



DRILL STEM TEST REPORT

Prepared For: **White Exploration, Inc.**

1635 N. Waterfront Pkwy
Ste. 100
Wichita, KS 67206

ATTN: Andrew White

Stanberry #1

35-19S-22W Ness,KS

Start Date: 2019.07.05 @ 14:35:51

End Date: 2019.07.05 @ 22:31:12

Job Ticket #: 64476 DST #: 2

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2019.07.08 @ 08:46:32



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

White Exploration, Inc.
 1635 N. Waterfront Pkwy
 Ste. 100
 Wichita, KS 67206
 ATTN: Andrew White

35-19S-22W Ness,KS

Stanberry #1

Job Ticket: 64476

DST#: 2

Test Start: 2019.07.05 @ 14:35:51

GENERAL INFORMATION:

Formation: **Miss**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 16:21:12
 Time Test Ended: 22:31:12
 Interval: **4370.00 ft (KB) To 4420.00 ft (KB) (TVD)**
 Total Depth: 4420.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Brannan Lonsdale
 Unit No: 73
 Reference Elevations: 2287.00 ft (KB)
 2280.00 ft (CF)
 KB to GR/CF: 7.00 ft

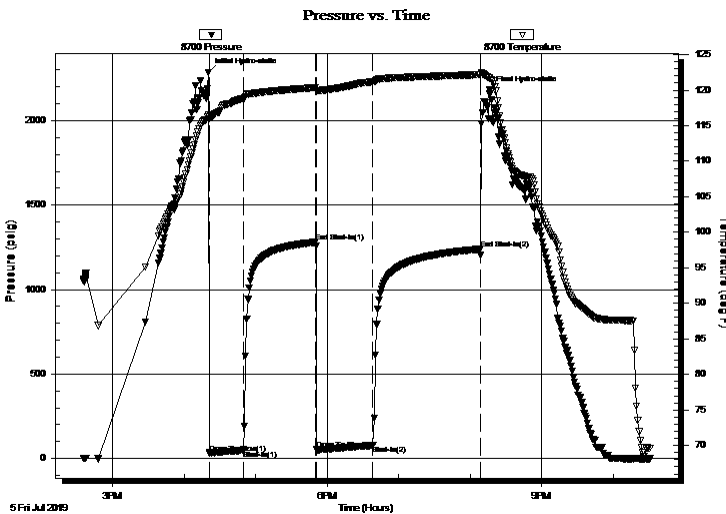
Serial #: 8700

Outside

Press@RunDepth: 77.49 psig @ 4371.00 ft (KB)
 Start Date: 2019.07.05 End Date: 2019.07.05
 Start Time: 14:35:52 End Time: 22:31:12
 Capacity: 8000.00 psig
 Last Calib.: 2019.07.05
 Time On Btm: 2019.07.05 @ 16:20:42
 Time Off Btm: 2019.07.05 @ 20:16:27

TEST COMMENT: 30- IF- Slowly built to 8.32"
 60- IS- No blow
 45- FF- BOB 37 mins. Built to 13.22"
 90- FSI- No blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2285.46	116.55	Initial Hydro-static
1	32.32	115.95	Open To Flow (1)
29	48.77	118.84	Shut-In(1)
90	1280.89	120.36	End Shut-In(1)
91	52.42	119.91	Open To Flow (2)
138	77.49	121.19	Shut-In(2)
228	1240.01	122.18	End Shut-In(2)
236	2180.18	121.68	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
70.00	GHMCO, 10%G 40%M 50%O	0.99
90.00	CGO, 40%G 60%O	1.28
0.00	90' 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

White Exploration, Inc.

35-19S-22W Ness,KS

1635 N. Waterfront Pkwy
Ste. 100
Wichita, KS 67206
ATTN: Andrew White

Stanberry #1

Job Ticket: 64476

DST#: 2

Test Start: 2019.07.05 @ 14:35:51

Tool Information

Drill Pipe:	Length: 4349.00 ft	Diameter: 3.82 inches	Volume: 61.65 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: inches	Volume: - bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: - bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	7.00 ft			String Weight: Initial 62000.00 lb
Depth to Top Packer:	4370.00 ft			Final 64000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	50.00 ft			
Tool Length:	78.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Change Over Sub	1.00			4343.00	
Shut In Tool	5.00			4348.00	
Hydraulic tool	5.00			4353.00	
Jars	5.00			4358.00	
Safety Joint	3.00			4361.00	
Packer	5.00			4366.00	28.00 Bottom Of Top Packer
Packer	4.00			4370.00	
Stubb	1.00			4371.00	
Recorder	0.00	6771	Inside	4371.00	
Recorder	0.00	8700	Outside	4371.00	
Perforations	12.00			4383.00	
Change Over Sub	1.00			4384.00	
Drill Pipe	32.00			4416.00	
Change Over Sub	1.00			4417.00	
Bullnose	3.00			4420.00	50.00 Bottom Packers & Anchor

Total Tool Length: 78.00



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DRILL STEM TEST REPORT

FLUID SUMMARY

White Exploration, Inc.

35-19S-22W Ness,KS

1635 N. Waterfront Pkwy
Ste. 100
Wichita, KS 67206
ATTN: Andrew White

Stanberry #1

Job Ticket: 64476

DST#: 2

Test Start: 2019.07.05 @ 14:35:51

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

40 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 56.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.79 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 6000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
70.00	GHMCO, 10%G 40%M 50%O	0.992
90.00	CGO, 40%G 60%O	1.276
0.00	90' GIP	0.000

Total Length: 160.00 ft Total Volume: 2.268 bbl

Num Fluid Samples: 0

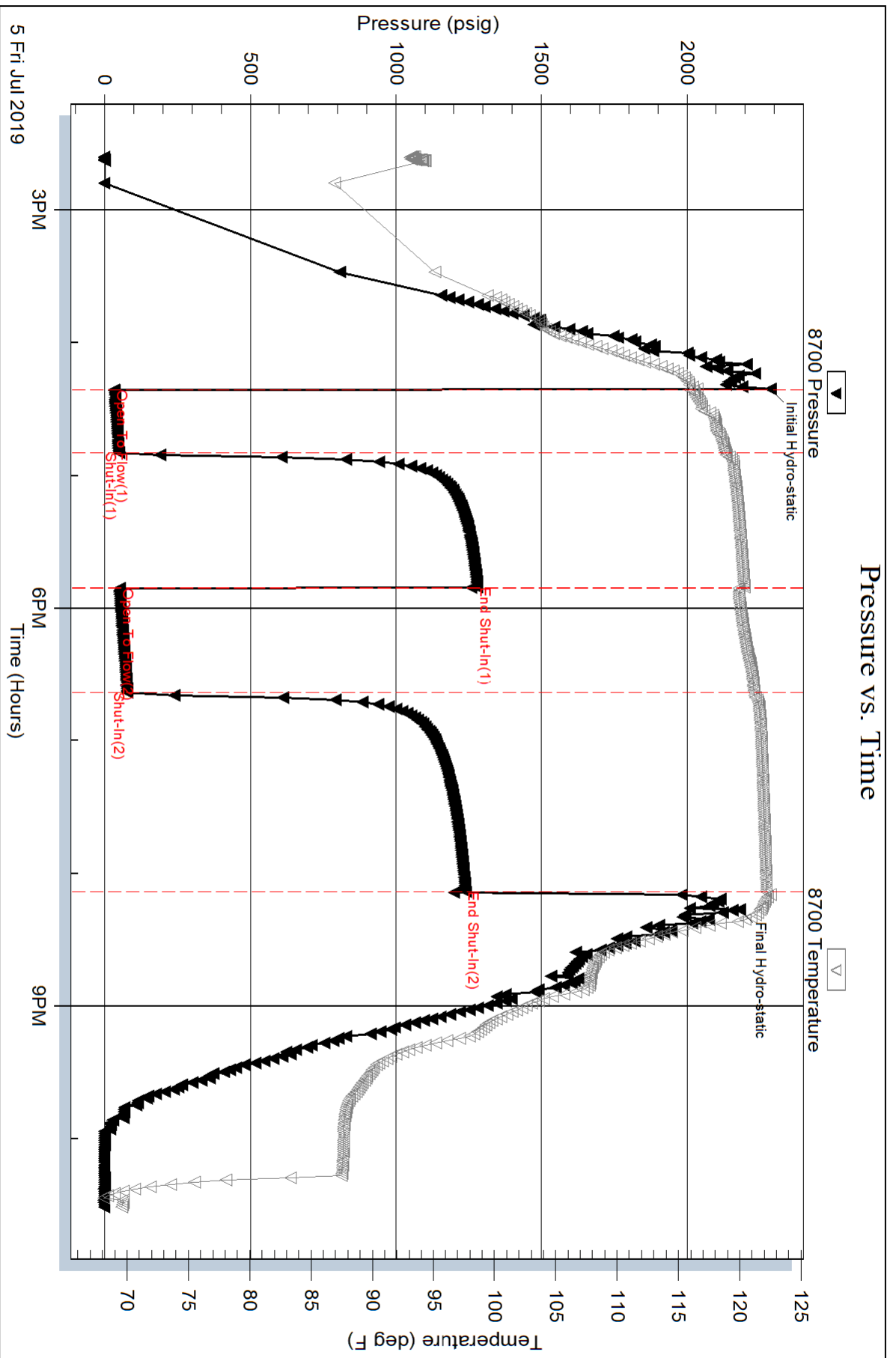
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



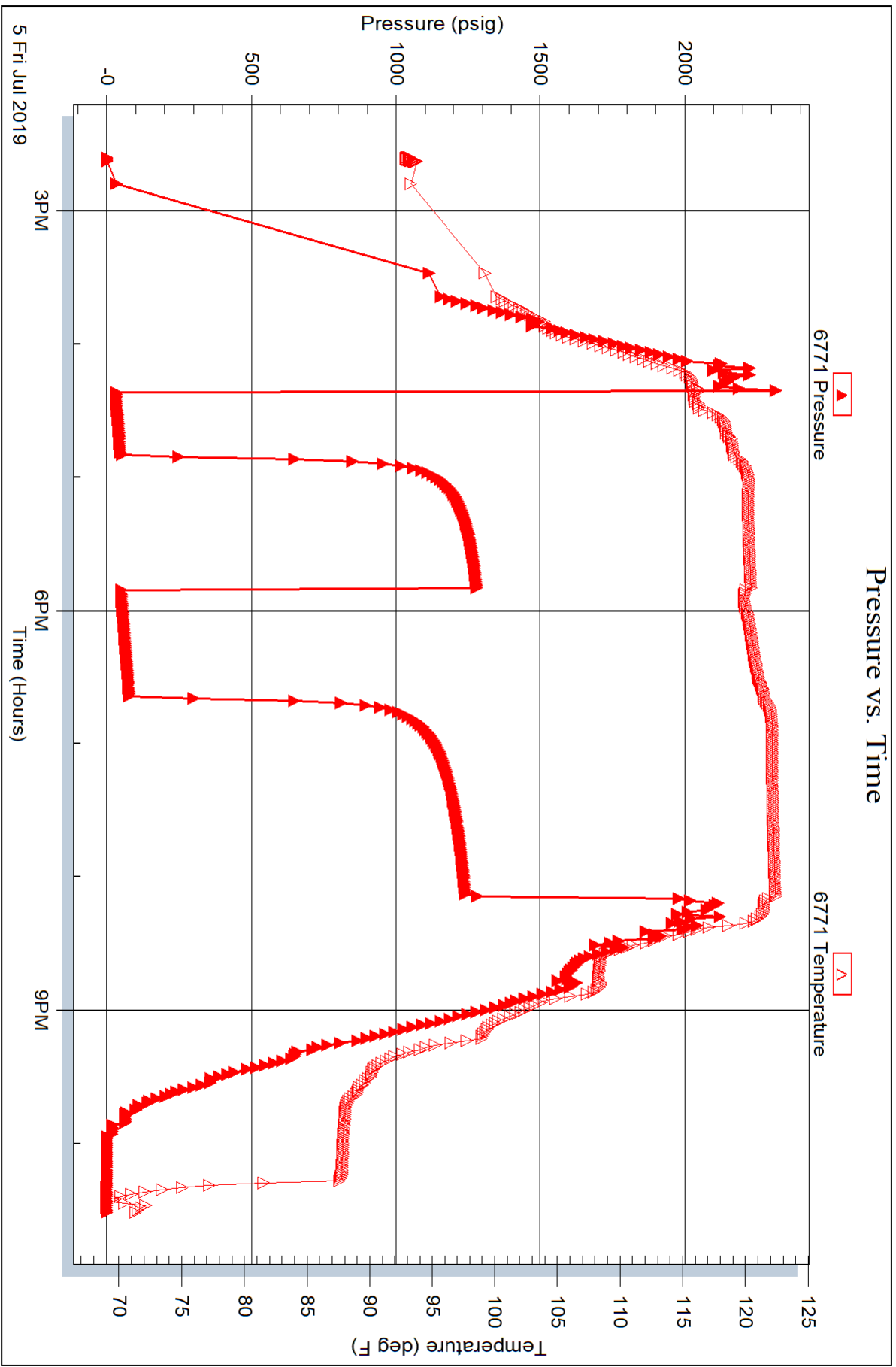
Serial #: 6771

Inside

White Exploration, Inc.

Stanberry #1

DST Test Number: 2





DRILL STEM TEST REPORT

Prepared For: **White Exploration, Inc.**

1635 N. Waterfront Pkwy
Ste. 100
Wichita, KS 67206

ATTN: Andrew White

Stanberry #1

35-19S-22W Ness,KS

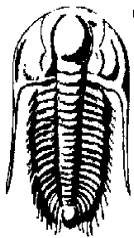
Start Date: 2019.07.05 @ 06:11:23

End Date: 2019.07.05 @ 14:22:58

Job Ticket #: 65700 DST #: 1

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2019.07.08 @ 08:50:16



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

White Exploration, Inc.
1635 N. Waterfront Pkwy
Ste. 100
Wichita, KS 67206
ATTN: Andrew White

35-19S-22W Ness,KS

Stanberry #1

Job Ticket: 65700 **DST#: 1**
Test Start: 2019.07.05 @ 06:11:23

GENERAL INFORMATION:

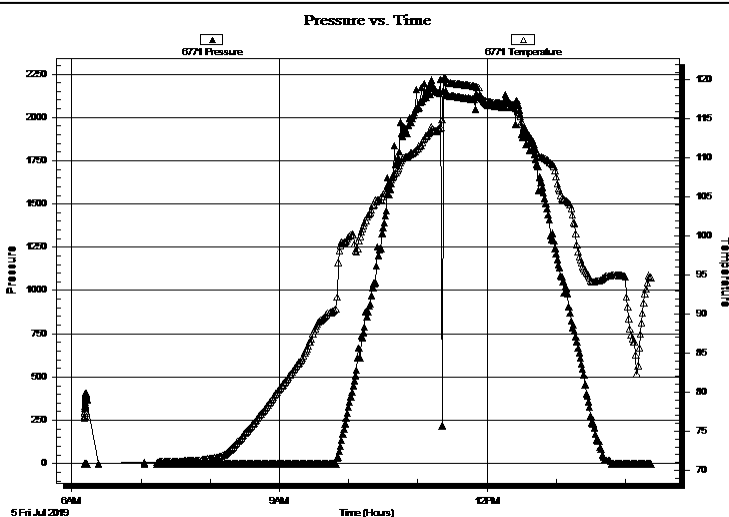
Formation:	Miss			Test Type:	Conventional Bottom Hole (Initial)
Deviated:	No	Whipstock:	ft (KB)	Tester:	Brannan Lonsdale
Time Tool Opened:				Unit No:	73
Time Test Ended:	14:22:58			Reference Elevations:	2287.00 ft (KB)
Interval:	4410.00 ft (KB) To	4420.00 ft (KB) (TVD)			2280.00 ft (CF)
Total Depth:	4420.00 ft (KB) (TVD)			KB to GR/CF:	7.00 ft
Hole Diameter:	7.88 inches	Hole Condition:	Poor		

Serial #: 6771

Inside

Press@RunDepth:	psig @	4411.00 ft (KB)	Capacity:	8000.00 psig	
Start Date:	2019.07.05	End Date:	2019.07.05	Last Calib.:	2019.07.05
Start Time:	06:11:06	End Time:	14:22:41	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)
100.00	M	0.58

Gas Rates

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



**TRILOBITE
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DRILL STEM TEST REPORT

TOOL DIAGRAM

White Exploration, Inc.

35-19S-22W Ness,KS

1635 N. Waterfront Pkwy
Ste. 100
Wichita, KS 67206
ATTN: Andrew White

Stanberry #1

Job Ticket: 65700

DST#: 1

Test Start: 2019.07.05 @ 06:11:23

Tool Information

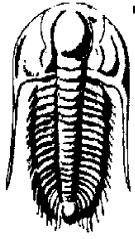
Drill Pipe:	Length: 4318.00 ft	Diameter: 3.82 inches	Volume: 61.21 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: inches	Volume: - bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 90.00 ft	Diameter: 2.25 inches	Volume: 0.44 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: - bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	26.00 ft			String Weight: Initial 62000.00 lb
Depth to Top Packer:	4410.00 ft			Final 63000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	10.00 ft			
Tool Length:	38.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Change Over Sub	1.00			4383.00	
Shut In Tool	5.00			4388.00	
Hydraulic tool	5.00			4393.00	
Jars	5.00			4398.00	
Safety Joint	3.00			4401.00	
Packer	5.00			4406.00	28.00 Bottom Of Top Packer
Packer	4.00			4410.00	
Stubb	1.00			4411.00	
Recorder	0.00	6771	Inside	4411.00	
Recorder	0.00	8700	Outside	4411.00	
Perforations	6.00			4417.00	
Bullnose	3.00			4420.00	10.00 Bottom Packers & Anchor

Total Tool Length: 38.00



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1635 N. Waterfront Pkwy
Ste. 100
Wichita, KS 67206
ATTN: Andrew White

Stanberry #1

Job Ticket: 65700

DST#: 1

Test Start: 2019.07.05 @ 06:11:23

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: 56.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.79 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 6000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
100.00	M	0.584

Total Length: 100.00 ft

Total Volume: 0.584 bbl

Num Fluid Samples: 0

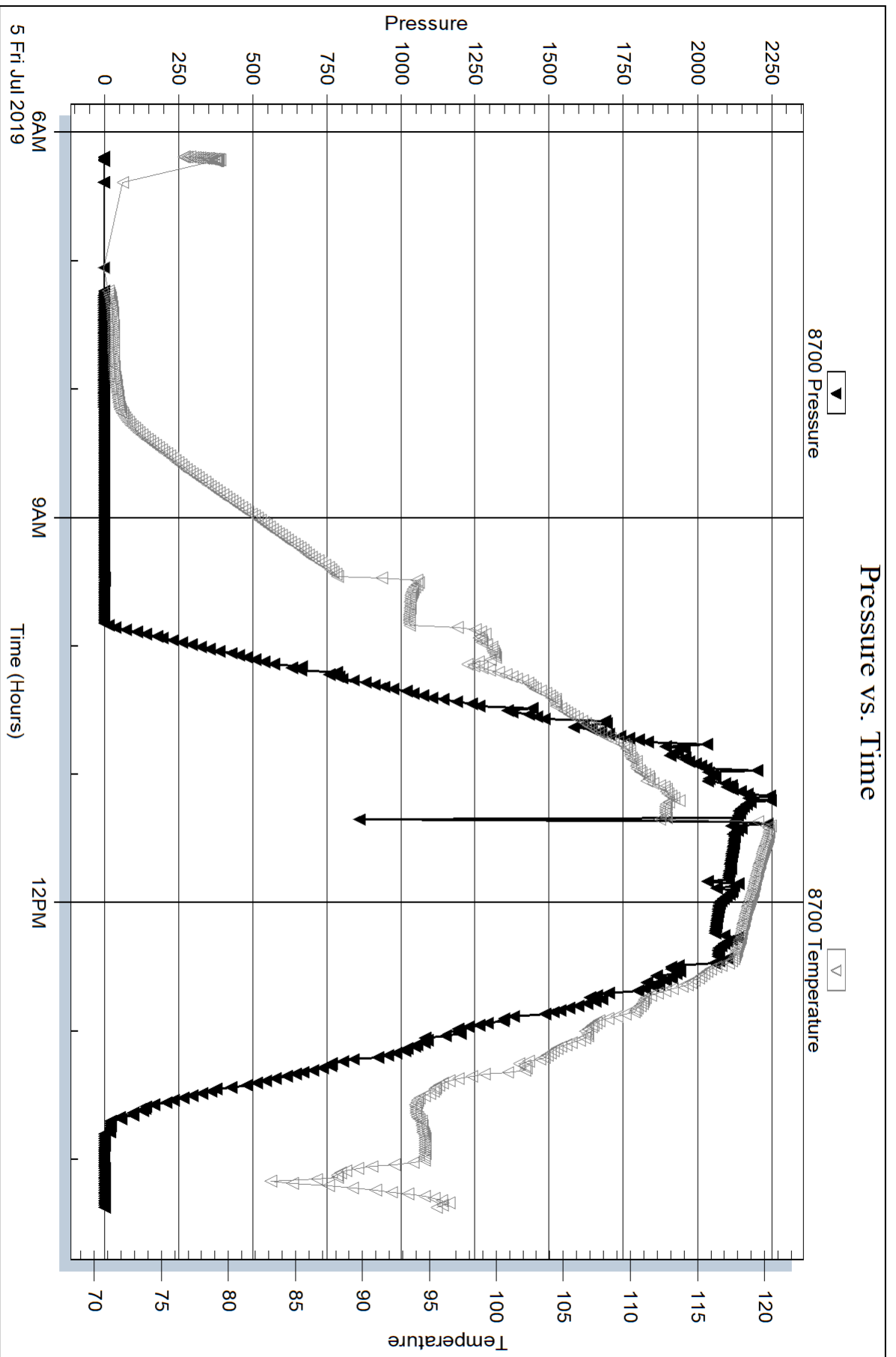
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



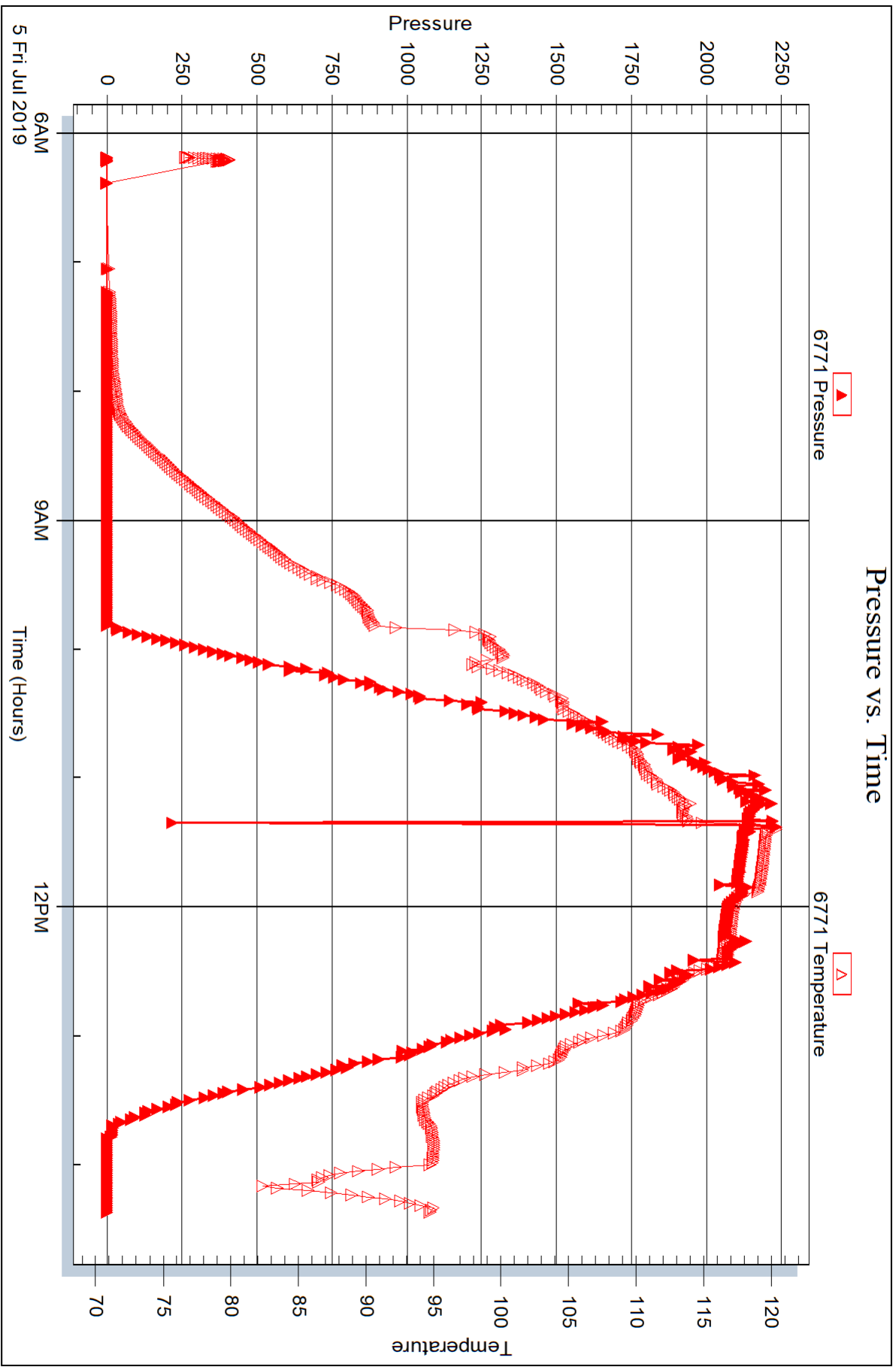
Serial #: 6771

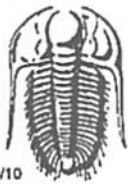
Inside

White Exploration, Inc.

Stanberry #1

DST Test Number: 1





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 65700

Well Name & No. Stanberry #1 Test No. 1 Date 7/5/19
 Company White Exploration, Inc. Elevation 2287 KB 2280 GL
 Address 1635 N. Waterfront Pkwy, Ste. 100, Wichita, KS 67206
 Co. Rep / Geo. Andrew White Rig Pickrell 10
 Location: Sec. 35 Twp 19 S Rge. 22 W Co. Ness State KS

Interval Tested 4410-4420 Zone Tested MISS
 Anchor Length 10' Drill Pipe Run 4318 Mud Wt. 9.2
 Top Packer Depth 4405 Drill Collars Run 90 Vis 56
 Bottom Packer Depth 4410 Wt. Pipe Run --- WL 8.8
 Total Depth 4420 Chlorides 6000 ppm System LCM 1#

Blow Description PACKER FAILURE

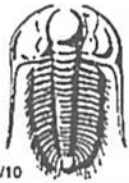
Rec	Feet of	%gas	%oil	%water	%mud
<u>100</u>	<u>M</u>				

Rec Total 100' BHT _____ Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic _____ Test 1050 T-On Location 0554
 (B) First Initial Flow _____ Jars 250 T-Started 0611
 (C) First Final Flow _____ Safety Joint 75 T-Open 1120
 (D) Initial Shut-In _____ Circ Sub _____ T-Pulled 1140
 (E) Second Initial Flow _____ Hourly Standby _____ T-Out 1422
 (F) Second Final Flow _____ Mileage 120 RT 120 Comments _____
 (G) Final Shut-In _____ Sampler _____
 (H) Final Hydrostatic _____ Straddle _____
 Extra Packer _____ EM Tool _____
 Extra Recorder _____ Ruined Shale Packer _____
 Day Standby _____ Ruined Packer _____
 Accessibility _____ Sub Total 0
 Sub Total 1495 Total 1495 MP/DST Disc't _____

Approved By _____ Our Representative Bryan Lonsdale

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. 64476

Well Name & No. Stanberry #1 Test No. 2 Date 7/5/19
 Company White Exploration, Inc. Elevation 2287 KB 2280 GL
 Address 1635 N. Waterfront Pkwy, Ste. 100 Wichita, KS 67206
 Co. Rep / Geo. Andy White Rig Pickrell 10
 Location: Sec. 35 Twp 19 S Rge. 22 W Co. Ness State KS

Interval Tested 4370-4420 Zone Tested MISS
 Anchor Length 50' Drill Pipe Run 4349 Mud Wt. 9.2
 Top Packer Depth 4365 Drill Collars Run --- Vis 56
 Bottom Packer Depth 4370 Wt. Pipe Run --- WL 8.8
 Total Depth 4420 Chlorides 6,000 ppm System LCM 1#

Blow Description IF - Slowly built to 8.32"
FSI - No blow
FF - BOB 37 mins. Built to 13.22"
FSI - No blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>70</u>	<u>6HMC0</u>	<u>10</u>	<u>50</u>	<u>40</u>	<u>40</u>
<u>90</u>	<u>CA0</u>	<u>40</u>	<u>60</u>		
<u>90'</u>	<u>WIP</u>				

Rec Total 160' BHT 40 Gravity 122° API RW --- @ --- °F Chlorides --- ppm

(A) Initial Hydrostatic <u>2285</u>	<input checked="" type="checkbox"/> Test <u>1300</u>	T-On Location <u>1422</u>
(B) First Initial Flow <u>32</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>1436</u>
(C) First Final Flow <u>49</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>1621</u>
(D) Initial Shut-In <u>1281</u>	<input type="checkbox"/> Circ Sub <u>---</u>	T-Pulled <u>2006</u>
(E) Second Initial Flow <u>52</u>	<input type="checkbox"/> Hourly Standby <u>---</u>	T-Out <u>2233</u>
(F) Second Final Flow <u>77</u>	<input checked="" type="checkbox"/> Mileage <u>120 RT x 2</u> <u>120</u>	Comments <u>Tools landed @ 1330 7/6</u>
(G) Final Shut-In <u>1240</u>	<input type="checkbox"/> Sampler <u>---</u>	
(H) Final Hydrostatic <u>2180</u>	<input type="checkbox"/> Straddle <u>---</u>	<input type="checkbox"/> Ruined Shale Packer <u>---</u>
	<input checked="" type="checkbox"/> Shale Packer <u>250</u>	<input type="checkbox"/> Ruined Packer <u>---</u>
Initial Open <u>30</u>	<input type="checkbox"/> Extra Packer <u>---</u>	<input type="checkbox"/> Extra Copies <u>---</u>
Initial Shut-In <u>60</u>	<input type="checkbox"/> Extra Recorder <u>---</u>	Sub Total <u>0</u>
Final Flow <u>45</u>	<input type="checkbox"/> Day Standby <u>---</u>	Total <u>1995</u>
Final Shut-In <u>90</u>	<input type="checkbox"/> Accessibility <u>---</u>	MP/DST Disc't <u>---</u>
	Sub Total <u>1995</u>	

Approved By _____

Our Representative Brannan Lonsdale

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.