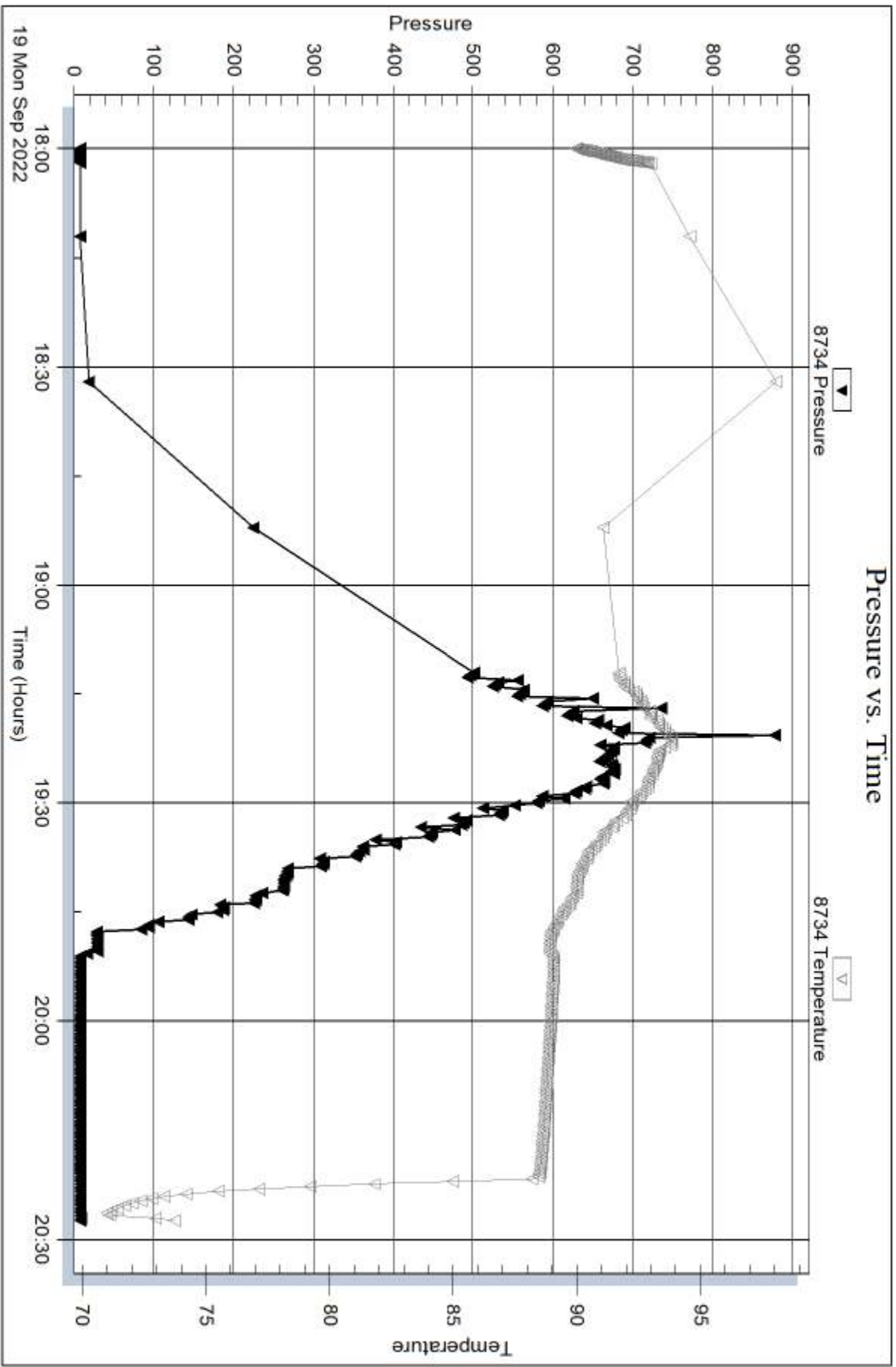
Recovery Comments:

Serial #: 8734

Outside Landmark Resources Inc

Barnhart Unit #1-19

DST Test Number: 3



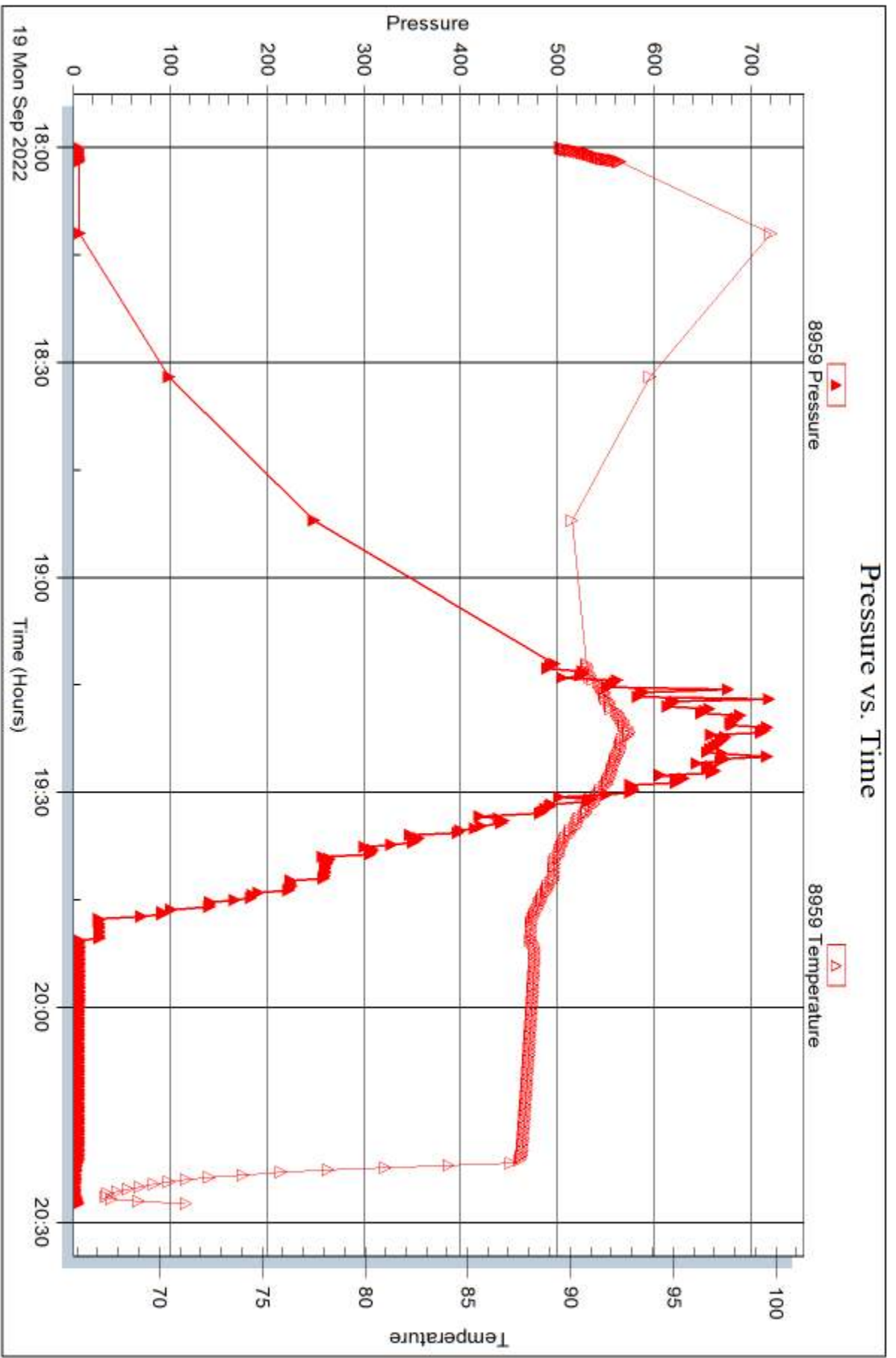
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Inside

Landmark Resources Inc

Barnhart Unit #1-19

DST Test Number: 3



Trilobite Testing, Inc

Ref. No: 66088

Printed: 2022.09.26 @ 11:13:42



DRILL STEM TEST REPORT

Prepared For: **Landmark Resources Inc**

4900 Woodway Dr.
Houston, TX 77056

ATTN: Saman Sharifaie

Barnhart Unit #1-19

19-17S.-34W. Scott,KS

Start Date: 2022.09.20 @ 13:35:00

End Date: 2022.09.20 @ 20:29:30

Job Ticket #: 66089 DST #: 4

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Printed: 2022.09.26 @ 11:13:06

Landmark Resources Inc

19-17S.-34W. Scott,KS

Barnhart Unit #1-19

DST # 4

Altamont

2022.09.20



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Landmark Resources Inc
 4900 Woodway Dr.
 Houston, TX 77056
 ATTN: Saman Sharifaie

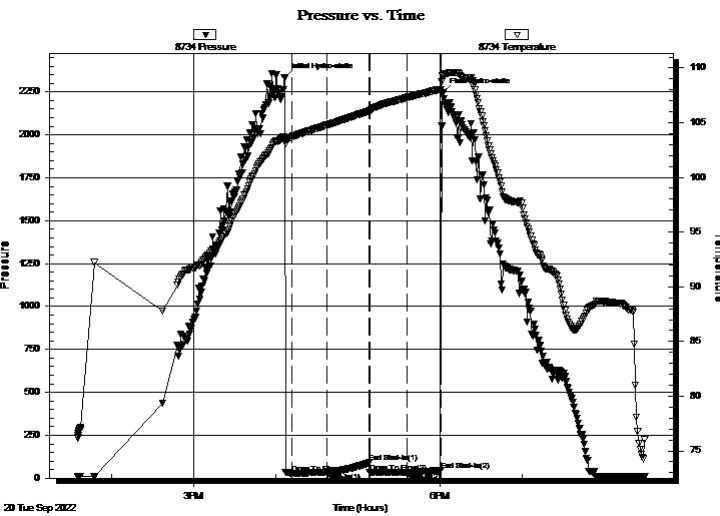
19-17S.-34W. Scott,KS
Barnhart Unit #1-19
 Job Ticket: 66089 **DST#: 4**
 Test Start: 2022.09.20 @ 13:35:00

GENERAL INFORMATION:

Formation: **Altamont**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 16:11:50
 Time Test Ended: 20:29:30
 Interval: **4526.00 ft (KB) To 4570.00 ft (KB) (TVD)**
 Total Depth: 4570.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Martine Salinas
 Unit No: 82
 Reference Elevations: 3152.00 ft (KB)
 3144.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 8734 Outside
 Press@RunDepth: 33.49 psig @ 4527.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2022.09.20 End Date: 2022.09.20 Last Calib.: 2022.09.20
 Start Time: 13:35:01 End Time: 20:29:30 Time On Btm: 2022.09.20 @ 16:06:30
 Time Off Btm: 2022.09.20 @ 18:01:39

TEST COMMENT: 30-IF- Weak surface bubbles dead @ 5 mins
 30-ISI-No return
 30-FF-No blow
 30-FSI-No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2330.66	103.52	Initial Hydro-static
6	26.76	103.70	Open To Flow (1)
31	33.27	104.77	Shut-In(1)
62	89.86	106.05	End Shut-In(1)
62	32.33	106.06	Open To Flow (2)
90	33.49	107.29	Shut-In(2)
114	45.43	108.06	End Shut-In(2)
116	2246.32	109.29	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	OCM 15%O, 85%M	0.02

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Landmark Resources Inc

19-17S.-34W. Scott,KS

4900 Woodway Dr.
Houston, TX 77056

Barnhart Unit #1-19

Job Ticket: 66089

DST#: 4

ATTN: Saman Sharifaie

Test Start: 2022.09.20 @ 13:35:00

Tool Information

Drill Pipe:	Length: 4336.00 ft	Diameter: 3.80 inches	Volume: 60.82 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 176.00 ft	Diameter: 2.25 inches	Volume: 0.87 bbl	Weight to Pull Loose: 65000.00 lb
			<u>Total Volume: 61.69 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	19.00 ft			String Weight: Initial 57000.00 lb
Depth to Top Packer:	4526.00 ft			Final 57000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	44.00 ft			
Tool Length:	77.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4494.00	
Shut In Tool	5.00			4499.00	
Hydraulic tool	5.00	1113		4504.00	
Jars	5.00	01-07		4509.00	
EM Tool	5.00			4514.00	
Safety Joint	3.00	-001		4517.00	
Packer	5.00			4522.00	33.00 Bottom Of Top Packer
Packer	4.00			4526.00	
Stubb	1.00			4527.00	
Recorder	0.00	8959	Inside	4527.00	
Recorder	0.00	8734	Outside	4527.00	
Perforations	5.00			4532.00	
Change Over Sub	1.00			4533.00	
Drill Pipe	31.00			4564.00	
Change Over Sub	1.00			4565.00	
Bullnose	5.00			4570.00	44.00 Bottom Packers & Anchor
Total Tool Length:	77.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Landmark Resources Inc

19-17S.-34W. Scott,KS

4900 Woodway Dr.
Houston, TX 77056

Barnhart Unit #1-19

Job Ticket: 66089

DST#: 4

ATTN: Saman Sharifaie

Test Start: 2022.09.20 @ 13:35:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 54.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.58 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5500.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	OCM 15%O, 85%M	0.025

Total Length: 5.00 ft Total Volume: 0.025 bbl

Num Fluid Samples: 0

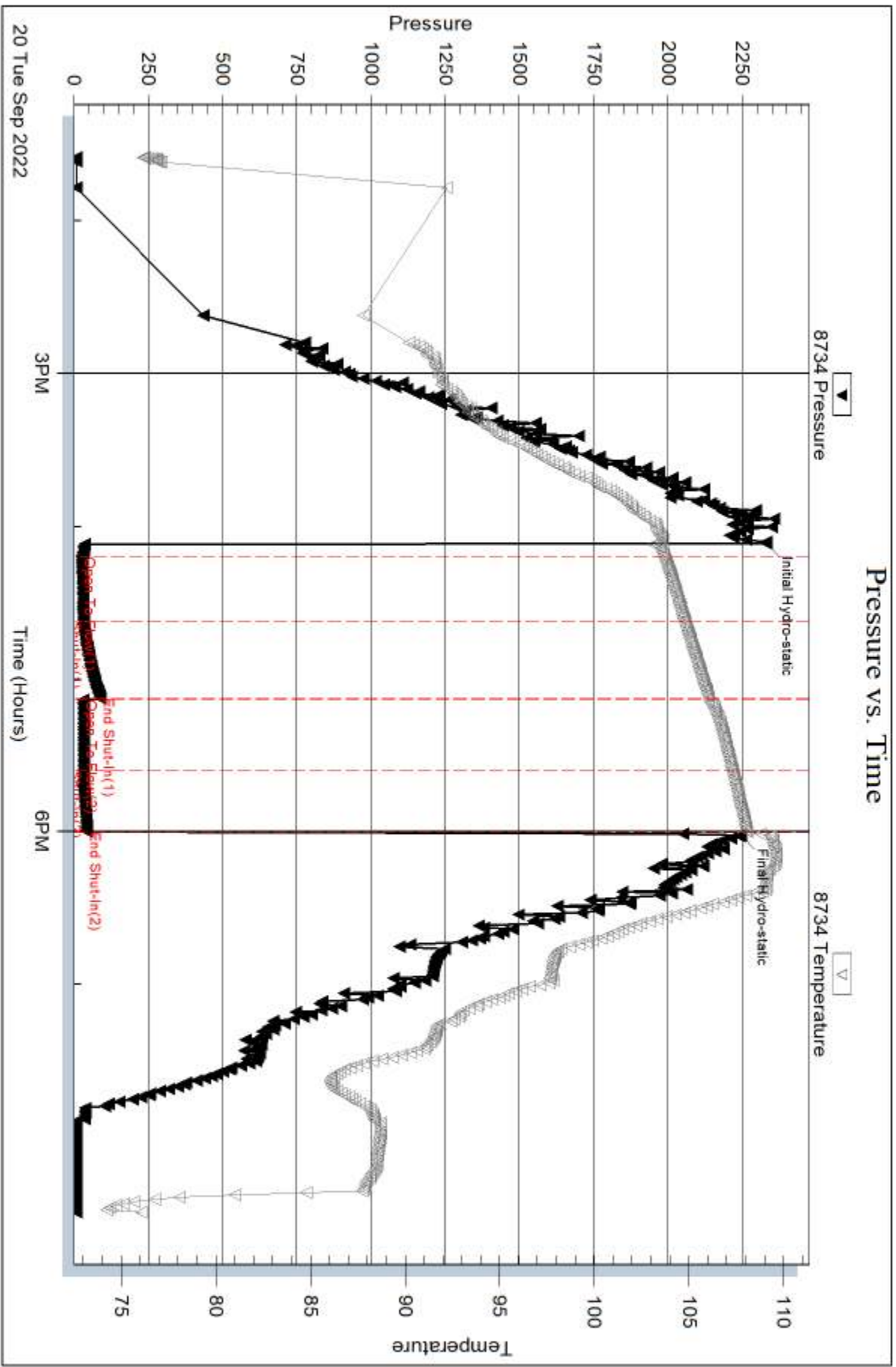
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



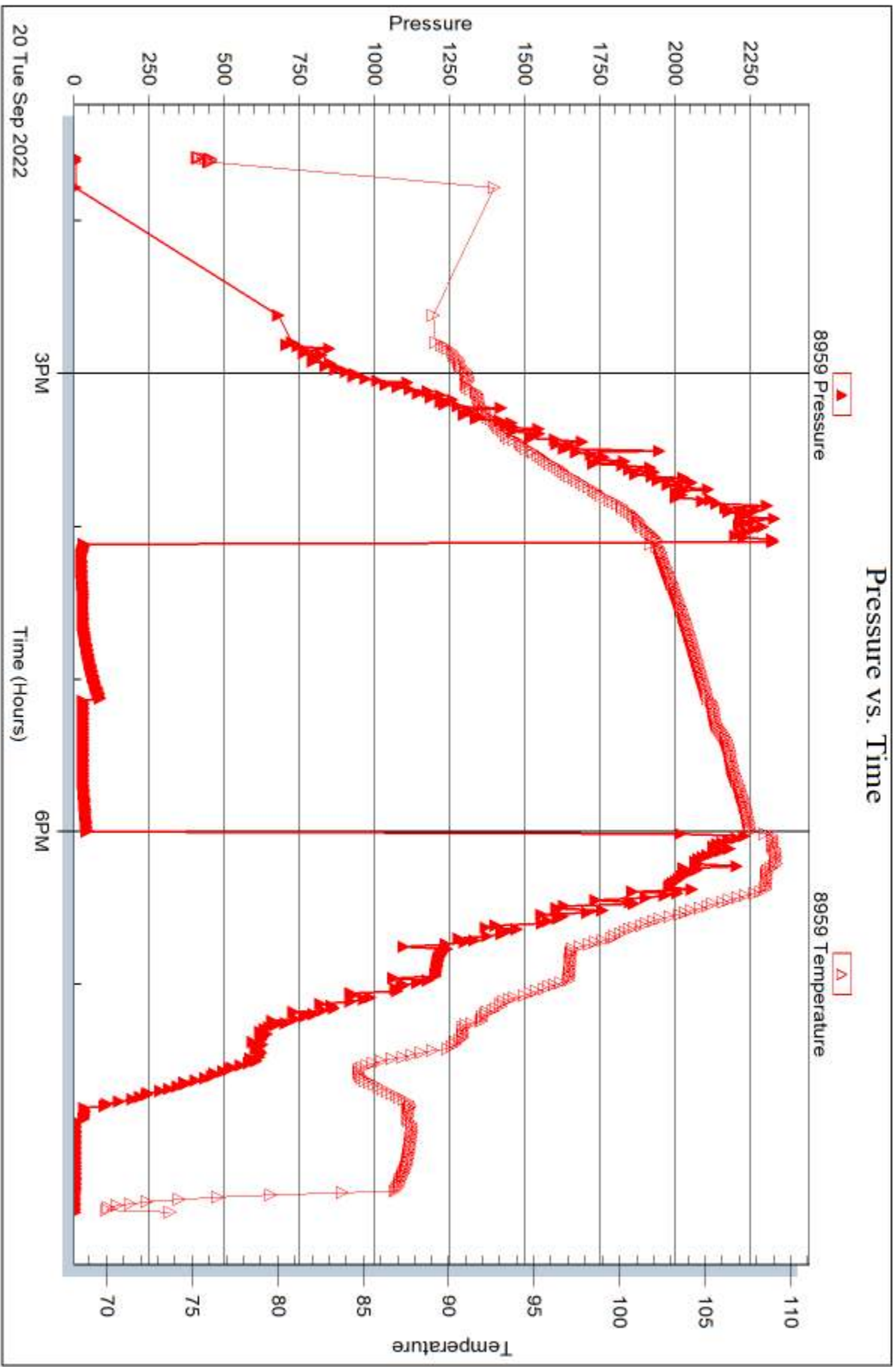
Serial #: 8959

Inside

Landmark Resources Inc

Barnhart Unit #1-19

DST Test Number: 4



Trilobite Testing, Inc

Ref. No: 66089

Printed: 2022.09.26 @ 11:13:07



DRILL STEM TEST REPORT

Prepared For: **Landmark Resources Inc**

4900 Woodway Dr.
Houston, TX 77056

ATTN: Saman Sharifaie

Barnhart Unit #1-19

19-17S.-34W. Scott,KS

Start Date: 2022.09.21 @ 15:27:00

End Date: 2022.09.21 @ 22:58:47

Job Ticket #: 69809 DST #: 5

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Printed: 2022.09.26 @ 11:12:38



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Landmark Resources Inc

19-17S.-34W. Scott,KS

4900 Woodway Dr.
Houston, TX 77056

Barnhart Unit #1-19

Job Ticket: 69809

DST#: 5

ATTN: Saman Sharifaie

Test Start: 2022.09.21 @ 15:27:00

GENERAL INFORMATION:

Formation: **Pawnee - Ft Scott**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 18:25:32
 Time Test Ended: 22:58:47
 Interval: **4570.00 ft (KB) To 4660.00 ft (KB) (TVD)**
 Total Depth: 4660.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Spencer J Staab
 Unit No: 84
 Reference Elevations: 3152.00 ft (KB)
 3144.00 ft (CF)
 KB to GR/CF: 8.00 ft

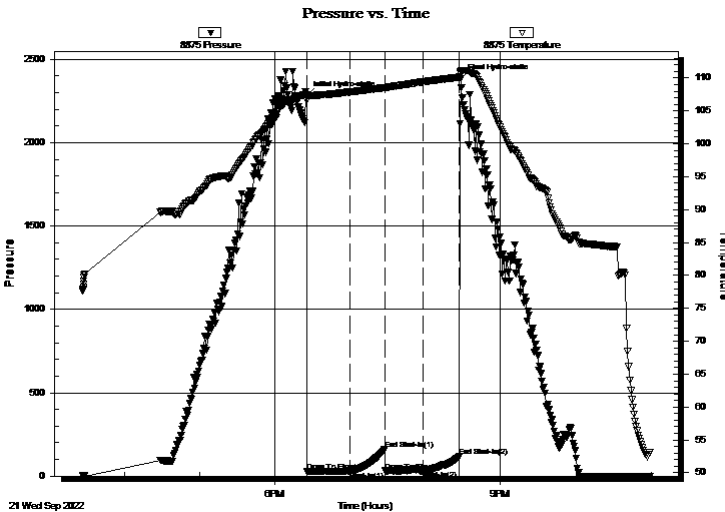
Serial #: 8875

Inside

Press@RunDepth: 33.19 psig @ 4571.00 ft (KB) Capacity: psig
 Start Date: 2022.09.21 End Date: 2022.09.21 Last Calib.: 2022.09.21
 Start Time: 15:27:01 End Time: 22:58:47 Time On Btm: 2022.09.21 @ 18:25:27
 Time Off Btm: 2022.09.21 @ 20:28:17

TEST COMMENT: 30-IF-Surface Blow Died @ 10 mins
 30-ISI-No Return
 30-FF-No Blow
 30-FSI-No Return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2280.52	107.49	Initial Hydro-static
1	28.95	106.52	Open To Flow (1)
35	31.28	107.86	Shut-In(1)
63	161.84	108.53	End Shut-In(1)
63	31.08	108.53	Open To Flow (2)
93	33.19	109.40	Shut-In(2)
122	118.59	110.11	End Shut-In(2)
123	2382.68	110.97	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
20.00	Mud 100%M	0.10

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Landmark Resources Inc

19-17S.-34W. Scott,KS

4900 Woodway Dr.
Houston, TX 77056

Barnhart Unit #1-19

Job Ticket: 69809

DST#: 5

ATTN: Saman Sharifaie

Test Start: 2022.09.21 @ 15:27:00

Tool Information

Drill Pipe:	Length: 4394.00 ft	Diameter: 3.80 inches	Volume: 61.64 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 176.00 ft	Diameter: 2.25 inches	Volume: 0.87 bbl	Weight to Pull Loose: 64000.00 lb
			<u>Total Volume: 62.51 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	33.00 ft			String Weight: Initial 54000.00 lb
Depth to Top Packer:	4570.00 ft			Final 54000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	90.00 ft			
Tool Length:	123.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4538.00	
Shut In Tool	5.00			4543.00	
Hydraulic tool	5.00	1113		4548.00	
Jars	5.00	01-07		4553.00	
EM Tool	5.00			4558.00	
Safety Joint	3.00	-001		4561.00	
Packer	5.00			4566.00	33.00 Bottom Of Top Packer
Packer	4.00			4570.00	
Stubb	1.00			4571.00	
Recorder	0.00	6838	Inside	4571.00	
Recorder	0.00	8875	Inside	4571.00	
Perforations	19.00			4590.00	
Change Over Sub	1.00			4591.00	
Drill Pipe	63.00			4654.00	
Change Over Sub	1.00			4655.00	
Bullnose	5.00			4660.00	90.00 Bottom Packers & Anchor
Total Tool Length:	123.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Landmark Resources Inc

19-17S.-34W. Scott,KS

4900 Woodway Dr.
Houston, TX 77056

Barnhart Unit #1-19

Job Ticket: 69809

DST#: 5

ATTN: Saman Sharifaie

Test Start: 2022.09.21 @ 15:27:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 48.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 10.38 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 6400.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
20.00	Mud 100%M	0.098

Total Length: 20.00 ft Total Volume: 0.098 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: 1#LCM

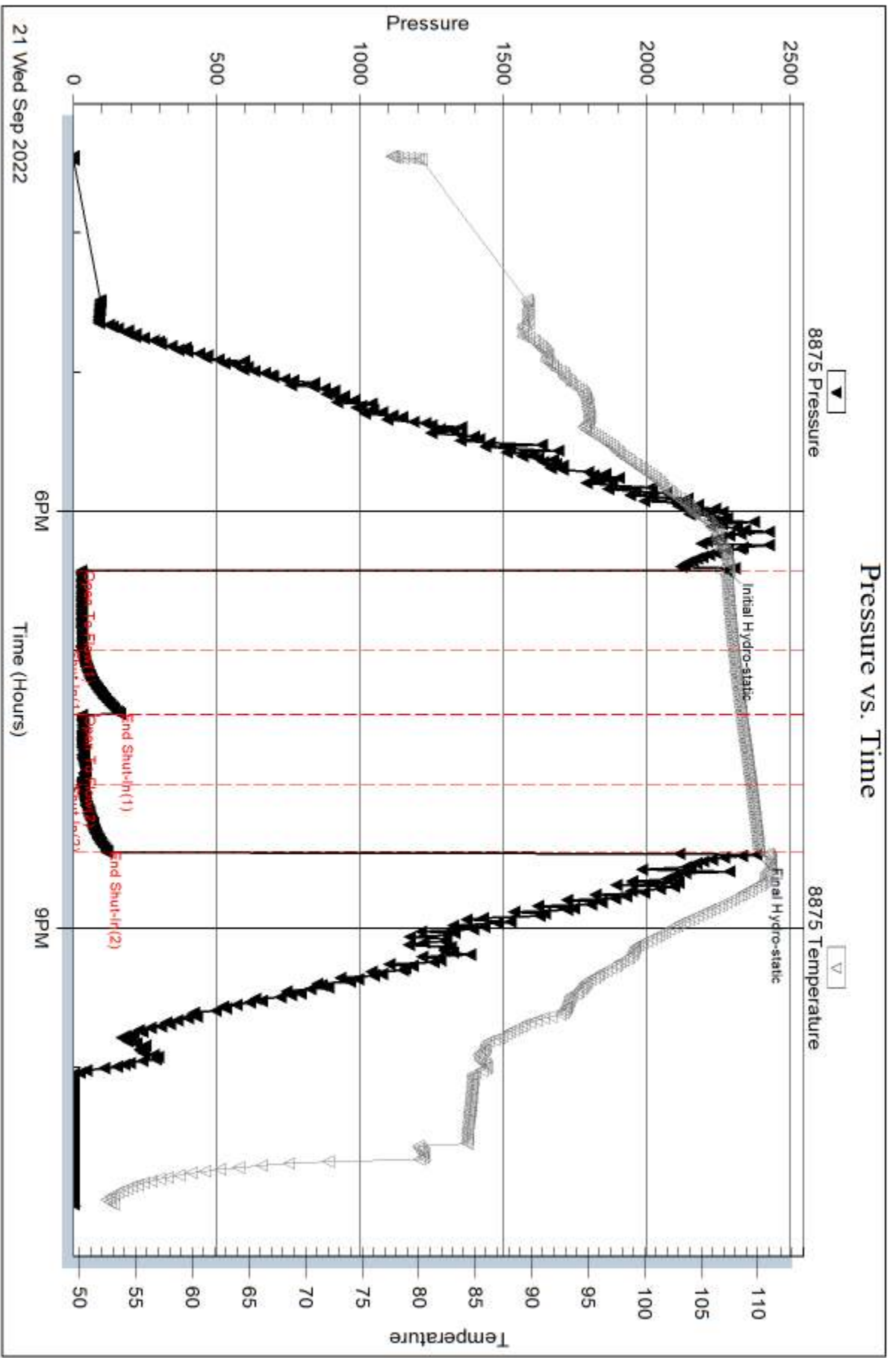
Serial #: 8875

Inside

Landmark Resources Inc

Barnhart Unit #1-19

DST Test Number: 5



21 Wed Sep 2022

Trilobite Testing, Inc

Ref. No: 69809

Printed: 2022.09.26 @ 11:12:39

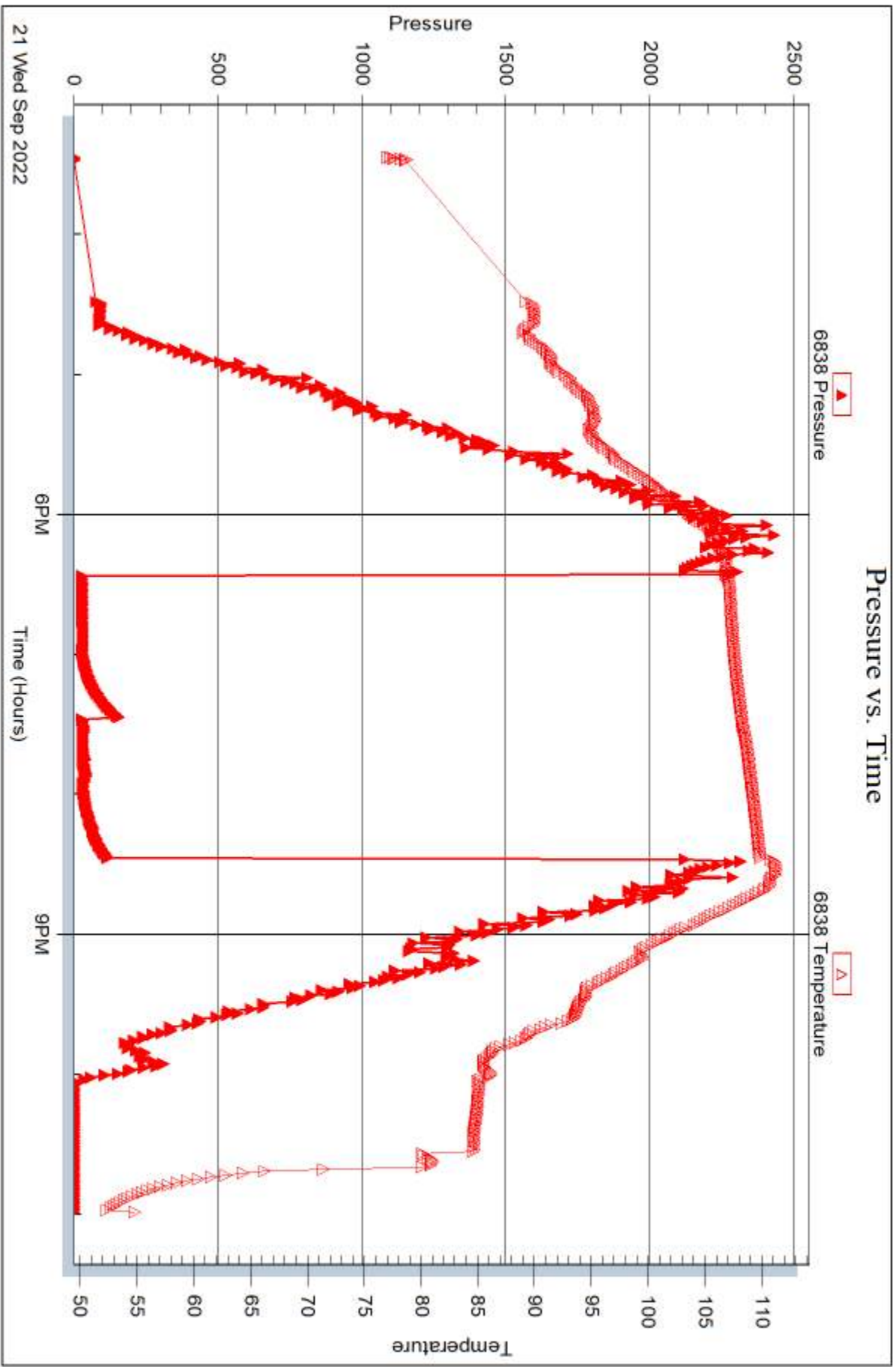
Serial #: 6838

Inside

Landmark Resources Inc

Barnhart Unit #1-19

DST Test Number: 5



Trilobite Testing, Inc

Ref. No: 69809

Printed: 2022.09.26 @ 11:12:39



DRILL STEM TEST REPORT

Prepared For: **Landmark Resources Inc**

4900 Woodway Dr.
Houston, TX 77056

ATTN: Saman Sharifaie

Barnhart Unit #1-19

19-17S.-34W. Scott,KS

Start Date: 2022.09.23 @ 20:10:00

End Date: 2022.09.24 @ 06:54:57

Job Ticket #: 69810 DST #: 6

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2022.09.26 @ 11:11:24



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Landmark Resources Inc

19-17S.-34W. Scott,KS

4900 Woodway Dr.
Houston, TX 77056

Barnhart Unit #1-19

Job Ticket: 69810

DST#: 6

ATTN: Saman Sharifaie

Test Start: 2022.09.23 @ 20:10:00

GENERAL INFORMATION:

Formation: **LKC H-J**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 23:21:17

Time Test Ended: 06:54:57

Test Type: Conventional Straddle (Reset)

Tester: Spencer J Staab

Unit No: 84

Interval: 4236.00 ft (KB) To 4340.00 ft (KB) (TVD)

Reference Elevations: 3152.00 ft (KB)

Total Depth: 5002.00 ft (KB) (TVD)

3144.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8875

Inside

Press@RunDepth: 164.00 psig @ 4239.00 ft (KB)

Capacity: psig

Start Date: 2022.09.23

End Date:

2022.09.24

Last Calib.:

2022.09.24

Start Time: 20:10:01

End Time:

06:54:57

Time On Btm:

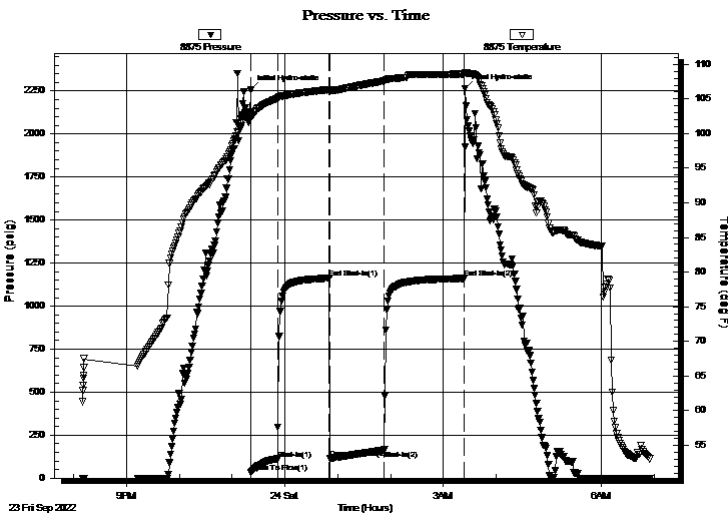
2022.09.23 @ 23:21:07

Time Off Btm:

2022.09.24 @ 03:24:57

TEST COMMENT: 30-IF-Surface to 4"
60-ISI-No Return
60-FF-Surface to 4"
90-FSI-No Return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2259.52	103.19	Initial Hydro-static
1	33.07	102.61	Open To Flow (1)
31	111.34	105.11	Shut-In(1)
90	1163.08	106.32	End Shut-In(1)
90	115.33	106.08	Open To Flow (2)
152	164.00	107.61	Shut-In(2)
243	1160.64	108.63	End Shut-In(2)
244	2262.57	108.82	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
260.00	GOCM 15%G 15%O 70%M	2.04
30.00	GVSOCM 3%G 2%O 95%M	0.42
60.00	GMO 10%G 5%M 85%O	0.84
0.00	30 GIP 100%G	0.00

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Landmark Resources Inc

19-17S.-34W. Scott,KS

4900 Woodway Dr.
Houston, TX 77056

Barnhart Unit #1-19

Job Ticket: 69810

DST#: 6

ATTN: Saman Sharifaie

Test Start: 2022.09.23 @ 20:10:00

GENERAL INFORMATION:

Formation: **LKC H-J**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 23:21:17

Time Test Ended: 06:54:57

Test Type: Conventional Straddle (Reset)

Tester: Spencer J Staab

Unit No: 84

Interval: 4236.00 ft (KB) To 4340.00 ft (KB) (TVD)

Reference Elevations: 3152.00 ft (KB)

Total Depth: 5002.00 ft (KB) (TVD)

3144.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 6749 Below (Straddle)

Press@RunDepth: psig @ 4341.00 ft (KB)

Capacity: psig

Start Date: 2022.09.23

End Date:

2022.09.24

Last Calib.:

2022.09.24

Start Time: 20:10:01

End Time:

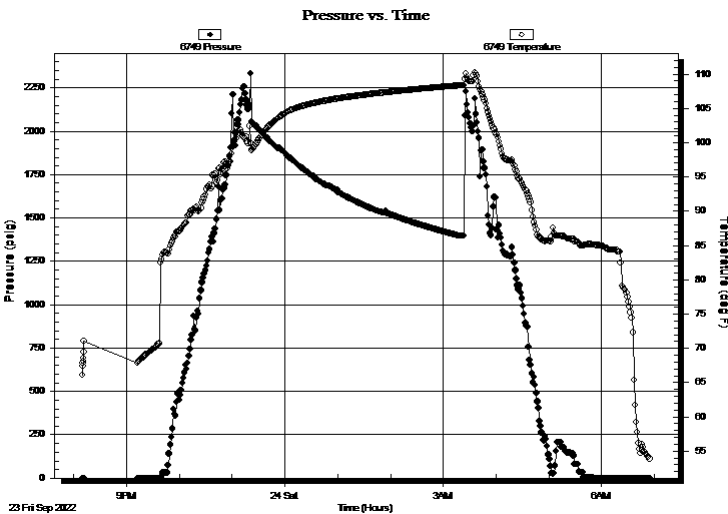
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Time On Btm:

Time Off Btm:

TEST COMMENT: 30-IF-Surface to 4"
60-ISI-No Return
60-FF-Surface to 4"
90-FSI-No Return

PRESSURE SUMMARY



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

Recovery

Length (ft)	Description	Volume (bbl)
260.00	GOCM 15%G 15%O 70%M	2.04
30.00	GVSOCM 3%G 2%O 95%M	0.42
60.00	GMO 10%G 5%M 85%O	0.84
0.00	30 GIP 100%G	0.00

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Landmark Resources Inc

19-17S.-34W. Scott,KS

4900 Woodway Dr.
Houston, TX 77056

Barnhart Unit #1-19

Job Ticket: 69810

DST#: 6

ATTN: Saman Sharifaie

Test Start: 2022.09.23 @ 20:10:00

Tool Information

Drill Pipe:	Length: 4053.00 ft	Diameter: 3.80 inches	Volume: 56.85 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 176.00 ft	Diameter: 2.25 inches	Volume: 0.87 bbl	Weight to Pull Loose: 71000.00 lb
			<u>Total Volume: 57.72 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	26.00 ft			String Weight: Initial 64000.00 lb
Depth to Top Packer:	4236.00 ft			Final 65000.00 lb
Depth to Bottom Packer:	4340.00 ft			
Interval between Packers:	104.00 ft			
Tool Length:	799.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4204.00	
Shut In Tool	5.00			4209.00	
Hydraulic tool	5.00	1113		4214.00	
Jars	5.00	01-07		4219.00	
EM Tool	5.00			4224.00	
Safety Joint	3.00	-001		4227.00	
Packer	5.00			4232.00	33.00 Bottom Of Top Packer
Packer	4.00			4236.00	
Stubb	1.00			4237.00	
Perforations	1.00			4238.00	
Change Over Sub	1.00			4239.00	
Recorder	0.00	6838	Inside	4239.00	
Recorder	0.00	8875	Inside	4239.00	
Drill Pipe	94.00			4333.00	
Change Over Sub	1.00			4334.00	
Perforations	1.00			4335.00	
Blank Off Sub	1.00			4336.00	
T. Strad Pkr	4.00			4340.00	104.00 Tool Interval
Packer	0.00			4340.00	
Stubb	1.00			4341.00	
Recorder	0.00	6749	Below	4341.00	
Perforations	2.00			4343.00	
Change Over Sub	1.00			4344.00	
Drill Pipe	658.00			5002.00	662.00 Bottom Packers & Anchor
Total Tool Length:	799.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Landmark Resources Inc

19-17S.-34W. Scott,KS

4900 Woodway Dr.
Houston, TX 77056

Barnhart Unit #1-19

Job Ticket: 69810

DST#: 6

ATTN: Saman Sharifaie

Test Start: 2022.09.23 @ 20:10:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 10.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 49.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.58 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 7000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
260.00	GOCM 15%G 15%O 70%M	2.044
30.00	GVSOCM 3%G 2%O 95%M	0.421
60.00	GMO 10%G 5%M 85%O	0.842
0.00	30 GIP 100%G	0.000

Total Length: 350.00 ft

Total Volume: 3.307 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

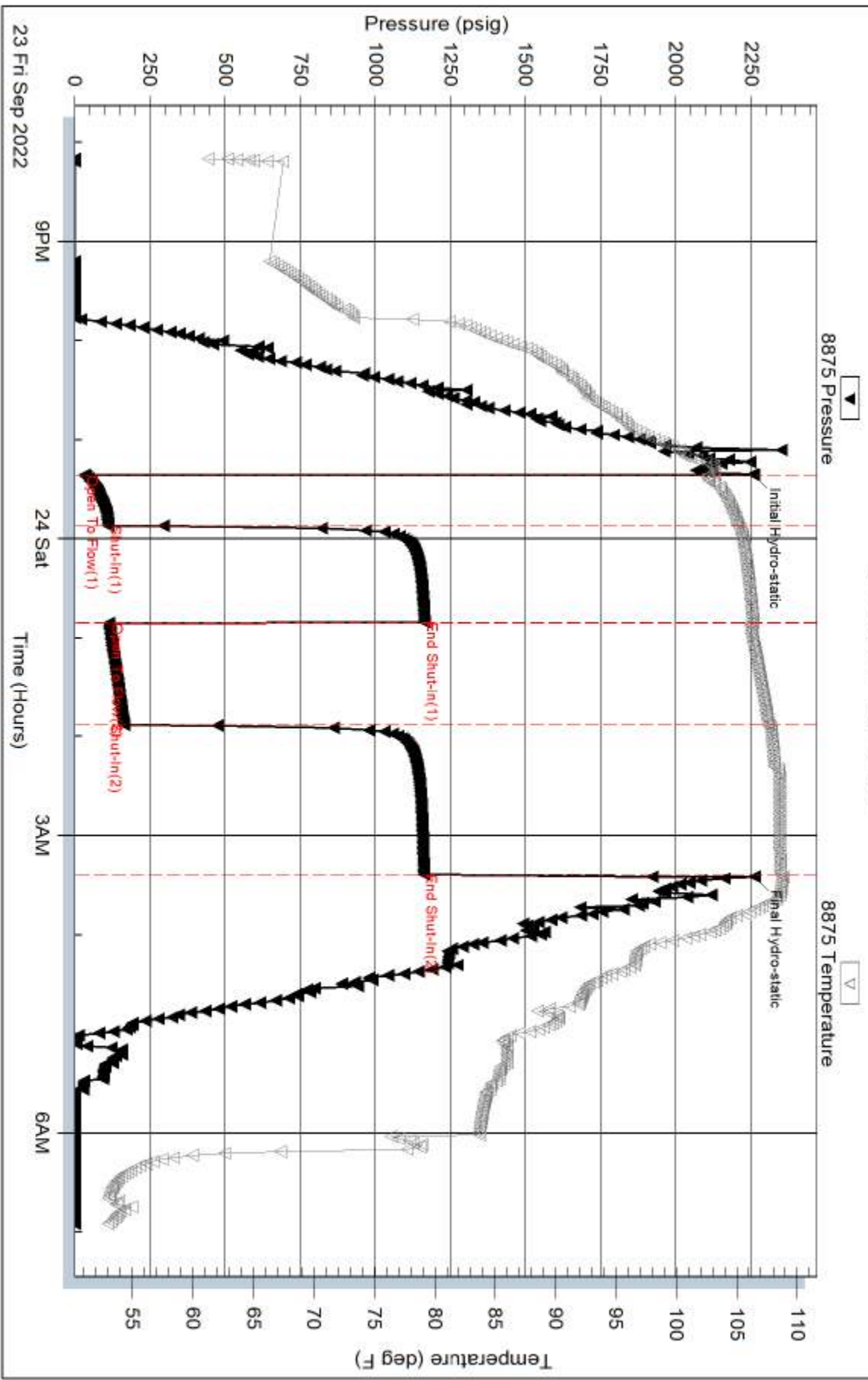
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: 1#LCM

Pressure vs. Time



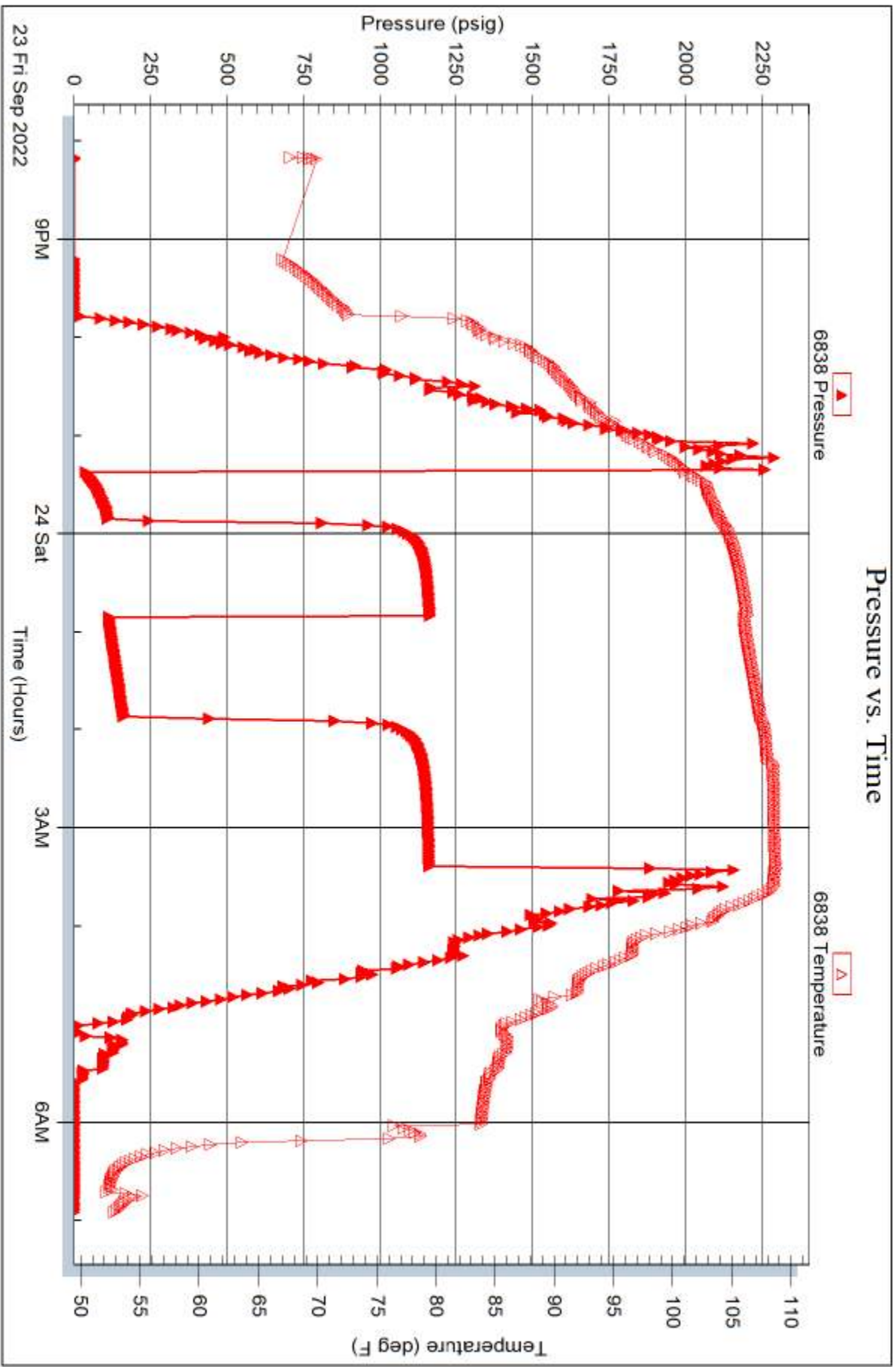
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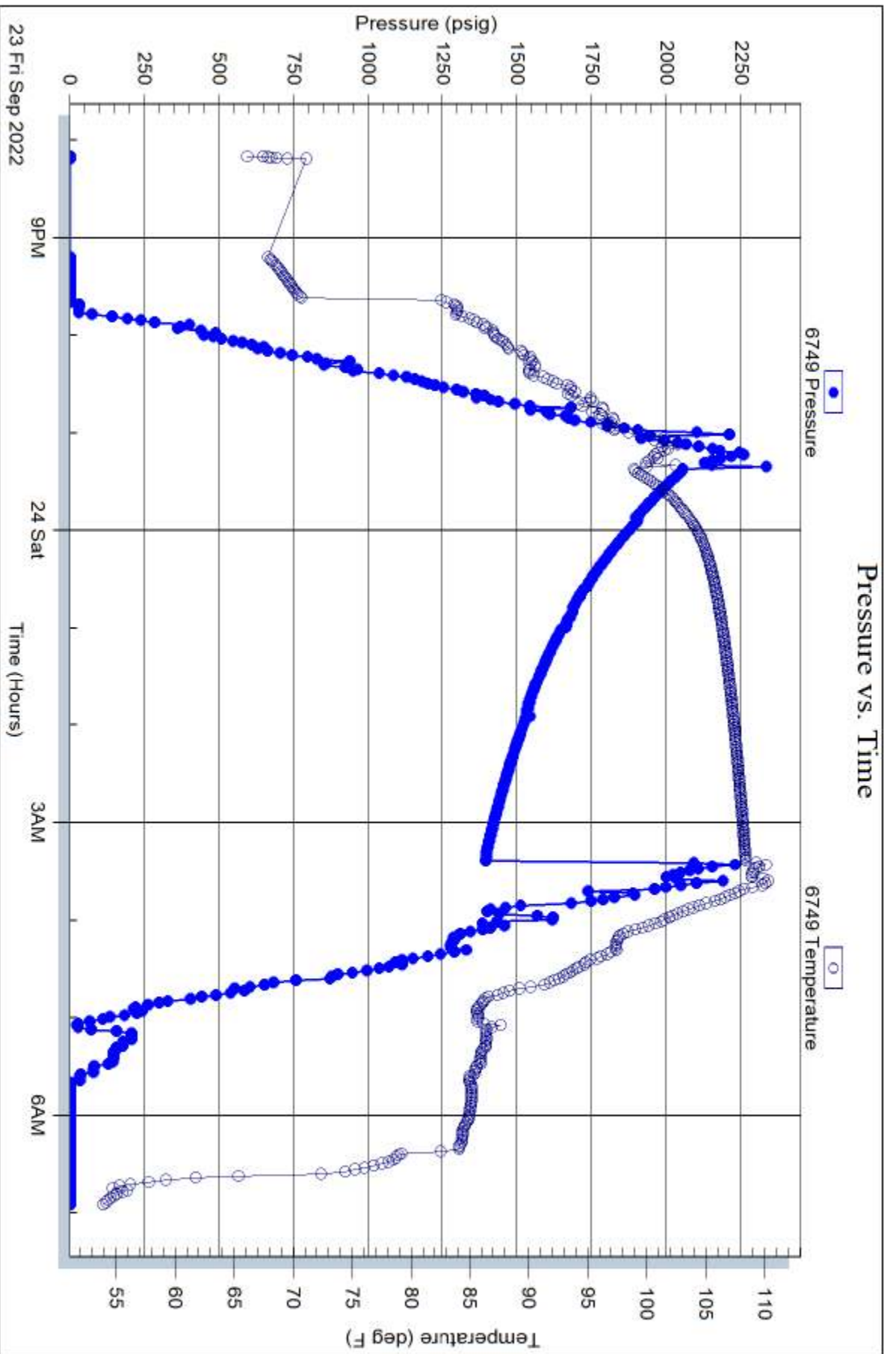
Inside

Landmark Resources Inc

Barnhart Unit #1-19

DST Test Number: 6







TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket 66086

NO.

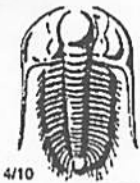
Well Name & No. Barnhart Unit #1-19 Test No. 1 Date 9-16-22
 Company Landmark Resources, Inc. Elevation 3152 KB 3144 GL
 Address 4900 Woodway Dr Houston, Tx 77056
 Co. Rep / Geo. Samir Sharifaie Rig Murfin #112
 Location: Sec. 19 Twp 17S. Rge. 34W Co. Scott State KS.

Interval Tested 4078-4130 Zone Tested LKC "C-D"
 Anchor Length 52' Drill Pipe Run 3900 Mud Wt. 9.2
 Top Packer Depth 4073 Drill Collars Run 176 Vis 70
 Bottom Packer Depth 4078 Wt. Pipe Run — WL 6.4
 Total Depth 4130 Chlorides 3100 ppm System LCM 1#
 Blow Description IF - 1/4" blow built to 5"
ISI - No return.
FF - Blow built to 3 3/4"
FSI - No return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>270</u>	<u>MCH w/oil specks.</u>			<u>70</u>	<u>30</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 270 BHT 111 Gravity — API RW 250 @ 57.5° F Chlorides 36,000 ppm
 (A) Initial Hydrostatic 2063 Test 1950 T-On Location 20:15
 (B) First Initial Flow 31 Jars 300 T-Started 23:25
 (C) First Final Flow 102 Safety Joint _____ T-Open 02:33
 (D) Initial Shut-In 1092 Circ Sub _____ T-Pulled 05:33
 (E) Second Initial Flow 106 Hourly Standby _____ T-Out 08:25
 (F) Second Final Flow 144 Mileage 37 RT 55.50 Comments _____
 (G) Final Shut-In 1079 Sampler _____
 (H) Final Hydrostatic 1977 Straddle _____ EM Tool -350
 Initial Open 30 Shale Packer _____ Ruined Shale Packer _____
 Initial Shut-In 45 Extra Packer _____ Ruined Packer _____
 Final Flow 45 Extra Recorder _____ Extra Copies _____
 Final Shut-In 60 Day Standby _____ Sub Total -350
 Sub Total 2305.50 Accessibility _____ Total 1955.50
 MP/DST Disc't _____

Approved By _____ Our Representative [Signature]
 Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket 66087

NO.

Well Name & No. Barnhart Unit #1-19 Test No. 2 Date 9-18-22.
 Company Landmark Resources Elevation 3152 KB 3144 GL
 Address 4900 Woodway Dr. Houston, Tx 77056
 Co. Rep / Geo. Saman Sharifaie Rig Murfin #112
 Location: Sec. 19 Twp 17S. Rge. 34W. Co. Scott State KS.

Interval Tested 4446-4526 Zone Tested Marmaton.
 Anchor Length 80' Drill Pipe Run 4242 Mud Wt. 9.0
 Top Packer Depth 4441 Drill Collars Run 176 Vis 58
 Bottom Packer Depth 4446 Wt. Pipe Run — WL 8.0
 Total Depth 4526 Chlorides 4100 ppm System LCM 2#

Blow Description IF - B.O.B (11 inches) @ 6 mins (blow built to 58 1/4"
ISI - Return built to 8" + reduced to 6 1/2"
FF - B.O.B @ 7 mins (blow built to 53")
ESI - Return built to 3 1/2" + reduced to 2 1/2"

Rec	Feet of		%gas	%oil	%water	%mud
<u>740</u>	<u>GMC0</u>	<u>40</u>	<u>39</u>	<u>21</u>		
<u>660</u>	<u>CG0</u>	<u>18</u>	<u>82</u>			
<u>0</u>	<u>300' GTP</u>					

Rec Total 1400 BHT 116 Gravity 28.0 API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic 2210 Test 1950 T-On Location 20:45
 (B) First Initial Flow 64 Jars 300 T-Started 21:05
 (C) First Final Flow 339 Safety Joint — T-Open 23:58
 (D) Initial Shut-In 1223 Circ Sub — T-Pulled 02:58
 (E) Second Initial Flow 349 Hourly Standby — T-Out 07:10
 (F) Second Final Flow 570 Mileage 37RT 55.50 Comments —
 (G) Final Shut-In 1222 Sampler —
 (H) Final Hydrostatic 2168 Straddle — EM Tool -350
 Shale Packer — Ruined Shale Packer —
 Extra Packer — Ruined Packer —
 Extra Recorder — Extra Copies —
 Initial Open 30 Day Standby 1d 12.25h Sub Total 408.33 - 350
 Initial Shut-In 45 Accessibility — Total 2363.83
 Final Flow 45 Sub Total 2305.50 MP/DST Disc't —
 Final Shut-In 60

Approved By _____ Our Representative [Signature]

Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket 66088

NO.

Well Name & No. Barnhart Unit #1-19 Test No. 3 Date 9-19-28
 Company Landmark Resources, Inc Elevation 3152 KB 3144 GL
 Address 4900 Woodway Dr. Houston, Tx 77056.
 Co. Rep / Geo. Samen Sharifaic Rig Murfin #112
 Location: Sec. 19 Twp 17S. Rge. 34W. Co. Scott State KS

Interval Tested 4526-4570 Zone Tested Altamont
 Anchor Length 44' Drill Pipe Run 4336. Mud Wt. 9.2
 Top Packer Depth 4521 Drill Collars Run 176 Vis 54
 Bottom Packer Depth 4526 Wt. Pipe Run — WL 8.8
 Total Depth 4570 Chlorides 4500 ppm System LCM 2H

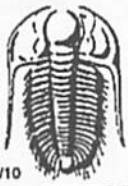
Blow Description ISF - Rig Repair
ISF - T.O.H. to fix light plant
FF -
PSC -

Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total _____ BHT _____ Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic Test 1500 T-On Location 17:45
 (B) First Initial Flow Jars 300 T-Started 18:00
 (C) First Final Flow Safety Joint _____ T-Open _____
 (D) Initial Shut-In Circ Sub _____ T-Pulled 19:30
 (E) Second Initial Flow Hourly Standby _____ T-Out 20:28
 (F) Second Final Flow Mileage 37RT 55.50 Comments _____
 (G) Final Shut-In Sampler _____
 (H) Final Hydrostatic Straddle _____ EM Tool -350
 Ruined Shale Packer _____
 Ruined Packer _____
 Extra Copies _____
 Initial Open _____ Extra Packer _____
 Initial Shut-In _____ Extra Recorder _____
 Final Flow _____ Day Standby _____ Sub Total -350
 Final Shut-In _____ Accessibility _____ Total 1505.50
 Sub Total 1855.50 MP/DST Disc't _____

Approved By _____ Our Representative [Signature]
 Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket 66089

NO.

Well Name & No. Barnhart Unit #1-19 Test No. 4 Date 9-20-22
 Company Landmark Resources Inc. Elevation 3152 KB 3144 GL
 Address 4900 Woodway Dr Houston, Tx 77056
 Co. Rep / Geo. Saman Sharifae Rig Murfin #112
 Location: Sec. 19 Twp 17S. Rge. 34W. Co. Scott State K5

Interval Tested 4526-4570 Zone Tested Altamont
 Anchor Length 44' Drill Pipe Run 4336 Mud Wt. 9.1
 Top Packer Depth 4521 Drill Collars Run 176 Vis 54
 Bottom Packer Depth 4526 Wt. Pipe Run — WL 9.6
 Total Depth 4570 Chlorides 5500 ppm System LCM 24

Blow Description IF - Weak surface bubbles dead @ 5mins
ESI - No return
FF - No blow
FSI - No return

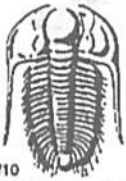
Rec	Feet of	%gas	%oil	%water	%mud
<u>5</u>	<u>OCM</u>	<u>15</u>		<u>85</u>	

Rec Total 5 BHT _____ Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 2331 Test 1950 T-On Location 13:30
 (B) First Initial Flow 27 Jars 300 T-Started 13:35
 (C) First Final Flow 33 Safety Joint _____ T-Open 16:06
 (D) Initial Shut-In 90 Circ Sub _____ T-Pulled 18:06
 (E) Second Initial Flow 32 Hourly Standby _____ T-Out 20:30
 (F) Second Final Flow 33 Mileage 37RT 55.50 Comments _____
 (G) Final Shut-In 45 Sampler _____
 (H) Final Hydrostatic 2246 Straddle _____ EM Tool _____
 Shale Packer _____ Ruined Shale Packer _____
 Extra Packer _____ Ruined Packer _____
 Extra Recorder _____ Extra Copies _____
 Day Standby _____ Sub Total 0
 Accessibility _____ Total 2305.50
 Sub Total 2305.50 MP/DST Disc't _____

Approved By _____ Our Representative [Signature]

Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **69809**

Well Name & No. Barnhart Unit #1-19 Test No. 5 Date 09/21/2022
 Company Landmark Resources Inc Elevation 3152 KB 3144 GL
 Address 4900 Woodway Dr Houston, Tx 77056
 Co. Rep / Geo. Saman Sharifae Rig Murfin #112
 Location: Sec. 19 Twp 17s Rge. 34w Co. Scott State Ks

Interval Tested 4570' - 4660' Zone Tested Pawnee - Ft Scott
 Anchor Length 90' Drill Pipe Run 4394' Mud Wt. 9.0
 Top Packer Depth 4565' Drill Collars Run 176' Vis 48
 Bottom Packer Depth 4570' Wt. Pipe Run — WL 10.4
 Total Depth 4660' Chlorides 6400 ppm System LCM #

Blow Description 7- Surface; Dred @ 10 mins
55- No Return
77- No Blow
75- No Return

Rec	Feet of	%gas	%oil	%water	%mud
<u>20</u>	<u>Mud</u>			<u>100</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 20' BHT 110° Gravity — API RW — @ — F Chlorides — ppm

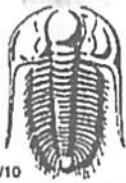
(A) Initial Hydrostatic <u>2280</u>	<input checked="" type="checkbox"/> Test 1950	T-On Location <u>13:35</u>
(B) First Initial Flow <u>28</u>	<input checked="" type="checkbox"/> Jars 300	T-Started <u>15:27</u>
(C) First Final Flow <u>31</u>	<input checked="" type="checkbox"/> Safety Joint	T-Open <u>18:25</u>
(D) Initial Shut-In <u>161</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>20:25</u>
(E) Second Initial Flow <u>31</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>22:57</u>
(F) Second Final Flow <u>33</u>	<input checked="" type="checkbox"/> Mileage <u>3727</u> 55.50	Comments
(G) Final Shut-In <u>118</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>2382</u>	<input type="checkbox"/> Straddle	<input checked="" type="checkbox"/> EM Tool

Initial Open 30
 Initial Shut-In 30
 Final Flow 30
 Final Shut-In 30

Sub Total 2305.50 MP/DST Disc't

Approved By _____ Our Representative Spencer A. Stahl Thanks!
 Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.

785-259-0056



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **69810**

Well Name & No. Barnhart Unit # 1-19 Test No. 6 Date 09/23/2022
 Company Landmark Resources Inc Elevation 3152 KB 3144 GL
 Address 4900 Woodway Dr. Houston TX 77056
 Co. Rep / Geo. Saman Sharifaie Rig Murfin #112
 Location: Sec. 19 Twp 17s Rge. 34w Co. Scott State KS

Interval Tested 4236-4340' Zone Tested LKC H-J
 Anchor Length 104' 662' tail Drill Pipe Run 4053' Mud Wt. 9.5
 Top Packer Depth 4236' Drill Collars Run 176' Vis 49
 Bottom Packer Depth 4340' Wt. Pipe Run - WL 9.6
 Total Depth 5002' Chlorides 7,000 ppm System LCM #

Blow Description 17- Surface to 4"
15D- No Return
77- Surface to 4"
75D- No Return

Rec	Feet of	%gas	%oil	%water	%mud
<u>260'</u>	<u>G OCM</u>	<u>15</u>	<u>15</u>	<u>70</u>	<u>0</u>
<u>30'</u>	<u>G VSOCM</u>	<u>3</u>	<u>2</u>	<u>95</u>	<u>0</u>
<u>60'</u>	<u>GMO</u>	<u>10</u>	<u>85</u>	<u>5</u>	<u>0</u>
<u>30'</u>	<u>GTP</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>

Rec Total 350' BHT 108° Gravity <19° API RW - @ - °F Chlorides - ppm

(A) Initial Hydrostatic <u>2259</u>	<input checked="" type="checkbox"/> Test <u>1950</u>	T-On Location <u>18:40</u>
(B) First Initial Flow <u>33</u>	<input checked="" type="checkbox"/> Jars <u>300</u>	T-Started <u>20:10</u>
(C) First Final Flow <u>110</u>	<input checked="" type="checkbox"/> Safety Joint	T-Open <u>23:15</u>
(D) Initial Shut-In <u>1163</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>03:15 09/24/2022</u>
(E) Second Initial Flow <u>115</u>	<input checked="" type="checkbox"/> Hourly Standby <u>1</u> 100	T-Out <u>06:49</u>
(F) Second Final Flow <u>164</u>	<input checked="" type="checkbox"/> Mileage <u>37R7x2</u> 111	Comments <u>went to btm after logs; drove back to Scott</u>
(G) Final Shut-In <u>1160</u>	<input type="checkbox"/> Sampler	<u>Stayed in shop 4 days</u>
(H) Final Hydrostatic <u>2262</u>	<input checked="" type="checkbox"/> Straddle <u>600</u>	<input checked="" type="checkbox"/> EM Tool

Initial Open <u>30</u>	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Shale Packer
Initial Shut-In <u>60</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Ruined Packer
Final Flow <u>60</u>	<input type="checkbox"/> Extra Recorder	<input type="checkbox"/> Extra Copies
Final Shut-In <u>90</u>	<input checked="" type="checkbox"/> Day Standby <u>44 hrs</u> 1d 43.75h	Sub Total <u>1458.33</u>
	<input type="checkbox"/> Accessibility	Total <u>4519.33</u>
	Sub Total <u>3061</u>	MP/DST Disc't

Approved By _____ Our Representative Spencer J. Steal Thanks!
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785-259-0056

Saman Sharifaie

Petroleum Geologist

API #15-171-21298

GEOLOGIST'S REPORT DRILLING TIME AND SAMPLE LOG

COMPANY Landmark Resources, Inc.

LEASE Barnhart Unit #1-19

FIELD Beaver Lodge North

LOCATION 789' FSL & 164' FEL

SEC 19 TWSP 17S RGE 34W

COUNTY Scott STATE Kansas

CONTRACTOR Murfin Drilling #112

SPUD 09/13/22 COMP 09/25/22

RTD 5000' LTD 5002'

MUD UP 3461' TYPE MUD Chemical

SAMPLES SAVED FROM 3700' TO RTD

DRILLING TIME KEPT FROM 3550' TO RTD

SAMPLES EXAMINED FROM 3700' TO RTD

GEOLOGICAL SUPERVISION FROM 3250'

REFERENCE WELL Landmark - Decker #1-20

ELEVATIONS

KB 3152'

DF _____

GL 3144'

Measurements Are All
From Kelly Bushing

CASING

CONDUCTOR _____

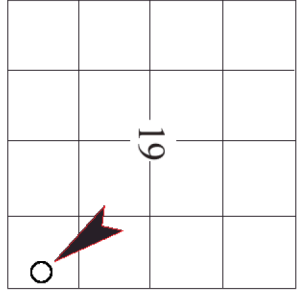
SURFACE 8-5/8" at 304'

PRODUCTION 5-1/2" at 4980'

ELECTRICAL SURVEYS

CND; DIL; MEL; Sonic
Midwest Wireline

Formation	Sample Tops	E-log Tops	Struct Pos.
Anhydrite	2445 (+707)	2429 (+723)	+11
Heebner	4003 (-851)	4004 (-852)	+13
Toronto	4020 (-868)	4020 (-868)	+14
Lansing	4051 (-899)	4051 (-899)	+14
Muncie Creek	4242 (-1090)	4238 (-1086)	+13
BKC	4446 (-1294)	4438 (-1286)	+13
Pawnee	4584 (-1432)	4576 (-1424)	+18
Cherokee	4666 (-1514)	4653 (-1501)	+16
Mississippi	4912 (-1760)	4896 (-1744)	+26



REMARKS Due to fair shows of oil in multiple potential pay zones and positive DST results, it is recommended and agreed upon by all parties that production casing be set to further evaluate this well.

Respectfully Submitted,

API #15-171-21298

Saman Sharifaie
Petroleum Geologist

*Tops have been adjusted to electric logs

Depth	Lithology	Geological Descriptions	Engineering Data
2400			

Anhydrite 2429 (+723)

Base 2448 (+704)

2450

Curve Track 1

ROP (Min/Ft) ———

Gamma (API) ———

Caliper (inches) - - - - -

Depth

Lithology

01 Shave

Geological Descriptions

Engineering Data

0 ROP (Min/Ft) 10

1 Gamma (API) 150

6 Caliper (inches) 16

3550

Conn

Conn

3600

0 ROP (Min/Ft) 10

1 Gamma (API) 150

6 Caliper (inches) 16

Conn

MudCo @ 3530'

Wt: 8.6

Vis: 55

WI: 6.4

Chl: 1,800

LCM: 3#

DAILY PENETRATION
@ 7:00 AM

09/13/22 - Spudded at 8:00 AM 09/14/22 -
Drilling at 1137'

09/15/22 - Displacing at 3461'

09/16/22 - Drilling at 3950'

09/17/22 - Testing at 4130'

09/18/22 - Drilling at 4420'

09/19/22 - Testing at 4526'

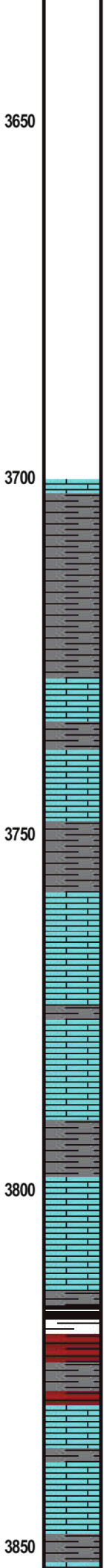
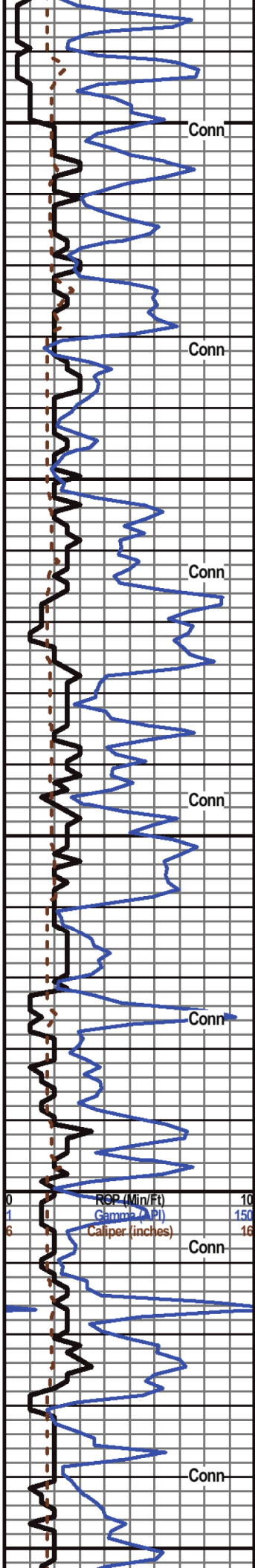
09/20/22 - Testing at 4570'

09/21/22 - Drilling at 4620'

09/22/22 - Drilling at 4720'

09/23/22 - TOOH for logs

09/24/22 - Straddle Test



3650 Conn

3700 Conn

3750 Conn

3800 Conn

3850 Conn

Ls., cm/lt bm/lt gry, mott IP, vf-med xln, Tr foss, pr intgran & xln por, dns/chty to chky, calc IP, Tr pyrc, sbang to sli blk, Tr intbdd gry Sh, n/s

Sh., dk gry/gry/gn, mica IP, brit

Sh., gry/bm/gn, stly IP, Tr pyr

Ls., tan/gry, fn xln, foss, fr-gd intpart & intxln por, scat intxln vugs, dns, sli fri to chky, dolc IP, calc, Tr glauc, n/s

Ls., tan/cm/bm, vf xln, foss IP, Tr pr intpart por, pred NVP, dns, hd, calc IP, blk, Tr sndy, n/s

Sh., gry/gn/blk carb, pred stly to sndy

Topeka 3759 (-607)

Ls., cm/tan, fn-med xln, foss IP, Tr pr intpart & xln por, pred NVP, dns/hd to chky, calc, chty IP, blk, n/s

Ls., a.a, gry IP, Tr pr intgran por, n/s

Ls., cm/tan, fn-med xln, Tr foss, dolc IP, pr intgran & pp por, dns/hd to sli argil, Tr calc, brec, scat sub-chky pcs, n/s

Ls., a.a, Tr mott, lt gry IP, decr dolc abund, Tr chty, n/s

Sh., gry/bm/blk, carb & pyrc IP, brit to sft, Tr fiss

Ls., cm/gry/bm, fn xln, foss, pr-fr pp intpart por, pt dns to chky, fri to brit, calc IP, Tr Cht, n/s

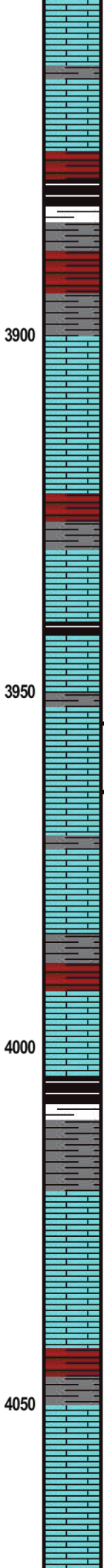
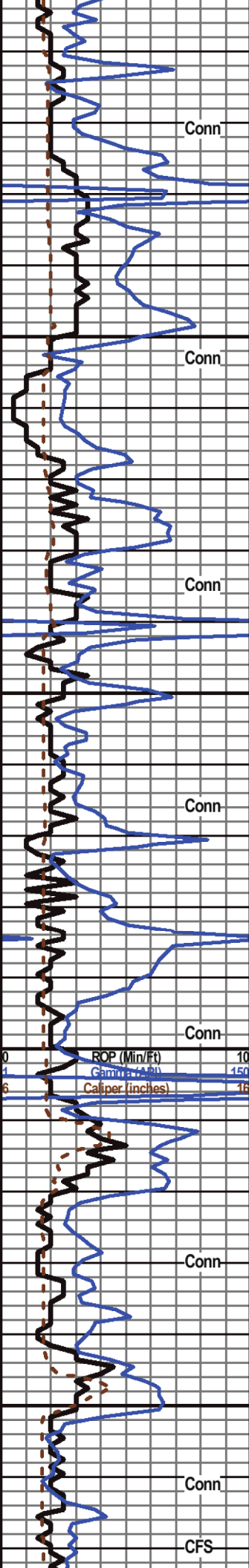
Ls., a.a, incr foss, intbdd gry Ools, ang to sli blk, calc IP, Tr pyrc, n/s

Sh., dk gry/blk carb, fiss, pyrc

Sh., gry/bm, stly, calc, pyrc IP, brit to sli sft

Ls., tan/cm/gry, mott, fn xln, foss, pr vis por, pt dns, fri, calc IP, sbang to blk, sub-chky to chky IP, Tr Cht, n/s

Ls., a.a, incr Sh abund



Ls., cm/tan/bm, mott IP, fn xln, foss IP, pr-fr pp intpart & xln por, dns to chky, hd to brit, dolc IP, scat wht/gry wthd Cht, n/s

Ls., tan/crm/lt bm, sing, fn xln, foss, pr intxln & pp por, dns to chky, hd to brit, calc IP, Tr Cht, n/s

Sh., bm/lt gry/blk, pred carb, pyrc, stly IP

Sh., bm/omg/gry, pt dns, brit to gmy

3900

Ls., cm/bm/lt gry, vf-fn xln, foss IP, Tr fr micr Oolc & vug por, pred no-pr vis por, dns/hd to brit, sbang, n/s

Ls., cm/tan/bm, fn xln, foss IP, pr-fr intfoss por, pt dns to chky, fri to brit, calc IP, n/s

Sh., bm/gry/gn, stly to mdy

Ls., cm/tan, vf-fn xln, foss IP, pr vis por, dolc IP, calc, chky, n/s

Oread 3942 (-790)

Ls., cm/tan, fn xln, Tr foss/Oolc, Tr pr intxln & foss por, dns, hd to chky, calc IP, blk, brec, n/s

3950

Ls., cm/tan, fn xln, foss, Tr pp intfoss por, dolc IP, dns, ang to blk, r (2-3 pcs) dk bm/blk ptchy stn, try, Tr irid, r G Bubl, no odr, VSSFO

Ls., cm/tan, vf-fn xln, foss, Tr pp intfoss por, pred NVP, dns, ang to blk, r pcs w/ bm sptd stn, v lt sat, Tr irid, Tr min fluor, no odr, VSSFO

Ls., cm/tan/lt gry, f xln, foss IP, pr intxln por, dolc IP, dns, hd to chky, Tr pyr, n/s

Sh., gry/bm/omg, stly IP

Ls., tan/crm/bm, fn xln, Tr foss, NVP, dns, calc IP, hd to chky, Tr micr pyr, n/s

4000

Heebner 4004 (-852)

Sh., blk carb

Sh., lt gry, gmy

Toronto 4020 (-868)

Ls., cm, sing, micr-vf xln, Tr foss, no-pr vis por, dns/hd to brit, calc cmt, sbang to blk, Tr Cht, n/s

Ls., a.a, bm IP, scat Chk, Tr Oolc pcs, ang to blk, n/s

Sh., gry/bm/omg, pt dns, brit to gmy

4050

Lansing 4051 (-899)

Ls., tan/crm, sing, micr-vf xln, Oolc IP, Tr pr intfoss por, pred NVP, dns, calc cmt, hd to brit, scat Chk, blk to sbang, n/s

Ls., a.a, Tr pyrc, scat wht Cht, n/s

MudCo @ 3973'
Wt: 8.9
Vis: 56
WI: 6.4
Chl: 3,100
LCM: 2#

DST #1
(LKC C-D)
4078'-4130'

30-45-45-60
IF: Blow built to 5"
FF: Blow built to 3/4"
Rec: 270' MCW w/ O specks,
(30%M, 70%W)

IFP: 31 - 102

Ls., crmt gry/tan, micr-fn xln, r foss, Tr pr intxln por, pred NVP, dns to chky, calc cmt, Tr intbdd Cht, n/s

FFP: 106 - 144
ISIP: 1092
FSIP: 1079
IHP: 2063
FHP: 1977
BHT: 111°

Sh., gry/bm/blk carb, pyrc IP

MudCo @ 4130'
Wt: 9.0
Vis: 49
Wl: 7.2
Chl: 3,500
LCM: 2#

Deviation Survey @ 4130': 1/2°

Ls., crmtan/wht, sing, micr-fn xln, foss IP, Tr fr intOolc & pp intpart por, dns, calc, ang to blk, chky IP, scat dk bm ptchy stn, lt-mod sat, Tr pp FO bld, r GBubls, bri gn fluor, irid OCW, fr odr, SSFO

Ls., crmtan, sing, micr-vf xln, Tr pr-fr vug por, pred NVP, dns to sub-chky, sbang, Tr intbdd Cht, scat xln incls/vugs w/ dk bm/blk stn, ptchy, try, slw bld irid strks FO, Tr GBubls, Tr fluor, fr odr, VSSFO

Ls., crm, fn xln, Oolc, pr intpart & foss por, dns, calc, dolc IP, hd to chky, ang, scat bm sptd stn, sub-sat, r slw bld pp FO, fnt odr, VSSFO

Ls., a.a, spkld to sptd stn, lt pt sat, decr FO abund, VSSFO

Ls., crm/bm, micr-vf xln, foss, Tr pr pp intpart por pred NVP, dns, hd, blk to sbang, scat Chk, n/s

Ls., a.a, incr lt gry, incr chky, n/s

Sh., gry/gn, sli slty, pyrc, fri to sli sft

Ls., crmtan/bm, sing, vf-fn xln, sli foss, no-pr vis por, dns to chky, blk, Tr med bm sptd stn, lt sat, Tr dl yel mi fluor, no odr, NSFO

Ls., crmtan/lt gry, sing, vf-fn xln, Tr foss, no-pr por, dns, calc, hd to chky, blk, 2-3 pcs w/ lt bm stn, v lt pt sat, no odr, no fluor, NSFO

Ls., tan/crm, fn-med xln, foss IP, pr-fr Oolc por, vuggy IP, dns to chky, calc cmt, Tr Cht, n/s

Ls., lt bm/tan, fn-med xln, foss, Tr fr intOolc por, scat xln vugs/incls, pred NVP, hd to sli fri, calc, sbang, chky, n/s

Ls., tan, sing, micr-vf xln, r foss, NVP, dns, calc, hd, blk, scat Chk, n/s

Ls., crmtan, fn xln, foss/Oolc IP, Tr pr intxln & foss por, dns, hd to chky, calc IP, Tr Cht, blk, brec, n/s

Ls., crmtan/lt gry, fn xln, foss IP, Tr pr intxln por, dolc IP, sli dns, fri, v chky, Tr pyr, chty, n/s

Muncie Creek 4238 (-1086)

DST #6
(LKC H-J)
4236'-4340'
(Straddle)

Sh., blk carb, sli pyrc

30-60-60-90
IF: Blow built to 4"
FF: Blow built to 4"
Rec: 30' GIP,
260' GOCM (15%G, 15%O, 70%M),
30' GVSOCM (3%G, 2%O, 95%M),
60' GMO (10%G, 5%M, 85%O)

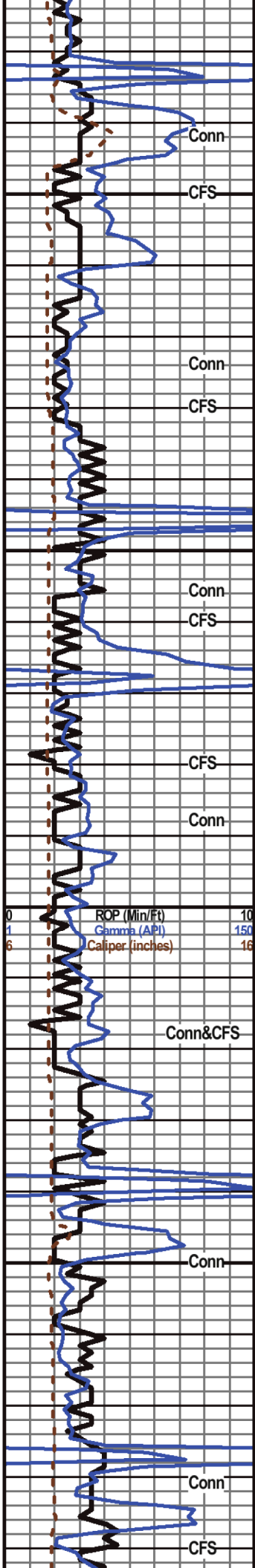
Ls., crm/bm/lt gry, micr-fn xln, foss IP, Tr pr pp intpart por, r xln vug/incls, pred NVP, dns/hd to brit, calc IP, ang to sbang, chty IP, scat Chk, Tr med-dk bm sptd stn, lt sat, gils IP, r slw bld pps FO, fr odr, VSSFO

Ls., crm/bm/lt gry, vf-fn xln, Tr pr intfoss por, r xln vugs, pred NVP, dns/hd to fri, calc IP, sub-chky IP, Tr pyrc, scat lt gry/wht Cht, Tr med-dk bm ptchy stn, try to gils IP, Tr irid strks FO, fr odr, VSSFO

Ls., crmtan/bm, micr-vf xln, Tr foss, NVP, dns/hd, sbang, abund Chk, scat blk Sh, n/s

IFP: 33 - 111
FFP: 115 - 164
ISIP: 1163
FSIP: 1161
IHP: 2260
FHP: 2263

Ls., crmtan/bm/gry, mott IP, micr-fn xln, Tr pr-fr pp intfoss por, pred NVP, dns to sub-chky, calc IP sbang to sli blk, r pyrc pps, Tr med-dk



DST #1

4100

4150

4200

4250

DST #6

ROP (Min/Ft) 10
Gamma (API) 150
Caliper (inches) 16

Conn

CFS

Conn

CFS

Conn

CFS

CFS

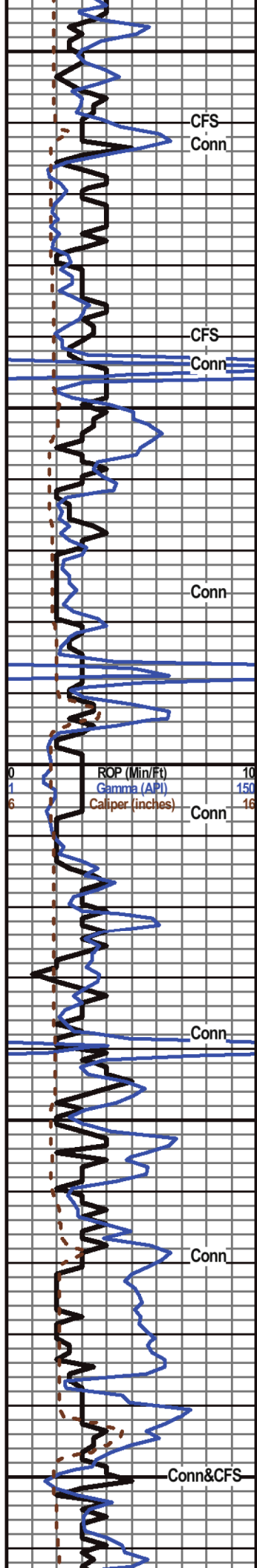
Conn

Conn&CFS

Conn

Conn

CFS



4300
Ls., a.a, Oolc IP, try stn, sptd to spkld, frnt odr, NSFO
Sh., gry/bm/lt gn/varic, pt dns, brit
Ls., crm/tan, fn xln, foss, fr-gd intOolc por; vuggy, pt dns, fri to brit, calc cmt, sbang, Tr Cht, scat med-dk bm intfoss stn, ptchy, Tr FO bld (pred irid), r G Bubls, irid OCW, fr odr, SSFO
Ls., a.a, bm IP, decr stn & Oolc por abund, try IP, frnt odr, VSSFO

Stark 4343 (-1191)

4350
Sh., blk carb, fISS IP
Sh., gry/bm, slty & calc IP
Ls., crm/tan/lt gry, fn xln, foss/Oolc, pr pp intpart & foss por, r xln vugs, dns, calc cmt, scat Chk, Tr dk bm ptchy stn, lt pt sat, Tr irid, frnt gsy odr, Tr dl gn fluor, VSSFO
Ls., a.a, bm IP, incr dns/blk, spkld to sptd stn, hd to brit, decr odr, NSFO
Ls., crm/tan, sing, vf-fn xln, Tr foss, NVP, dns, calc IP, sbang to blk, pyrc IP, scat Cht, n/s
Sh., gry/lt gn/blk carb
Ls., lt gry/crm/tan, fn-med xln, foss IP, Tr fr intxln vug por, Tr pr intfoss por, pred NVP, dns, calc, blk, Tr bm stn, sub-sat, scat pp FO, Tr fluor, frnt odr, VSSFO

4400
Ls., a.a, Tr micr Oolc por, Tr Cht, v chky, decr Shw abund, v frnt odr, NSFO
Ls., crm/lt gry, sing, vf-fn xln, Tr foss, no-pr vis por, pt dns-dns, calc IP, pyrc IP, blk, hd to chky, no fluor, no odr, n/s
Ls., tan/bm/crm, sing, vf-fn xln, Tr foss, NVP, dns, calc cmt, ang to sbang, hd, n/s

BKC 4438 (-1286)

4450
Sh., gry/blk carb, fISS IP
Ls., crm/bm/gry, mott, fn xln, Tr foss, no-pr por, calc IP, sbang to blk, chky, intbdd Sh, n/s
Sh., gry/bm, slty, scat Ls a.a
Sh., dk gry/gry/lt gn, slty IP, fri
Sh., bm/varic, slty IP, fri to sft
Sh., gry/gn/bm/blk, brit to sli sft

Marmaton 4497 (-1345)

4500
Ls., bm/crm, mott, fn xln, foss, fr-gd pp intOolc por; pt dns, fri to brit, calc cmt, sbang to sli blk, Tr wht Cht, scat med-dk bm sptd stn, lt-mod sat, slw bld pps FO, irid OCW, Tr G Bubls, gd gsy odr, S-FSFO
Ls., crm/tan/bm, sing, vf-fn xln, sli foss, Tr fr intfoss & vug por, dns to chky blk, scat med-bm sptd stn, scat Tr FO bld, Tr dl gn fluor

BHT: 109°

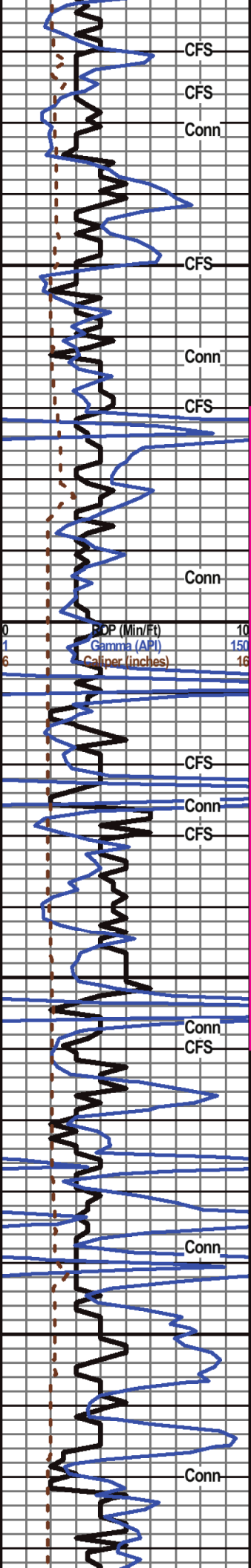
DST #2
(Marmaton)
4446'-4526'

30-45-45-60
IF: BOB @ 6 mins
ISI: Blow built to 8"
FF: BOB @ 7 mins
FSI: Blow built to 3 1/2"
Rec: 300' GIP,
740' GMCO (40%G, 21%M, 39%O),
660' CGO (18%G, 82%O)

IFP: 64 - 339
FFP: 349 - 570
ISIP: 1223
FSIP: 1222
IHP: 2210
FHP: 2168
BHT: 116°

MudCo @ 4477
Wt: 9.2
Vis: 45
Wl: 8.0
Chl: 4,100
LCM: 1#

DST #2



DST #4

DST #5

chky, blk, scat med bm stn, lt sat, fr OD, SSFO

Altamont 4522 (-1370)

Ls., cm/tan, vf-fn xln, foss IP, pr pp intfoss & micr vug por, pt dns to sub-chky, fri IP, abund Sh, Tr med-dk bm stn, sptd to spkld, sub-sat, slw bld irid pps & strks FO, Tr dl yel flour, frt odr, VSSFO

Ls., a.a, decr Sh abund, no odr, NSFO

Sh., lt gry, gmy

Ls., cm/bm/tan/gry, fn xln, foss/Oolc IP, pr intfoss & xln por, dns/hd to fri, calc, pyrc, ang to sli blk, Tr wht tan Cht, r med bm spkld stn, lt pt sat, Tr irid spks FO, dl min fluor, no odr, VSSFO

Ls., cm/tan/gry/bm, micr-fn xln, foss IP, no-pr vis por, dns to sub-chky, calc IP, scat Cht, no odr, n/s

Pawnee 4576 (-1424)

Ls., tan/cm/bm/varic, micr-fn xln, scat pr-fr pp intfoss & Oolc por, pred NVP, dns to sub-chky, fri IP, sbang to blk, calc IP, Tr pyrc, Tr med-dk bm stn, sptd to spkld, slw bld pps FO, irid OCW, r G Bubles, frt odr, SSFO

Ls., bm/tan/cm, mott IP, vf xln, Tr foss, no-pr vis por, dns, hd to brit, sbang to blk, calc IP, Tr pyrc, scat Chk, n/s

Myrick Station 4611 (-1459)

Ls., tan/cm/bm/gry, mott IP, micr-fn xln, Tr pr pp intfoss & xln por, pred NVP, dns to sub-chky, calc cmt, scat med bm spkld stn, lt sat, Tr pp FO bld (pred on brk), Tr irid, v frt odr, VSSFO

Ft Scott 4626 (-1474)

Ls., cm/tan/bm/gry, mott IP, micr-fn xln, pr-fr intfoss & xln por, scat xln surf vugs, dns to brit, calc IP, brec, Tr Oolc Cht, scat med-dk bm ptchy stn, sptd IP, lt-mod pt sat, irid OCW, r G Bubles, frt odr, SSFO

Ls., cm/bm/tan, vf-fn xln, foss, pr intOolc por, pt dns, fri to brit, calc IP, scat Cht, abund Sh, r med bm stn, sptd to spkld, sub-sat, r pp FO bld, no odr, NSFO

Cherokee 4653 (-1501)

Ls., tan/cm/lt gry, sli mott, fn xln, pr-fr intfoss & intxln por, dns, calc, ang to blk, chky, r xln vugs w dk bm spkld stn, v lt pt sat, no fluor, no odr, NSFO

Ls., cm/bm/gry, mott IP, fn xln, Tr foss, no-pr vis por, calc IP, sbang to blk, chky, intbdd Sh, n/s

Ls., a.a, incr Sh abund

Ls., tan/bm/cm, sing, vf-fn xln, Tr foss, NVP, dns, calc cmt, blk, hd, abund gry/blk Sh, n/s

Sh., gry/bm/gn, pyrc

Ls. & Sh., a.a, Tr Cht

Johnson Zone 4717 (-1565)

Ls., bm/tan/cm, vf-fn xln, Tr foss, Tr pr intfoss por, pred NVP, dns, calc, ang to blk, chky, r med bm spkld stn, v lt sub-sat, no fluor, no odr, NSFO

Ls., tan/bm/cm, mott, fn xln, foss IP, no-pr vis por, pt dns to chky,

DST #3
(Altamont)
4526'-4570'

*Light plant broke down, pulled tool

DST #4
(Altamont)
4526'-4570'

30-30-30-30
IF: Surface blow
FF: No blow
Rec: 5' OCM (15%O, 85%M)

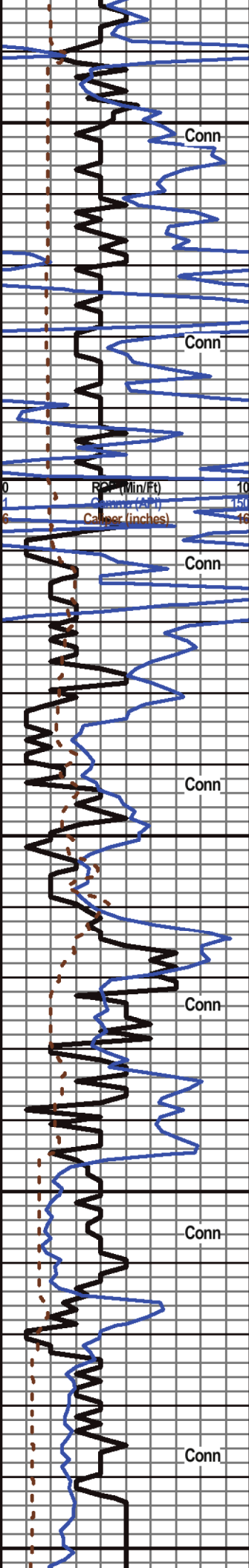
IFP: 27 - 33
FFP: 32 - 33
ISIP: 90
FSIP: 45
IHP: 2331
FHP: 2246
BHT: 109°

MudCo @ 4650'
Wt: 9.0
Vis: 48
WI: 10.4
Chl: 6,400
LCM: 1#

DST #5
(Pawnee-Ft Scott)
4570'-4660'

30-30-30-30
IF: Surface blow
FF: No blow
Rec: 20' M (100%M)

IFP: 29 - 31
FFP: 31 - 33
ISIP: 162
FSIP: 119
IHP: 2281
FHP: 2383
BHT: 111°



calc, sbang, shly, Tr pyr, n/s

Ls., cm/tan/bm/gry, micr-fn xln, Tr foss, no-pr vis por, dns to sub-chky, calc IP, n/s

Sh., gry/bm/lt gn, pred slty to sli sndy

Ls., cm/tan/bm, vf-fn xln, foss IP, no-pr vis por, dns to chky, calc IP, Tr pyrc, sbang to blk, n/s

Sh., blk/gry, carb

Ls., tan, sing, fn xln, foss, pred sndy/gran, pr intpart & intgran por, pt dns to sub-chky, fri, brec IP, n/s

Sh., gry/blk carb, pyrc

Sh., dk gry/blk carb

Sh., dk gry/blk, carb, fiss IP

Sh., gry/lt gn/yel/varic, sndy IP

Sst., wht/clr/lt gn, mott, vf-fn gr, srted, pr intgran por, consl, fri to brit, sub-mdd, calc IP, abund gry/gn Sh, Tr Cht, n/s

Sh., varic, sndy, calc

Sst., a.a, pr srted IP, shly, scat cm/tan Ls, n/s

Sh., gry, fiss

Dol., cm/lt gry, fn xln, rr foss, pr pp inpart & txln por, Tr fr micr vug por, pt dns, fri, Lmy IP, Tr glauc, n/s

Sh., gry/gn/bm/varic

Mississippi 4896 (-1744)

Ls., cm/tan/wht/lt gry, fn-med xln, gran IP, no-pr intxln por, dns to chky, calc IP, Tr Sd, n/s

Ls., cm/wht/tan, vf-fn xln, foss IP, no-pr vis por, dns, calc IP, ang to blk, chky IP, Tr pyr, scat wht Sst, n/s

Dol., tan/gry, sli mott, fn xln, Oolc IP, pr vis por, pt dns, sli fri to chky, rextzd IP, rr xln vugs, n/s

Ls., wht/cm/tan, fn xln, sli foss, dolc IP, pr vis por, dns, calc IP, sbang to blk, hd to chky, scat transl Cht, n/s

Ls., cm/lt tan, sli mott, vf-fn xln, Oolc, pr intfoss por, dns sbang

MudCo @ 4760'
Wt: 9.0
Vis: 50
WI: 9.6
Chl: 6,800
LCM: 1#

Ls., cm/wht/tan, sim bot, v-fri xln, Colc, pr infoss por, dns, sbang, hd to chky, pyrc IP, scat Cht, n/s

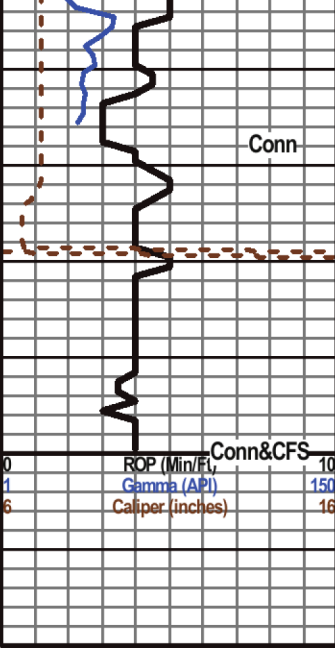
Ls., wht/cm/tan, fn xln, sli foss, Oolc IP, pr vis por, dns, ang to blk, hd to chky, scat pyr, n/s

Ls., cm, sing, fn xln, foss, pr-fr infoss por, sli fri to chky, Tr calc, sbang, pyrc IP, n/s

MudCo @ 5000'
Wt: 9.5
Vis: 49
WI: 9.6
Chl: 7,000
LCM: 1#

Deviation Survey @ 5000': 3/4°

RTD 5000 (-1848)



5000

Conn&CFS

0	ROP (Min/Ft)	10
1	Gamma (API)	150
6	Caliper (inches)	16



18-17s-34w L-999
CRD NO.

PRO-STAKE

LLC

20048
INVOICE NO.



Construction Site Staking

PO Box 1575
Leoti, Ks. 67861
Jay Koehn: 620-874-0022 - jay@prostakellc.com

LEGEND

- irr. well
- water hydrant
- tank battery
- staked loc.
- prod. well / aband. well
- house
- building
- gas line
- water line
- transmission powerline
- 3 phase powerline
- single phase powerline
- fence
- gravel / sand rd.
- gravel trail / lease rd.
- dirt rd.
- dirt trail / lease rd.
- Hwy / blacktop rd.

Landmark Resources OPERATOR

Scott Co, KS.
COUNTY

Barnhart Unit 1-19
LEASE NAME

789' FSL - 164' FEL
LOCATION SPOT

3143.9'
GR ELEVATION

40.221211760
NAD 83 LAT

100.673070119
NAD 83 LONG

19 17s 34w
Sec. Twp. Rng.

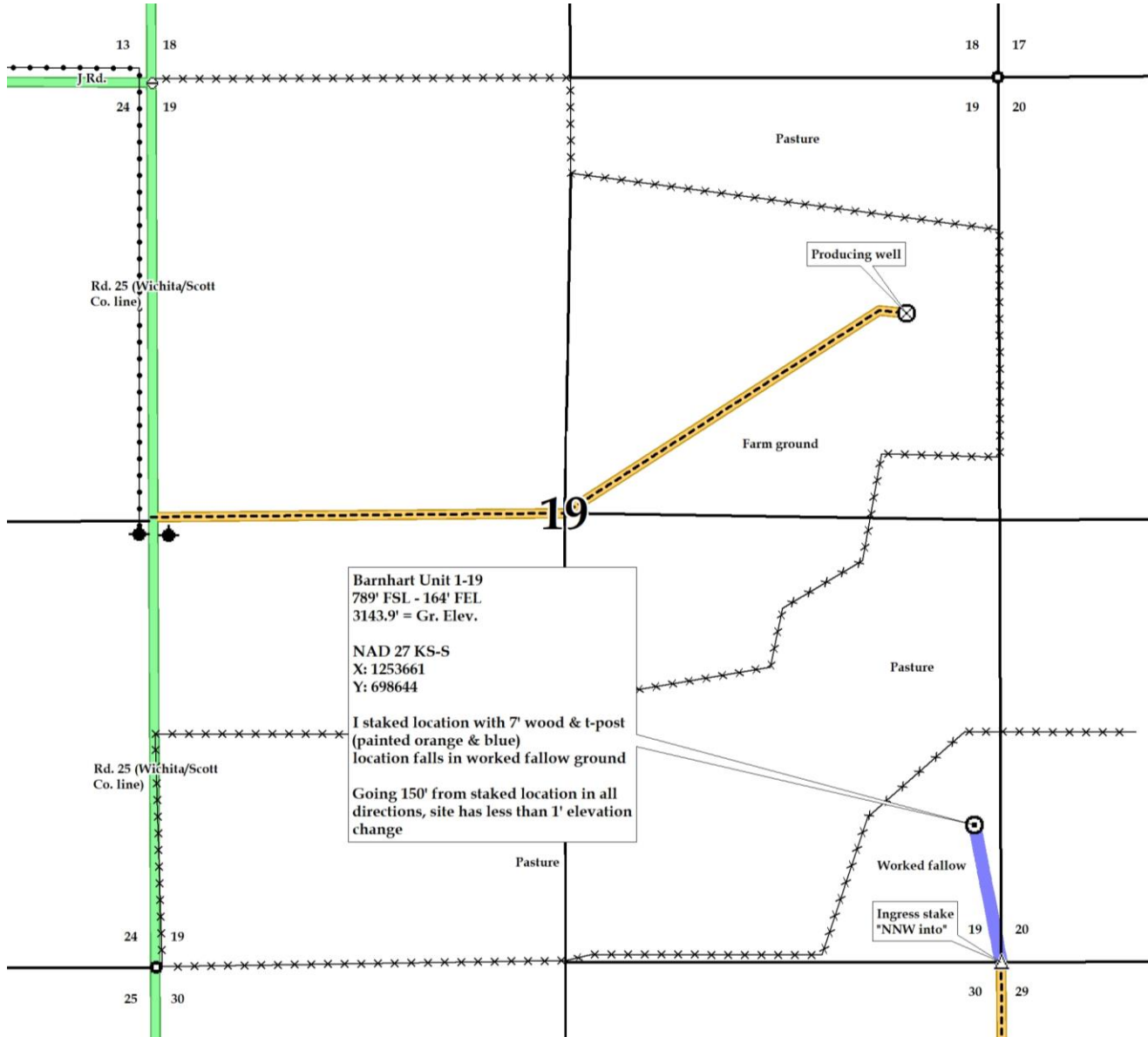
SCALE: 1" = 1000'
DATE STAKED: Sept 6, 2022
MEASURED BY: Jay K.
DRAWN BY: Jay K.
AUTHORIZED BY: Becky P.
DATE REVISED:



DIRECTIONS: From Scott City, Ks. at the intersection of Hwy 83 & Hwy 96 – go 12 miles West on Hwy 96 to Rd. 25 (Wichita/Scott Co. line) – Now Go 4 miles North on Rd. 25 – Now go 1 mile East on W Rd. 190 to ingress stake “North into” – Now go 1 mile North on trail rd. to ingress stake “NNW into” – Now go approx. 850’ NNW through worked fallow ground into staked location

Final ingress must be verified with landowner or operator.
*This drawing does not constitute a monumented survey or a land survey plat.
This drawing is for construction purposes only.*

LANDOWNER/CONTACT: Clint France (620)874-4074





18-17s-34w L-999
CRD NO.

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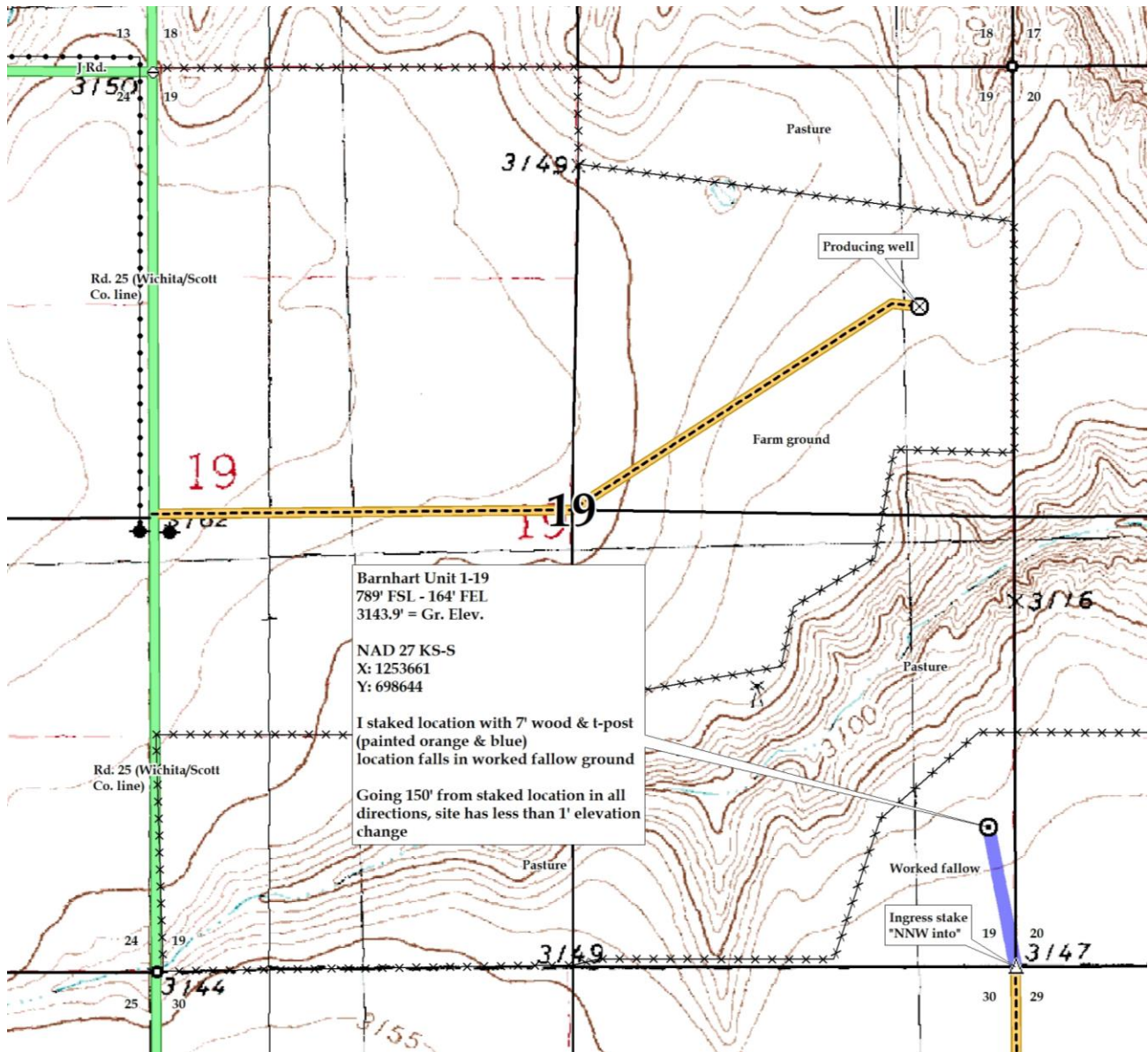
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