



DRILL STEM TEST REPORT

Prepared For: **CMX, Inc**

1700 N waterfront Pkwy
Bldg 300B
Wichita, KS 67206

ATTN: Ken LeBlank

Gerstberger #1-28

28-14s-36w Logan,KS

Start Date: 2017.09.18 @ 12:26:00

End Date: 2017.09.18 @ 20:08:30

Job Ticket #: 64684 DST #: 1

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

Printed: 2017.09.21 @ 16:12:14

CMX, Inc 28-14s-36w Logan,KS Gerstberger #1-28 DST # 1 LKC C 2017.09.18



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

CMX, Inc
 1700 N w aterfront Pkw y
 Bldg 300B
 Wichita, KS 67206
 ATTN: Ken LeBlank

28-14s-36w Logan,KS

Gerstberger #1-28

Job Ticket: 64684

DST#: 1

Test Start: 2017.09.18 @ 12:26:00

GENERAL INFORMATION:

Formation: **LKC C**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 14:33:45
 Time Test Ended: 20:08:30
 Interval: **4000.00 ft (KB) To 4128.00 ft (KB) (TVD)**
 Total Depth: 4128.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Bradley Walter
 Unit No: 78
 Reference Elevations: 3115.00 ft (KB)
 3110.00 ft (CF)
 KB to GR/CF: 5.00 ft

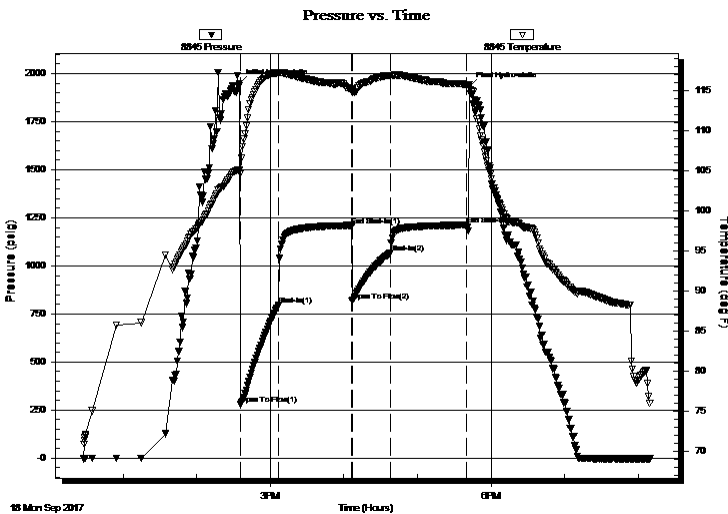
Serial #: 8845

Outside

Press@RunDepth: 1068.26 psig @ 4001.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2017.09.18 End Date: 2017.09.18 Last Calib.: 2017.09.18
 Start Time: 12:27:45 End Time: 20:10:09 Time On Btm: 2017.09.18 @ 14:34:55
 Time Off Btm: 2017.09.18 @ 17:42:25

TEST COMMENT: IF: BOB @ 1 1/2 min.
 IS: No return
 FF: BOB @ 1 1/2 min.
 FS: No return.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1946.02	105.00	Initial Hydro-static
1	278.69	104.58	Open To Flow (1)
32	795.57	117.16	Shut-In(1)
91	1210.82	115.23	End Shut-In(1)
92	818.10	114.97	Open To Flow (2)
124	1068.26	116.82	Shut-In(2)
186	1212.16	115.68	End Shut-In(2)
188	1932.59	115.71	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
2350.00	mcw 3m 97w (oil spots in tool)	

Gas Rates

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



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Gerstberger #1-28

Job Ticket: 64684

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Unit No: 78

Interval: **4000.00 ft (KB) To 4128.00 ft (KB) (TVD)**

Total Depth: 4128.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 3115.00 ft (KB)

3110.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: **8365** Inside

Press@RunDepth: psig @ 4001.00 ft (KB)

Start Date: 2017.09.18

End Date: 2017.09.18

Capacity: 8000.00 psig

Last Calib.: 2017.09.18

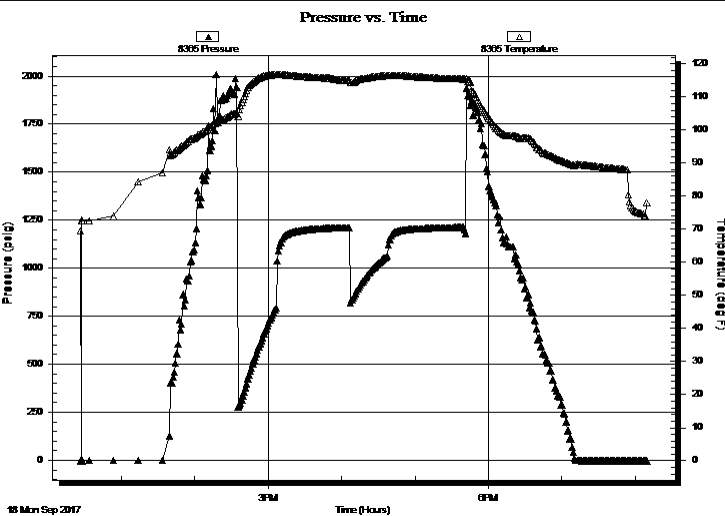
Start Time: 12:26:45

End Time: 20:10:09

Time On Btm:

Time Off Btm:

TEST COMMENT: IF: BOB @ 1 1/2 min.
IS: No return
FF: BOB @ 1 1/2 min.
FS: No return.



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
2350.00	mcw 3m 97w (oil spots in tool)	

Gas Rates

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



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DRILL STEM TEST REPORT

TOOL DIAGRAM

CMX, Inc
1700 N w aterfront Pkw y
Bldg 300B
Wichita, KS 67206
ATTN: Ken LeBlank

28-14s-36w Logan,KS
Gerstberger #1-28
Job Ticket: 64684 **DST#: 1**
Test Start: 2017.09.18 @ 12:26:00

Tool Information

Drill Pipe:	Length: 3860.00 ft	Diameter:	inches	Volume: 3749691 bbl	Tool Weight:	2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter:	inches	Volume: 0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 119.00 ft	Diameter:	inches	Volume: 1155992 bbl	Weight to Pull Loose:	80000.00 lb
				<u>Total Volume: 3865290 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	6.00 ft				String Weight: Initial	60000.00 lb
Depth to Top Packer:	4000.00 ft				Final	70000.00 lb
Depth to Bottom Packer:	ft					
Interval betw een Packers:	128.00 ft					
Tool Length:	155.00 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			3974.00	
Shut In Tool	5.00			3979.00	
Hydraulic tool	5.00			3984.00	
Jars	5.00			3989.00	
Safety Joint	2.00			3991.00	
Packer	5.00			3996.00	27.00 Bottom Of Top Packer
Packer	4.00			4000.00	
Stubb	1.00			4001.00	
Recorder	0.00	8365	Inside	4001.00	
Recorder	0.00	8845	Outside	4001.00	
Perforations	28.00			4029.00	
Change Over Sub	1.00			4030.00	
Drill Pipe	94.00			4124.00	
Change Over Sub	1.00			4125.00	
Bullnose	3.00			4128.00	128.00 Bottom Packers & Anchor

Total Tool Length: 155.00



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FLUID SUMMARY

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ATTN: Ken LeBlank

28-14s-36w Logan,KS
Gerstberger #1-28
Job Ticket: 64684 **DST#: 1**
Test Start: 2017.09.18 @ 12:26:00

Mud and Cushion Information

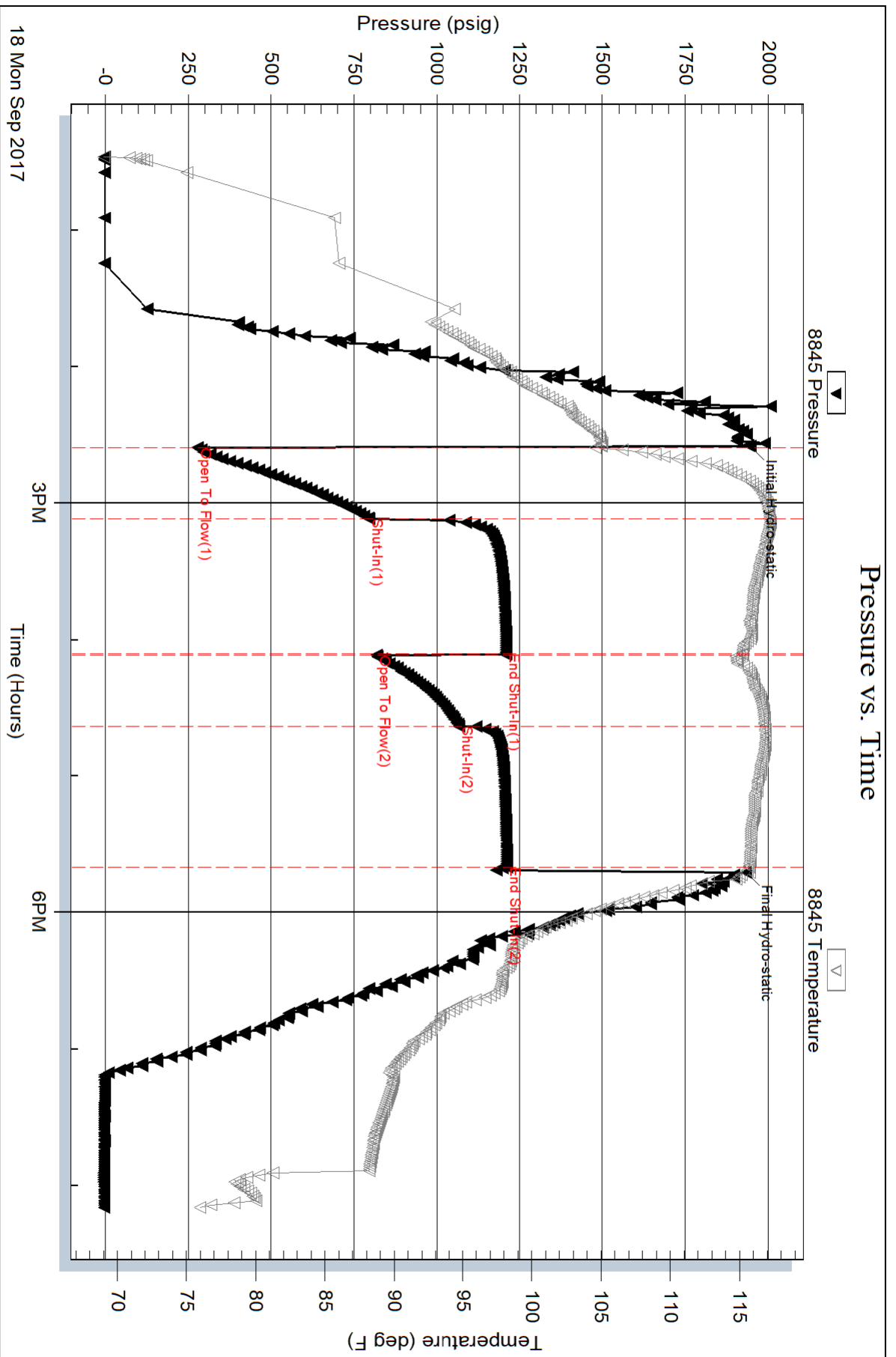
Mud Type: Gel Chem	Cushion Type:	Oil API: 0 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: 41000 ppm
Viscosity: 53.00 sec/qt	Cushion Volume: bbl	
Water Loss: 7.99 in ³	Gas Cushion Type:	
Resistivity: ohm.m	Gas Cushion Pressure: psig	
Salinity: 8000.00 ppm		
Filter Cake: 2.00 inches		

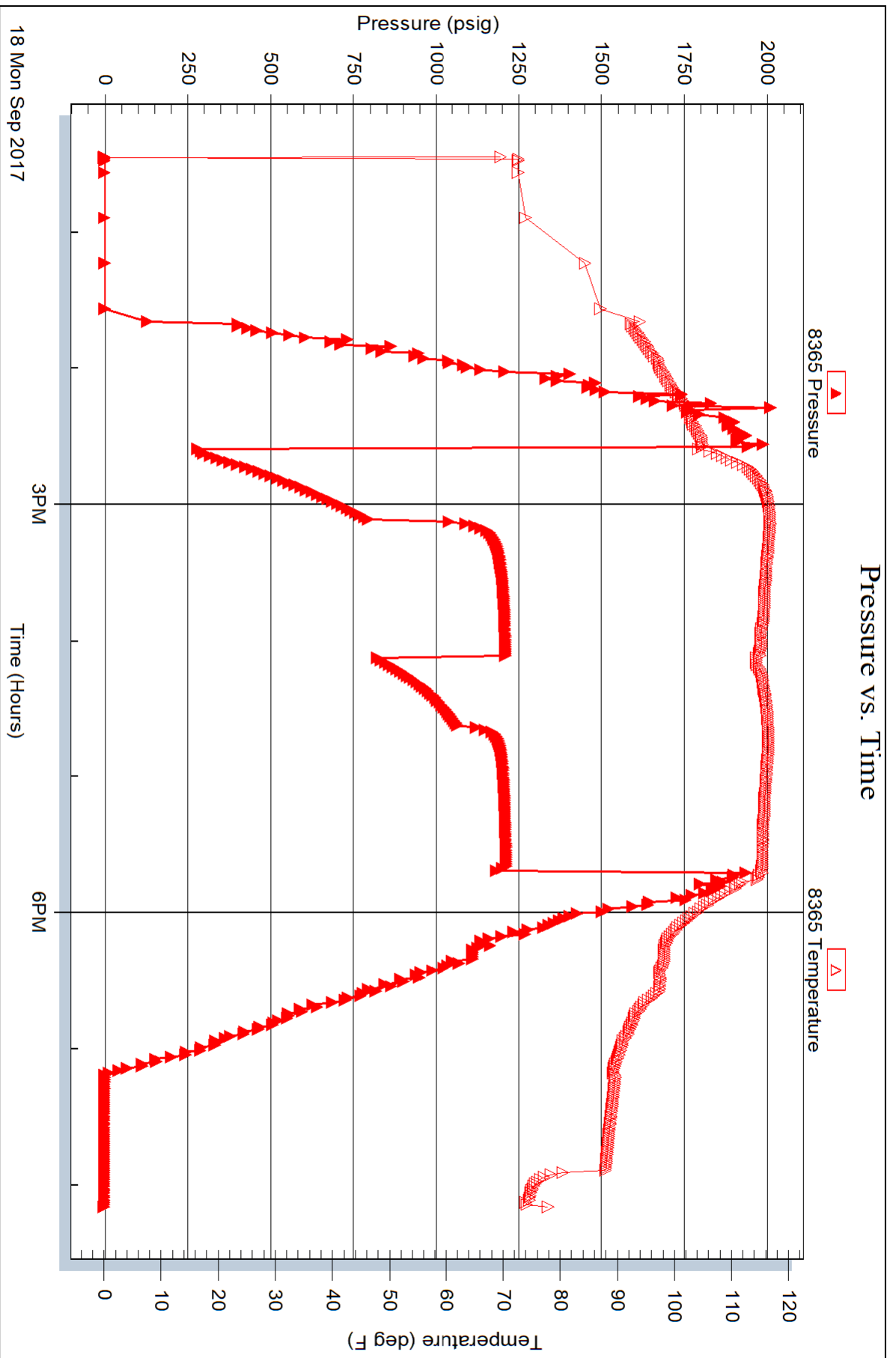
Recovery Information

Recovery Table

Length ft	Description	Volume bbl
2350.00	mcw 3m 97w (oil spots in tool)	

Total Length: 2350.00 ft Total Volume: bbl
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments: rw is .166 @ 74f = 41000ppm







TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

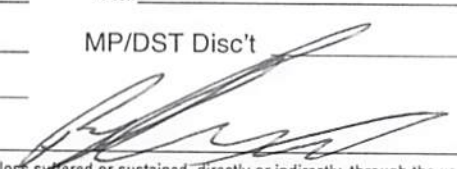
NO. **64684**

Well Name & No. Gaskitt Gerstberger #1-28 Test No. 1 Date 9/18/2017
 Company CMX, Inc Elevation 3115 KB 3110 GL
 Address 1700 Waterfront Pkwy Bldg 300 B Wichita, KS 67206
 Co. Rep / Geo. Ken LeBlanc Rig WW 10
 Location: Sec. 28 Twp. 14s Rge. 36w Co. Logan State KS

Interval Tested 4000 - 4128 Zone Tested LKC C
 Anchor Length 128 Drill Pipe Run 3860 Mud Wt. 9.2
 Top Packer Depth 3998 Drill Collars Run 119 Vis 53
 Bottom Packer Depth 4000 Wt. Pipe Run Ø WL 8.0
 Total Depth 4128 Chlorides 8,000 ppm System LCM 1#
 Blow Description IF: BOB @ 1 1/2 min.
BI: No return.
RF: BOB @ 1 1/2 min.
FSI: No return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>2350</u>	<u>MCW</u>			<u>97</u>	<u>3</u>
	<u>oil spots in tool</u>				

Rec Total 2350 BHT 115 Gravity — API RW .166@ 74° F Chlorides 41000 ppm
 (A) Initial Hydrostatic 1940 Test 1150 T-On Location 1200
 (B) First Initial Flow 279 Jars 250 T-Started 1226
 (C) First Final Flow 796 Safety Joint 75 T-Open 1433
 (D) Initial Shut-In 1211 Circ Sub MC T-Pulled 1735
 (E) Second Initial Flow 818 Hourly Standby _____ T-Out 2010
 (F) Second Final Flow 1068 Mileage 104 RT X2 156 Comments _____
 (G) Final Shut-In 1212 Sampler _____ PU Tools 9/21/2017
 (H) Final Hydrostatic 1933 Straddle _____ 1400
 Shale Packer _____ Ruined Shale Packer _____
 Extra Packer _____ Ruined Packer _____
 Extra Recorder _____ Sub Total 1600
 Day Standby 2.5d 5.75h Total 3231
 Accessibility _____ MP/DST Disc't _____
 Sub Total 1631

Approved By _____ Our Representative 

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