



KANSAS CORPORATION COMMISSION 1102281
 OIL & GAS CONSERVATION DIVISION

Form ACO-1
 June 2009
Form Must Be Typed
Form must be Signed
All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # 31819
 Name: Cholla Production, LLC
 Address 1: 7851 S ELATI ST STE 201
 Address 2: _____
 City: LITTLETON State: CO Zip: 80120 + 8081
 Contact Person: Emily Hundley-Goff
 Phone: (303) 623-4565
 CONTRACTOR: License # 33575
 Name: WW Drilling, LLC
 Wellsite Geologist: Herb Deines
 Purchaser: _____

Designate Type of Completion:

- New Well Re-Entry Workover
- Oil WSW SWD SIOW
- Gas D&A ENHR SIGW
- OG GSW Temp. Abd.
- CM (Coal Bed Methane)
- Cathodic Other (Core, Expl., etc.): _____

If Workover/Re-entry: Old Well Info as follows:

Operator: _____
 Well Name: _____
 Original Comp. Date: _____ Original Total Depth: _____

Deepening Re-perf. Conv. to ENHR Conv. to SWD

Conv. to GSW

Plug Back: _____ Plug Back Total Depth _____

Commingled Permit #: _____

Dual Completion Permit #: _____

SWD Permit #: _____

ENHR Permit #: _____

GSW Permit #: _____

<u>11/29/2011</u>	<u>12/04/2011</u>	<u>4/13/2012</u>
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-195-22729-00-00
 Spot Description: _____
N2 NE NE NE Sec. 4 Twp. 11 S. R. 23 East West
90 Feet from North / South Line of Section
330 Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE NW SE SW

County: Trego
 Lease Name: McCall 4-1 Well #: #1
 Field Name: _____
 Producing Formation: Lansing
 Elevation: Ground: 2311 Kelly Bushing: 2317
 Total Depth: 4090 Plug Back Total Depth: _____
 Amount of Surface Pipe Set and Cemented at: 262 Feet
 Multiple Stage Cementing Collar Used? Yes No
 If yes, show depth set: 1796 Feet
 If Alternate II completion, cement circulated from: _____
 feet depth to: _____ w/ _____ sx cmf.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: 30000 ppm Fluid volume: 750 bbls
 Dewatering method used: Evaporated
 Location of fluid disposal if hauled offsite: _____
 Operator Name: _____
 Lease Name: _____ License #: _____
 Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West
 County: _____ Permit #: _____

AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

KCC Office Use ONLY

- Letter of Confidentiality Received
 Date: _____
- Confidential Release Date: _____
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT I II III Approved by: Deanna Garrison Date: 12/04/2012



1102281

Operator Name: Cholla Production, LLC Lease Name: McCall 4-1 Well #: #1
 Sec. 4 Twp. 11 S. R. 23 East West County: Trego

INSTRUCTIONS: Show important tops and base of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed. Attach complete copy of all Electric Wire-line Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken <i>(Attach Additional Sheets)</i>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Name	Top	Datum
Cores Taken	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Heebner	3538	-1221
Electric Log Run	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Lansing	3574	-1257
Electric Log Submitted Electronically <i>(If no, Submit Copy)</i>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	BKC	3800	-1483
List All E. Logs Run: Attached		Pawnee	3906	-1589
		Arbuckle	4046	-1729

CASING RECORD <input checked="" type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
Surface	12.25	8.625	23	262	Class A	160	3% CC, 2% gel
Production	7.875	4.5	10.5	4079	CMD	275	

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input checked="" type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone	1796-1796	Class A	245	CMD

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth
4	3660-64	500 gal 20%MCA FE	3660-64
6	3608-11	300 gal MAC Ffe	3608-11

TUBING RECORD: Size: <u>2.375</u> Set At: <u>3681</u> Packer At: <u>plug @3685</u>		Liner Run: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Date of First, Resumed Production, SWD or ENHR. <u>4/13/2012</u>		Producing Method: <input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain) _____	
Estimated Production Per 24 Hours	Oil Bbls. <u>8</u>	Gas Mcf <u>100</u>	Water Bbls. Gas-Oil Ratio Gravity

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input checked="" type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5) (Submit ACO-4)</i> <input type="checkbox"/> Other (Specify) _____	PRODUCTION INTERVAL: <u>3608-64</u>
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Form	ACO1 - Well Completion
Operator	Cholla Production, LLC
Well Name	McCall 4-1 #1
Doc ID	1102281

All Electric Logs Run

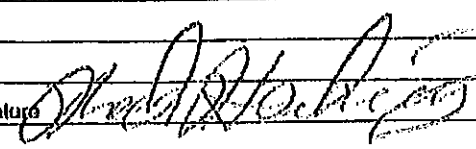
DIL
DUCP
BHCS
MEL

QUALITY OILWELL CEMENTING, INC.

Phone 785-483-2025
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. 539

Date	11/28/11	Sec.	4	Twp.	11	Range	23	County	Trego	State	KS	On Location	Finish	8:15 PM		
Loase	McCall	Well No.	4-1			Location Wakeeney, N to County Line, 1/2 W, S into										
Contractor	W.W. Drilling Right 4					Owner To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.										
Type Job	Surface					Charge To McElvann Oil & Gas Properties, Inc.										
Hole Size	12 1/4"		T.D.		262'		Depth								262'	
Csg.	8 5/8" 2.31ft		Depth		262'		Street									
Tbg. Size			Depth				City								State	
Tool			Depth				The above was done to satisfaction and supervision of owner agent or contractor.									
Cement Left In Csg.	15'		Shoe Joint				Cement Amount Ordered								160 SK Com 30/100 2/10/11	
Meas Line			Displace		15 3/4 Bbls.											
EQUIPMENT																
Pumprk	9	No.	Cementor		Heiser		Common								160	
Bulktrk	10	No.	Driver		Muffy		Poz. Mix									
Bulktrk	PV	No.	Driver		Brian		Gal.								3	
JOB SERVICES & REMARKS																
Remarks:																
Rat Hole																
Mouso Hole																
Centralizers																
Baskets																
D/V or Port Collar																
Est. Csg.	Sand															
Max 160 SK	Handling 168															
Displace	Mileage															
Cement Circulated	FLOAT EQUIPMENT															
	Guide Shoe															
	Centralizer															
	Baskets															
	AFU Inserts															
	Float Shoe															
	Latch Down															
	Pumprk Charge															
	Mileage 4/2															
Signature												Tax				
												Discount				
												Total Charge				



CONSOLIDATED
Oil Well Services, L.L.C.

TICKET NUMBER 33736

LOCATION Onkay

FOREMAN Fuzzie - Wicks

PO Box 884, Chanute, KS 68720
628-431-0210 or 800-487-0670

FIELD TICKET & TREATMENT REPORT
CEMENT

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
12-4-11	5342	McCall 1-4				Trego
CUSTOMER McElvain Oil & Gas			Ks			
MAILING ADDRESS			TRUCK #	DRIVER	TRUCK #	DRIVER
CITY			7W- WGS S.	399	Dammann	
STATE				566	Cady R	
ZIP CODE				328	WGS F	
					Miles S	

JOB TYPE 2 stage HOLE SIZE 7 7/8 HOLE DEPTH 4090' CASING SIZE & WEIGHT 4 1/2 10.5
 CASING DEPTH 4079 1/2 DRILL PIPE _____ TUBING _____ OTHER DU Tool - 1796 02
 SLURRY WEIGHT 10.7-14 SLURRY VOL _____ WATER gal/bk _____ CEMENT LEFT IN CASING 21 06
 DISPLACEMENT 64.5 DISPLACEMENT PSI _____ MIX PSI _____ RATE _____

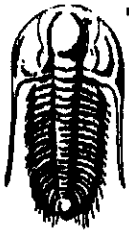
REMARKS: 554-27.5 mvd
Safety meeting on well #4 float equip cont 1, 3, 5, 7, 9, 11, 13, 15, 17, 56
DU Tool Top 55. Basket Top 54. Pump 4 circulate. Pump 5 3 1/2 water, 500 gal
mud flush, 5 1/2 water, mix 125 lbs CMB @ 10.7 # Tail with 150 lbs CMB
@ 14 # wash pump + 1 hrs. Dip plus mud displace 36 3/4 water, 24 1/2 mud
LiCl press 800 # handle @ 1500 #. Wait 10 min open tool @ 500 # circ 2 hrs.
Pump 5 1/2 water mix 5 BAK in RH. Mix 245 lbs CMB down 4 1/2 casing
wash pump 4 hrs. Dip plus mud displace 29 BAK high 600 # close DU
Tool @ 1800 # float hold cement did circulate approx 80 BAK to pit
 Thanks Fuzzie & crew

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5401P	1	PUMP CHARGE	2850 00	2850 00
5406	40	MILEAGE	5 00	200 00
5407A	25.62 ton	Tow mileage Delivery	1 25	1619 25
11045	545 sbs	Class A Cement	162 00	9156 00
1110	1024 #	Sodium Metasilicate	2 25	2314 24
1102	1024 #	Calcium Chloride	.84	860 16
1101	1024 #	Plaster	.46	471 04
1118B	2048 #	Brackish	.24	491 52
1144G	300 gal	Mud Flush	1 00	500 00
4156	1	BEU float shoe - 4 1/2	342 00	342 00
4129	10	Centrifuges - 4 1/2	46 00	460 00
4103	1	Cement Basket - 4 1/2	261 00	261 00
4294	1	DU Tool w/latchdown - 4 1/2	3850 00	3850 00
			subtotal	23325 76
			1075 1090 disc	2337 76
			As per Bid	21037 41
			subtotal	246548
			SALES TAX	1144 81
			ESTIMATED TOTAL	22182 45

Rev'n 0737

AUTHORIZATION [Signature] TITLE Agent DATE _____

I acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the customer's account records, at our office, and conditions of service on the back of this form are in effect for services identified on this form.



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

McElvain oil & Gas Properties Inc.

4 11 23 Trego Ks

1050 17th St. Ste. 2500
Denver Co. 80265

McCall 4-1 #1

Job Ticket: 042938

DST#: 1

ATTN: Herb Denis

Test Start: 2011.12.01 @ 13:50:00

GENERAL INFORMATION:

Formation: **LKC-A**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 15:17:00

Time Test Ended: 19:47:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Chuck Kreutzer Jr.

Unit No: 36

Interval: **3570.00 ft (KB) To 3596.00 ft (KB) (TVD)**

Reference Elevations: 2317.00 ft (KB)

Total Depth: 3596.00 ft (KB) (TVD)

2312.00 ft (CF)

Hole Diameter: 7.80 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 6752 Inside

Press@RunDepth: 155.18 psig @ 3571.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.12.01

End Date: 2011.12.01

Last Calib.: 2011.12.01

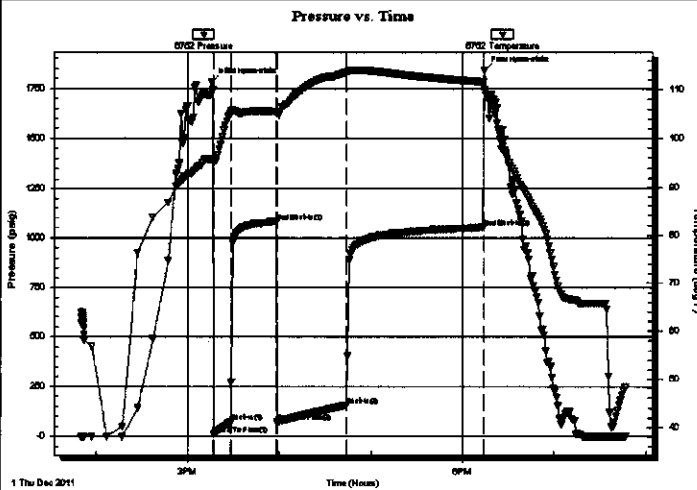
Start Time: 13:50:05

End Time: 19:46:59

Time On Btm: 2011.12.01 @ 15:15:30

Time Off Btm: 2011.12.01 @ 18:14:30

TEST COMMENT: IF: Weak blow, Built to 4 in. over 10 mins.
IS: No blow back over 30 mins.
FF: Weak blow, Built to 2 in. over 45 mins.
FS: No blow back over 90 mins.



PRESSURE SUMMARY

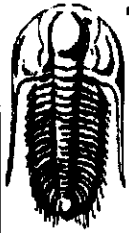
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1779.95	95.77	Initial Hydro-static
2	11.73	95.20	Open To Flow (1)
13	70.77	105.08	Shut-In(1)
43	1079.67	105.54	End Shut-In(1)
43	73.23	105.16	Open To Flow (2)
88	155.18	113.59	Shut-In(2)
178	1050.15	111.65	End Shut-In(2)
179	1839.48	110.01	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
196.00	sw -100%sw	1.62
0.00	RW-1.@40*=11000	0.00

Gas Rates

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



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TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

McElvain oil & Gas Properties Inc.

4 11 23 Trego Ks

1050 17th St. Ste. 2500
Denver Co. 80265

McCall 4-1 #1

Job Ticket: 042938

DST#: 1

ATTN: Herb Denis

Test Start: 2011.12.01 @ 13:50:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 98.00 lb/gal

Cushion Length: ft

Water Salinity: 11000 ppm

Viscosity: 57.00 sec/qt

Cushion Volume: bbl

Water Loss: 6.79 in³

Gas Cushion Type:

Resistivity: 1.00 ohm.m

Gas Cushion Pressure: psig

Salinity: 11000.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
196.00	sw - 100%sw	1.620
0.00	RW-1.@40*=11000	0.000

Total Length: 196.00 ft Total Volume: 1.620 bbl

Num Fluid Samples: 0

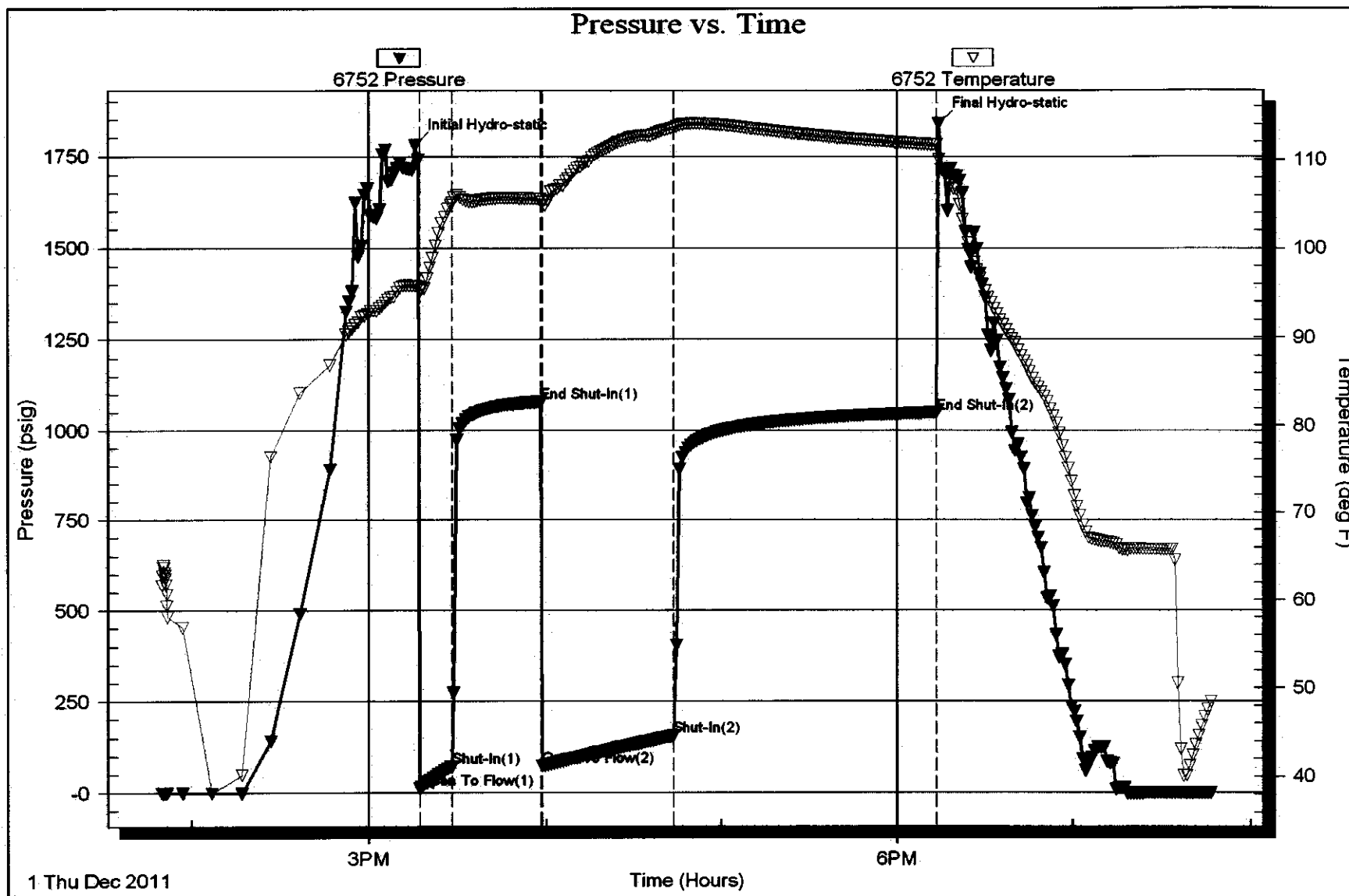
Num Gas Bombs: 0

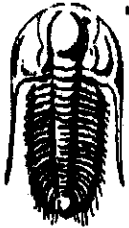
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

McEvain oil & Gas Properties Inc.

4 11 23 Trego Ks

1050 17th St. Ste. 2500
Denver Co. 80265

McCall 4-1 #1

Job Ticket: 042939

DST#: 2

ATTN: Herb Denis

Test Start: 2011.12.02 @ 23:45:00

GENERAL INFORMATION:

Formation: **Pawnee**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 01:52:30

Time Test Ended: 07:45:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Chuck Kreutzer Jr.

Unit No: 36

Interval: **3918.00 ft (KB) To 3950.00 ft (KB) (TVD)**

Reference Elevations: 2317.00 ft (KB)

Total Depth: 3950.00 ft (KB) (TVD)

2312.00 ft (CF)

Hole Diameter: 7.80 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 6752 Inside

Press@RunDepth: 18.97 psig @ 3919.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.12.02 End Date: 2011.12.03

Last Calib.: 2011.12.03

Start Time: 23:45:05 End Time: 07:44:59

Time On Btm: 2011.12.03 @ 01:35:30

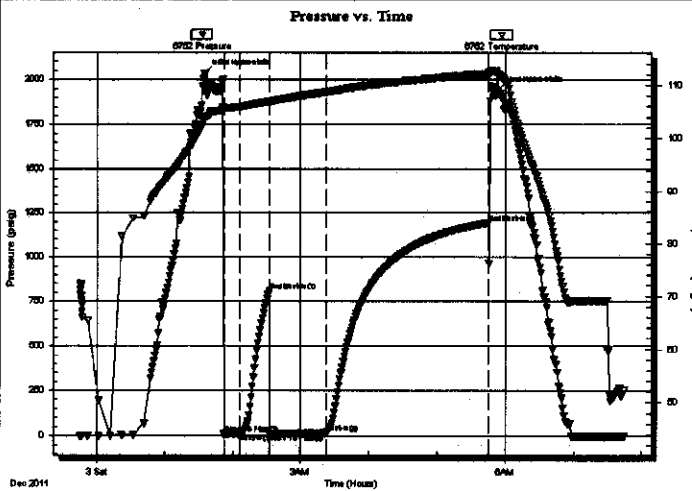
Time Off Btm: 2011.12.03 @ 05:53:00

TEST COMMENT: IF: Weak surface blow over 10 mins.

IS: No blow back over 30 mins.

FF: No blow over 45 mins.

FS: No blow back over 135 mins.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2032.17	103.88	Initial Hydro-static
17	9.14	105.73	Open To Flow (1)
31	10.02	105.91	Shut-In (1)
57	810.83	106.91	End Shut-In (1)
58	11.57	106.64	Open To Flow (2)
108	18.97	108.72	Shut-In (2)
250	1193.65	112.22	End Shut-In (2)
258	1941.75	112.15	Final Hydro-static

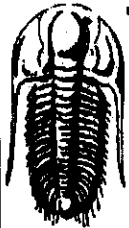
Recovery

Length (ft)	Description	Volume (bbl)
5.00	mud-100% m	0.02
0.00	sampler-50 psi-3000ml.	0.00

* Recovery from multiple tests

Gas Rates

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



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TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

McElvain oil & Gas Properties Inc.

4 11 23 Trego Ks

1050 17th St. Ste. 2500
Denver Co. 80265

McCall 4-1 #1

Job Ticket: 042939

DST#: 2

ATTN: Herb Denis

Test Start: 2011.12.02 @ 23:45:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 98.00 lb/gal

Cushion Length: ft

Water Salinity: ppm

Viscosity: 57.00 sec/qt

Cushion Volume: bbl

Water Loss: 6.79 in³

Gas Cushion Type:

Resistivity: 1.00 ohm.m

Gas Cushion Pressure: psig

Salinity: ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	mud-100%m	0.025
0.00	sampler-50 psi-3000ml.	0.000

Total Length: 5.00 ft Total Volume: 0.025 bbl

Num Fluid Samples: 0

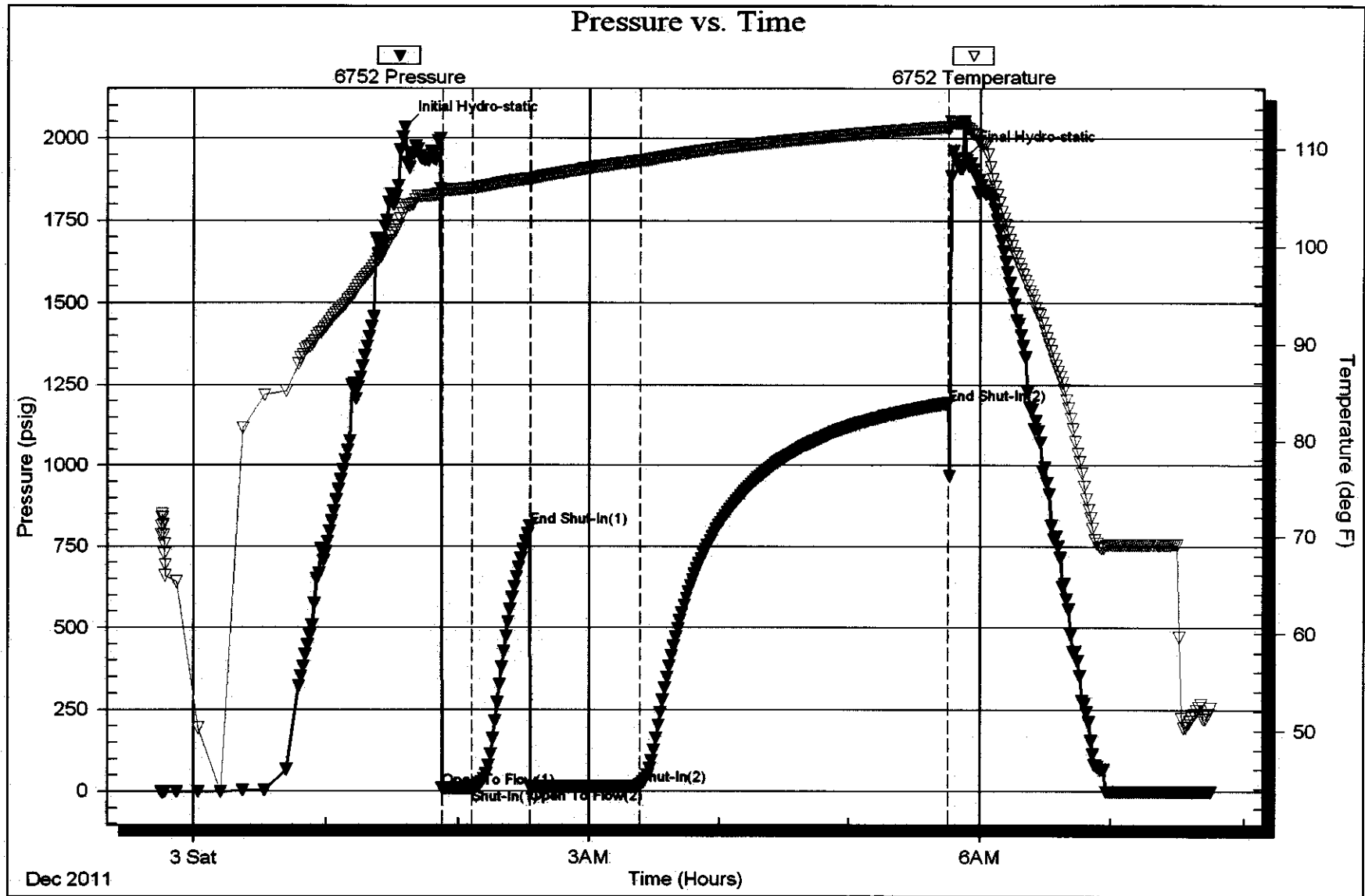
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

McElvain oil & Gas Properties Inc.

4 11 23 Trego Ks

1050 17th St. Ste. 2500
Denver Co. 80265

McCall 4-1 #1

Job Ticket: 042939

DST#: 2

ATTN: Herb Denis

Test Start: 2011.12.02 @ 23:45:00

GENERAL INFORMATION:

Formation: **Pawnee**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 01:52:30

Time Test Ended: 07:45:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Chuck Kreutzer Jr.

Unit No: 36

Interval: **3918.00 ft (KB) To 3950.00 ft (KB) (TVD)**

Total Depth: 3950.00 ft (KB) (TVD)

Hole Diameter: 7.80 inches Hole Condition: Good

Reference Elevations: 2317.00 ft (KB)

2312.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 6752 Inside

Press@RunDepth: 18.97 psig @ 3919.00 ft (KB)

Start Date: 2011.12.02

End Date: 2011.12.03

Start Time: 23:45:05

End Time: 07:44:59

Capacity: 8000.00 psig

Last Calib.: 2011.12.03

Time On Btm: 2011.12.03 @ 01:35:30

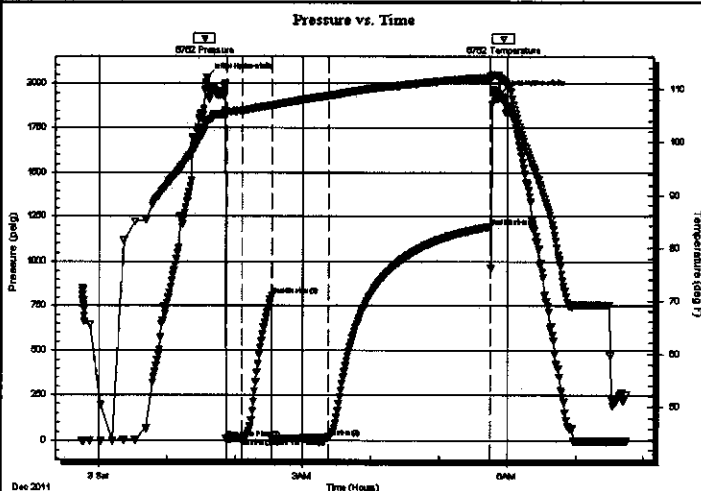
Time Off Btm: 2011.12.03 @ 05:53:00

TEST COMMENT: IF: Weak surface blow over 10 mins.

IS: No blow back over 30 mins.

FF: No blow over 45 mins.

FS: No blow back over 135 mins.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2032.17	103.88	Initial Hydro-static
17	9.14	105.73	Open To Flow (1)
31	10.02	105.91	Shut-In(1)
57	810.83	106.91	End Shut-In(1)
58	11.57	106.64	Open To Flow (2)
108	18.97	108.72	Shut-In(2)
250	1193.65	112.22	End Shut-In(2)
258	1941.75	112.15	Final Hydro-static

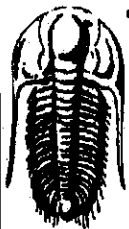
Recovery

Length (ft)	Description	Volume (bbl)
5.00	mud-100%m	0.02
0.00	sampler-50 psi-3000ml.	0.00

* Recovery from multiple tests

Gas Rates

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



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DRILL STEM TEST REPORT

FLUID SUMMARY

McEvain oil & Gas Properties Inc.

4 11 23 Trego Ks

1050 17th St. Ste. 2500
Denver Co. 80265

McCall 4-1 #1

Job Ticket: 042939

DST#: 2

ATTN: Herb Denis

Test Start: 2011.12.02 @ 23:45:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 98.00 lb/gal

Cushion Length: ft

Water Salinity:

ppm

Viscosity: 57.00 sec/qt

Cushion Volume: bbl

Water Loss: 6.79 in³

Gas Cushion Type:

Resistivity: 1.00 ohm.m

Gas Cushion Pressure: psig

Salinity: ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	mud-100%m	0.025
0.00	sampler-50 psi-3000ml.	0.000

Total Length: 5.00 ft Total Volume: 0.025 bbl

Num Fluid Samples: 0

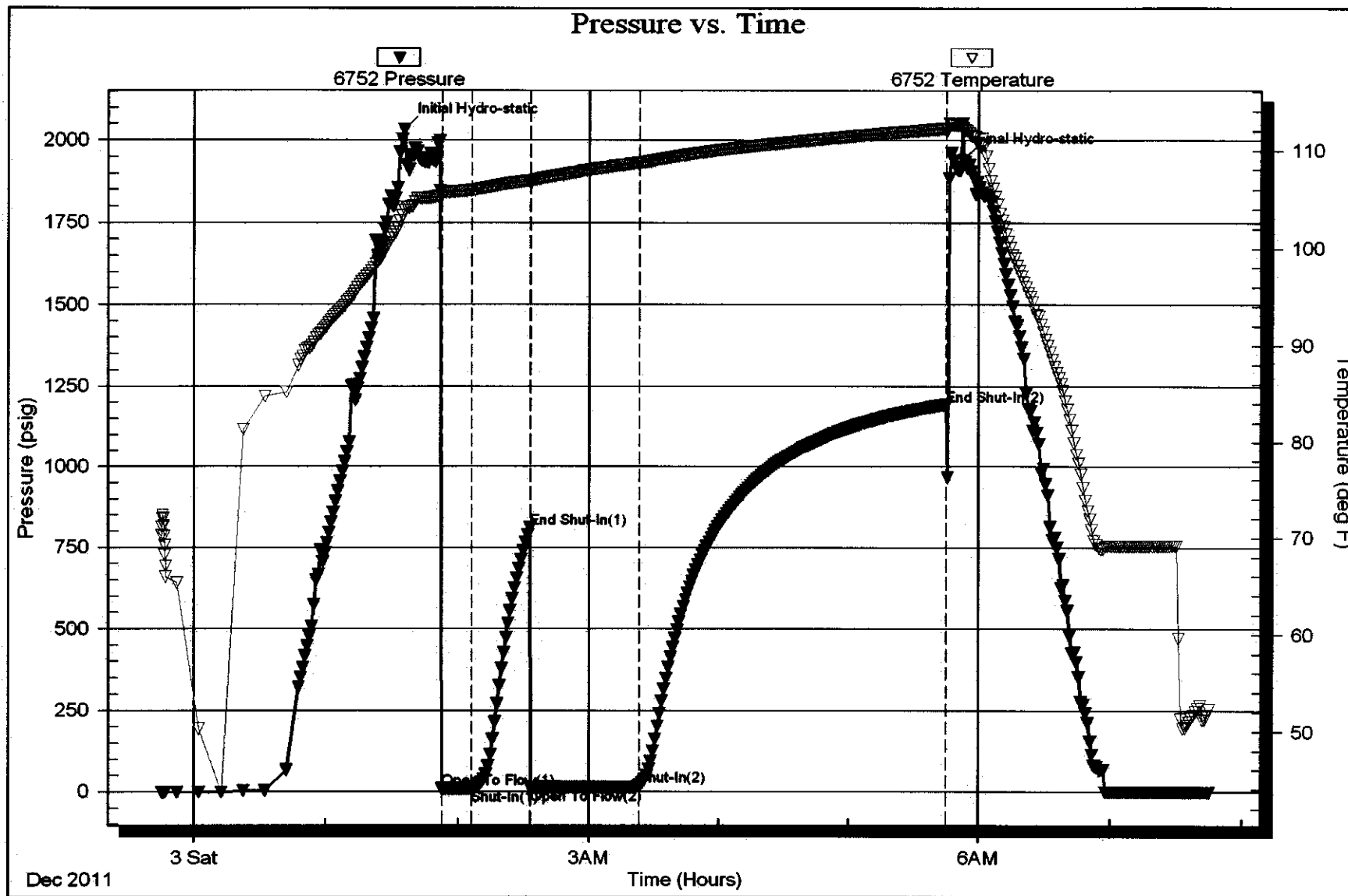
Num Gas Bombs: 0

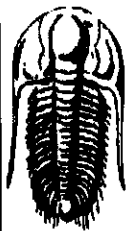
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





TRIOBITE TESTING, INC.

DRILL STEM TEST REPORT

McElvain oil & Gas Properties Inc.

4 11 23 Trego Ks

1050 17th St. Ste. 2500
Denver Co. 80265

McCall 4-1 #1

Job Ticket: 042940

DST#: 3

ATTN: Herb Denis

Test Start: 2011.12.04 @ 01:05:00

GENERAL INFORMATION:

Formation: **LKC-C**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:14:30

Time Test Ended: 09:49:30

Test Type: Conventional Straddle (Reset)

Tester: Chuck Kreuzer Jr.

Unit No: 36

Interval: **3594.00 ft (KB) To 3622.00 ft (KB) (TVD)**

Reference Elevations: 2317.00 ft (KB)

Total Depth: 3596.00 ft (KB) (TVD)

2312.00 ft (CF)

Hole Diameter: 7.80 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 6752 Inside

Press@RunDepth: 264.17 psig @ 3623.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.12.04

End Date: 2011.12.04

Last Calib.: 2011.12.04

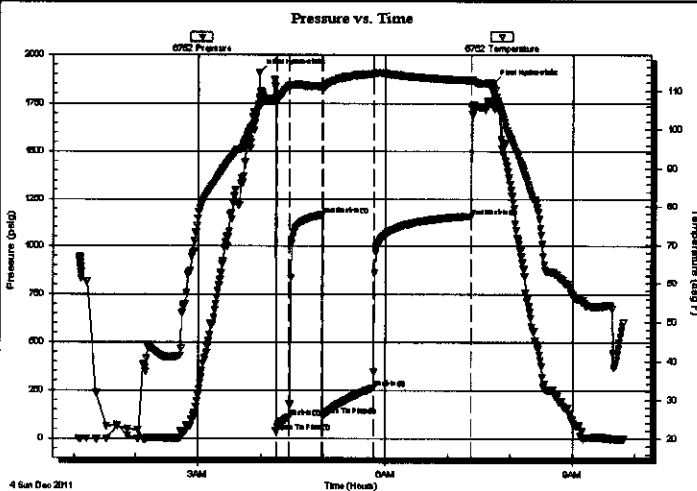
Start Time: 01:05:05

End Time: 09:49:30

Time On Btrr: 2011.12.04 @ 03:58:00

Time Off Btrr: 2011.12.04 @ 07:43:30

TEST COMMENT: IF: Weak blow, Built to 4 in. over 10 mins.
IS: No blow back over 30 mins.
FF: Fair blow built to B.O.B in 45 mins.
FS: No blow back over 90 mins.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1907.53	105.61	Initial Hydro-static
17	37.11	107.32	Open To Flow (1)
29	108.32	111.06	Shut-In(1)
61	1162.70	110.99	End Shut-In(1)
62	119.73	110.63	Open To Flow (2)
110	264.17	114.42	Shut-In(2)
204	1155.78	112.70	End Shut-In(2)
226	1851.22	111.16	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
310.00	mcw -5% m 95% w	3.22
124.00	w cm -30% 70% m	1.74
124.00	gmco -10% g 10% m 80% o	1.74
0.00	378 ft. gas in pipe	0.00

* Recovery from multiple tests

Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

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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: 55.00 sec/qt

Cushion Volume: bbl

Water Loss: 7.20 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure: psig

Salinity: 2500.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
310.00	mcw -5% m95%w	3.219
124.00	w cm -30% 70% m	1.739
124.00	gmco -10% g10% m80% o	1.739
0.00	378 ft. gas in pipe	0.000

Total Length: 558.00 ft

Total Volume: 6.697 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

