

DRILL STEM TEST REPORT

Prepared For: Castle Resources Inc

Box 87

Schoenchen KS 67667-0087

ATTN: Jerry Green

Constance #1

6-8s-17w Rooks,KS

Start Date: 2015.08.19 @ 10:56:03

End Date: 2015.08.19 @ 17:40:57

Job Ticket #: 62656 DST #: 1

Trilobite Testing, Inc

1515 Commerce Parkway Hays, KS 67601

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

# DRILL STEM TEST REPORT



**6-8s-17w Rooks, KS**  
 Constance #1  
 Job Ticket: 62656  
 DST#: 1  
 ATTN: Jerry Green  
 Test Start: 2015.08.19 @ 10:56:03

## GENERAL INFORMATION:

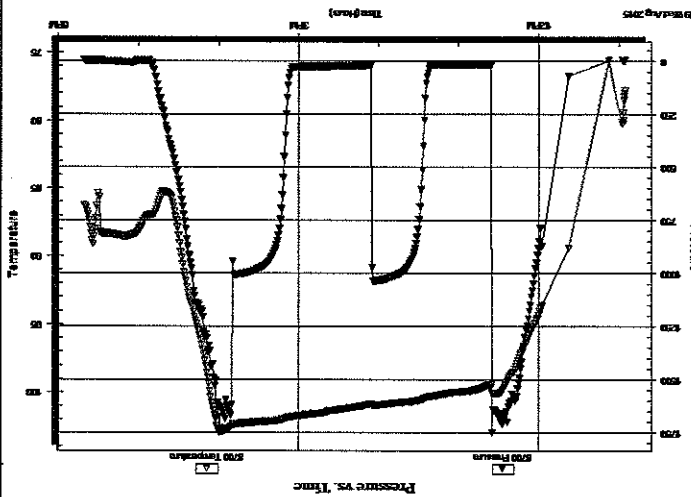
Formation: Arbuckle  
 Deviated: No  
 Whipstock: No  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Ray Schwager  
 Unit No: 70  
 Reference Elevations: 1934.00 ft (KB)  
 1929.00 ft (CF)  
 5.00 ft  
 Interval: 3361.00 ft (KB) To 3384.00 ft (KB) (TVD)  
 Total Depth: 3384.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches  
 Hole Condition: Fair

## TEST COMMENT:

45-FSP-no bl  
 60-FFP-w k bl thru-out 1/4" bl  
 45-SIP-no bl  
 45-FFP-w k bl thru-out surface to 1/4" bl

**Serial #: 8700**  
 Outside  
 Press@RunDepth: psig @ 3362.00 ft (KB)  
 Start Date: 2015.08.19  
 End Date: 2015.08.19  
 Start Time: 10:55:48  
 End Time: 17:40:27  
 Capacity: 8000.00 psig  
 Last Calib.:  
 Time On Blm:  
 Time Off Blm:

## PRESSURE SUMMARY



## Recovery

Length (ft)	Description	Volume (bbl)
0.00	80' GFP	0.00
40.00	CO	0.56
10.00	OCM 10% O90%M	0.14

## Gas Rates

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



**DRILL STEM TEST REPORT**  
**FLUID SUMMARY**

Castle Resources Inc  
 6-8s-17w Rooks,KS  
 Constance #1  
 Job Ticket: 62656  
 DST#:1  
 ATTN: Jerry Green  
 Test Start: 2015.08.19 @ 10:56:03

**Mud and Cushion Information**

Mud Type: Gel Chem  
 Mud Weight: 9.00 lb/gal  
 Viscosity: 52.00 sec/qt  
 Water Loss: 7.93 in<sup>3</sup>  
 Resistivity: ohm.m  
 Salinity: 5000.00 ppm  
 Filter Cake: 1.00 inches  
 Cushion Type:  
 Cushion Length: ft  
 Cushion Volume: bbl  
 Water Salinity: ppm  
 Oil API: 30 deg API  
 Gas Cushion Pressure: psig

**Recovery Information**

Length ft	Description	Volume bbl
0.00	80' GIP	0.000
40.00	CO	0.561
10.00	OCM 10%O90%M	0.140

Total Length: 50.00 ft  
 Total Volume: 0.701 bbl  
 Num Fluid Samples: 0  
 Num Gas Borts: 0  
 Laboratory Name:  
 Laboratory Location:  
 Recovery Comments:

Recovery Table

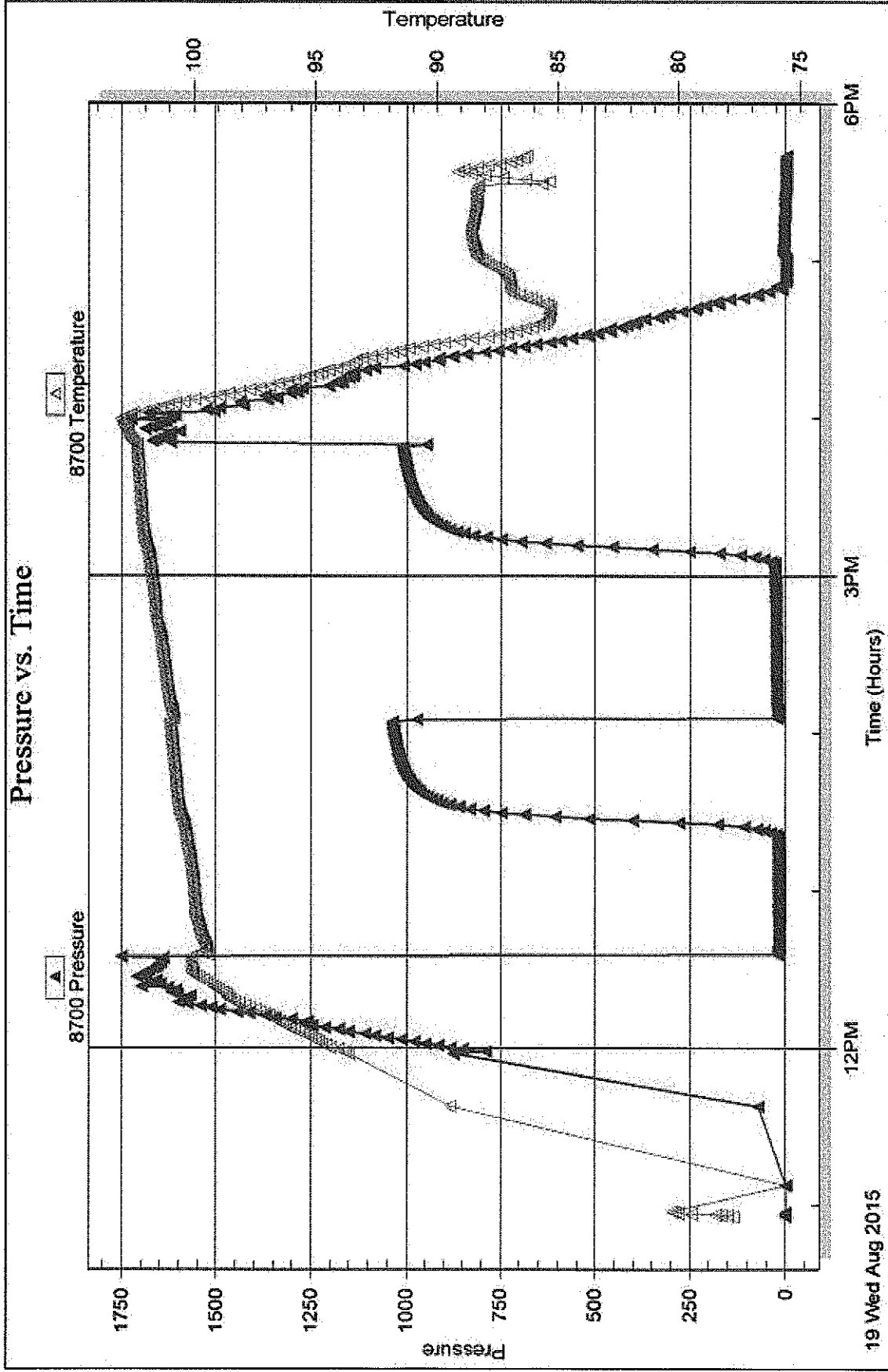
Serial #: 8700

Outside Castle Resources Inc.

Constance #1

DST Test Number: 1

### Pressure vs. Time



19 Wed Aug 2015

Tribble Testing, Inc

Ref. No: 62656

Printed: 2015.08.20 @ 13:47:51

# DRILL STEM TEST REPORT



Castle Resources Inc  
Box 87  
Schoenchen KS 67667-0087  
Job Ticket: 62657  
Constance #1  
DST#:2  
ATTN: Jerry Green  
Test Start: 2015.08.19 @ 23:15:25

## GENERAL INFORMATION:

Formation: Arbuckle  
Deviated: No  
Whipstock: No  
ft (KB)  
Time Tool Opened: 01:23:20  
Time Test Ended: 06:26:04  
Interval: 3361.00 ft (KB) To 3389.00 ft (KB) (TVD)  
Total Depth: 3389.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches-Hole Condition: Fair  
KB to GR/CF: 5.00 ft  
Reference Elevations: 1934.00 ft (KB)  
1929.00 ft (CF)

## Serial #: 8018

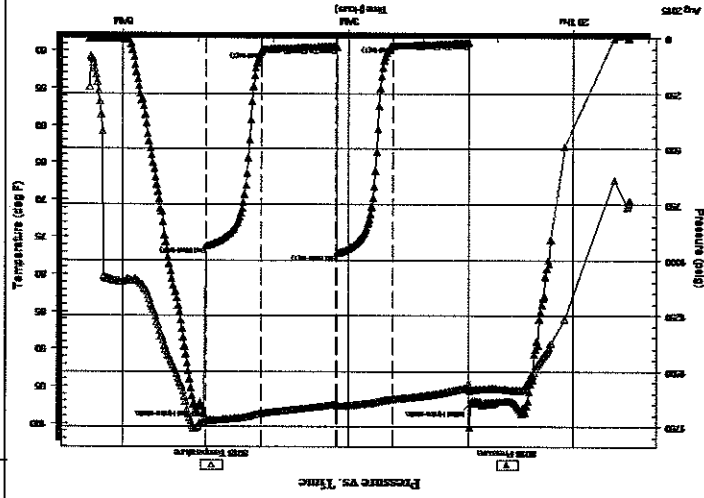
Inside  
Press@RunDepth: 60.23 psig @ 3367.00 ft (KB)  
Start Date: 2015.08.19  
End Date: 2015.08.20  
Start Time: 23:15:25  
End Time: 06:26:04  
Capacity: 8000.00 psig  
Last Calib.: 2015.08.20  
Time On Birm: 2015.08.20 @ 01:21:35  
Time Off Birm: 2015.08.20 @ 04:58:34

## TEST COMMENT:

60-FFP-wk bl thru-out 1/2" to 2" bl  
45-SIP-no bl  
60-FFP-wk bl thru-out 1" to 2 1/4" bl  
45-FSP-surface bl bk

## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1639.47	95.53	Initial Hydro-static
2	22.08	94.70	Open To Flow (1)
63	35.70	96.76	Shut-in(1)
107	969.58	97.75	End Shut-in(1)
108	38.48	97.53	Open To Flow (2)
168	60.23	98.66	Shut-in(2)
213	935.72	99.64	End Shut-in(2)
217	1638.20	99.98	Final Hydro-static



## Recovery

Length (ft)	Description	Volume (bbl)
0.00	150' GIP	0.00
70.00	CO	0.98
20.00	HOR&GCM 10%G40%O50%M	0.28

\* Recovery from multiple tests

## Gas Rates

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

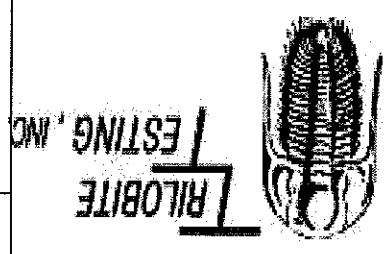
Triobite Testing, Inc

Ref. No: 62657

Printed: 2015.08.20 @ 13:46:35

**TOOL DIAGRAM**

**DRILL STEM TEST REPORT**



Castle Resources Inc  
 6-8s-17w Rooks,KS  
 Constance #1  
 Schoenchen KS 67667-0087  
 Job Ticket: 62657  
 DST#:2  
 ATTN: Jerry Green  
 Test Start: 2015.08.19 @ 23:15:25

**Tool Information**

Drill Pipe:	Length: 3359.00 ft	Diameter: 3.80 inches	Volume: 47.12 bbl	Tool Weight: 2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 55000.00 lb
<b>Drill Pipe Above KB:</b>				
	19.00 ft		Total Volume: 47.12 bbl	Tool Chased 0.00 ft
Depth to Top Packer:	3361.00 ft			-String Weight: Initial 40000.00 lb
Depth to Bottom Packer:	ft			Final 41000.00 lb
Interval betw een Packers:	28.00 ft			
Tool Length:	49.00 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				
Shut In Tool	5.00				
Hydraulic tool	5.00				
Packer	5.00				
Packer	5.00				
Packer	5.00				
Stub	1.00				
Perforations	5.00				
Recorder	0.00	8018	Inside	3367.00	
Recorder	0.00	8700	Outside	3367.00	
Perforations	5.00				
Perforations	19.00				
Bullnose	3.00				
<b>Total Tool Length:</b>	<b>49.00</b>				

Bottom Of Top Packer	21.00				
Bottom Packers & Anchor	28.00				

DST Test Number: 2

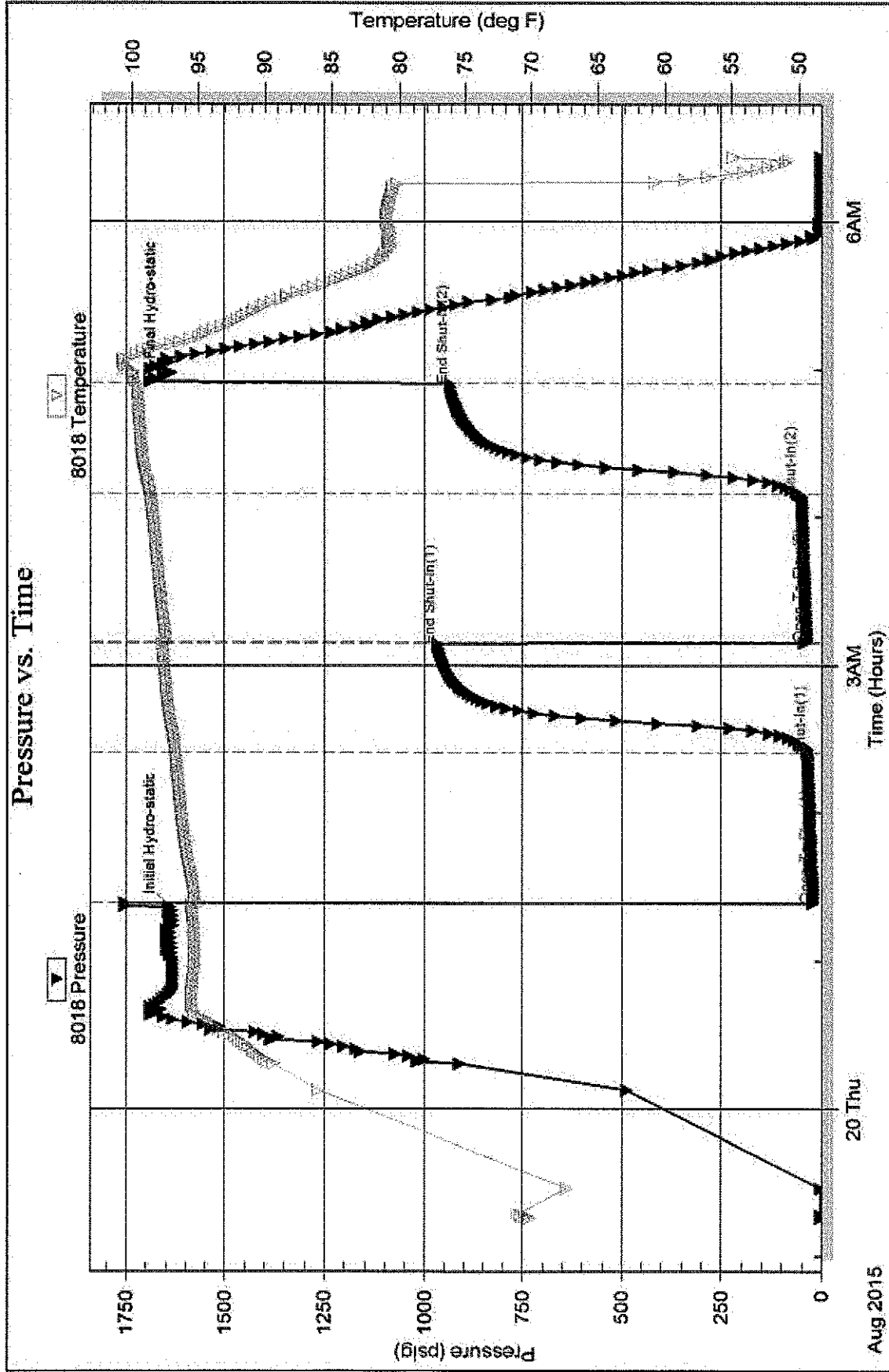
Constance #1

Castle Resources Inc.

Inside

Serial #: 8018

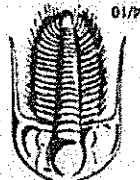
### Pressure vs. Time



Printed: 2015.08.20 @ 13:46:36

Ref. No: 62657

Trialbite Testing, Inc



**TRIOBITE TESTING INC.**

1515 Commerce Parkway • Hays, Kansas 67601

**Test Ticket**  
NO. 62656

<b>Well Name &amp; No.</b>	Constance #1
<b>Company</b>	Castle Resources Inc
<b>Address</b>	Box B7 Schenck, Ks 67667-0087
<b>Co. Rep / Geo.</b>	Terry Green
<b>Location: Sec.</b>	Twp. 6 Rge. 8 Co. Rooks State Ks
<b>Test No.</b>	1
<b>Elevation</b>	1934
<b>Date</b>	8-19-15

Interval Tested	Drill Pipe Run	Zone Tested	Mud Wt.	Vis	WL	LCM	Total Depth	Blow Description
3361-3384	23	Abu-alk	9.4	5.2	8	1FE	3384	IFP - Dark Blow thru-out surface to 4" Blow
3356	—	—	—	—	—	—	3361	ISIP - NO Blow
3361	—	—	—	—	—	—	3361	FFP - Dark Blow thru-out 1/4" Blow
80	67	—	—	—	—	—	80	FFP - NO Blow

Rec	Feet of	%gas	%oil	%water	%mud
Rec	80	67	—	—	—
Rec	40	60	—	—	—
Rec	10	0CM	10	90	—

<b>Rec Total</b>	BHT 102	Gravim 30	API RW 1050	@	F Chlorides	ppm
(A) Initial Hydrostatic	1650	Test	1050			1000
(B) First Initial Flow	22	Jars				1055
(C) First Final Flow	27	Safety Joint				1235
(D) Initial Shut-in	1039	Circ Sub				1550
(E) Second Initial Flow	25	Hourly Standby				1740
(F) Second Final Flow	31	Mileage 7787				
(G) Final Shut-in	1012	Sampler				
(H) Final Hydrostatic	1625	Sraddle				

Final Shut-in	45	Sub Total	1127
Final Flow	45	MP/DST Disc	
Initial Shut-in	45	Total	1127
Initial Open	45	Sub Total	0
		Extra Copies	
		Extra Packer	
		Ruined Packer	
		Ruined Shale Packer	
		Shale Packer	
		Hourly Standby	
		Mileage	7787
		Sampler	
		Sraddle	
		Shale Packer	
		Extra Packer	
		Extra Recorder	
		Day Standby	
		Accessibility	
		Sub Total	1127

Approved By Ray Schwager  
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