

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	Daystar Petroleum, Inc.
Well Name	GRAVES 4
Doc ID	1670908

Tops

Name	Top	Datum
Heebner	3792	890
Toronto	380	907
Lansing	3837	935
BKC	4301	1399
Marmaton	4327	1425
Altamont	4342	1440
Pawnee	4407	1505
Fort Scott	4426	1524
Cher. Sh.	4448	1546
Morr. Sh.	4627	1725
Morr. Sd.	4665	1763
Miss.	4693	1791
St. Louis B	4706	1804

RECEIVED AUG 17 2022

QUALITY WELL SERVICE, INC.

8057

Federal Tax I.D. # 481187368

Home Office 30060 N. Hwy 281, Pratt, KS 67124

Mailing Address P.O. Box 468

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

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

Date	Sec.	Twp.	Range	County	State	On Location	Finish
3-10-22	16	22S	33 W	FINNEY	KI		
Lease GRAVES	Well No. 4	Location GARDEN CITY KI N TO BARLOW RD					
Contractor MURFIN DRILLING RIG	Owner W to CHMELKORD 1 N E into						
Type Job SURFACE	To Quality Well Service, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.						
Hole Size 12 1/4	T.D. 370'	Charge To DASTAK PETROLEUM INC					
Csg. 35/3	Depth 350'	Street 522 N. MAIN ST. P.O Box 560					
Tbg. Size	Depth	City EUREKA State KI 67045					
Tool	Depth	City EUREKA State KI 67045					
Cement Left in Csg.	Shoe Joint 25'	The above was done to satisfaction and supervision of owner agent or contractor.					
Meas Line	Displace 20.67	Cement Amount Ordered 275 SL Common					
EQUIPMENT				2 1/2 GAL 3 1/2 CL 1/2" PS			
Pumptrk 9 No.		Common 275					
Bulktrk 15 No.		Poz. Mix					
Bulktrk No.		Gel. 517#					
Pickup No.		Calcium 776#					
JOB SERVICES & REMARKS				Hulls			
Rat Hole		Salt					
Mouse Hole		Flowseal 137.5					
Centralizers		Kol-Seal					
Baskets		Mud CLR 48					
D/V or Port Collar		CFL-117 or CD110 CAF 38					
Run 9 H's 35/3 24" CS6 SET @ 350'				Sand			
START CS6 CS6 on Bottom				Handling 296 296			
Hook up to CS6 & Break circulation				Mileage 90 / 12000			
START Pumping H2O				FLOAT EQUIPMENT			
START mic Pump 075 SL Common				Guide Shoe			
2 1/2 GAL 3 1/2 CL 1/2" PS @ 14.3"/GAL				Centralizer			
START DISO				Baskets			
Plug DOWN				AFU Inserts			
Close VALVE on CS6 100" @ 150"				Float Shoe			
Good circ thru JOBS				Latch Down			
Circ CMT TO PIT				SERVICE Sump 1 EA			
THANK YOU				LMPN 30			
PLEASE CALL AGAIN				Pumptrk Charge SURFACE			
TODD MIKE BRADY				Mileage 160			
Signature				Tax			
				Discount			
				Total Charge			



Customer	Daystar Petroleum		Lease & Well #	Graves # 4		Date	8/17/2022	
Service District	Oakley KS		County & State	Finney KS		Legals S/T/R	16-22S-33W	
Job Type	2 Stage		<input checked="" type="checkbox"/> PROD	<input type="checkbox"/> INJ	<input type="checkbox"/> SWD	New Well?	<input checked="" type="checkbox"/> YES <input type="checkbox"/> No	
Equipment #	Driver	Job Safety Analysis - A Discussion of Hazards & Safety Procedures						
78	Jesse	<input checked="" type="checkbox"/> Hard hat	<input checked="" type="checkbox"/> Gloves	<input type="checkbox"/> Lockout/Tagout	<input type="checkbox"/> Warning Signs & Flagging			
230	Michael	<input checked="" type="checkbox"/> H2S Monitor	<input checked="" type="checkbox"/> Eye Protection	<input type="checkbox"/> Required Permits	<input type="checkbox"/> Fall Protection			
194-235	Kale	<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			
157-254	Tyler	<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 type="checkbox"/> Fire Extinguisher	<input type="checkbox"/> Additional concerns or issues noted below				
Comments								

Product/Service Code	Description	Unit of Measure	Quantity	Net Amount	
CP025	H-Con	sack	425.00	\$10,625.00	
CP014	H-LD Cement Blend	sack	175.00	\$8,750.00	
M015	Light Equipment Mileage	mi	100.00	\$200.00	
M010	Heavy Equipment Mileage	mi	400.00	\$1,600.00	
M020	Ton Mileage	tm	2,825.00	\$4,237.50	
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	635.00	\$689.00	
FE135	5 1/2 Turbolizer	ea	11.00	\$1,375.00	
FE130	5 1/2" Cement Basket	ea	2.00	\$600.00	
FE146	5 1/2" Weatherford AFU Float Shoe	ea	1.00	\$750.00	
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	
R061	Service Supervisor	day	1.00	\$275.00	
CP170	Mud Flush	gal	500.00	\$500.00	
CP137	Liquid Defoamer	gal	1.00	\$73.00	
FE375	Thread Lock Compound Kit	ea	1.00	\$75.00	
				Net:	\$38,359.50

Customer Section: On the following scale how would you rate Hurricane Services Inc.?		Total Taxable	\$ -	Tax Rate:		Net:	\$38,359.50
Based on this job, how likely is it you would recommend HSI to a colleague?		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:	\$ -	Total:	\$ 38,359.50
<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		HSI Representative: <i>Jesse Jones</i>					

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:	Daystar Petroleum	Well:	Graves # 4	Ticket:	WP-3242
City, State:	Garden City KS	County:	Finney KS	Date:	8/17/2022
Field Rep:	Paco	S-T-R:	16-22S-33W	Service:	2 Stage

Downhole Information	
Hole Size:	7 7/8 in
Hole Depth:	4800 ft
Casing Size:	5 1/2 in
Casing Depth:	4798 ft
Tubing / Liner:	in
Depth:	ft
Tool / Packer:	D.V.
Tool Depth:	2001 ft
Displacement:	114.2 bbls

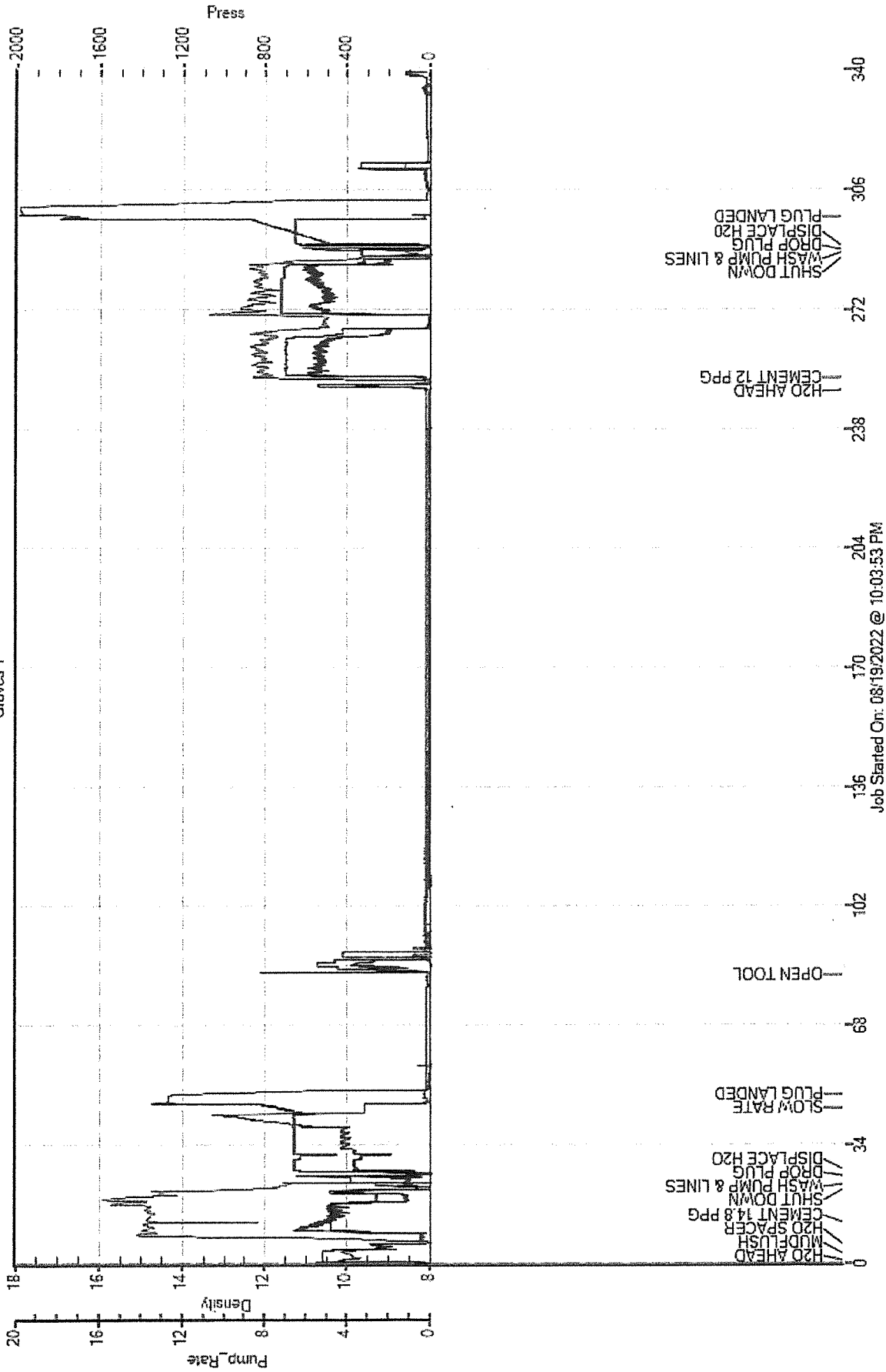
Calculated Slurry - Lead	
Blend:	H-LD
Weight:	14.8 ppg
Water / Sx:	6.5 gal / sx
Yield:	1.51 ft ³ / sx
Annular Bbls / Ft.:	0.0309 bbs / ft.
Depth:	4798 ft
Annular Volume:	148.3 bbls
Excess:	
Total Slurry:	47.1 bbls
Total Sacks:	175 sx

Calculated Slurry - Tail	
Blend:	H-Con
Weight:	12 ppg
Water / Sx:	15.5 gal / sx
Yield:	2.56 ft ³ / sx
Annular Bbls / Ft.:	0.0309 bbs / ft.
Depth:	4798 ft
Annular Volume:	148.2582 bbls
Excess:	
Total Slurry:	193.7 bbls
Total Sacks:	425 sx

TIME	RATE	PSI	STAGE BBLs	TOTAL BBLs	REMARKS
7:00p			-	-	Arrival
7:05p					Safety meeting
8:35p					Run float equipment D.V. tool is top of joint 65 @ 2001'
11:15p					Drop ball
11:20p					Rig up
11:30p					Circulate hole for 1.5 hours
1:20a	5.2	410.0	5.0	5.0	H2O ahead
1:21a	5.2	370.0	12.0	17.0	Mixed 500 gallons of mud flush
1:25a	5.1	420.0	5.0	22.0	H2O behind
1:30a	4.8	580.0	47.1	69.1	Mixed 175 sks of H-LD @ 14.8 ppg @ 4798'
1:41a				69.1	Shut down and wash up
1:45a					Drop plug
1:47a	6.6	360.0	40.0		Displaced H2O
1:50a	6.6	530.0	73.0		Displaced mud
2:00a	3.2	1,350.0	133.7		Land plug
2:15a					Drop bomb
2:45a	1.0	825.0	0.5		Open D.V. tool
2:50a		250.0			Circulated hole with rig
5:20a	5.3	340.0	5.0		H2O ahead
5:34a	7.0	550.0	193.7		Mixed 395sks of H-con @ 12 ppg @ 2001'
5:40a	7.0	550.0	13.6		Mixed 30 sks of H-con @ 12 ppg @ Rat hole
6:05a					Shut down and wash up
6:07a					Drop plug
6:12a	6.6	580.0	66.5		Displaced H2O
6:30a	3.0	1,950.0	47.0		Land plug
6:34a					Wash up
6:45a					Rig down

CREW		UNIT	SUMMARY		
Cementer:	Jesse	78	Average Rate	Average Pressure	Total Fluid
Pump Operator:	Michael	230	5.1 bpm	648 psi	642 bbls
Bulk #1:	Kale	194-235			
Bulk #2:	Tyler	157-254			

Daystar Petroleum Graves 1





DRILL STEM TEST REPORT

Prepared For: **Daystar Petroleum**

522 N Main St
Eureka, KS 67045

ATTN: Tom Williams

Graves #4

16-22s-33w Finney,KS

Start Date: 2022.08.14 @ 20:03:43

End Date: 2022.08.15 @ 04:02:13

Job Ticket #: 69126 DST #: 1

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

Printed: 2022.08.19 @ 09:43:00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Daystar Petroleum

16-22s-33w Finney,KS

522 N Main St
Eureka, KS 67045

Graves #4

Job Ticket: 69126

DST#: 1

ATTN: Tom Williams

Test Start: 2022.08.14 @ 20:03:43

GENERAL INFORMATION:

Formation: **Pawnee- Ft Scott**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 23:34:43

Time Test Ended: 04:02:13

Test Type: Conventional Bottom Hole (Initial)

Tester: Brandon Turley

Unit No: 79

Interval: 4401.00 ft (KB) To 4446.00 ft (KB) (TVD)

Reference Elevations: 2902.00 ft (KB)

Total Depth: 4446.00 ft (KB) (TVD)

2894.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

Serial #: 8674 Outside

Press@RunDepth: 57.01 psig @ 4402.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2022.08.14

End Date:

2022.08.15

Last Calib.:

2022.08.15

Start Time: 20:03:48

End Time:

04:02:12

Time On Btm:

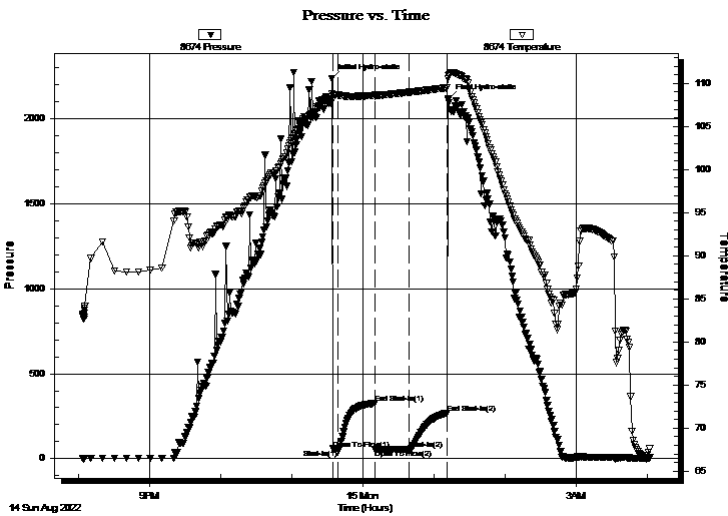
2022.08.14 @ 23:33:43

Time Off Btm:

2022.08.15 @ 01:12:13

TEST COMMENT: IF: 1/4" blow .
IS: No return.
FF: No blow .
FS: No return. 5-30-30-30

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2239.58	108.82	Initial Hydro-static
1	57.68	108.20	Open To Flow (1)
6	55.53	108.64	Shut-In(1)
36	325.20	108.62	End Shut-In(1)
37	56.40	108.55	Open To Flow (2)
66	57.01	108.99	Shut-In(2)
97	268.86	109.49	End Shut-In(2)
99	2119.29	110.91	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	mud 100%m	0.05

Gas Rates

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



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

Daystar Petroleum

16-22s-33w Finney, KS

522 N Main St
Eureka, KS 67045

Graves #4

Job Ticket: 69126

DST#: 1

ATTN: Tom Williams

Test Start: 2022.08.14 @ 20:03:43

GENERAL INFORMATION:

Formation: **Pawnee- Ft Scott**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 23:34:43

Time Test Ended: 04:02:13

Test Type: Conventional Bottom Hole (Initial)

Tester: Brandon Turley

Unit No: 79

Interval: 4401.00 ft (KB) To 4446.00 ft (KB) (TVD)

Reference Elevations: 2902.00 ft (KB)

Total Depth: 4446.00 ft (KB) (TVD)

2894.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

Serial #: 8790 Inside

Press@RunDepth: psig @ 4402.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2022.08.14

End Date:

2022.08.15

Last Calib.:

2022.08.15

Start Time: 20:03:48

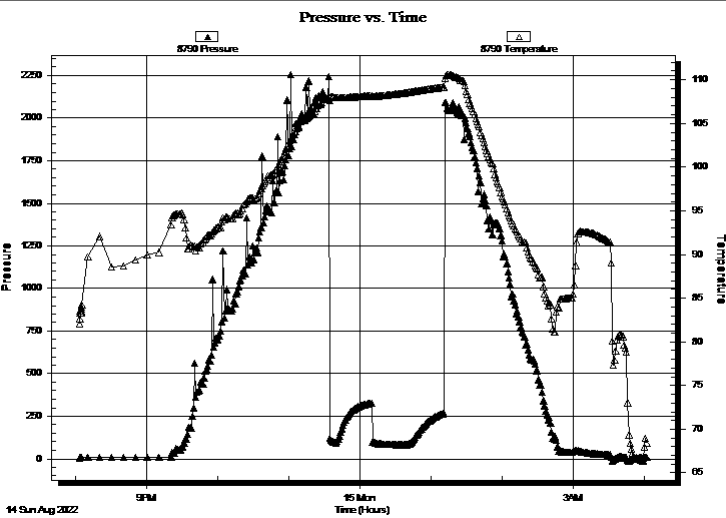
End Time:

04:02:12

Time On Btm:

Time Off Btm:

TEST COMMENT: IF: 1/4" blow .
IS: No return.
FF: No blow .
FS: No return. 5-30-30-30



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
10.00	mud 100%m	0.05

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Daystar Petroleum

16-22s-33w Finney,KS

522 N Main St
Eureka, KS 67045

Graves #4

Job Ticket: 69126

DST#: 1

ATTN: Tom Williams

Test Start: 2022.08.14 @ 20:03:43

Tool Information

Drill Pipe:	Length: 4210.00 ft	Diameter: 3.80 inches	Volume: 59.06 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 178.00 ft	Diameter: 2.25 inches	Volume: 0.88 bbl	Weight to Pull Loose: 85000.00 lb
			<u>Total Volume: 59.94 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	18.00 ft			String Weight: Initial 58000.00 lb
Depth to Top Packer:	4401.00 ft			Final 58000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	45.00 ft			
Tool Length:	76.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Stubb	1.00		Fluid	4371.00	
Shut In Tool	5.00			4376.00	
Sampler	2.00			4378.00	
Hydraulic tool	5.00			4383.00	
Jars	5.00			4388.00	
EM Tool	2.00			4390.00	
Safety Joint	2.00			4392.00	
Packer	5.00			4397.00	31.00 Bottom Of Top Packer
Packer	4.00			4401.00	
Stubb	1.00			4402.00	
Recorder	0.00	8790	Inside	4402.00	
Recorder	0.00	8674	Outside	4402.00	
Perforations	7.00			4409.00	
Change Over Sub	1.00			4410.00	
Drill Pipe	32.00			4442.00	
Change Over Sub	1.00			4443.00	
Bullnose	3.00			4446.00	45.00 Bottom Packers & Anchor
Total Tool Length:	76.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Daystar Petroleum

16-22s-33w Finney,KS

522 N Main St
Eureka, KS 67045

Graves #4

Job Ticket: 69126

DST#: 1

ATTN: Tom Williams

Test Start: 2022.08.14 @ 20:03:43

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: 46.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.79 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 3000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	mud 100%m	0.049

Total Length: 10.00 ft Total Volume: 0.049 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

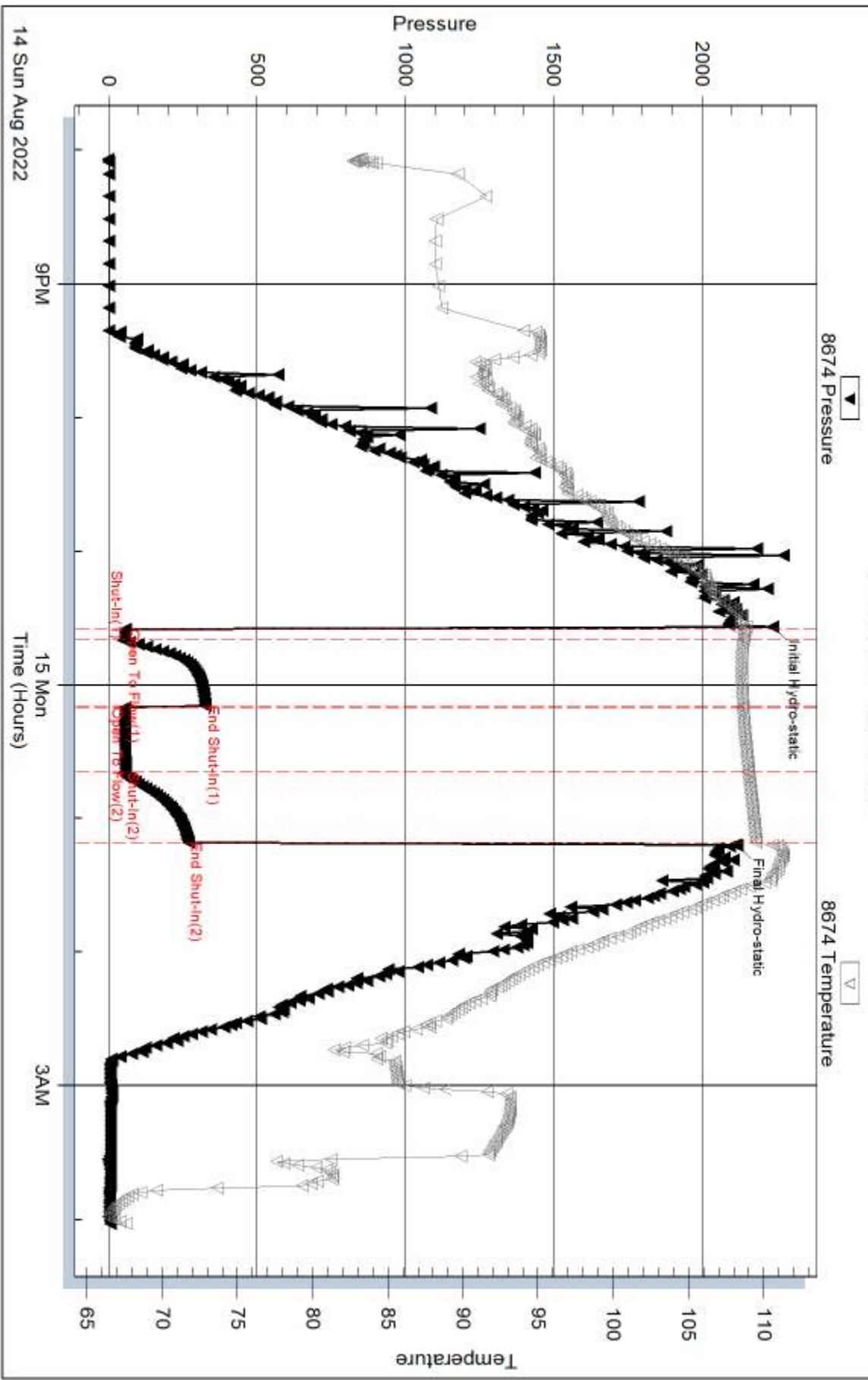
Serial #: 8674

Outside Daystar Petroleum

Graves #4

DST Test Number: 1

Pressure vs. Time



Serial #: 8790

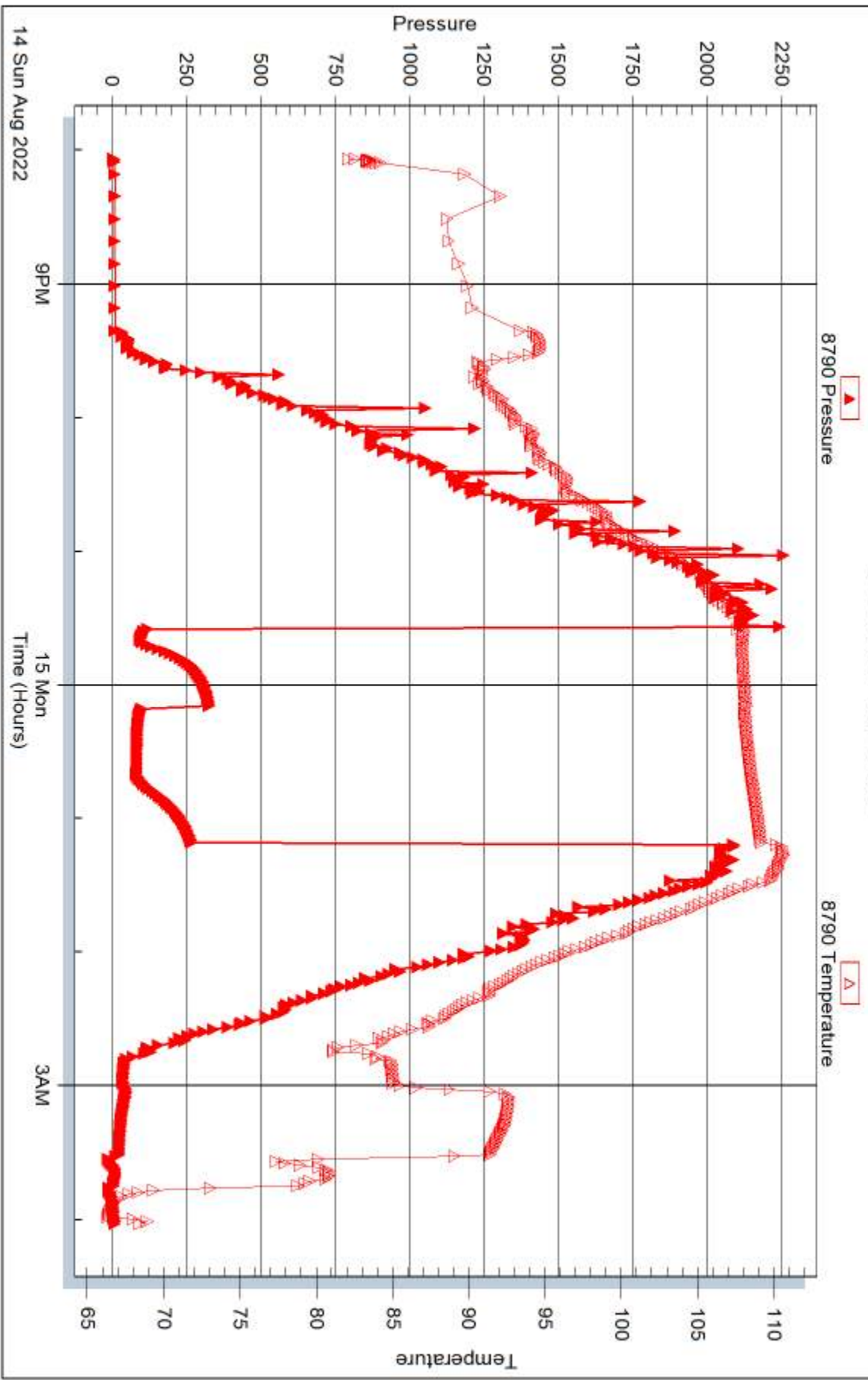
Inside

Daystar Petroleum

Graves #4

DST Test Number: 1

Pressure vs. Time



Trilobite Testing, Inc

Ref. No: 69126

Printed: 2022.08.19 @ 09:43:01



DRILL STEM TEST REPORT

Prepared For: **Daystar Petroleum**

522 N Main St
Eureka, KS 67045

ATTN: Tom Williams

Graves #4

16-22s-33w Finney,KS

Start Date: 2022.08.16 @ 06:50:44

End Date: 2022.08.16 @ 12:07:14

Job Ticket #: 69127 DST #: 2

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

Printed: 2022.08.19 @ 09:38:20



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Daystar Petroleum

16-22s-33w Finney,KS

522 N Main St
Eureka, KS 67045

Graves #4

Job Ticket: 69127

DST#: 2

ATTN: Tom Williams

Test Start: 2022.08.16 @ 06:50:44

GENERAL INFORMATION:

Formation: **St Louis**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 09:20:44

Time Test Ended: 12:07:14

Test Type: Conventional Bottom Hole (Reset)

Tester: Brandon Turley

Unit No: 79

Interval: 4677.00 ft (KB) To 4710.00 ft (KB) (TVD)

Reference Elevations: 2902.00 ft (KB)

Total Depth: 4710.00 ft (KB) (TVD)

2894.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

Serial #: 8674 Outside

Press@RunDepth: psig @ 4678.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2022.08.16

End Date: 2022.08.16

Last Calib.: 2022.08.16

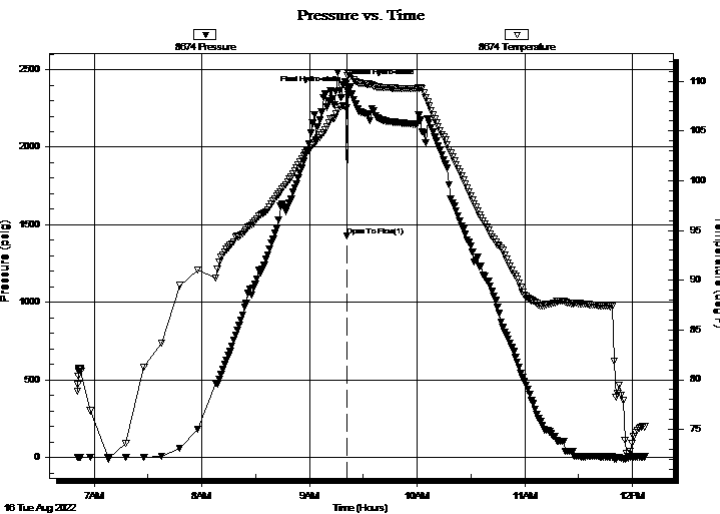
Start Time: 06:50:49

End Time: 12:07:13

Time On Btm: 2022.08.16 @ 09:20:14

Time Off Btm: 2022.08.16 @ 09:21:14

TEST COMMENT: Packer Failure



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2407.18	107.30	Initial Hydro-static
1	1428.31	107.36	Open To Flow (1)
1	2362.06	110.53	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
279.00	mud 100%m	2.29

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Daystar Petroleum

16-22s-33w Finney, KS

522 N Main St
Eureka, KS 67045

Graves #4

Job Ticket: 69127

DST#: 2

ATTN: Tom Williams

Test Start: 2022.08.16 @ 06:50:44

GENERAL INFORMATION:

Formation: **St Louis**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 09:20:44

Time Test Ended: 12:07:14

Test Type: Conventional Bottom Hole (Reset)

Tester: Brandon Turley

Unit No: 79

Interval: 4677.00 ft (KB) To 4710.00 ft (KB) (TVD)

Reference Elevations: 2902.00 ft (KB)

Total Depth: 4710.00 ft (KB) (TVD)

2894.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

Serial #: 8790 Inside

Press@RunDepth: psig @ 4678.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2022.08.16

End Date: 2022.08.16

Last Calib.: 2022.08.16

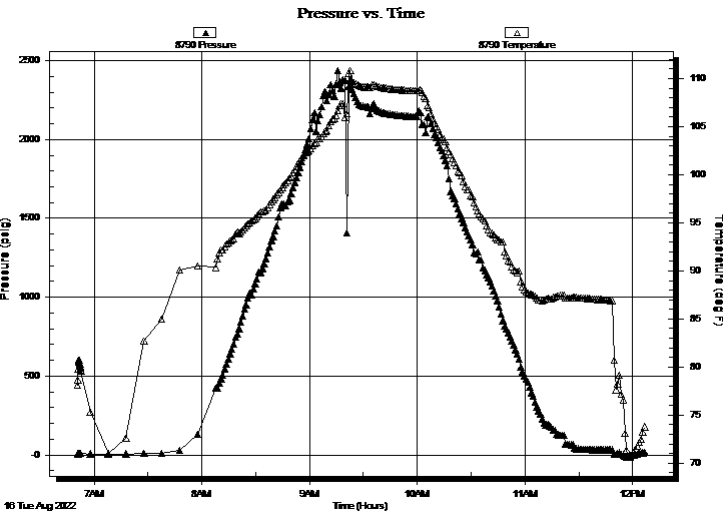
Start Time: 06:50:47

End Time: 12:07:11

Time On Btm:

Time Off Btm:

TEST COMMENT: Packer Failure



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
279.00	mud 100%m	2.29

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Daystar Petroleum

16-22s-33w Finney,KS

522 N Main St
Eureka, KS 67045

Graves #4

Job Ticket: 69127

DST#: 2

ATTN: Tom Williams

Test Start: 2022.08.16 @ 06:50:44

Tool Information

Drill Pipe:	Length: 4488.00 ft	Diameter: 3.80 inches	Volume: 62.95 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 178.00 ft	Diameter: 2.25 inches	Volume: 0.88 bbl	Weight to Pull Loose: 62000.00 lb
			<u>Total Volume: 63.83 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	4677.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	33.00 ft			
Tool Length:	64.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
------------------	-------------	------------	----------	------------	----------------

Stubb	1.00		Fluid	4647.00	
Shut In Tool	5.00			4652.00	
Sampler	2.00			4654.00	
Hydraulic tool	5.00			4659.00	
Jars	5.00			4664.00	
EM Tool	2.00			4666.00	
Safety Joint	2.00			4668.00	
Packer	5.00			4673.00	31.00 Bottom Of Top Packer
Packer	4.00			4677.00	
Stubb	1.00			4678.00	
Recorder	0.00	8790	Inside	4678.00	
Recorder	0.00	8674	Outside	4678.00	
Perforations	29.00			4707.00	
Bullnose	3.00			4710.00	33.00 Bottom Packers & Anchor

Total Tool Length: 64.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Daystar Petroleum

16-22s-33w Finney,KS

522 N Main St
Eureka, KS 67045

Graves #4

Job Ticket: 69127

DST#: 2

ATTN: Tom Williams

Test Start: 2022.08.16 @ 06:50:44

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: 46.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.79 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 3700.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
279.00	mud 100%m	2.292

Total Length: 279.00 ft Total Volume: 2.292 bbl

Num Fluid Samples: 0

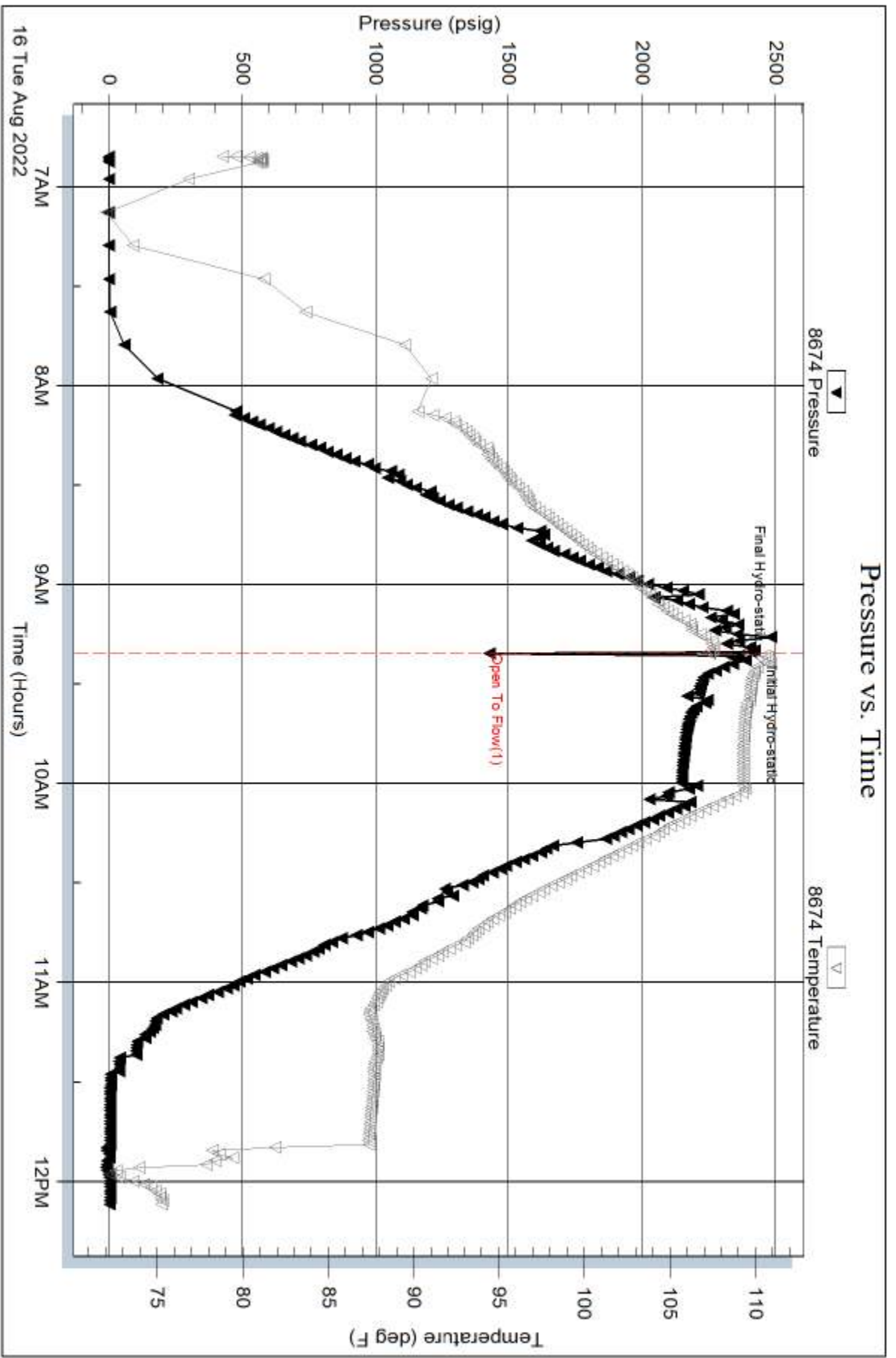
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



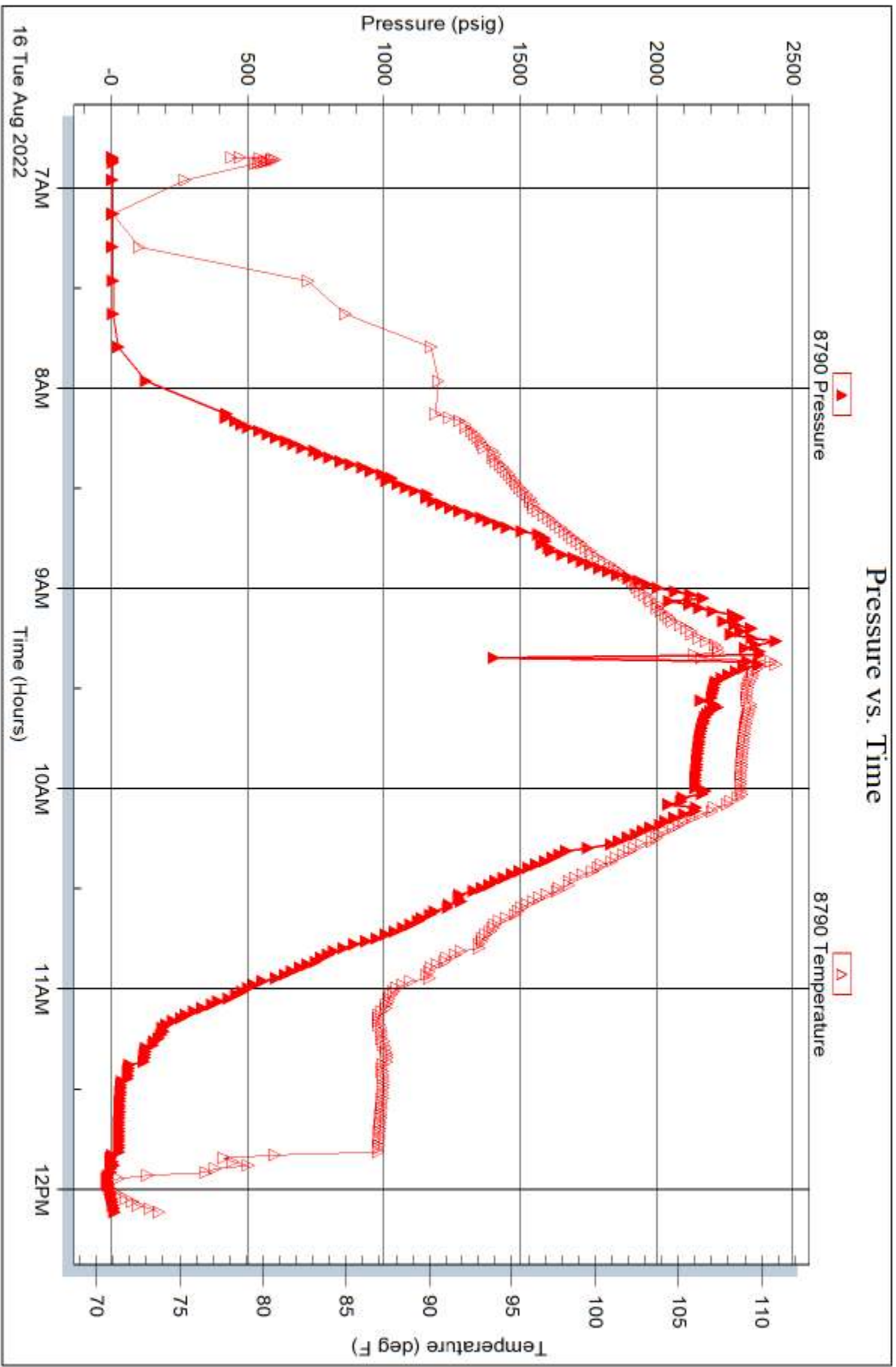
Serial #: 8790

Inside

Daystar Petroleum

Graves #4

DST Test Number: 2



Triobite Testing, Inc

Ref. No: 69127

Printed: 2022.08.19 @ 09:38:22



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 69126

Well Name & No. Dagstar Petroleum #4 Test No. 1 Date 8-14-22
 Company Dagstar Petroleum Elevation 2902 KB 2894 GL
 Address 522 N Main St Eureka KS 67045
 Co. Rep / Geo. Tom Williams Rig Murkin 112
 Location: Sec. 16 Twp 22S Rge. 33W Co. Finney State KS

Interval Tested 4401 4446 Zone Tested Pawnee - Ft Scott
 Anchor Length 45 Drill Pipe Run 4210 Mud Wt. 9.2
 Top Packer Depth 4396 Drill Collars Run 178 Vis 46
 Bottom Packer Depth 4401 Wt. Pipe Run — WL 8.8
 Total Depth 4446 Chlorides 3000 ppm System LCM 4

Blow Description IF: 1/4 blow.
FS: No return.
FB: No blow
FS: No return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>10</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	Feet of	%gas	%oil	%water	%mud

Rec Total 10 BHT 109 Gravity — API RW — @ — ° F Chlorides — ppm

(A) Initial Hydrostatic 2239 Test 1950 T-On Location 18:00
 (B) First Initial Flow 57 Jars 300 T-Started 20:03
 (C) First Final Flow 55 Safety Joint T-Open 23:34
 (D) Initial Shut-In 325 Circ Sub NIL T-Pulled 1:09
 (E) Second Initial Flow 56 Hourly Standby T-Out 4:03
 (F) Second Final Flow 57 Mileage 60- 90 Comments
 (G) Final Shut-In 268 Sampler 250
 (H) Final Hydrostatic 2119 Straddle EM Tool
 Shale Packer Ruined Shale Packer
 Extra Packer Ruined Packer X2 920
 Extra Recorder Extra Copies
 Day Standby Sub Total 920
 Accessibility Total 3510
 Sub Total 2590 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

FLUID SAMPLER DATA

Ticket No. 69126 Date 8-14-22
 Company Name Daystar Petroleum
 Lease Graves #4 Test No. 1
 County Finney Sec. 16 Twp. 22^s Rng. 33^w

SAMPLER RECOVERY

Gas _____ ML
 Oil _____ ML
 Mud 2000 ML
 Water _____ ML
 Other _____ ML
 Pressure 8 psi ML
 Total 2000 ML

PIT MUD ANALYSIS

Chlorides 3000 ppm.
 Resistivity _____ ohms @ _____ F
 Viscosity 46
 Mud Weight 9.2
 Filtrate 8.8
 Other LCM 4

SAMPLER ANALYSIS

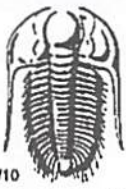
Resistivity _____ ohms @ _____ F
 Chlorides _____ ppm.
 Gravity _____ corrected @60F

PIPE RECOVERY

TOP
 Resistivity _____ ohms @ _____ F
 Chlorides _____ ppm.

MIDDLE
 Resistivity _____ ohms @ _____ F
 Chlorides _____ ppm.

BOTTOM
 Resistivity _____ ohms @ _____ F
 Chlorides _____ ppm.



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 69127

Well Name & No. Graves #4 Test No. 2 Date 8-16-22
 Company Daystar Petroleum Elevation 2902 KB 2894 GL
 Address _____
 Co. Rep / Geo. Tom Williams Rig Murfin 112
 Location: Sec. 16 Twp 22S Rge. 33W Co. Finney State K5

Interval Tested 4677 4710 Zone Tested St Louis
 Anchor Length _____ 33 Drill Pipe Run 4488 Mud Wt. 9.1
 Top Packer Depth _____ 4672 Drill Collars Run 178 Vls 46
 Bottom Packer Depth _____ 4677 Wt. Pipe Run _____ WL 8.8
 Total Depth _____ 4710 Chlorides 3700 ppm System LCM 5
 Blow Description Packer failure

Rec	Feet of	%gas	%oil	%water	%mud
<u>279</u>	<u>mud</u>			<u>100</u>	
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

Rec Total 279 BHT 107 Gravity _____ API RW _____ @ _____ ° F Chlorides _____ ppm

(A) Initial Hydrostatic 2407 Test 1500 T-On Location 5:40
 (B) First Initial Flow 1428 Jars 300 T-Started 6:50
 (C) First Final Flow _____ Safety Joint _____ T-Open 9:20
 (D) Initial Shut-In _____ Circ Sub N/C T-Pulled 9:25
 (E) Second Initial Flow _____ Hourly Standby _____ T-Out 12:10
 (F) Second Final Flow _____ Mileage 60-42 180 Comments _____
 (G) Final Shut-In _____ Sampler _____
 (H) Final Hydrostatic 2362 Straddle _____ EM Tool _____
 Shale Packer _____ Ruined Shale Packer _____
 Extra Packer _____ Ruined Packer _____
 Extra Recorder _____ Extra Copies _____
 Day Standby _____ Sub Total 0
 Accessibility _____ Total 1980
 Sub Total 1980 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.

Daystar Petroleum

Graves #4

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

Well Name: Graves #4
API: 15-055-22566-00-00
Location: Section 16-T22S-R33W
License Number: KCC #30931
Spud Date: 8/10/2022
Surface Coordinates: 978' FNL & 1,191' FWL
Region: Finney Co, KS
Drilling Completed: 8/17/2022
Bottom Hole Coordinates: 978' FNL & 1,191' FWL
Ground Elevation (ft): 2,894'
Logged Interval (ft): 3,600' To: 4,800'
Formation: Mississippian St. Louis
Type of Drilling Fluid: Chemical
K.B. Elevation (ft): 2,902'
Total Depth (ft): 4,800'

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

OPERATOR

Company: Daystar Petroleum, Inc.
Address: 522 N. Main St.
Eureka, KS 67045

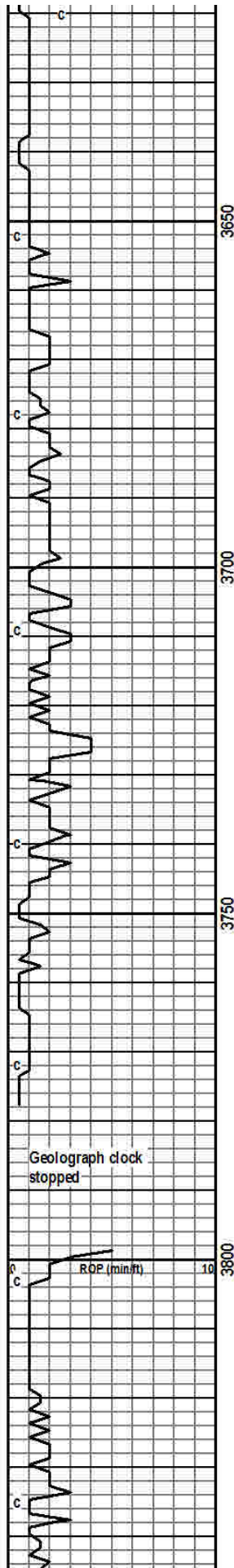
GEOLOGIST

Name: Thomas M. Williams
Company: Petroleum Geologist
Address: Wichita, KS

CORE

Contractor:
Core #:
Formation:
Core Interval: From: Cut:
To: Recovered:
Bit type:
Size:
Coring Time:

DSTs



3650

3700

3750

3800

Ls, buff, tan, lt. gry, m. xln, fair to well dev. int. xln. & vug. porosity, no show, no odor, w/ gry shale.

Ls, buff, tan, lt. gry, dns, f-m xln, foss, tr. chert, p. dev. int. xln. & vug. porosity, no shows, chalky.

Ls, tan, dns, v. foss, f-m xln, poor to fair int. xln. & vug. porosity, no show, no odor, no fluor.

Ls, tan, dns, v. foss, f-m xln, poorly dev. to no vis. porosity, no show, no odor, no fluor.

Ls, buff, tan, mottled w/ brown, dns. to sub-chalky, fair to well dev. int. xln. & vug. porosity, no shows, no fluor, no odor.

Ls, buff-wh, tan, mottled brown, v. fossiliferous, f-m xln, chalky in part, well dev. int. xln. porosity, no show, no fluor, no odor.

Heebner Sh 3792 (-890)

Sh, black, carbonaceous, gassy.

Ls, lt. gry, tan, v. dns, micritic.

Sh, lt. gry, grn, silty in part, fissile

Toronto Lm 3809 (-907)

Ls, lt. gry-wh, buff, m-c xln, foss, fair dev. int. xln. porosity, no show, no fluor, no odor.

Sh, lt. gry, calcareous, fissile.

Ls, crm. wh, tan, f-m xln, poorly dev. int. xln. porosity, no show.

Lansing 3837 (-935)

Ls, buff, crm. wh, f-m xln, foss, ool, p. dev. int. xln. & vug. porosity, no show.

On Location @
3652' Bit Trip

Tally 3652.04
Strap 3646.63
5.41' short

Survey 1/2 degree

Strap correction to
geograph @
3678'.

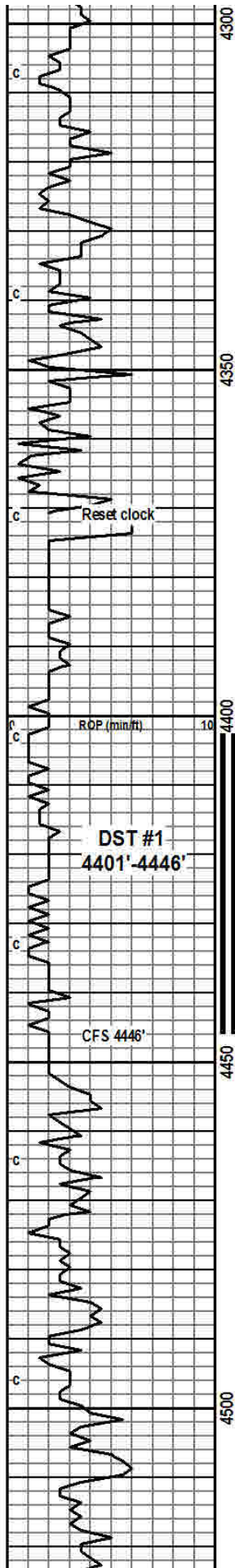
Wt. 9.0
Vis. 52
LCM 3#

Wt. 8.9
Vis. 68
LCM 4#

Carb. Shale in 3800'
sample

TG. G1-C5

300



Base/KC 4301 (-1399)

Sh, gry-green, red-brn, non-fissile.

Siltstone, lt. gry, sandy, w/ pyrite.

Sh, lt. gry, silty, w/ pyrite

Marmaton 4327 (-1425)

Ls, tan, brown, gry, v. dns, f. xln. to micritic, no vis. porosity, no show.

Altamont 4342 (-1440)

Ls, tan, f-c xln, v. foss, poor dev. int. foss. & vug. porosity, no shows, no fluor, no odor, no staining.

Sh, lt. to med. gry, red-brn, silty.

Ls, lt. brn, v. dns, micritic, ool.

Sh, lt. to med. gry, red-brn, silty.

Ls, lt. brn, v. dns, micritic, foss.

Sh, rust red, brick red, silty.

Ls, lt. gry-wh, v. dns, f. xln, no vis. porosity.

Ls, gry, brn, arg. & shaley, no vis. porosity, no show, no fluor.

Sh, med. gry, calcareous, fissile.

Pawnee 4407 (-1505)

Ls, buff, f-m xln, oolitic, w/ fair dev. vug. & int. xln. porosity, slight to fair show oil, dull yellow fluor, slight odor, uneven lt. brn. oil staining.

Sh, black, carbonaceous, gassy.

Ft. Scott 4426 (-1524)

Ls, buff, m. xln, oolitic & foss, w/ fair dev. int. foss. & vug. porosity, slight show oil, dull yellow fluor, slight odor, uneven lt. brown str.

Cherokee Sh 4448 (-1546)

Sh, black, carbonaceous, gassy.

Ls, brn, gry, v. dns, micritic.

Ls. & Sh, gry, dns, thinly bedded.

Ls, drk gry, arg. & shaley, v. dns.

Sh, med. to drk gry, fissile.

Ls, lt. to med. gry, tan, pell, v. dns, granular, no vis. porosity, no show.

Ls, buff, lt. gry, gry-wh, granular, no vis. porosity, no shows.

Sh, med. gry, calcareous, fissile.

Ls, tan, lt. gry, f-c xln, granular, no vis. porosity, no show, no fluor.

Sh, lt. to med. gry, calcareous.

Ls, tan, gry, v. dns, micritic.

Sh, black, carbonaceous, gassy.

Ls, tan, lt. gry, f-c xln, grainstone, fr. glauconite, no shows.

Wt. 8.9
Vis. 52
LCM 5#

TG. C1-C5 DST #1 300

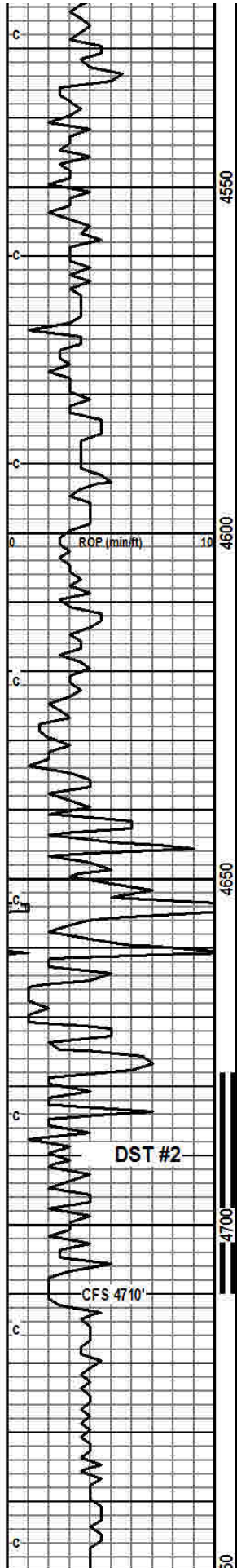
4401'-4446'
IHP 2239#
IFP 58-56#
ISIP 325#
FFP 56-57#
FSIP 269#
FHP 2119#
Rec: 10' mud

Mud-Co Report
@ 4446' 8/14/22
Wt. 9.2
Vis. 46
Filtrate 8.8
Chl. 3,000
LCM 4#

Short trip 22
stands, pulled tight.
CTCH 110 minutes

Mud-Co Report
@ 4446' 8/15/22
Wt. 9.1
Vis. 46
Filtrate 8.8
Chl. 3,700
LCM 5#

Carb. Shale in 4520' sample



Ls, lt. to med. gry tan, f. xln. to micritic, no vis. porosity, no show.

Sh, med. to drk. gry, silty in part.

Ls, lt. to med. gry tan, f. xln. to micritic, no vis. porosity, no show.

Ls, tan, lt. brn, v. dns, f. xln. to micritic, no vis. porosity, no show.

Ls, lt. gry, tan, v. dns, f. xln. to micritic, no vis. porosity, no show.

Ls, lt. gry, tan, buff, dns, f. xln, no vis. porosity, slight show gas when broken, no fluor, slight odor, no staining.

Sh, drk. gry, calcareous fissle

Ls, med. gry-wh, drk. gry, arg., no vis. porosity, no shows.

Ls, med. gry-wh, drk. gry, w/ black chert, arg., no vis. porosity, no shows.

Morrow Sh 4627 (-1725)
Sh, lt. gry, w/ few Sd. clusters, wh, f-m gr, poorly sorted, well cen., glauconitic, v. slight show gas, no fluor, slight odor, no staining.

Sh, lt. to drk. gry, dns, silty.

Sh, lt. to med. gry, grn-gry, w/ abdt. pyrite.

Morrow Sd 4665 (-1763)
SS, wh, lt. gry, f. gr, well cemented, poor int. gr. porosity, glauconitic, no shows. no fluor, no odor, no staining, w/ grn. sandy sh.

Ls, buff wh, f. xln, oolitic, no vis. porosity, no show, no fluor.

Chert, fresh & sharp, orange, wht, gry, no porosity, no shows.

Miss. St. Louis 4693 (-1791)
Ls, buff, f-m xln, oolitic, fair to well dev. vugular & int. foss. porosity, good show bleeding oil, med. gold fluor, fair odor, uneven to sat. staining. Some barren porosity.

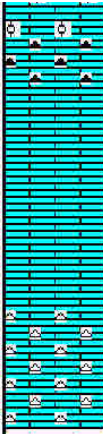
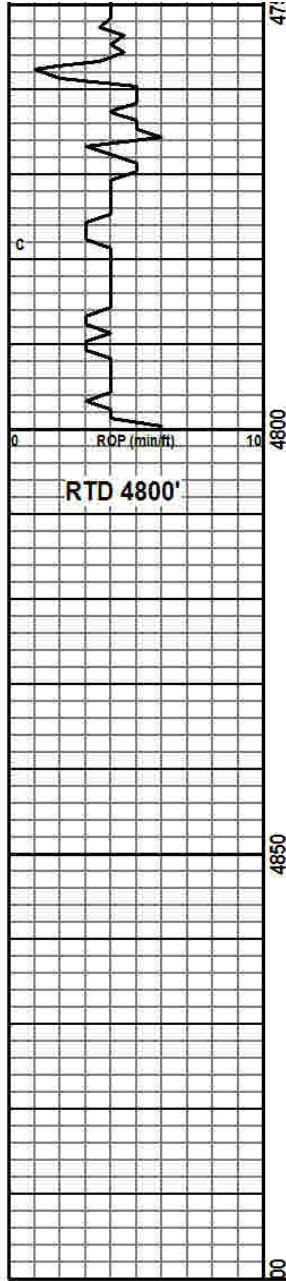
St. Louis 'B' 4706 (-1804)
Ls, buff-wh, f-m xln, oolitic, poor to fair dev. vug. & int. foss. porosity, slight show oil, uneven spotty staining, med. gold fluor, fair odor, some barren porosity.

Ls, buff-wh, f-m xln, oolitic, poorly dev. to no vis. porosity, no show, no fluor, fair odor, no staining.

Ls, crm. wh, tan, f-m xln, oolitic, granular, no vis. porosity, no show, no fluor, no staining, slight odor.

Ls, buff, tan, v. dns, f-m xln, oolitic, pell, no vis. porosity, no shows, no fluor, no

			Wt. 8.9 Vis. 54 LCM 10#
			Slight odor in 4600' sample
1	TG. C1-C5	300	
			Wt. 8.9 Vis. 52 LCM 10#
			Slight odor in 4630' sample
			Wt. 9.0 Vis. 60 LCM 6#
			Slight odor in 4650' sample
			DST #2 St. Louis 4677'-4710' Mis-run
Mud-Co Report:	@ 4710'		Wt. 9.0 Vis. 56 LCM 6#
	Wt. 9.4 Vis. 48		
	Filtrate 9.6		
	Chl. 3,800		
	LCM 6#		
			Wt. 9.2 Vis. 50 LCM 6#



staining.

Ls, tan, w/ nodular gry. chert, fresh & sharp. One piece ool. Ls. with oil show and staining, no odor.

Ls, tan, v. dns, f. xln, m. icritic, no vis. porosity, no show, no fluor.

Ls, tan, v. dns, f. xln, m. icritic, no vis. porosity, no show, no odor.

Ls, tan, v. dns, f. xln, m. icritic, w/ abdt. fresh white & tan chert. No vis. porosity, no show, no fluor, no staining, no odor.

Survey @ 4800' 1/4 degree	Mud-Co Report @ 4800' Wt. 9.3 Vis. 47 Filtrate 9.6 Chl. 4,100 LCM 8#
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1	TG, C1-C5	300
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