



DRILL STEM TEST REPORT

Prepared For: **Cynosure Energy LLC**

1125 17th Street Suite 410
Denver CO 80202

ATTN: Justin Carter

Wann Farms 1-1-15-20

1-15s-20w Ellis,KS

Start Date: 2015.07.11 @ 09:55:00

End Date: 2015.07.11 @ 18:26:00

Job Ticket #: 53758 DST #: 1

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

Printed: 2015.07.15 @ 09:11:26

Cynosure Energy LLC

1-15s-20w Ellis,KS

Wann Farms 1-1-15-20

DST # 1

Topeka

2015.07.11



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Cynosure Energy LLC

1-15s-20w Ellis,KS

1125 17th Street Suite 410
Denver CO 80202

Wann Farms 1-1-15-20

ATTN: Justin Carter

Job Ticket: 53758

DST#: 1

Test Start: 2015.07.11 @ 09:55:00

GENERAL INFORMATION:

Formation: **Topeka**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 12:22:45

Time Test Ended: 18:26:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Bob Hamel

Unit No: 72

Interval: 3230.00 ft (KB) To 3315.00 ft (KB) (TVD)

Reference Elevations: 2060.00 ft (KB)

Total Depth: 3315.00 ft (KB) (TVD)

2052.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 6772 Inside

Press@RunDepth: 230.81 psig @ 3234.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2015.07.11

End Date:

2015.07.11

Last Calib.:

2015.07.11

Start Time:

09:55:05

End Time:

18:25:59

Time On Btm:

2015.07.11 @ 12:21:30

Time Off Btm:

2015.07.11 @ 16:12:45

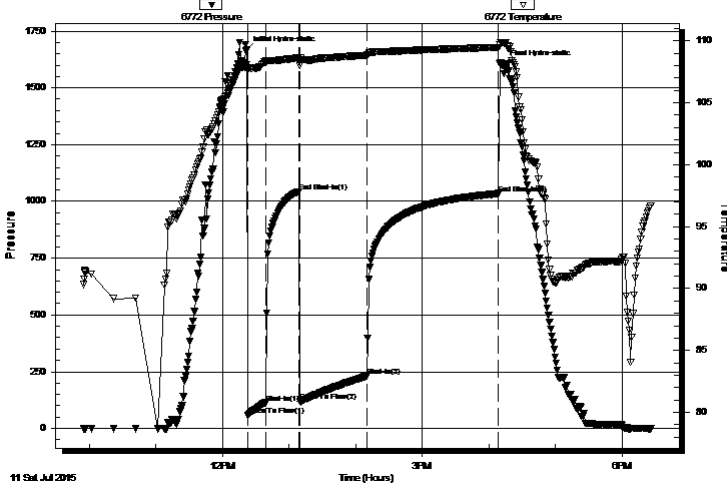
TEST COMMENT: IFP 15 - Weak surface blow built to 1/2"

ISI 30 - No blow back

FFP 60 - BOB in 26 min

FSI 120 - No blow back

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1662.28	108.07	Initial Hydro-static
2	57.44	107.76	Open To Flow (1)
18	112.63	108.25	Shut-In(1)
48	1043.05	108.63	End Shut-In(1)
49	118.59	108.01	Open To Flow (2)
109	230.81	108.84	Shut-In(2)
228	1034.66	109.48	End Shut-In(2)
232	1600.82	109.85	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	MW 5%M 95%W	1.68
500.00	VSOCWM 1%O 40%W 59%M	7.01
10.00	OCMW 10%O 40%M 50%W	0.14

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Cynosure Energy LLC

1-15s-20w Ellis,KS

1125 17th Street Suite 410
Denver CO 80202

Wann Farms 1-1-15-20

Job Ticket: 53758

DST#: 1

ATTN: Justin Carter

Test Start: 2015.07.11 @ 09:55:00

Tool Information

Drill Pipe:	Length: 3219.00 ft	Diameter: 3.80 inches	Volume: 45.15 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 54000.00 lb
			<u>Total Volume: 45.15 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	19.00 ft			String Weight: Initial 48000.00 lb
Depth to Top Packer:	3230.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	85.00 ft			
Tool Length:	115.00 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			3201.00	
Shut In Tool	5.00			3206.00	
Sampler	2.00			3208.00	
Hydraulic tool	5.00			3213.00	
Jars	5.00			3218.00	
Safety Joint	3.00			3221.00	
Packer	5.00			3226.00	30.00 Bottom Of Top Packer
Packer	4.00			3230.00	
Stubb	1.00			3231.00	
perforations	2.00			3233.00	
Change Over Sub	1.00			3234.00	
Recorder	0.00	6772	Inside	3234.00	
Recorder	0.00	8167	Outside	3234.00	
Drill Pipe	63.00			3297.00	
Change Over Sub	1.00			3298.00	
Perforations	14.00			3312.00	
Bullnose	3.00			3315.00	85.00 Bottom Packers & Anchor
Total Tool Length:	115.00				



**TRILOBITE
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DRILL STEM TEST REPORT

FLUID SUMMARY

Cynosure Energy LLC

1-15s-20w Ellis,KS

1125 17th Street Suite 410
Denver CO 80202

Wann Farms 1-1-15-20

Job Ticket: 53758

DST#: 1

ATTN: Justin Carter

Test Start: 2015.07.11 @ 09:55:00

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: 47.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.97 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 6600.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
120.00	MW 5%M 95%W	1.683
500.00	VSOCWM 1%O 40%W 59%M	7.014
10.00	OCMW 10%O 40%M 50%W	0.140

Total Length: 630.00 ft Total Volume: 8.837 bbl

Num Fluid Samples: 0

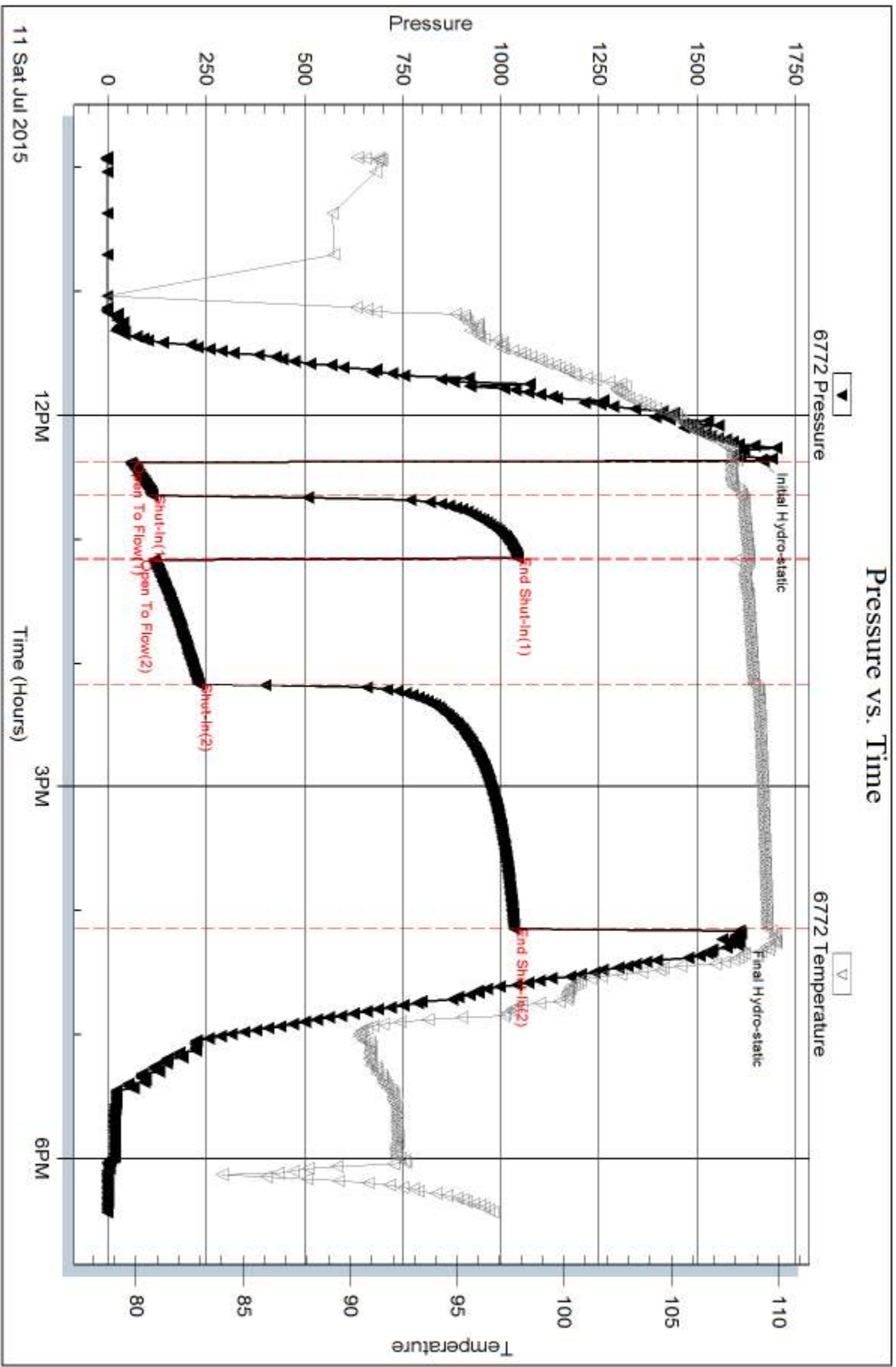
Num Gas Bombs: 0

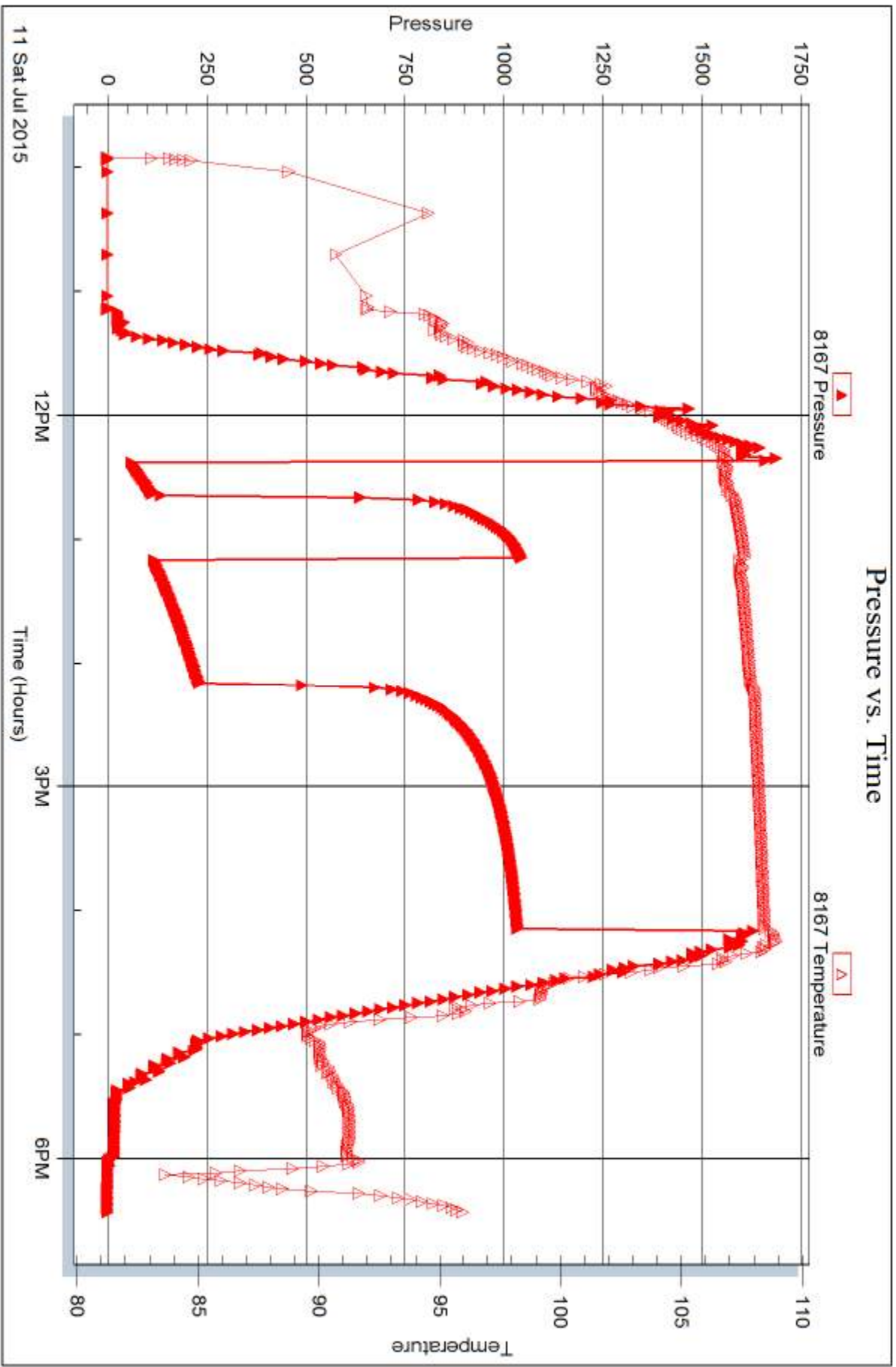
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Sampler recovery = 250mL 50mL Mud .200mL Water PSI = 200
rW .09 @ 92.5 DEG.







DRILL STEM TEST REPORT

Prepared For: **Cynosure Energy LLC**

1125 17th Street Suite 410
Denver CO 80202

ATTN: Justin Carter

Wann Farms 1-1-15-20

1-15s-20w Ellis,KS

Start Date: 2015.07.12 @ 04:07:00

End Date: 2015.07.12 @ 11:45:00

Job Ticket #: 53759 DST #: 2

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

Printed: 2015.07.15 @ 09:11:01



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Cynosure Energy LLC

1-15s-20w Ellis,KS

1125 17th Street Suite 410
Denver CO 80202

Wann Farms 1-1-15-20

ATTN: Justin Carter

Job Ticket: 53759

DST#: 2

Test Start: 2015.07.12 @ 04:07:00

GENERAL INFORMATION:

Formation: **LKC C-D**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 06:41:30

Time Test Ended: 11:45:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Bob Hamel

Unit No: 72

Interval: 3382.00 ft (KB) To 3416.00 ft (KB) (TVD)

Reference Elevations: 2060.00 ft (KB)

Total Depth: 3416.00 ft (KB) (TVD)

2052.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8167

Outside

Press@RunDepth: 360.74 psig @ 3385.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2015.07.12

End Date:

2015.07.12

Last Calib.: 1899.12.30

Start Time: 04:07:05

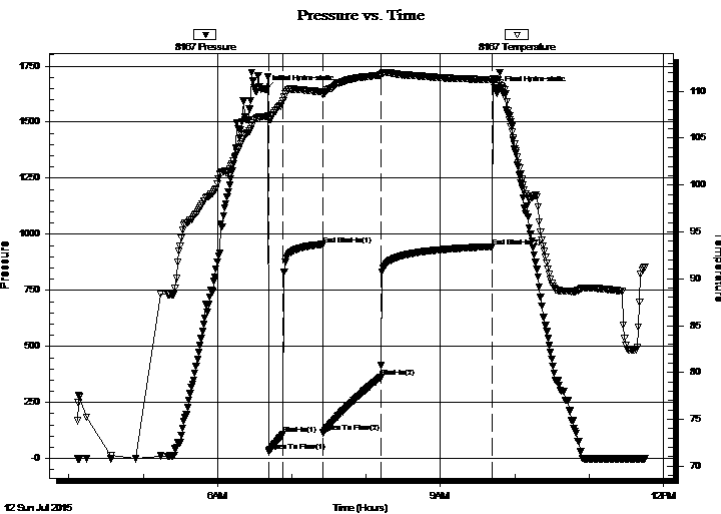
End Time:

11:44:59

Time On Btm: 2015.07.12 @ 06:38:45

Time Off Btm: 2015.07.12 @ 09:46:30

TEST COMMENT: IFP 10 - BOB in 5 min
ISI 30 - No blow back
FFP 45 - BOB in 7 min
FSI 90 - No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1646.23	107.31	Initial Hydro-static
3	32.82	106.95	Open To Flow (1)
15	109.13	109.01	Shut-In(1)
46	953.34	110.00	End Shut-In(1)
47	115.23	109.68	Open To Flow (2)
93	360.74	111.72	Shut-In(2)
183	945.19	111.22	End Shut-In(2)
188	1638.99	111.19	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
630.00	M,W, 1%M 99%W	8.84
63.00	S,O,S,M,W, 1%O 30%M 69%W	0.88
0.00	SAMPLER REC. 100ML M,W, 1%M 99%W 0.00 PSI	

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Cynosure Energy LLC

1-15s-20w Ellis,KS

1125 17th Street Suite 410
Denver CO 80202

Wann Farms 1-1-15-20

Job Ticket: 53759

DST#: 2

ATTN: Justin Carter

Test Start: 2015.07.12 @ 04:07:00

Tool Information

Drill Pipe:	Length: 3376.00 ft	Diameter: 3.80 inches	Volume: 47.36 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 54000.00 lb
			<u>Total Volume: 47.36 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	24.00 ft			String Weight: Initial 48000.00 lb
Depth to Top Packer:	3382.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	34.00 ft			
Tool Length:	64.00 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			3353.00	
Shut In Tool	5.00			3358.00	
Sampler	2.00			3360.00	
Hydraulic tool	5.00			3365.00	
Jars	5.00			3370.00	
Safety Joint	3.00			3373.00	
Packer	5.00			3378.00	30.00 Bottom Of Top Packer
Packer	4.00			3382.00	
Stubb	1.00			3383.00	
perforations	2.00			3385.00	
Recorder	0.00	6772	Inside	3385.00	
Recorder	0.00	8167	Outside	3385.00	
Drill Pipe	28.00			3413.00	
Bullnose	3.00			3416.00	34.00 Bottom Packers & Anchor

Total Tool Length: 64.00



**TRILOBITE
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DRILL STEM TEST REPORT

FLUID SUMMARY

Cynosure Energy LLC

1-15s-20w Ellis,KS

1125 17th Street Suite 410
Denver CO 80202

Wann Farms 1-1-15-20

Job Ticket: 53759

DST#: 2

ATTN: Justin Carter

Test Start: 2015.07.12 @ 04:07:00

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: 47.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.96 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 6600.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
630.00	M,W, 1%M 99%W	8.837
63.00	S,O,S,M,W, 1%O 30%M 69%W	0.884
0.00	SAMPLER REC. 100ML M,W, 1%M 99%W 150	0.000

Total Length: 693.00 ft Total Volume: 9.721 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

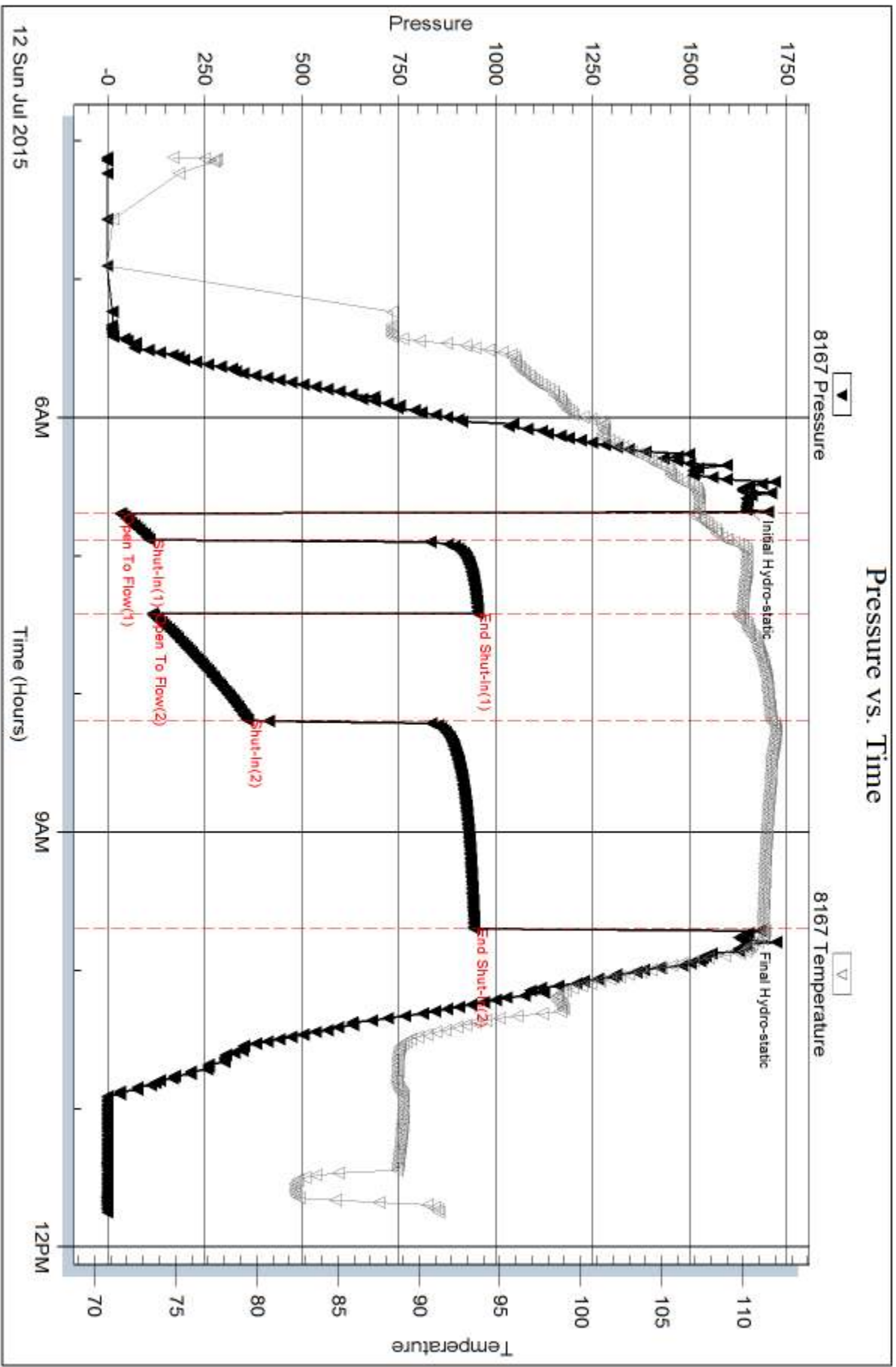
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: SAMPLER REC = 100 ML. M,W 1%M 99 %W 150 P.S.I

R.W. .05 OHMS @ 91.5 DEG.



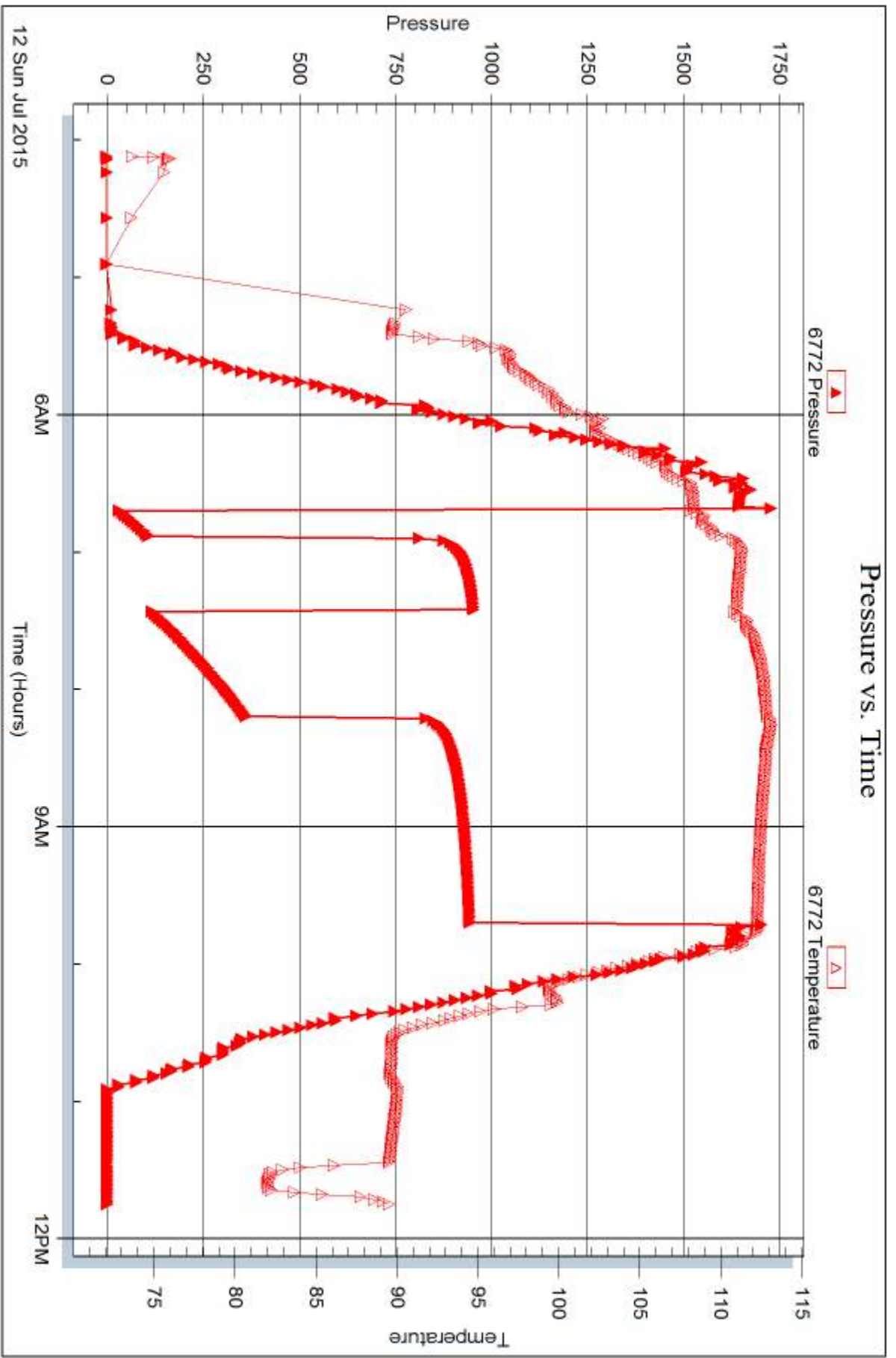
Serial #: 6772

Inside

Cynosure Energy LLC

Wann Farms 1-1-15-20

DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 53759

Printed: 2015.07.15 @ 09:11:02



DRILL STEM TEST REPORT

Prepared For: **Cynosure Energy LLC**

1125 17th Street Suite 410
Denver CO 80202

ATTN: Justin Carter

Wann Farms 1-1-15-20

1-15s-20w Ellis,KS

Start Date: 2015.07.14 @ 04:45:00

End Date: 2015.07.14 @ 12:40:30

Job Ticket #: 53760 DST #: 3

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

Printed: 2015.07.15 @ 09:08:24



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Cynosure Energy LLC

1-15s-20w Ellis,KS

1125 17th Street Suite 410
Denver CO 80202

Wann Farms 1-1-15-20

ATTN: Justin Carter

Job Ticket: 53760

DST#: 3

Test Start: 2015.07.14 @ 04:45:00

GENERAL INFORMATION:

Formation: **Cherokee**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 07:07:30

Time Test Ended: 12:40:30

Test Type: Conventional Straddle (Reset)

Tester: Bob Hamel

Unit No: 72

Interval: 3680.00 ft (KB) To 3715.00 ft (KB) (TVD)

Reference Elevations: 2060.00 ft (KB)

Total Depth: 3796.00 ft (KB) (TVD)

2052.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 6772 Inside

Press@RunDepth: 1197.02 psig @ 3681.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2015.07.14

End Date:

2015.07.14

Last Calib.: 2015.07.14

Start Time: 04:45:05

End Time:

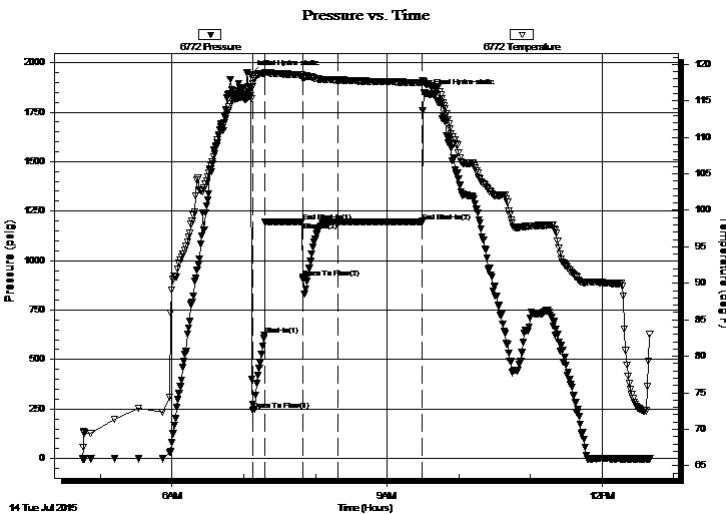
12:40:29

Time On Btm: 2015.07.14 @ 07:06:00

Time Off Btm: 2015.07.14 @ 09:33:15

TEST COMMENT: IFP 10 - BOB in 45 sec
ISI 30 - No blow back
FFP -30 - BOB in 30 sec
FSI 60 - No blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1941.04	115.69	Initial Hydro-static
2	242.09	117.00	Open To Flow (1)
12	623.60	118.69	Shut-In(1)
43	1197.22	118.53	End Shut-In(1)
44	913.98	118.35	Open To Flow (2)
73	1197.02	117.83	Shut-In(2)
144	1197.52	117.54	End Shut-In(2)
148	1843.06	117.20	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1638.00	OCMW 20%O 20%M 60%W	22.98
1134.00	VSOCMW 1%O 24%M 75%W	15.91

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Cynosure Energy LLC

1-15s-20w Ellis,KS

1125 17th Street Suite 410
Denver CO 80202

Wann Farms 1-1-15-20

Job Ticket: 53760

DST#: 3

ATTN: Justin Carter

Test Start: 2015.07.14 @ 04:45:00

Tool Information

Drill Pipe:	Length: 3680.00 ft	Diameter: 3.80 inches	Volume: 51.62 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 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: 51.62 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 57000.00 lb
Depth to Top Packer:	3680.00 ft			Final 67000.00 lb
Depth to Bottom Packer:	3711.00 ft			
Interval between Packers:	31.00 ft			
Tool Length:	145.00 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			3651.00	
Shut In Tool	5.00			3656.00	
Sampler	2.00			3658.00	
Hydraulic tool	5.00			3663.00	
Jars	5.00			3668.00	
Safety Joint	3.00			3671.00	
Packer	5.00			3676.00	30.00 Bottom Of Top Packer
Packer	4.00			3680.00	
Stubb	1.00			3681.00	
Recorder	0.00	6772	Inside	3681.00	
Recorder	0.00	8167	Outside	3681.00	
Perforations	29.00			3710.00	
Blank Off Sub	1.00			3711.00	31.00 Tool Interval
Packer	5.00			3716.00	
Perforations	11.00			3727.00	
Change Over Sub	1.00			3728.00	
Recorder	0.00	8845	Below	3728.00	
Drill Pipe	63.00			3791.00	
Change Over Sub	1.00			3792.00	
Bullnose	3.00			3795.00	84.00 Bottom Packers & Anchor

Total Tool Length: 145.00



**TRILOBITE
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DRILL STEM TEST REPORT

FLUID SUMMARY

Cynosure Energy LLC

1-15s-20w Ellis,KS

1125 17th Street Suite 410
Denver CO 80202

Wann Farms 1-1-15-20

Job Ticket: 53760

DST#: 3

ATTN: Justin Carter

Test Start: 2015.07.14 @ 04:45:00

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: 47.00 sec/qt

Cushion Volume: bbl

Water Loss: 7.97 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure: psig

Salinity: 6600.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1638.00	OCMW 20%O 20%M 60%W	22.977
1134.00	VSOCMW 1%O 24%M 75%W	15.907

Total Length: 2772.00 ft Total Volume: 38.884 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

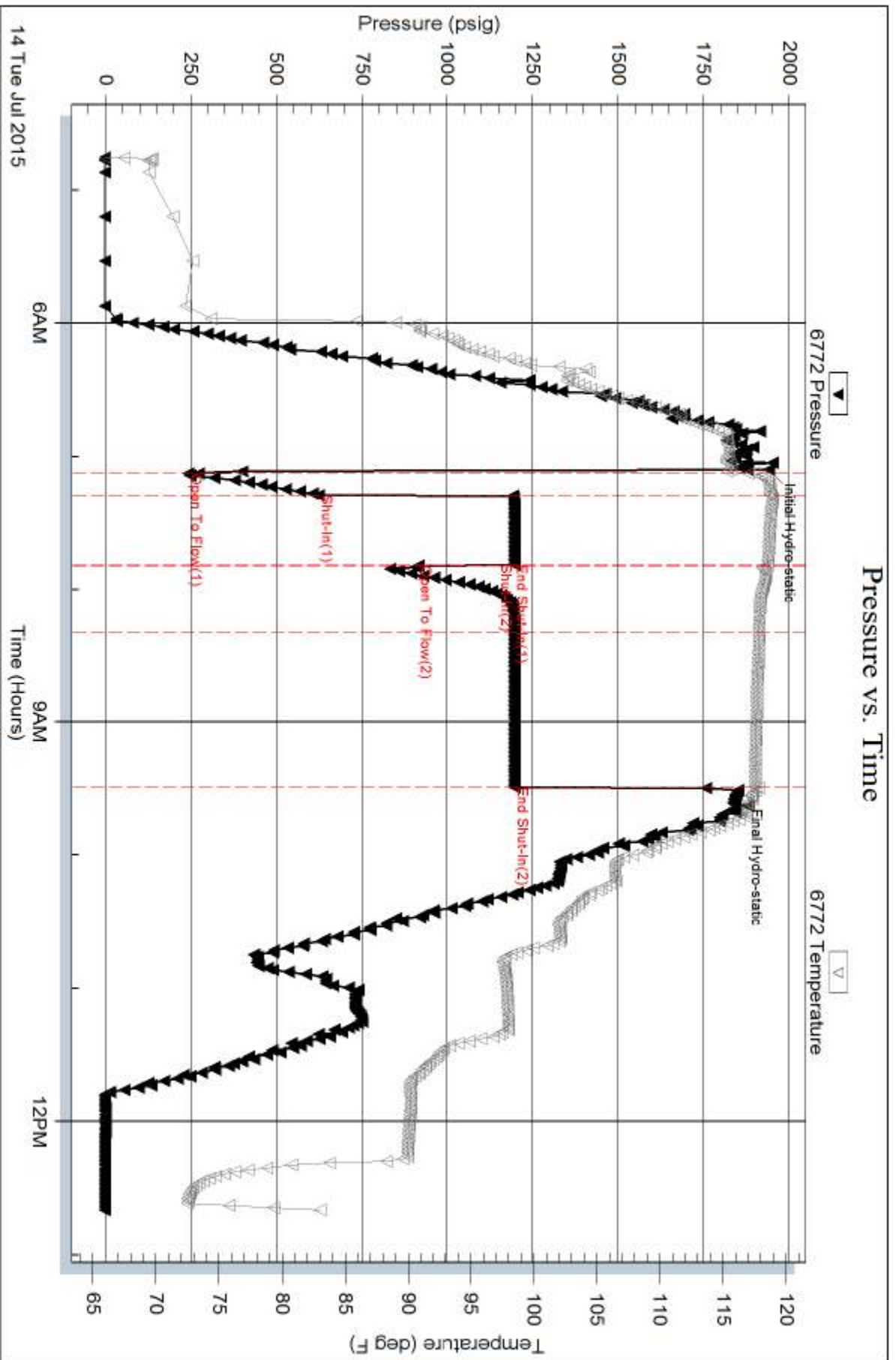
Serial #:

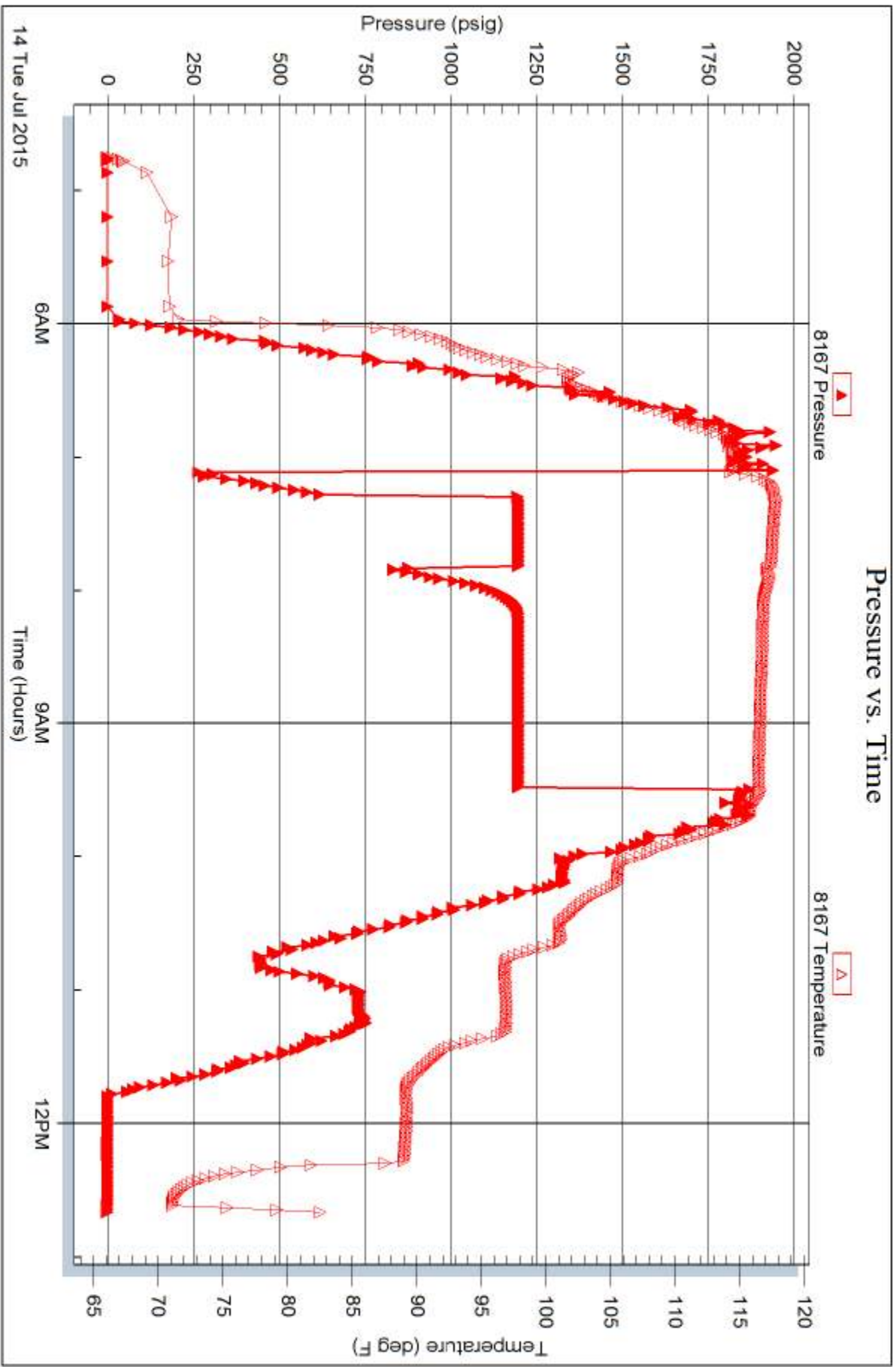
Laboratory Name:

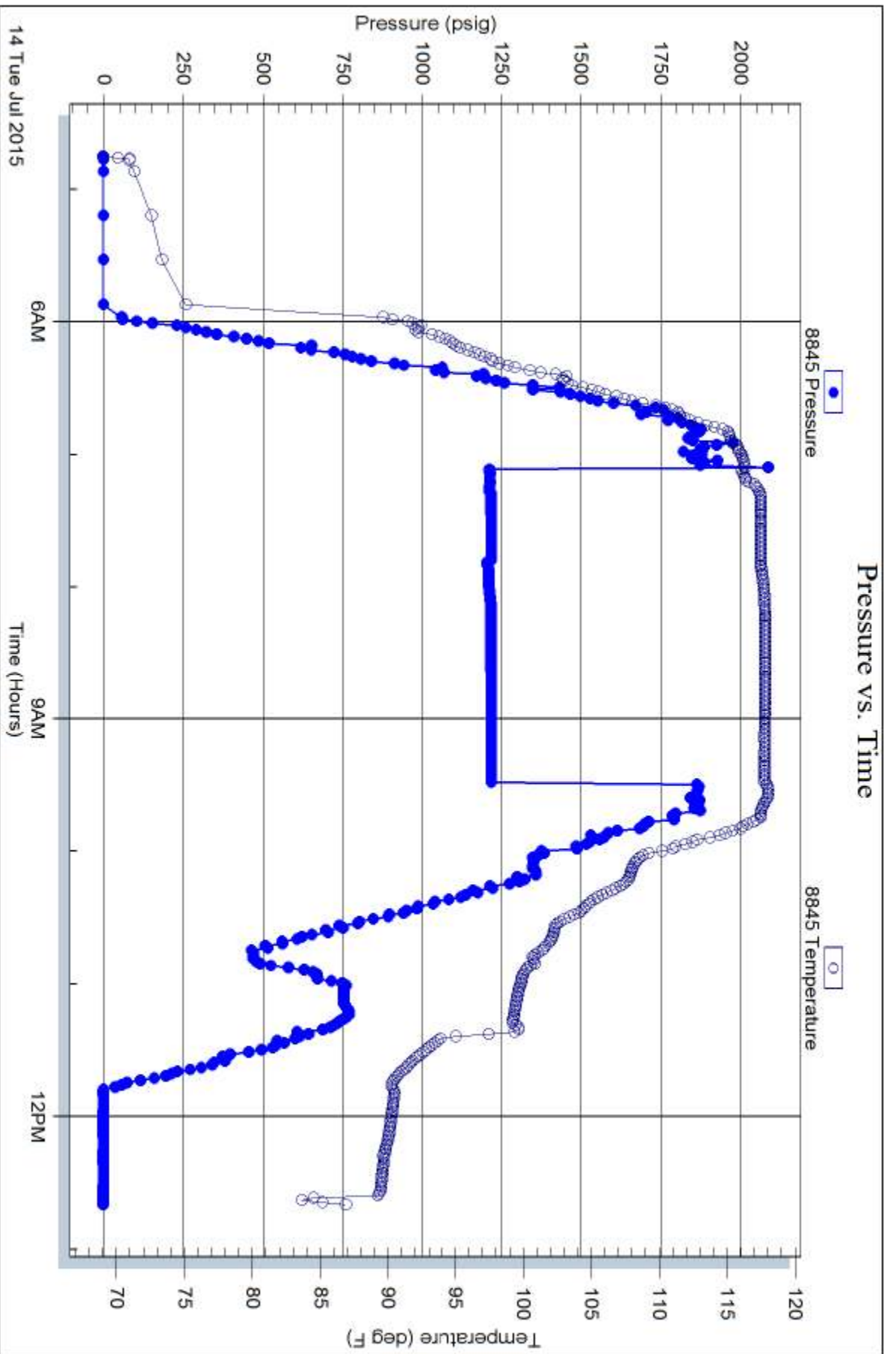
Laboratory Location:

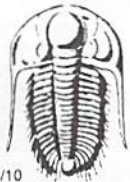
Recovery Comments: Sampler rec. = 600 mL. 1%O 24%M 75%W PSI = 250 rW= 0.35 ohms @ 90 deg

Pressure vs. Time









TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 53758

Well Name & No. Wann farms 1-1-15-20 Test No. 1 Date 7-11-15
 Company Cynosure Energy h.L.C. Elevation 2060 KB 2052 GL
 Address 1125 17th street Suite 410 Denver Colorado 80202
 Co. Rep / Geo. Justin Carter Rig Duke #2
 Location: Sec. 1 Twp. 15-S Rge. 20 - W Co. Ellis State KS

Interval Tested 3230 - 3315 Zone Tested Topeka
 Anchor Length 85' Drill Pipe Run 3219 Mud Wt. 9.2
 Top Packer Depth 3225 Drill Collars Run Vis 47
 Bottom Packer Depth 3230 Wt. Pipe Run WL 8.0
 Total Depth 3315 Chlorides 6,600 ppm System LCM 1

Blow Description EF-15-1/2" INT. Blow Built to 10 1/2" in 15 min.
ISI-30- No B.B.
EF-60-1/4" INT. Blow Built to B.o.B. in 26 min.
F.S.I-120- No B.B.

Rec	Feet of	%gas	%oil	%water	%mud
Rec <u>10'</u>	Feet of <u>S, O, C, M, W</u>	%gas	<u>10</u> %oil	<u>50</u> %water	<u>40</u> %mud
Rec <u>500</u>	Feet of <u>S, O, S, W, C, M</u>	%gas	<u>1</u> %oil	<u>40</u> %water	<u>59</u> %mud
Rec <u>120'</u>	Feet of <u>M, W,</u>	%gas	%oil	<u>95</u> %water	<u>5</u> %mud

Rec Total 630 BHT 109.9° Gravity API RW .09 @ 92.5° F Chlorides 65000 ppm

(A) Initial Hydrostatic 1662 Test 1050 T-On Location 09:15:00
 (B) First Initial Flow 57 Jars 250 T-Started 09:55:00
 (C) First Final Flow 113 Safety Joint 75 T-Open 12:28:00
 (D) Initial Shut-In 1043 Circ Sub T-Pulled 16:13:00
 (E) Second Initial Flow 119 Hourly Standby T-Out 18:26:00
 (F) Second Final Flow 231 Mileage 38 Comments
 (G) Final Shut-In 1035 Sampler 250
 (H) Final Hydrostatic 1601 Straddle 'Thank-You'
 Ruined Shale Packer
 Ruined Packer
 Extra Copies
 Initial Open 15 Shale Packer
 Initial Shut-In 30 Extra Packer
 Final Flow 60 Extra Recorder Sub Total 0
 Final Shut-In 120 Day Standby Total 1663
 Accessibility MP/DST Disc't
 Sub Total 1663

Approved By Our Representative Bob Hamer

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.

P.O. Box 362 • Hays, Kansas 67601

FLUID SAMPLER DATA

Ticket No. 53758 Date 7-11-15
 Company Name Cynosure Energy L.L.C.
 Lease Wank Farms #1-1-15-20 Test No. 1
 County Ellis Sec. 1 Twp. 15-S Rng. 20-W

SAMPLER RECOVERY

Gas _____ ML
 Oil Specs ML
 Mud 50 ML
 Water 200 ML
 Other Chlorides 65,000 ML
 Pressure 200 P.S.I ML
 Total 250 ML

PIT MUD ANALYSIS

Chlorides 6,600 ppm.
 Resistivity 0.00 ohms @ _____ F
 Viscosity 47
 Mud Weight 9.2
 Filtrate 8.0
 Other L.C.M 1LB. ~~0.00~~
 _____ ML

SAMPLER ANALYSIS

Resistivity ~~105~~ ¹⁰⁵ ohms @ ~~91.5~~ ^{91.5} F
 Chlorides 125,000 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. 53759

Well Name & No. Wann farms 1-1-15-20 Test No. 2 Date 7-12-15
 Company Cynasure Energy L.L.C. Elevation 2060 KB 2052 GL
 Address 1125 17th Street Suite 410 Denver Colorado 80202
 Co. Rep / Geo. Justin Carter Rig Duke #1
 Location: Sec. 1 Twp. 15 - S. Rge. 20 - W. Co. Ellis State KS.

Interval Tested 3382-3416 Zone Tested E.K.C. C-D
 Anchor Length 34 Drill Pipe Run 3376 Mud Wt. 9.2
 Top Packer Depth 3377 Drill Collars Run --- Vis 47"
 Bottom Packer Depth 3382 Wt. Pipe Run --- WL 8.0
 Total Depth 3416 Chlorides 6,600 ppm System LCM 1

Blow Description IF-10-1/2" INT. Blow Built to B.O.B. in 5 min...
I.S.I-30- No B.B.
F.F-45-1/2" INT. Blow Built to B.O.B. in 7 min...
F.S.I-90- No B.B.

Rec	Feet of	%gas	%oil	%water	%mud
Rec <u>63</u>	Feet of <u>S, D, S, M, W</u>	%gas	%oil <u>1</u>	%water <u>69</u>	%mud <u>30</u>
Rec <u>630</u>	Feet of <u>M, W</u>	%gas	%oil	%water <u>99</u>	%mud <u>1</u>
Rec _____	Feet of _____	%gas	%oil	%water	%mud
Rec _____	Feet of _____	%gas	%oil	%water	%mud

Rec Total 693 BHT 111.2 Gravity --- API RW 0.05 @ 91.5° F Chlorides 125,000 ppm
 (A) Initial Hydrostatic 1,646 Test 1050 T-On Location 03:49:00
 (B) First Initial Flow 33 Jars 250 T-Started 04:07:00
 (C) First Final Flow 109 Safety Joint 75 T-Open 06:46:00
 (D) Initial Shut-In 953 Circ Sub _____ T-Pulled 09:41:00
 (E) Second Initial Flow 115 Hourly Standby _____ T-Out 11:45:00
 (F) Second Final Flow 361 Mileage 38 Comments _____
 (G) Final Shut-In 945 Sampler 250
 (H) Final Hydrostatic 1,639 Straddle _____
 Initial Open 10 Shale Packer _____
 Initial Shut-In 30 Shale Packer _____
 Final Flow 45 Extra Packer _____
 Final Shut-In 90 Extra Recorder _____
 Sub Total 1663 Day Standby _____
 Sub Total 1663 Accessibility _____
 Sub Total 1663 MP/DST Disc't _____

thank-you

Approved By _____ Our Representative Bob Stone

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TRILOBITE TESTING, INC.

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FLUID SAMPLER DATA

Ticket No. 53759 Date 7-12-15
 Company Name Cynasure Energy L.L.C.
 Lease Wann farms 1-1-15-20 Test No. 2
 County Ellis Sec. 1 Twp. 15-S. Rng. 20-W.

SAMPLER RECOVERY

Gas _____ ML
 Oil (few oil specs) ML
 Mud 1 ML
 Water 99 ML
 Other _____ ML
 Pressure 150 P.S.I ML
 Total 100 ML

PIT MUD ANALYSIS

Chlorides 6,600 ppm.
 Resistivity — ohms @ — F
 Viscosity 47
 Mud Weight 9.2
 Filtrate 8.0
 Other L.C.M. 1

SAMPLER ANALYSIS

Resistivity .05 ohms @ 91.5° F
 Chlorides 123,000 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. 53760

Well Name & No. Wann farms 5-1-1-15-20 Test No. 3 Date 07/14/15
 Company CyhoSure Energy L.L.C. Elevation 2060 KB 2052 GL
 Address 1125 17th Street Suite 410 Denver Colorado 80202
 Co. Rep / Geo. Justin Carter Rig Duke #2
 Location: Sec. 1 Twp. 15 - S. Rge. 20 - W Co. Ellis State KS

Interval Tested 3680 - 3715 Zone Tested Cherokee
 Anchor Length 35 Drill Pipe Run 3680 Mud Wt. 9.2
 Top Packer Depth 3680 - 3675 Drill Collars Run — Vis 47
 Bottom Packer Depth 3715 (straddle) Wt. Pipe Run — WL 8.0
 Total Depth 3796 Chlorides 6,800 ppm System LCM 1

Blow Description I.F. - 10 - B.O.B. in 45 sec.

I.S.I. - 30 - NO B.B.

F.F. - 30 - B.O.B. in 30 sec.

F.S.I. - 60 - NO B.B.

Rec	Feet of	%gas	%oil	%water	%mud
Rec <u>1,134</u>	Feet of <u>H.O.C, M, W</u>	%gas <u>20</u>	%oil <u>60</u>	%water <u>20</u>	%mud
Rec <u>1,638</u>	Feet of <u>S.O.S, M, W</u>	%gas <u>1</u>	%oil <u>75</u>	%water <u>24</u>	%mud
Rec _____	Feet of _____	%gas _____	%oil _____	%water _____	%mud _____
Rec _____	Feet of _____	%gas _____	%oil _____	%water _____	%mud _____

Rec Total 2772 BHT 117.2 Gravity — API RW 0.35 @ 90 °F Chlorides 15,500 ppm

(A) Initial Hydrostatic 1,941 Test 1050 T-On Location 04:00:00
 (B) First Initial Flow 242 Jars 250 T-Started 04:45:00
 (C) First Final Flow 624 Safety Joint 75 T-Open 06:48:00
 (D) Initial Shut-In 1197 Circ Sub 50 T-Pulled 09:58:00
 (E) Second Initial Flow 832 Hourly Standby _____ T-Out 12:40:30
 (F) Second Final Flow 1,064 Mileage 38 Comments (Loaded tool)
 (G) Final Shut-In 1,198 Sampler 250 (Dropped Bar)
 (H) Final Hydrostatic 1,843 Straddle 600 Thank you

Initial Open 10 Ruined Shale Packer _____
 Initial Shut-In 30 Ruined Packer _____
 Final Flow 30 Extra Packer 200 Extra Copies _____
 Final Shut-In 60 Extra Recorder 100 Sub Total 0
 Day Standby _____ Total 2613
 Accessibility _____ MP/DST Disc't _____
 Sub Total 2613

Approved By _____ Our Representative B. H. H.

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FLUID SAMPLER DATA

Ticket No. 53760 Date 7-14-15
 Company Name Cynosure Energy L.L.C.
 Lease Wann Farms 1-1-15-20 Test No. 3
 County Ellis Sec. 1 Twp. 15-S Rng. 20-W

SAMPLER RECOVERY

Gas _____ ML
 Oil 100 ML
 Mud 100 ML
 Water 400 ML
 Other _____ ML
 Pressure 250 PSI
 Total 600 ML

PIT MUD ANALYSIS

Chlorides 6,600 ppm.
 Resistivity _____ ohms @ _____ F
 Viscosity 47
 Mud Weight 9.2
 Filtrate 8.0
 Other L.C.M. / L.B.

SAMPLER ANALYSIS

Resistivity 0.35 ohms @ 90° F
 Chlorides 15,500 ppm.
 Gravity — corrected @60F

PIPE RECOVERY

TOP
 Resistivity _____ ohms @ _____ F
 Chlorides _____ ppm.

MIDDLE
 Resistivity _____ ohms @ _____ F
 Chlorides _____ ppm.

BOTTOM
 Resistivity _____ ohms @ _____ F
 Chlorides _____ ppm.