



KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

1048343

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 # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

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 #: _____

Spud Date or Date Reached TD Completion Date or
Recompletion Date Recompletion Date

API No. 15 - _____

Spot Description: _____

_____ - _____ - _____ Sec. _____ Twp. _____ S. R. _____ ☐ East ☐ West

_____ Feet from ☐ North / ☐ South Line of Section

_____ Feet from ☐ East / ☐ West Line of Section

Footages Calculated from Nearest Outside Section Corner:

☐ NE ☐ NW ☐ SE ☐ SW

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? ☐ Yes ☐ No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

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: _____ Date: _____



1048343

Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. R. _____ ☐ East ☐ West County: _____

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 <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Submitted Electronically <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(If no, Submit Copy)</i> List All E. Logs Run:	<div style="display: flex; justify-content: space-between;"> <input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample </div> <div style="display: flex; justify-content: space-between; margin-top: 10px;"> Name Top Datum </div>
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CASING RECORD <input 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

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
____ Perforate				
____ Protect Casing				
____ Plug Back TD				
____ Plug Off Zone				

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

TUBING RECORD:		Size:	Set At:	Packer At:	Liner Run: <input type="checkbox"/> Yes <input type="checkbox"/> No
Date of First, Resumed Production, SWD or ENHR.			Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____		
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	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 type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <i>(Submit ACO-5)</i> <input type="checkbox"/> Commingled <i>(Submit ACO-4)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Maralex Resources, Inc.
Well Name	McReynolds Trust 9-1
Doc ID	1048343

Tops

Name	Top	Datum
Top Anhydrite	1306	+606
Base Anhydrite	1338	+574
Topeka	2804	-892
Heebner	3014	-1102
Toronto	3037	-1125
LKC	3057	-1145
BKC	3296	-1384
Arbuckle	3434	-1522

ALLIED CEMENTING CO., LLC. 034029

Federal Tax I.D.# 20-5975804

REMIT TO P.O. BOX 31
RUSSELL, KANSAS 67665

SERVICE POINT:

Russell

DATE <u>11-30-16</u>	SEC <u>9</u>	TWP. <u>7</u>	RANGE <u>17</u>	CALLED OUT	ON LOCATION	JOB START <u>1:30 A.M.</u>	JOB FINISH <u>2:30 P.M.</u>
LEASE <u>McReynolds</u>	WELL # <u>9-1</u>	LOCATION <u>Stockton 3 E 3/4 N</u>			COUNTY <u>Rock</u>	STATE <u>Ks.</u>	
OLD OR NEW (Circle one) <u>NEW</u>			<u>Winfo</u>				

CONTRACTOR American Eagle #3

OWNER

TYPE OF JOB PTA

HOLE SIZE 7 7/8 T.D. 3456

CASING SIZE DEPTH

TUBING SIZE DEPTH

DRILL PIPE 4 1/2 DEPTH 3415

TOOL DEPTH

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT

CEMENT LEFT IN CSG.

PERFS.

DISPLACEMENT

EQUIPMENT

PUMP TRUCK CEMENTER Shane

417 HELPER Heath

BULK TRUCK

481-282 DRIVER Gary

BULK TRUCK

DRIVER

CEMENT

AMOUNT ORDERED 230 69 1/4 4.56 1 1/4 #1

COMMON 138 @ 13.50 1863.00

POZMIX 92 @ 7.55 694.60

GEL 8 @ 20.25 162.00

CHLORIDE @

ASC @

Fl. Seal 57 @ 2.45 139.65

@

@

@

@

@

@

@

HANDLING 230 @ 2.25 512.50

MILEAGE, 1061.1 mi. 805.00

TOTAL 4181.75

REMARKS:

1st 3415 25 sks.
2nd 1325' 25 sks
3rd 775' 100 sks
4th 500' 40 sks
5th 40' 10 sks

Ret Hole 30sk

SERVICE

DEPTH OF JOB

PUMP TRUCK CHARGE 991.00

EXTRA FOOTAGE @

MILEAGE 35 @ 7.00 245.00

MANIFOLD @

@

@

TOTAL 1236.00

CHARGE TO: Marlex Resources

STREET PO Box 338

CITY Ignacio STATE Co ZIP 81137

PLUG & FLOAT EQUIPMENT

Dry H/L Plug @ N-C
@
@
@
@

TOTAL N-C

SALES TAX (If Any)

TOTAL CHARGES

DISCOUNT IF PAID IN 30 DAYS

To Allied Cementing Co., LLC.

You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

PRINTED NAME

SIGNATURE Bradford Parker

Thanks

ALLIED CEMENTING CO., LLC. 033997

Federal Tax I.D.# 20-5975804

REMIT TO P.O. BOX 31
RUSSELL, KANSAS 67665

SERVICE POINT:

Russell KS

DATE <u>11-21-10</u>	SEC. <u>9</u>	TWP. <u>7</u>	RANGE <u>17</u>	CALLED OUT	ON LOCATION	JOB START <u>2:00 pm</u>	JOB FINISH <u>2:45 pm</u>
McReynolds LEASE <u>Trust</u>	WELL # <u>9-1</u>	LOCATION <u>Stockton KS 3 East to 22 Rd.</u>			COUNTY <u>Rooks</u>	STATE <u>KS</u>	
OLD OR <u>NEW</u> (Circle one)			<u>3/4 North West into.</u>				

CONTRACTOR American Eagle Rig #3

OWNER

TYPE OF JOB Surface

HOLE SIZE 12 1/4 T.D. 477'

CASING SIZE 8 5/8 23" DEPTH 477' set @ 473'

TUBING SIZE DEPTH

DRILL PIPE DEPTH

TOOL DEPTH

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT 42.5'

CEMENT LEFT IN CSG. 42.5'

PERFS.

DISPLACEMENT 27.4 BBL

EQUIPMENT

PUMP TRUCK CEMENTER John Roberts

398 HELPER Richard

BULK TRUCK

410 DRIVER Gary TWS

BULK TRUCK

DRIVER

CEMENT

AMOUNT ORDERED 250 com 3% cc 2% Gel

COMMON 250 @ 13.50 3375.00

POZMIX @

GEL 5 @ 20.25 101.25

CHLORIDE 9 @ 51.50 463.50

ASC @

@

@

@

@

@

@

@

@

HANDLING 250 @ 2.25 562.50

MILEAGE .104/sk/mile 1000.00

TOTAL 5502.25

REMARKS:

Est. Circulation Pump 10 Bbl Water

Spacer. Mixed 250 sk Cement

Displaced plug 2 7/8 Bbl H₂O

Bump plug to 650 psi.

Cement Did Circulate! Thank You

CHARGE TO: Maralex Resources

STREET

CITY STATE ZIP

SERVICE

DEPTH OF JOB

PUMP TRUCK CHARGE 991.00

EXTRA FOOTAGE @

MILEAGE 40 @ 7.00 280.00

MANIFOLD @

@

@

TOTAL 1271.00

8% PLUG & FLOAT EQUIPMENT

Rubber Plug @ 74.00

Baffle Plate @ 110.00

Limit Clamp @ 32.00

2-Centralizers @ 49.00 98.00

@

TOTAL 314.00

To Allied Cementing Co., LLC.

You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

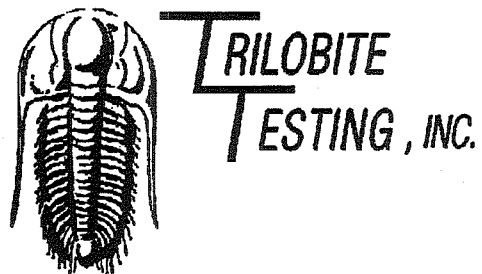
SALES TAX (If Any)

TOTAL CHARGES

DISCOUNT IF PAID IN 30 DAYS

PRINTED NAME Christi Reid

SIGNATURE Christi Reid (970)799-0788



DRILL STEM TEST REPORT

Prepared For: **Maralex Resources**

PO Box 338
Ignacio, CO 81137

ATTN: Marc Downing

9-7s-17w-Rooks,KS

McReynolds Trust 9-1

Start Date: 2010.11.26 @ 16:15:42

End Date: 2010.11.27 @ 01:37:12

Job Ticket #: 41307 DST #: 1

Trilobite Testing, Inc
PO Box 1733 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Maralex Resources

PO Box 338
Ignacio, CO 81137

ATTN: Marc Downing

McReynolds Trust 9-1

9-7s-17w-Rooks, KS

Job Ticket: 41307

DST#: 1

Test Start: 2010.11.26 @ 16:15:42

GENERAL INFORMATION:

Formation: LKC "G"

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 17:48:12

Time Test Ended: 01:37:12

Interval: 3152.00 ft (KB) To 3170.00 ft (KB) (TVD)

Total Depth: 3170.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Poor

Test Type: Conventional Bottom Hole

Tester: Dustin Rash

Unit No: 41

Reference Elevations: 1914.00 ft (KB)

1909.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8647

Inside

Press@RunDepth: 316.33 psig @ 3155.00 ft (KB)

Start Date: 2010.11.26

End Date:

2010.11.27

Start Time: 16:15:47

End Time:

01:37:12

Capacity: 8000.00 psig

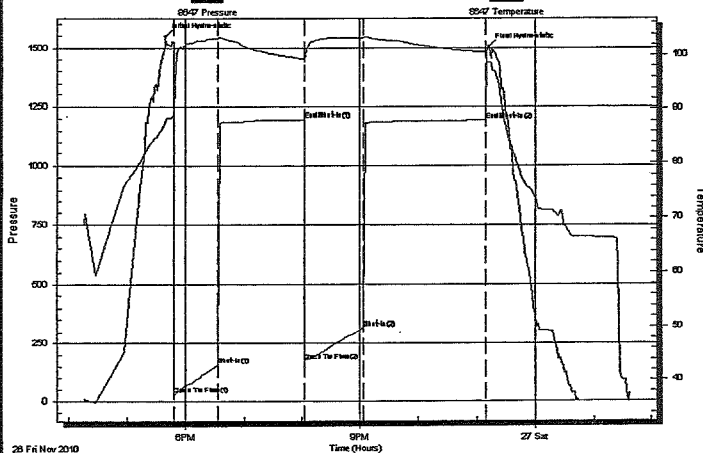
Last Calib.: 2010.11.27

Time On Btm: 2010.11.26 @ 17:39:12

Time Off Btm: 2010.11.26 @ 23:12:12

TEST COMMENT: IF-Fair building blow . BOB in 10 minutes.
ISI-No Return.
FF-Fair building blow . BOB in 15 minutes.
FSI-No Return.

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1547.61	87.76	Initial Hydro-static
9	30.09	88.41	Open To Flow (1)
54	158.55	103.06	Shut-In(1)
144	1197.50	99.33	End Shut-In(1)
144	172.07	98.89	Open To Flow (2)
205	316.33	103.21	Shut-In(2)
330	1194.68	100.53	End Shut-In(2)
333	1503.69	98.65	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
650.00	MW 95%W 5%M	9.12

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Maralex Resources

McReynolds Trust 9-1

PO Box 338
Ignacio, CO 81137

9-7s-17w-Rooks, KS

Job Ticket: 41307

DST#: 1

ATTN: Marc Downing

Test Start: 2010.11.26 @ 16:15:42

Tool Information

Drill Pipe:	Length: 3152.00 ft	Diameter: 3.80 inches	Volume: 44.21 bbl	Tool Weight:	2000.00 lb	
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer:	22000.00 lb	
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose:	5000.00 lb	
			Total Volume:	44.21 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial	36000.00 lb	
Depth to Top Packer:	3152.00 ft			Final	41000.00 lb	
Depth to Bottom Packer:	ft					
Interval between Packers:	18.00 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
Shut In Tool	5.00			3137.00	
Hydraulic tool	5.00			3142.00	
Packer	5.00			3147.00	20.00 Bottom Of Top Packer
Packer	5.00			3152.00	
Stubb	1.00			3153.00	
Perforations	2.00			3155.00	
Recorder	0.00	8647	Inside	3155.00	
Recorder	0.00	8365	Outside	3155.00	
Perforations	12.00			3167.00	
Bullnose	3.00			3170.00	18.00 Bottom Packers & Anchor
Total Tool Length:		38.00			



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Maralex Resources

McReynolds Trust 9-1

PO Box 338
Ignacio, CO 81137

9-7s-17w-Rooks, KS

Job Ticket: 41307

DST#: 1

ATTN: Marc Downing

Test Start: 2010.11.26 @ 16:15:42

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: 135000 ppm

Viscosity: 46.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.19 in³

Gas Cushion Type:

Resistivity: 0.14 ohm.m

Gas Cushion Pressure:

psig

Salinity: 1200.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
650.00	MW 95%W 5%M	9.118

Total Length: 650.00 ft

Total Volume: 9.118 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

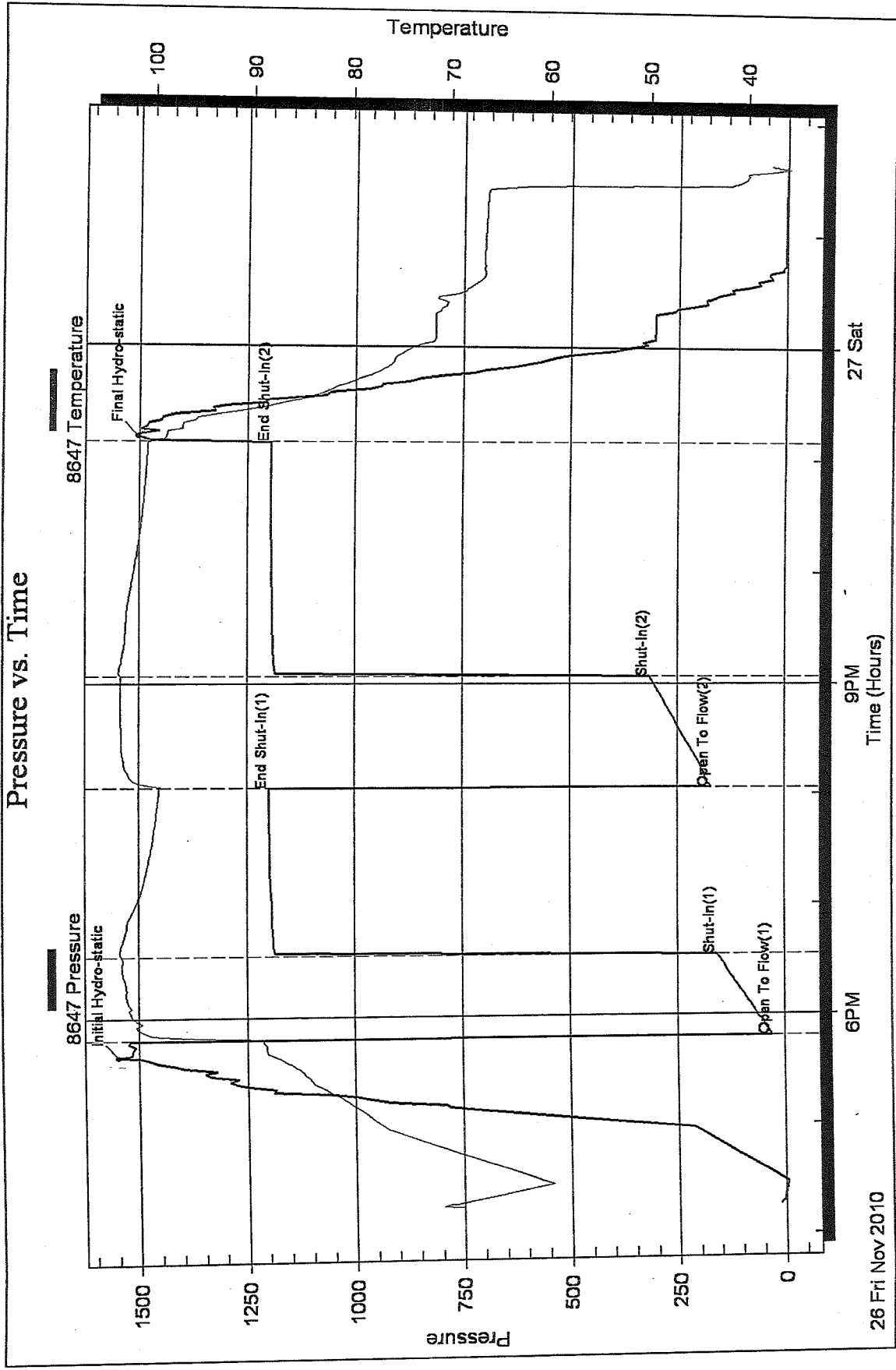
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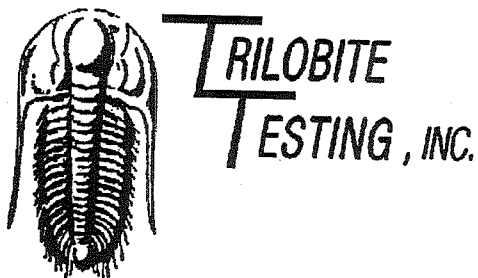
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Maralex Resources**

PO Box 338
Ignacio, CO 81137

ATTN: Marc Downing

9-7s-17w-Rooks,KS

McReynolds Trust 9-1

Start Date: 2010.11.27 @ 10:50:09

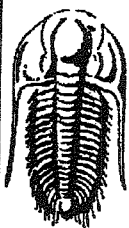
End Date: 2010.11.27 @ 16:24:09

Job Ticket #: 41308 DST #: 2

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Maralex Resources

PO Box 338
Ignacio, CO 81137

ATTN: Marc Downing

McReynolds Trust 9-1

9-7s-17w-Rooks, KS

Job Ticket: 41308

DST#: 2

Test Start: 2010.11.27 @ 10:50:09

GENERAL INFORMATION:

Formation: LKC "J"

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 12:27:39

Time Test Ended: 16:24:09

Interval: 3225.00 ft (KB) To 3250.00 ft (KB) (TVD)

Total Depth: 3250.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Poor

Test Type: Conventional Bottom Hole

Tester: Dustin Rash

Unit No: 41

Reference Elevations: 1914.00 ft (KB)

1909.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8647

Inside

Press@RunDepth: 669.40 psig @ 3228.00 ft (KB)

Start Date: 2010.11.27

End Date: 2010.11.27

Start Time: 10:50:14

End Time: 16:24:08

Capacity: 8000.00 psig

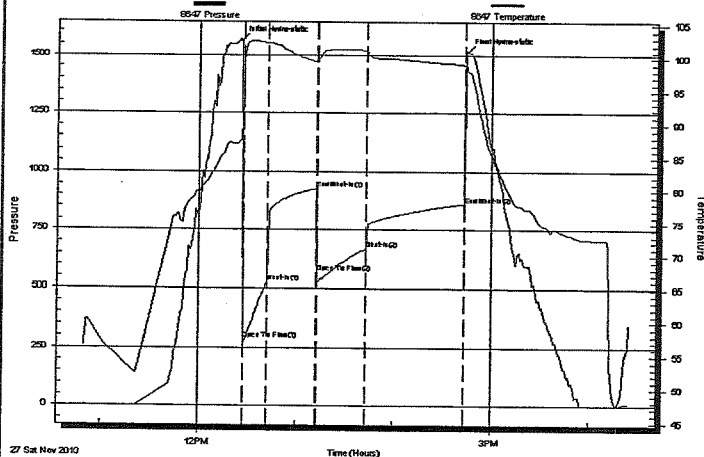
Last Calib.: 2010.11.27

Time On Btm: 2010.11.27 @ 12:25:39

Time Off Btm: 2010.11.27 @ 14:44:39

TEST COMMENT: IF-Strong building blow. BOB in 45 seconds.
ISI-Return in 3 minutes. Weak surface blow. Died in 2 minutes.
FF-Strong building blow. BOB in 2 minutes 15 seconds.
FSI-No Return.

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1560.62	87.65	Initial Hydro-static
2	285.13	99.42	Open To Flow (1)
17	522.17	102.42	Shut-In (1)
47	927.69	99.54	End Shut-In (1)
47	568.19	99.50	Open To Flow (2)
78	669.40	101.50	Shut-In (2)
138	861.64	99.09	End Shut-In (2)
139	1516.54	98.73	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1054.00	MW 90%W 10%M	14.78
340.00	50%Water/50%Mud	4.77

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Maralex Resources

McReynolds Trust 9-1

PO Box 338
Ignacio, CO 81137

9-7s-17w-Rooks, KS

Job Ticket: 41308

DST#: 2

ATTN: Marc Downing

Test Start: 2010.11.27 @ 10:50:09

Tool Information

Drill Pipe:	Length: 3215.00 ft	Diameter: 3.80 inches	Volume: 45.10 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 22000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 5000.00 lb
		Total Volume: 45.10 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial 36000.00 lb
Depth to Top Packer:	3225.00 ft			Final 42000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	25.00 ft			
Tool Length:	45.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3210.00	
Hydraulic tool	5.00			3215.00	
Packer	5.00			3220.00	20.00 Bottom Of Top Packer
Packer	5.00			3225.00	
Stubb	1.00			3226.00	
Perforations	2.00			3228.00	
Recorder	0.00	8647	Inside	3228.00	
Recorder	0.00	8365	Outside	3228.00	
Perforations	19.00			3247.00	
Bullnose	3.00			3250.00	25.00 Bottom Packers & Anchor
Total Tool Length:	45.00				



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Maralex Resources

McReynolds Trust 9-1

PO Box 338
Ignacio, CO 81137

9-7s-17w-Rooks, KS

Job Ticket: 41308

DST#: 2

ATTN: Marc Dow ning

Test Start: 2010.11.27 @ 10:50:09

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:

95000 ppm

Viscosity: 52.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.39 in³

Gas Cushion Type:

Resistivity: 0.10 ohm.m

Gas Cushion Pressure:

psig

Salinity: 1500.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1054.00	MW 90%W 10%M	14.785
340.00	50%Water/50%Mud	4.769

Total Length: 1394.00 ft

Total Volume: 19.554 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8647

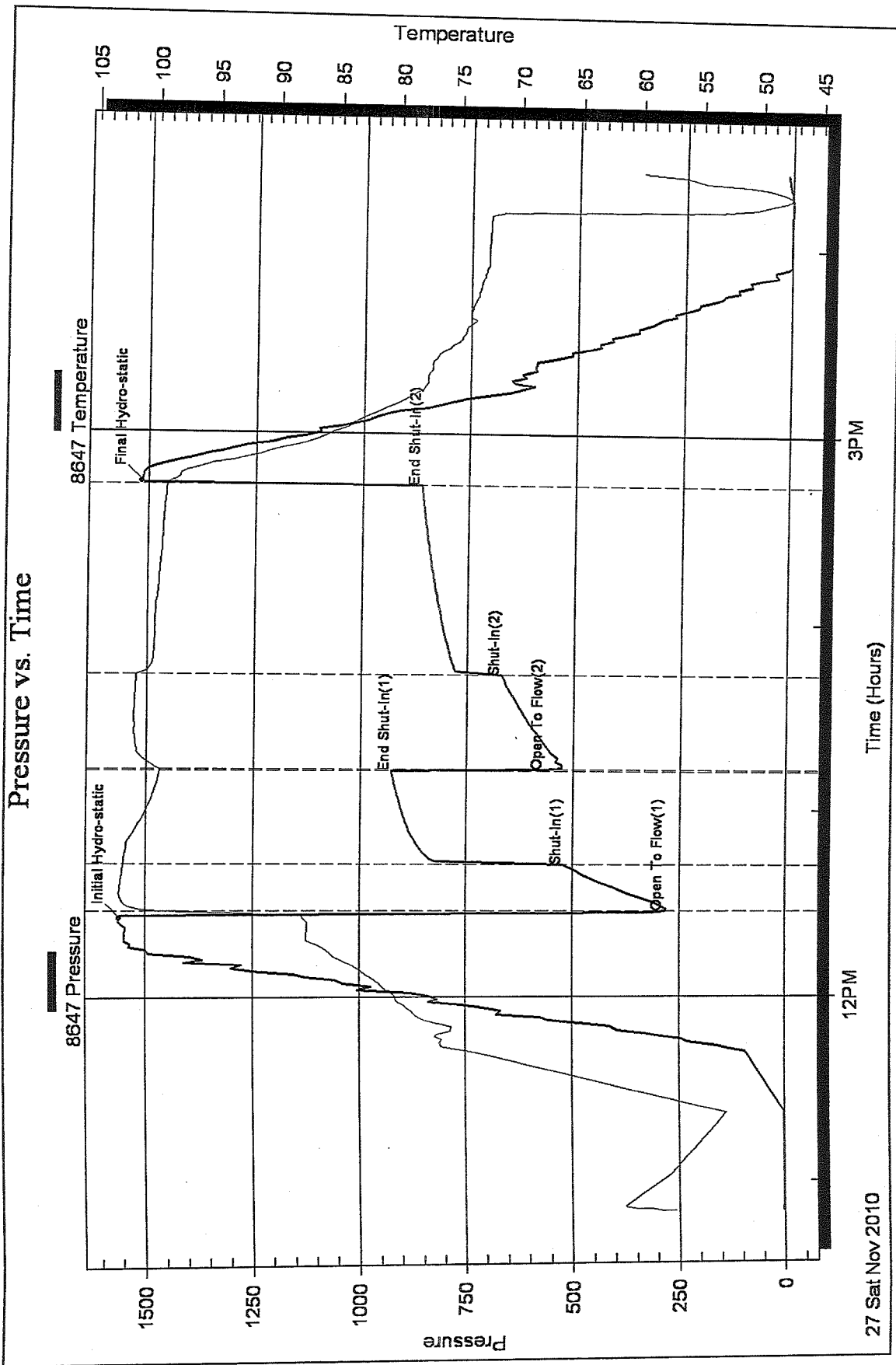
Inside

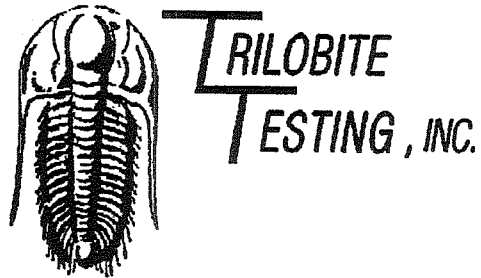
Maralex Resources

9-7s-17w-Rooks,KS

DST Test Number: 2

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Maralex Resources**

PO Box 338
Ignacio, CO 81137

ATTN: Marc Downing

9-7s-17w-Rooks,KS

McReynolds Trust 9-1

Start Date: 2010.11.27 @ 23:24:15

End Date: 2010.11.28 @ 07:18:45

Job Ticket #: 41309 DST #: 3

Trilobite Testing, Inc
PO Box 1733 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Maralex Resources

PO Box 338
Ignacio, CO 81137

ATTN: Marc Downing

McReynolds Trust 9-1

9-7s-17w-Rooks, KS

Job Ticket: 41309

DST#: 3

Test Start: 2010.11.27 @ 23:24:15

GENERAL INFORMATION:

Formation: LKC "K"

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 02:06:45

Time Test Ended: 07:18:45

Test Type: Conventional Bottom Hole

Tester: Dustin Rash

Unit No: 41

Interval: 3246.00 ft (KB) To 3278.00 ft (KB) (TVD)

Total Depth: 3278.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Poor

Reference Elevations: 1914.00 ft (KB)

1909.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8647

Inside

Press@RunDepth: 413.29 psig @ 3249.00 ft (KB)

Start Date: 2010.11.27

End Date: 2010.11.28

Start Time: 23:24:20

End Time: 07:18:44

Capacity: 8000.00 psig

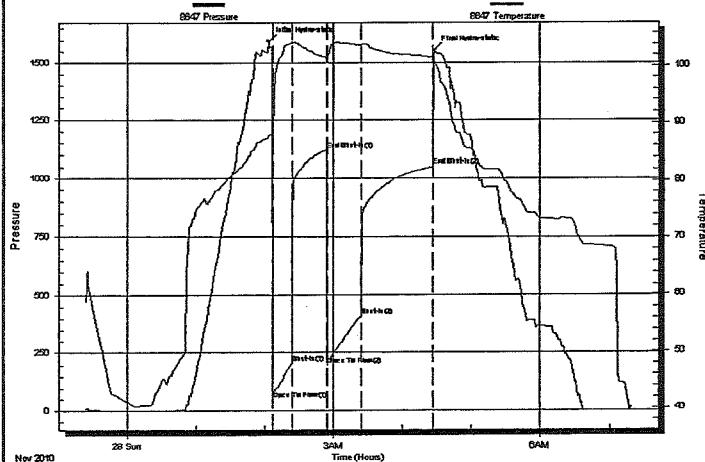
Last Calib.: 2010.11.28

Time On Btm: 2010.11.28 @ 02:03:15

Time Off Btm: 2010.11.28 @ 04:28:45

TEST COMMENT: IF-Strong building blow . BOB in 2 minutes.
ISI-Weak surface return @ 3 minutes. Died after 2&1/2 minutes.
FF-Fair building blow . BOB in 5 minutes.
FSI-No Return.

Pressure vs. Time



PRESSURE SUMMARY

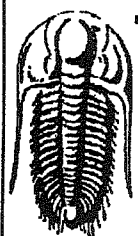
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1594.64	87.66	Initial Hydro-static
4	49.20	87.59	Open To Flow (1)
20	204.95	104.14	Shut-In(1)
50	1122.89	101.53	End Shut-In(1)
51	198.87	101.46	Open To Flow (2)
81	413.29	103.72	Shut-In(2)
144	1053.51	101.54	End Shut-In(2)
146	1555.53	100.42	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
614.00	MW 95%W 5%M	8.61
196.00	MW 70%W 30%M	2.75

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Maralex Resources

McReynolds Trust 9-1

PO Box 338
Ignacio, CO 81137

9-7s-17w-Rooks, KS

Job Ticket: 41309

DST#: 3

ATTN: Marc Downing

Test Start: 2010.11.27 @ 23:24:15

Tool Information

Drill Pipe:	Length: 3246.00 ft	Diameter: 3.80 inches	Volume: 45.53 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer:	22000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose:	5000.00 lb
			Total Volume: 45.53 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial	36000.00 lb
Depth to Top Packer:	3246.00 ft			Final	40000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	32.00 ft				
Tool Length:	52.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3231.00	
Hydraulic tool	5.00			3236.00	
Packer	5.00			3241.00	20.00 Bottom Of Top Packer
Packer	5.00			3246.00	
Stubb	1.00			3247.00	
Perforations	2.00			3249.00	
Recorder	0.00	8647	Inside	3249.00	
Recorder	0.00	8365	Outside	3249.00	
Perforations	26.00			3275.00	
Bullnose	3.00			3278.00	32.00 Bottom Packers & Anchor
Total Tool Length:	52.00				



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Maralex Resources

McReynolds Trust 9-1

PO Box 338
Ignacio, CO 81137

9-7s-17w-Rooks, KS

Job Ticket: 41309

DST#: 3

ATTN: Marc Downing

Test Start: 2010.11.27 @ 23:24:15

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 52.00 sec/qt

Water Loss: 7.39 in³

Resistivity: 0.15 ohm.m

Salinity: 1500.00 ppm

Filter Cake: inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API: deg API

Water Salinity: 105000 ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
614.00	MW 95%W 5%M	8.613
196.00	MW 70%W 30%M	2.749

Total Length: 810.00 ft

Total Volume: 11.362 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

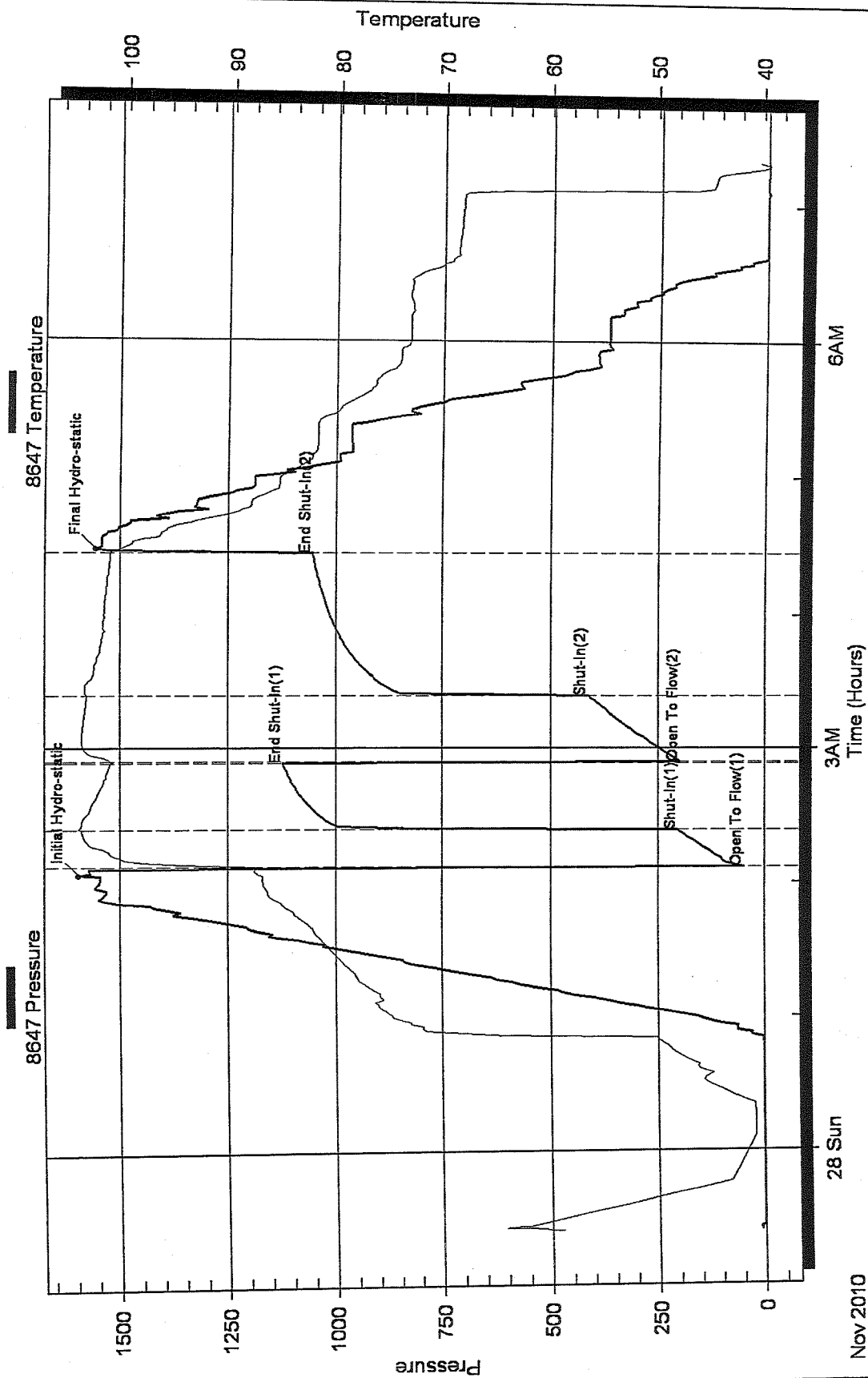
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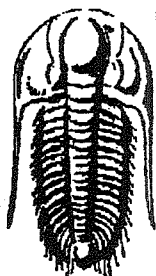
Inside Maralex Resources

9-7s-17w-Rooks, KS

DST Test Number: 3

Pressure vs. Time





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Maralex Resources**

PO Box 338
Ignacio, CO 81137

ATTN: Marc Downing

9-7s-17w-Rooks,KS

McReynolds Trust 9-1

Start Date: 2010.11.28 @ 14:48:50

End Date: 2010.11.28 @ 22:06:20

Job Ticket #: 41310 DST #: 4

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

Maralex Resources

PO Box 338
Ignacio, CO 81137

ATTN: Marc Downing

McReynolds Trust 9-1

9-7s-17w-Rooks, KS

Job Ticket: 41310

DST#: 4

Test Start: 2010.11.28 @ 14:48:50

GENERAL INFORMATION:

Formation: LKC "L"

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 17:06:50

Time Test Ended: 22:06:20

Interval: 3267.00 ft (KB) To 3298.00 ft (KB) (TVD)

Total Depth: 3298.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Poor

Test Type: Conventional Bottom Hole

Tester: Dustin Rash

Unit No: 41

Reference Elevations: 1914.00 ft (KB)

1909.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8647

Inside

Press@RunDepth: 290.45 psig @ 3270.00 ft (KB)

Start Date: 2010.11.28

End Date:

2010.11.28

Start Time: 14:48:55

End Time:

22:06:19

Capacity: 8000.00 psig

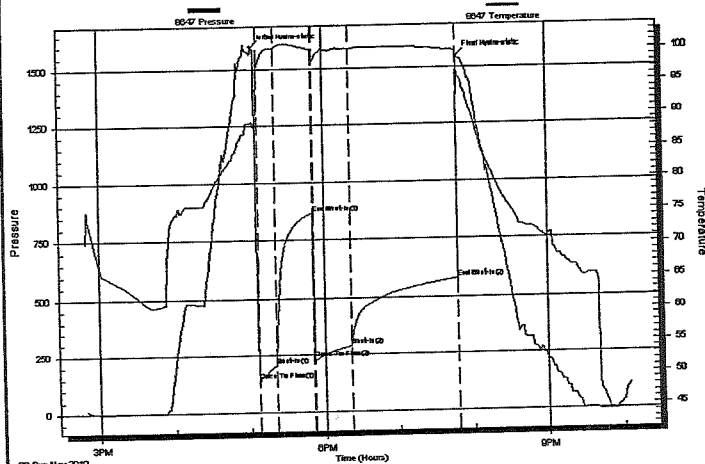
Last Calib.: 2010.11.28

Time On Btm: 2010.11.28 @ 17:02:50

Time Off Btm: 2010.11.28 @ 19:48:20

TEST COMMENT: IF-Strong building blow. BOB in 30 seconds.
ISI-Return after 3 minutes. Built to 1 3/4 inches.
FF-Strong building blow. BOB in 2 minutes.
FSI-Return after 2 minutes. Built to 5 inches.

Pressure vs. Time



PRESSURE SUMMARY

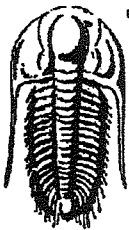
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1597.04	88.90	Initial Hydro-static
4	144.60	97.66	Open To Flow (1)
18	205.64	100.47	Shut-In(1)
48	863.22	100.23	End Shut-In(1)
49	234.09	98.96	Open To Flow (2)
79	290.45	100.29	Shut-In(2)
165	580.23	99.89	End Shut-In(2)
166	1548.33	97.04	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
186.00	GMCO 35%O 35%G 30%M	2.61
620.00	GO 70%O 30%G	8.70
0.00	186' GIP	0.00

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Maralex Resources

McReynolds Trust 9-1

PO Box 338
Ignacio, CO 81137

9-7s-17w-Rooks, KS

Job Ticket: 41310

DST#: 4

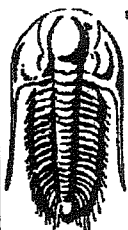
ATTN: Marc Downing

Test Start: 2010.11.28 @ 14:48:50

Tool Information

Drill Pipe:	Length: 3276.00 ft	Diameter: 3.80 inches	Volume: 45.95 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 22000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 10000.00 lb
		Total Volume: 45.95 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	29.00 ft			String Weight: Initial 36000.00 lb
Depth to Top Packer:	3267.00 ft			Final 41000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	31.00 ft			
Tool Length:	51.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:				

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3252.00	
Hydraulic tool	5.00			3257.00	
Packer	5.00			3262.00	20.00 Bottom Of Top Packer
Packer	5.00			3267.00	
Stubb	1.00			3268.00	
Perforations	2.00			3270.00	
Recorder	0.00	8647	Inside	3270.00	
Recorder	0.00	8365	Outside	3270.00	
Perforations	25.00			3295.00	
Bullnose	3.00			3298.00	31.00 Bottom Packers & Anchor
Total Tool Length:	51.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Maralex Resources

McReynolds Trust 9-1

PO Box 338
Ignacio, CO 81137

9-7s-17w-Rooks, KS

Job Ticket: 41310

DST#: 4

ATTN: Marc Downing

Test Start: 2010.11.28 @ 14:48:50

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 52.00 sec/qt

Water Loss: 7.99 in³

Resistivity: ohm.m

Salinity: 2600.00 ppm

Filter Cake: inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

ft

bbl

psig

Oil API:

Water Salinity:

27 deg API

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
186.00	GMCO 35%O 35%G 30%M	2.609
620.00	GO 70%O 30%G	8.697
0.00	186' GIP	0.000

Total Length: 806.00 ft

Total Volume: 11.306 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8647

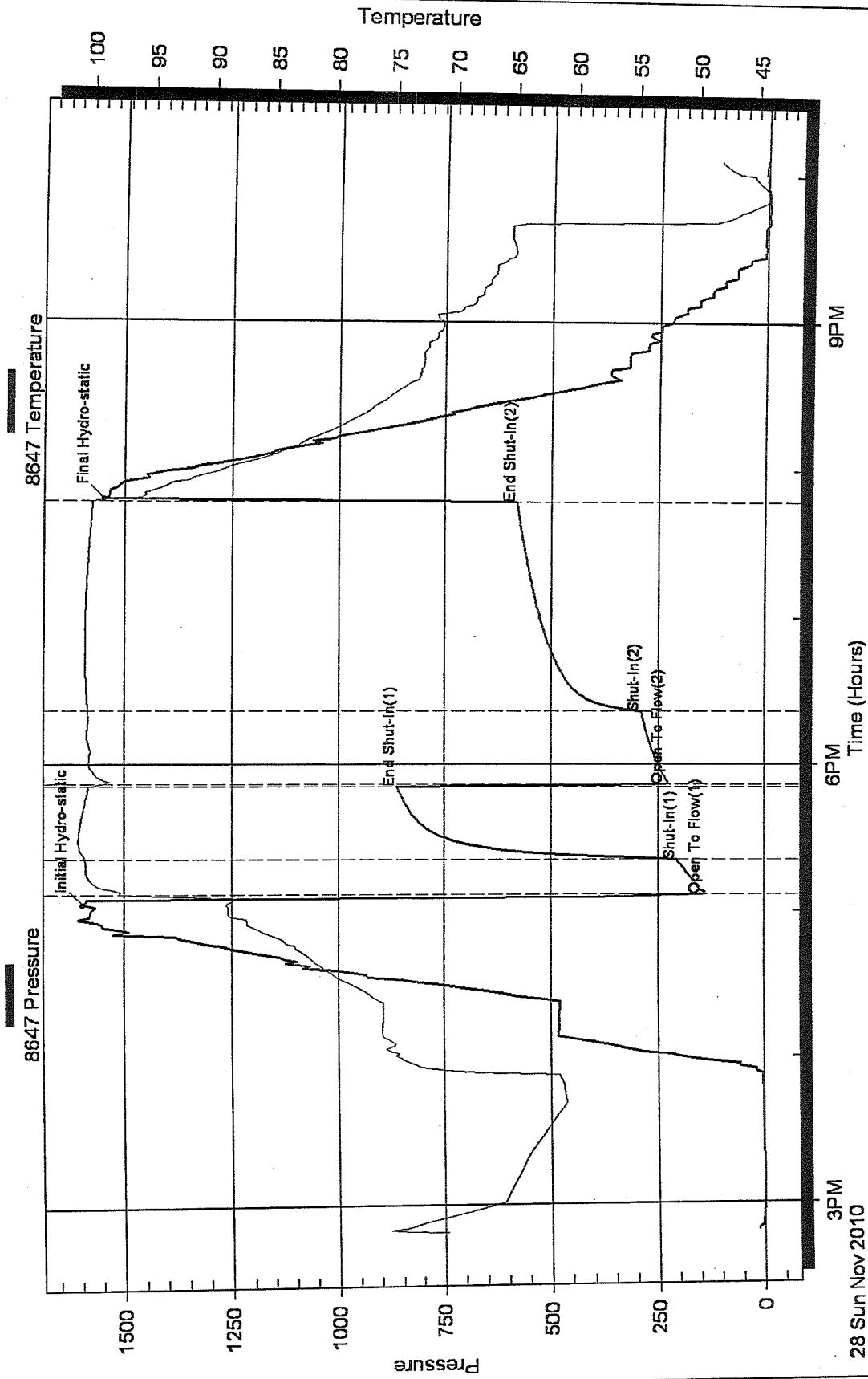
Inside

Maralex Resources

9-7s-17w - Rooks, KS

DST Test Number: 4

Pressure vs. Time



Trilobite Testing, Inc

Ref. No: 41310

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