



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Te-Pe Oil and Gas**

PO Box 522
Canton, KS 67428-0522

ATTN: Terry Brandy/Doug Da

13-21S-4E Marion,KS

Cedar Springs Trust #2

Start Date: 2019.12.04 @ 11:23:00

End Date: 2019.12.04 @ 17:35:30

Job Ticket #: 65416 DST #: 1

Trilobite Testing, Inc

1515 Commerce Parkway Hays, KS 67601

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

Printed: 2019.12.05 @ 13:42:31

Te-Pe Oil and Gas

Cedar Springs Trust #2

13-21S-4E Marion,KS

DST # 1

Mizner/Hunton

2019.12.04



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Te-Pe Oil and Gas
 PO Box 522
 Canton, KS 67428-0522
 ATTN: Terry Brandy/Doug Da

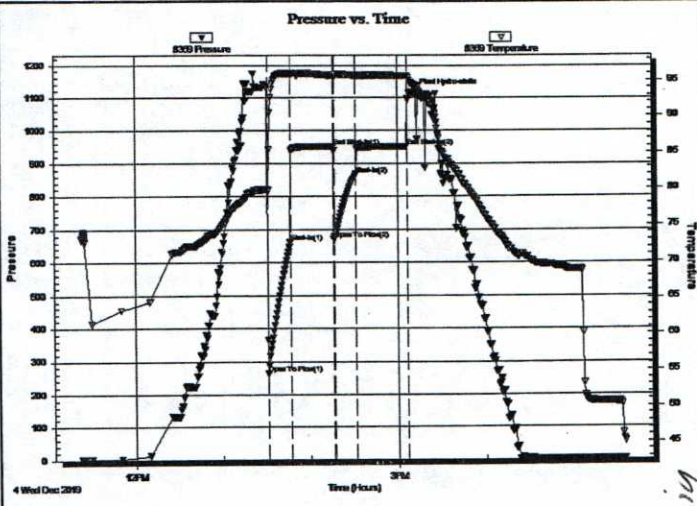
Cedar Springs Trust #2
13-21S-4E Marion, KS
 Job Ticket: 65416 DST#: 1
 Test Start: 2019.12.04 @ 11:23:00

GENERAL INFORMATION:

Formation: **Mizner/Hunton**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 13:31:20
 Time Test Ended: 17:35:30
 Interval: **2321.00 ft (KB) To 2330.00 ft (KB) (TVD)**
 Total Depth: 2330.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Jimmy Ricketts
 Unit No: 80
 Reference Elevations: 1296.00 ft (KB)
 1288.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 8369 **Outside**
 Press@RunDepth: 866.04 psig @ 2322.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2019.12.04 End Date: 2019.12.04 Last Calib.: 1899.12.30
 Start Time: 11:23:01 End Time: 17:35:30 Time On Btm: 2019.12.04 @ 13:29:50
 Time Off Btm: 2019.12.04 @ 15:10:50

TEST COMMENT: IF - Strong blow throughout initial flow period. Allowed to climb to 260 inches then bled off to check for gas. No gas.
 FF - Strong blow throughout final flow period. Allowed to climb to 220 inches then bled off to check for gas. No gas.



PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1133.40	79.88	Initial Hydro-static
2	264.17	79.74	Open To Flow (1)
17	661.59	95.96	Shut-In(1)
47	952.39	95.66	End Shut-In(1)
47	670.10	95.56	Open To Flow (2)
62	866.04	95.66	Shut-In(2)
97	951.56	95.61	End Shut-In(2)
101	1113.65	94.31	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
1080.00	Trace OC W Tr O & 100% W	12.92
745.00	VSO&MCW 4% O 92% W & 4% M	10.45
95.00	SO&WCM 6% O 17% W & 77% M	1.33

24.70 BBL 30% 1/4

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

Hunton Ast



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TOOL DIAGRAM

Te-Pe Oil and Gas

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13-21S-4E Marion, KS

Job Ticket: 65416

DST#: 1

ATTN: Terry Brandy/Doug Da

Test Start: 2019.12.04 @ 11:23:00

Tool Information

Drill Pipe:	Length: 2079.00 ft	Diameter: 3.80 inches	Volume: 29.16 bbl	Tool Weight: 2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 245.00 ft	Diameter: 2.25 inches	Volume: 1.20 bbl	Weight to Pull Loose: 82000.00 lb
			<u>Total Volume: 30.36 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	31.00 ft			String Weight: Initial 55000.00 lb
Depth to Top Packer:	2321.00 ft			Final 65000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	9.00 ft			
Tool Length:	37.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			2294.00	
Shut In Tool	5.00			2299.00	
Hydraulic tool	5.00			2304.00	
Jars	5.00			2309.00	
Safety Joint	3.00			2312.00	
Packer	5.00			2317.00	28.00 Bottom Of Top Packer
Packer	4.00			2321.00	
Stubb	1.00			2322.00	
Recorder	0.00	8369	Outside	2322.00	
Recorder	0.00	8846	Inside	2322.00	
Perforations	6.00			2328.00	
Bullnose	2.00			2330.00	9.00 Bottom Packers & Anchor

Total Tool Length: 37.00



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FLUID SUMMARY

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Job Ticket: 65416

DST#: 1

ATTN: Terry Brandy/Doug Da

Test Start: 2019.12.04 @ 11:23:00

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:

9000 ppm

Viscosity: 38.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 11.18 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1100.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
1080.00	Trace OC W Tr O & 100% W	12.918
745.00	VSO&MCW 4% O 92% W & 4% M	10.450
95.00	SO&WCM 6% O 17% W & 77% M	1.333

Total Length: 1920.00 ft

Total Volume: 24.701 bbl

Num Fluid Samples: 0

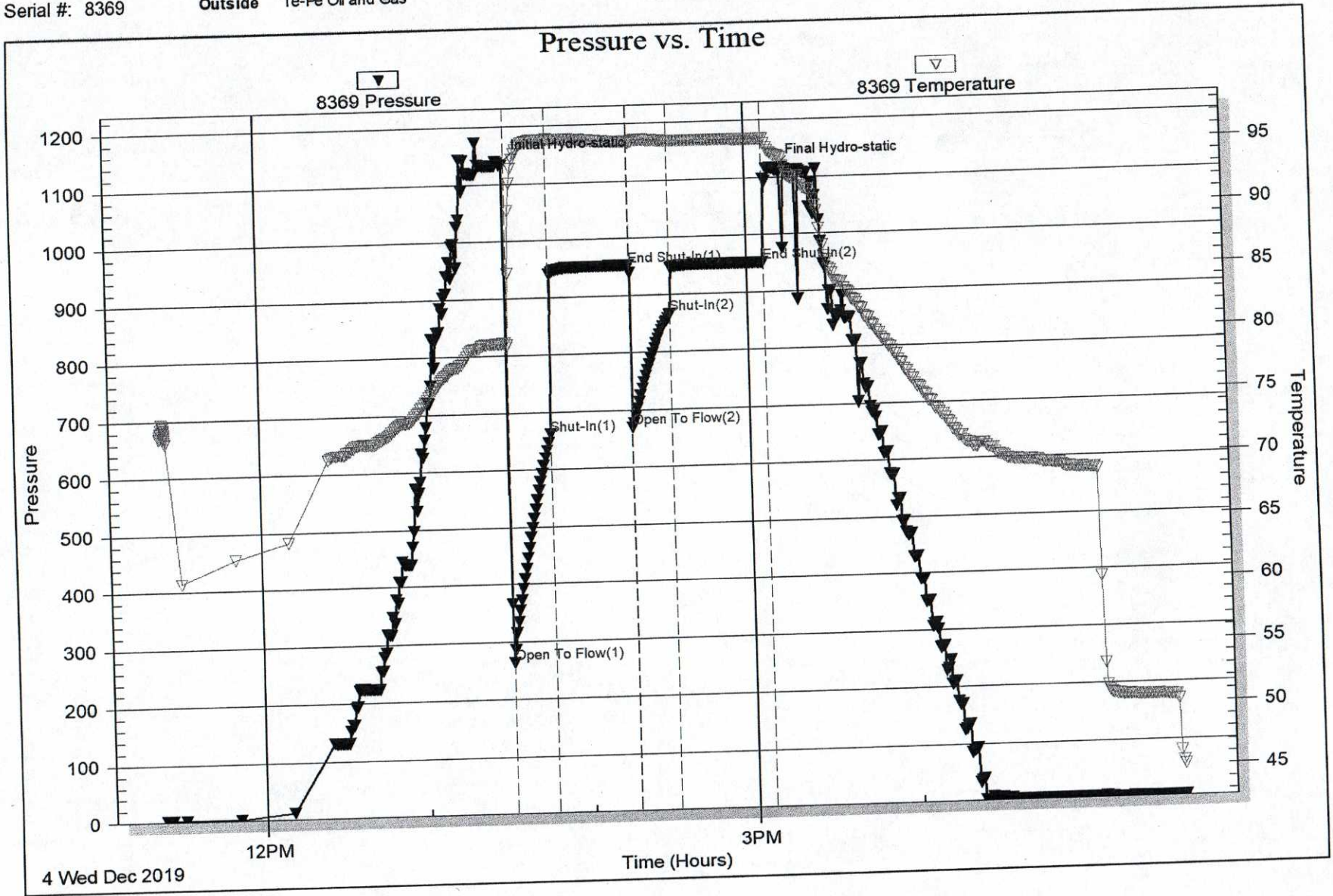
Num Gas Bombs: 0

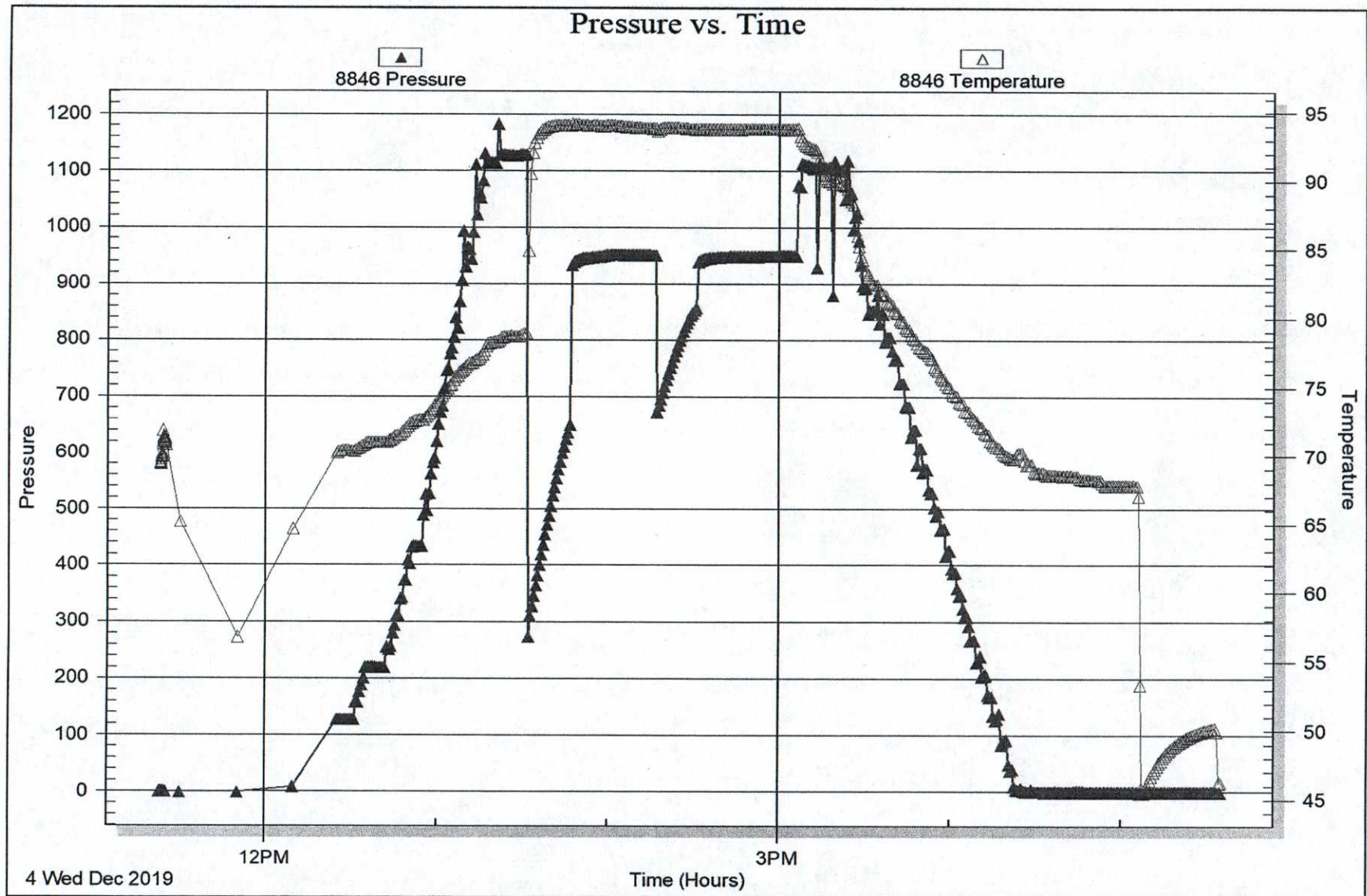
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





4 Wed Dec 2019

Time (Hours)