



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1177089
OIL & GAS CONSERVATION DIVISION

Form ACO-1
August 2013

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
- Plug Back Conv. to GSW Conv. to Producer
- Commingled Permit #: _____
- Dual Completion Permit #: _____
- SWD Permit #: _____
- ENHR Permit #: _____
- GSW Permit #: _____

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

GPS Location: Lat: _____, Long: _____
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical 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

- Confidentiality Requested
Date: _____
- Confidential Release Date: _____
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT I II III Approved by: _____ Date: _____

1177089

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

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

INSTRUCTIONS: Show important tops 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.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken <i>(Attach Additional Sheets)</i>	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top	Datum
Cores Taken	<input type="checkbox"/> Yes <input type="checkbox"/> No			
Electric Log Run	<input type="checkbox"/> Yes <input type="checkbox"/> No			
List All E. Logs Run:				

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
<input type="checkbox"/> Perforate				
<input type="checkbox"/> Protect Casing				
<input type="checkbox"/> Plug Back TD				
<input type="checkbox"/> Plug Off Zone				

Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*

Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? Yes No *(If No, fill out Page Three of the ACO-1)*

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: Yes No

Date of First, Resumed Production, SWD or ENHR: _____ Producing Method: Flowing Pumping Gas Lift Other *(Explain)* _____

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. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____ <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: _____ _____
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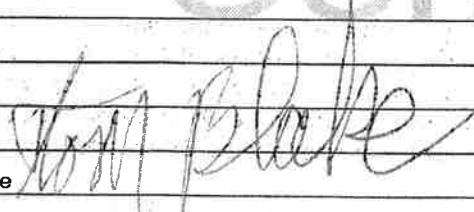
QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

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

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

No. 7580

Date	Sec.	Twp.	Range	County	State	On Location	Finish
12-18-13	4	13	14	Russell	Ks		12:15 AM
Lease Big Canyon Ranch				Location Hwy 40 + Van Hooten, 2N to Shickline R			
Contractor Royal			Well No. 1	Owner W to 183 rd, W to Reservoir Rd, W + follow			
Type Job Surface			To Quality Oilwell Cementing, Inc. 2.1 miles E into N to Rig				
Hole Size 12 1/4"			T.D. 221'	Charge Prospect oil + gas			
Csg. 8 5/8"			Depth 221'	Street			
Tbg. Size			Depth	City			
Tool			Depth	State			
Cement Left in Csg. 15'			Shoe Joint 15'	The above was done to satisfaction and supervision of owner agent or contractor.			
Meas Line			Displace 13 BLS	Cement Amount Ordered 160 sx Common 3 1/2 CL 2 1/2 CL			
EQUIPMENT							
Pumptrk 15 No.			Cementer Nick	Common			
Bulktrk 3 No.			Helper Nick	Poz. Mix			
Bulktrk p.u. No.			Driver Jason	Gel.			
			Driver Wey	Calcium			
			Driver Rick	Hulls			
JOB SERVICES & REMARKS							
Remarks: Cement did Circulate.			Salt				
Rat Hole			Flowseal				
Mouse Hole			Kol-Seal				
Centralizers			Mud CLR 48				
Baskets			CFL-117 or CD110 CAF 38				
D/V or Port Collar			Sand				
			Handling				
			Mileage				
FLOAT EQUIPMENT							
			Guide Shoe				
			Centralizer				
			Baskets				
			AFU Inserts				
			Float Shoe				
			Latch Down				
			Pumptrk Charge				
			Mileage				
X Signature 			Tax				
			Discount				
			Total Charge				

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

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

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

No. 7676

Date	12-31-13	Sec.	4	Twp.	13	Range	14	County	Russell	State	KS	On Location		Finish	2:30pm
Location															

Lease	Big Canyons Ranch	Well No.	1	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.
Contractor	Royal 2				
Type Job	Plug				
Hole Size		T.D.		Charge To	Quest Energy
Csg.		Depth		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.		Shoe Joint		Cement Amount Ordered 270 SX 60/40 4% gel 1/4" Flow	

Meas Line		Displace		
EQUIPMENT				Common
Pumptrk	5	No.	Cementer	Poz. Mix
			Helper Lonnie W.	
Bulktrk	19	No.	Driver	Gel.
			Driver Doug	
Bulktrk	P4	No.	Driver	Calcium
			Driver Travis	

JOB SERVICES & REMARKS				Hulls
Remarks:				Salt
Rat Hole				Flowseal
Mouse Hole				Kol-Seal
Centralizers				Mud CLR 48
Baskets				CFL-117 or CD110 CAF 38
D/V or Port Collar				Sand
50 SX 3290				Handling
25 SX 840				Mileage

FLOAT EQUIPMENT			
100 SX 410			
40 SX 270			Guide Shoe
10 SX 40 with plug			Centralizer
30 SX Rat			Baskets
15 SX Mouse			AFU Inserts
			Float Shoe
			Latch Down

				Pumptrk Charge
				Mileage
				Tax
				Discount
				Total Charge

X Signature _____



DRILL STEM TEST REPORT

Prepared For: **Prospect Oil & Gas**

PO Box 837
Russell KS 67665+0837

ATTN: Brad Hutchinson

Big Canyon Ranch #1

4-13s-14w Russell,KS

Start Date: 2013.12.27 @ 18:36:01

End Date: 2013.12.28 @ 00:50:30

Job Ticket #: 54878 DST #: 1

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

Printed: 2014.01.02 @ 16:19:56



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Prospect Oil & Gas
PO Box 837
Russell KS 67665+0837
ATTN: Brad Hutchinson

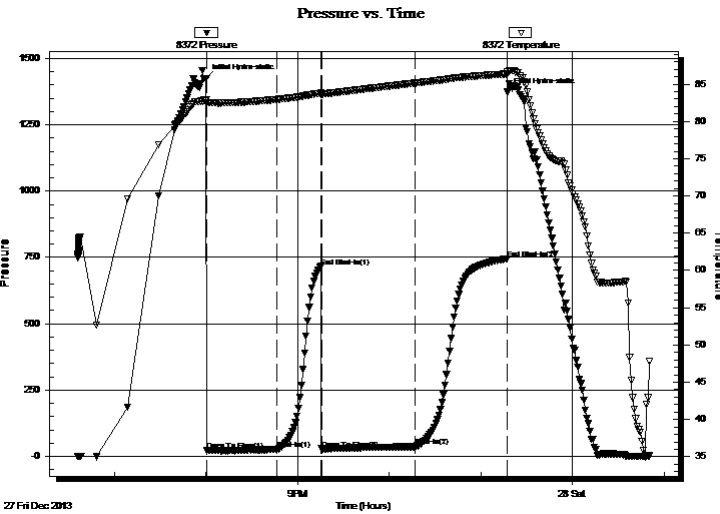
4-13s-14w Russell,KS
Big Canyon Ranch #1
Job Ticket: 54878 **DST#: 1**
Test Start: 2013.12.27 @ 18:36:01

GENERAL INFORMATION:

Formation: **LKC "A"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 20:00:30
Time Test Ended: 00:50:30
Interval: **2938.00 ft (KB) To 2976.00 ft (KB) (TVD)**
Total Depth: 2976.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Test Type: Conventional Bottom Hole (Initial)
Tester: Andy Carreira
Unit No: 68
Reference Elevations: 1789.00 ft (KB)
1782.00 ft (CF)
KB to GR/CF: 7.00 ft

Serial #: 8372 Inside
Press@RunDepth: 36.51 psig @ 2939.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2013.12.27 End Date: 2013.12.28 Last Calib.: 2013.12.28
Start Time: 18:36:01 End Time: 00:50:30 Time On Btm: 2013.12.27 @ 20:00:00
Time Off Btm: 2013.12.27 @ 23:17:30

TEST COMMENT: IF:(45min) 1" blow in 6 min. 3" in 17 min. Built to 4"
IS:(30min) No Return
FF:(60min) 1" blow in 7 min. 3" in 34 min. 4" in 56 min.
FS:(60min) No Return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1423.79	82.90	Initial Hydro-static
1	20.96	82.34	Open To Flow (1)
47	26.74	82.96	Shut-In(1)
75	716.06	83.79	End Shut-In(1)
76	26.26	83.67	Open To Flow (2)
137	36.51	85.15	Shut-In(2)
197	745.43	86.37	End Shut-In(2)
198	1373.33	86.67	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
40.00	OSM	0.56
0.00	GIP= 30ft	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Prospect Oil & Gas
PO Box 837
Russell KS 67665+0837
ATTN: Brad Hutchinson

4-13s-14w Russell,KS
Big Canyon Ranch #1
Job Ticket: 54878 **DST#: 1**
Test Start: 2013.12.27 @ 18:36:01

Tool Information

Drill Pipe:	Length: 2945.00 ft	Diameter: 3.80 inches	Volume: 41.31 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: 24000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 52000.00 lb
			<u>Total Volume: 41.31 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	27.00 ft			String Weight: Initial 44000.00 lb
Depth to Top Packer:	2938.00 ft			Final 45000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	38.00 ft			
Tool Length:	58.00 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			2919.00	
Shut In Tool	5.00			2924.00	
Hydraulic tool	5.00			2929.00	
Packer	5.00			2934.00	20.00 Bottom Of Top Packer
Packer	4.00			2938.00	
Stubb	1.00			2939.00	
Recorder	0.00	8372	Inside	2939.00	
Recorder	0.00	8321	Outside	2939.00	
Perforations	34.00			2973.00	
Bullnose	3.00			2976.00	38.00 Bottom Packers & Anchor
Total Tool Length:	58.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Prospect Oil & Gas
PO Box 837
Russell KS 67665+0837
ATTN: Brad Hutchinson

4-13s-14w Russell,KS
Big Canyon Ranch #1
Job Ticket: 54878 **DST#: 1**
Test Start: 2013.12.27 @ 18:36:01

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: 53.00 sec/qt	Cushion Volume: bbl		
Water Loss: 6.36 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 1500.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
40.00	OSM	0.561
0.00	GIP= 30ft	0.000

Total Length: 40.00 ft Total Volume: 0.561 bbl
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

Serial #: 8372

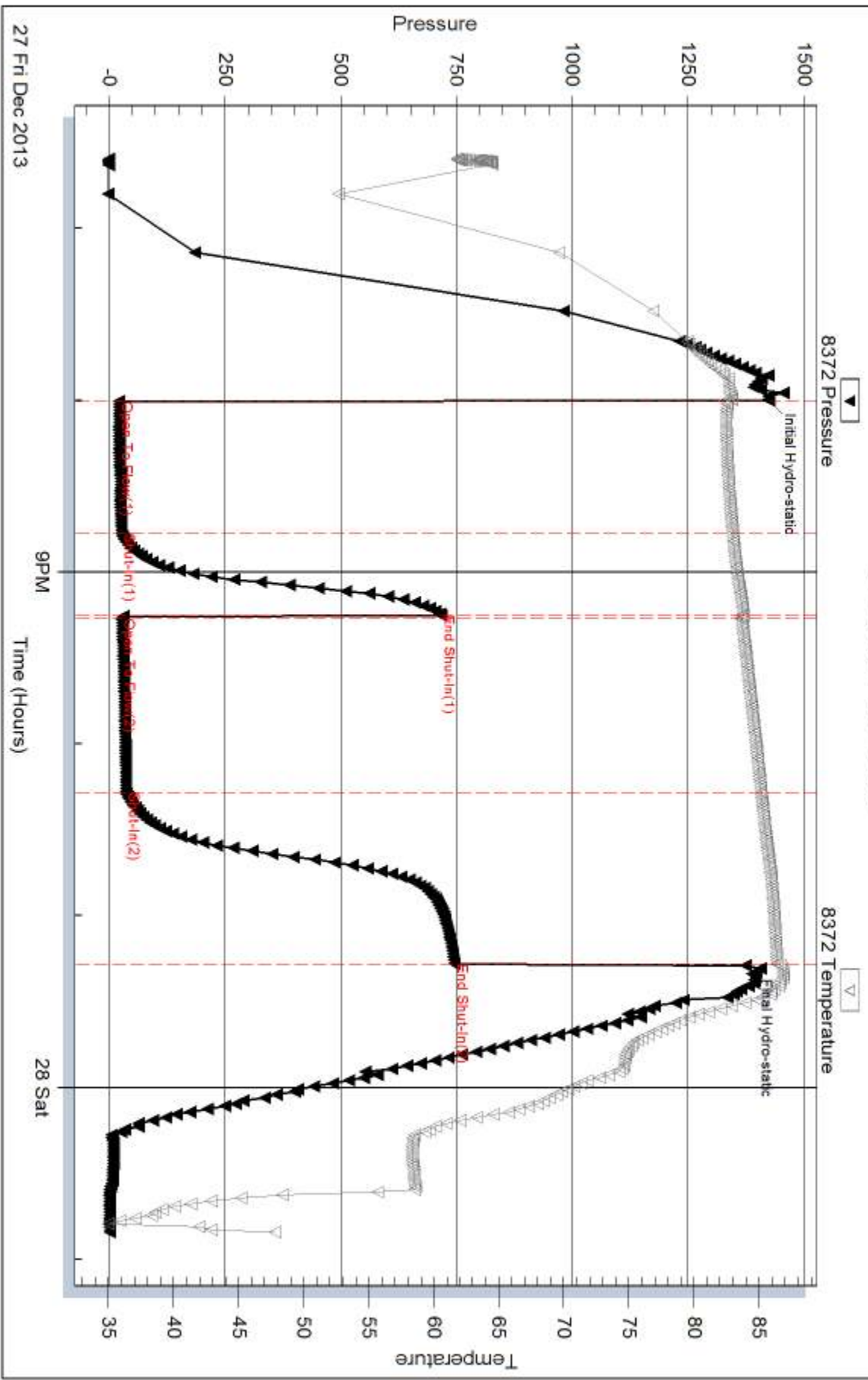
Inside

Prospect Oil & Gas

Big Canyon Ranch #1

DST Test Number: 1

Pressure vs. Time



Trilobite Testing, Inc

Ref. No: 54878

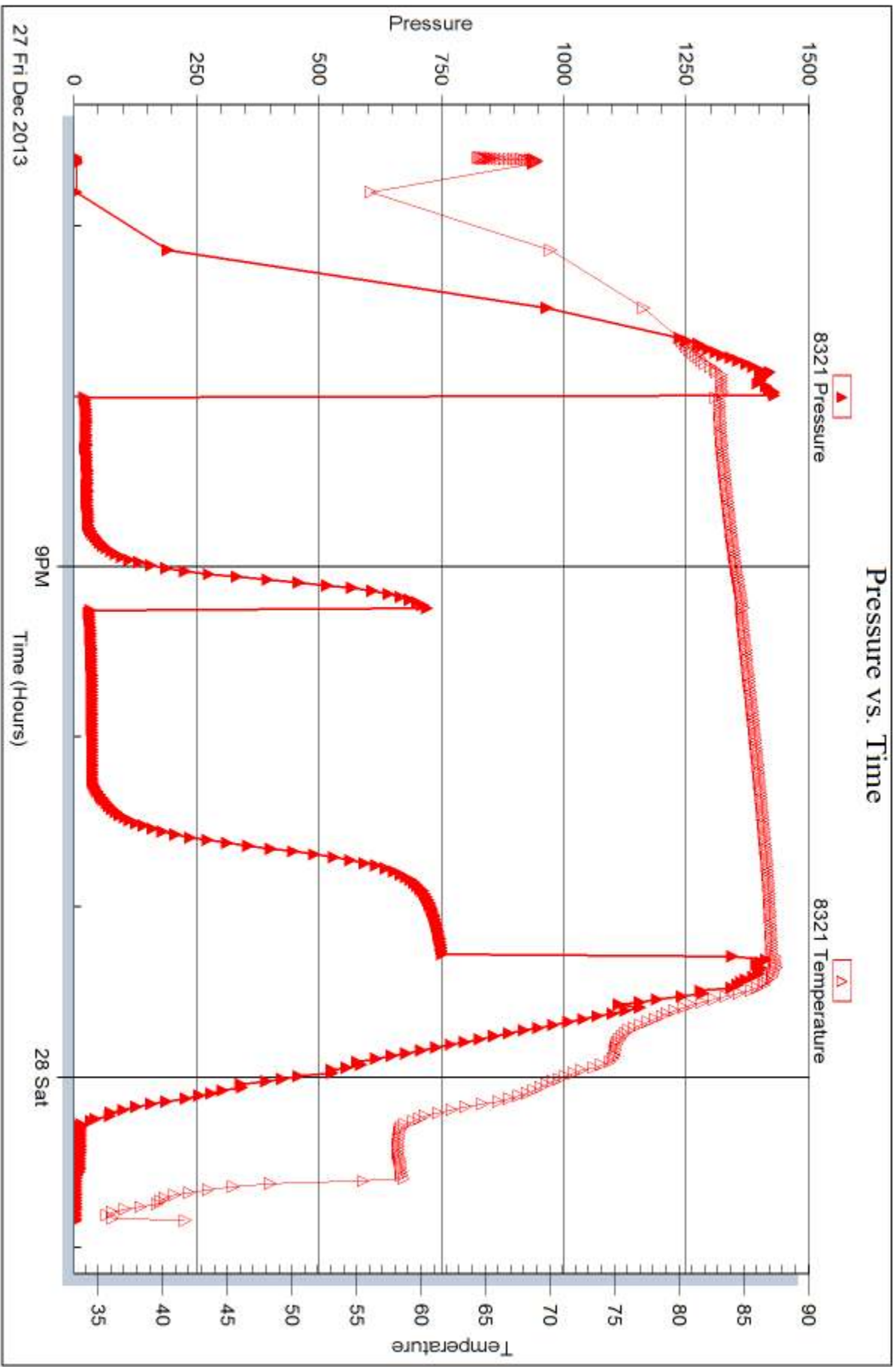
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Serial #: 8321

Outside Prospect Oil & Gas

Big Canyon Ranch #1

DST Test Number: 1





DRILL STEM TEST REPORT

Prepared For: **Prospect Oil & Gas**

PO Box 837
Russell KS 67665+0837

ATTN: Brad Hutchinson

Big Canyon Ranch #1

4-13s-14w Russell,KS

Start Date: 2013.12.28 @ 08:02:01

End Date: 2013.12.28 @ 15:04:00

Job Ticket #: 54879 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2014.01.02 @ 16:19:26



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Prospect Oil & Gas
PO Box 837
Russell KS 67665+0837
ATTN: Brad Hutchinson

4-13s-14w Russell,KS
Big Canyon Ranch #1
Job Ticket: 54879 **DST#: 2**
Test Start: 2013.12.28 @ 08:02:01

GENERAL INFORMATION:

Formation: **LKC "B&C"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 09:25:00
Time Test Ended: 15:04:00
Interval: **2970.00 ft (KB) To 3025.00 ft (KB) (TVD)**
Total Depth: 3025.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Test Type: Conventional Bottom Hole (Reset)
Tester: Andy Carreira
Unit No: 68
Reference Elevations: 1789.00 ft (KB)
1782.00 ft (CF)
KB to GR/CF: 7.00 ft

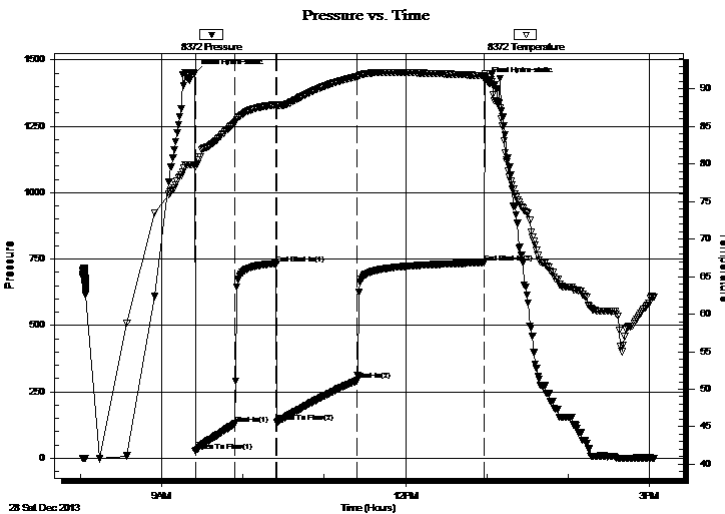
Serial #: 8372

Inside

Press@RunDepth: 292.43 psig @ 2977.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2013.12.28 End Date: 2013.12.28 Last Calib.: 2013.12.28
Start Time: 08:02:01 End Time: 15:04:00 Time On Btm: 2013.12.28 @ 09:24:30
Time Off Btm: 2013.12.28 @ 12:58:30

TEST COMMENT: IF:(30min) BOB in 7 min.
IS:(30min) Return blow 1 min. after bleed off. Built to 3" in 28 min.
FF:(60min) BOB in 6 min.
FS:(90min) Return blow 30 sec. after bleed off. 3" in 20 min. 5" in 90 min.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1448.79	79.93	Initial Hydro-static
1	26.64	79.58	Open To Flow (1)
30	129.36	85.49	Shut-In(1)
60	732.72	87.88	End Shut-In(1)
61	136.35	87.72	Open To Flow (2)
120	292.43	91.61	Shut-In(2)
214	735.94	91.73	End Shut-In(2)
214	1419.97	92.01	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
464.00	MW	6.51
63.00	GOCMW g=5% o=5% m=45% w=55%	0.88
63.00	GOCWM g=10% o=10% w=35% m=45%	0.88
10.00	GO g=10% o=90%	0.14
0.00	GIP = 280 ft	0.00

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Prospect Oil & Gas
PO Box 837
Russell KS 67665+0837
ATTN: Brad Hutchinson

4-13s-14w Russell,KS
Big Canyon Ranch #1
Job Ticket: 54879 **DST#: 2**
Test Start: 2013.12.28 @ 08:02:01

Tool Information

Drill Pipe:	Length: 2976.00 ft	Diameter: 3.80 inches	Volume: 41.75 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: 24000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 41.75 bbl</u>	Tool Chased 3.00 ft
Drill Pipe Above KB:	26.00 ft			String Weight: Initial 44000.00 lb
Depth to Top Packer:	2970.00 ft			Final 47000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	55.00 ft			
Tool Length:	75.00 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			2951.00	
Shut In Tool	5.00			2956.00	
Hydraulic tool	5.00			2961.00	
Packer	5.00			2966.00	20.00 Bottom Of Top Packer
Packer	4.00			2970.00	
Stubb	1.00			2971.00	
Perforations	5.00			2976.00	
Change Over Sub	1.00			2977.00	
Recorder	0.00	8372	Inside	2977.00	
Recorder	0.00	8321	Outside	2977.00	
Drill Pipe	31.00			3008.00	
Change Over Sub	1.00			3009.00	
Perforations	13.00			3022.00	
Bullnose	3.00			3025.00	55.00 Bottom Packers & Anchor

Total Tool Length: 75.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Prospect Oil & Gas

4-13s-14w Russell,KS

PO Box 837
Russell KS 67665+0837

Big Canyon Ranch #1

Job Ticket: 54879 **DST#: 2**

ATTN: Brad Hutchinson

Test Start: 2013.12.28 @ 08:02:01

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

41 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

48000 ppm

Viscosity: 53.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.35 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1500.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
464.00	MW	6.509
63.00	GOCMW g=5% o=5% m=45% w =55%	0.884
63.00	GOCWM g=10% o=10% w =35% m=45%	0.884
10.00	GO g=10% o=90%	0.140
0.00	GIP = 280 ft	0.000

Total Length: 600.00 ft Total Volume: 8.417 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Resistivity - .23 @ 52 = 48000

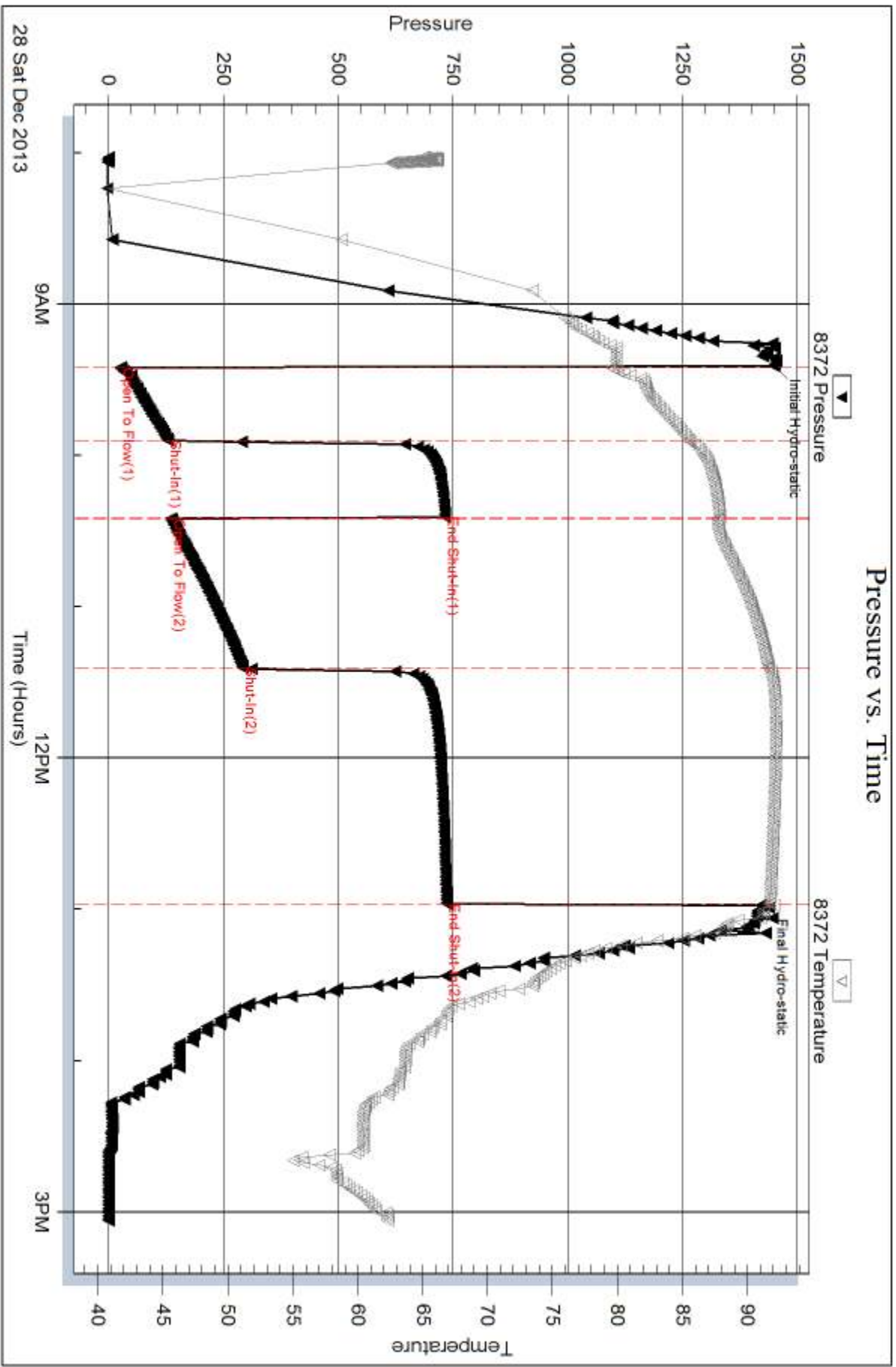
Serial #: 8372

Inside

Prospect Oil & Gas

Big Canyon Ranch #1

DST Test Number: 2

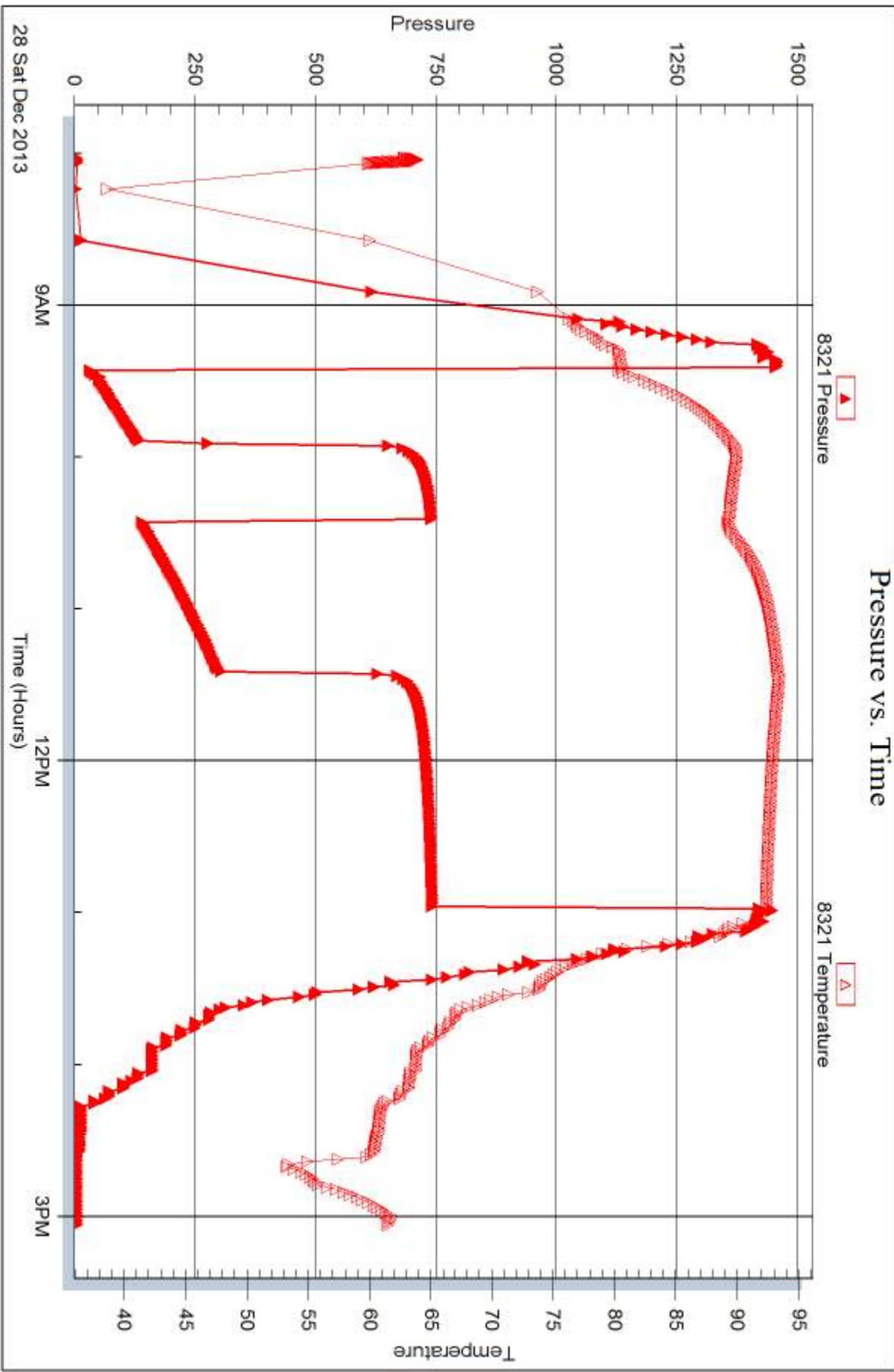


Serial #: 8321

Outside Prospect Oil & Gas

Big Canyon Ranch #1

DST Test Number: 2





DRILL STEM TEST REPORT

Prepared For: **Prospect Oil & Gas**

PO Box 837
Russell KS 67665+0837

ATTN: Brad Hutchinson

Big Canyon Ranch #1

4-13s-14w Russell,KS

Start Date: 2013.12.28 @ 22:35:01

End Date: 2013.12.29 @ 04:27:30

Job Ticket #: 54880 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2014.01.02 @ 16:18:59



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Prospect Oil & Gas
PO Box 837
Russell KS 67665+0837
ATTN: Brad Hutchinson

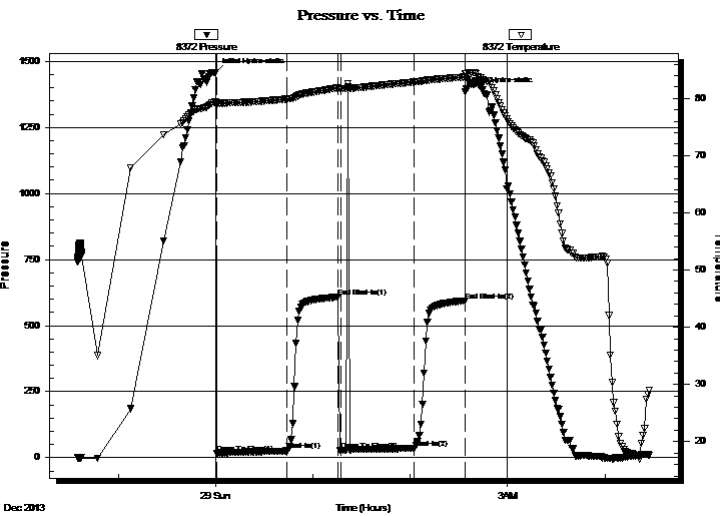
4-13s-14w Russell,KS
Big Canyon Ranch #1
Job Ticket: 54880 **DST#: 3**
Test Start: 2013.12.28 @ 22:35:01

GENERAL INFORMATION:

Formation: **LKC "F-G"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 00:00:30
Time Test Ended: 04:27:30
Interval: **3020.00 ft (KB) To 3056.00 ft (KB) (TVD)**
Total Depth: 2976.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Test Type: Conventional Bottom Hole (Reset)
Tester: Andy Carreira
Unit No: 68
Reference Elevations: 1789.00 ft (KB)
1782.00 ft (CF)
KB to GR/CF: 7.00 ft

Serial #: 8372 Inside
Press@RunDepth: 36.20 psig @ 3021.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2013.12.28 End Date: 2013.12.29 Last Calib.: 2013.12.29
Start Time: 22:35:01 End Time: 04:27:30 Time On Btm: 2013.12.29 @ 00:00:00
Time Off Btm: 2013.12.29 @ 02:34:00

TEST COMMENT: IF:(45min) 2" intermittent blow
IS:(30min) No Return
FF:(45min) intermittent surface blow . Flushed, Surged, intermittent surface blow
FS:(30min) No Return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1457.02	79.37	Initial Hydro-static
1	17.27	78.94	Open To Flow (1)
44	26.38	79.90	Shut-In(1)
76	607.88	81.84	End Shut-In(1)
77	26.62	81.73	Open To Flow (2)
123	36.20	82.87	Shut-In(2)
154	593.96	83.76	End Shut-In(2)
154	1386.36	84.30	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
40.00	Mud w / oil spks in tool	0.56

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Prospect Oil & Gas
PO Box 837
Russell KS 67665+0837
ATTN: Brad Hutchinson

4-13s-14w Russell,KS
Big Canyon Ranch #1
Job Ticket: 54880 **DST#: 3**
Test Start: 2013.12.28 @ 22:35:01

Tool Information

Drill Pipe:	Length: 3007.00 ft	Diameter: 3.80 inches	Volume: 42.18 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: 24000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 42.18 bbl</u>	Tool Chased 1.00 ft
Drill Pipe Above KB:	7.00 ft			String Weight: Initial 46000.00 lb
Depth to Top Packer:	3020.00 ft			Final 46000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	36.00 ft			
Tool Length:	56.00 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			3001.00	
Shut In Tool	5.00			3006.00	
Hydraulic tool	5.00			3011.00	
Packer	5.00			3016.00	20.00 Bottom Of Top Packer
Packer	4.00			3020.00	
Stubb	1.00			3021.00	
Recorder	0.00	8372	Inside	3021.00	
Recorder	0.00	8321	Outside	3021.00	
Perforations	32.00			3053.00	
Bullnose	3.00			3056.00	36.00 Bottom Packers & Anchor
Total Tool Length:	56.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Prospect Oil & Gas

4-13s-14w Russell,KS

PO Box 837
Russell KS 67665+0837

Big Canyon Ranch #1

Job Ticket: 54880 **DST#: 3**

ATTN: Brad Hutchinson

Test Start: 2013.12.28 @ 22:35:01

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: 53.00 sec/qt

Cushion Volume: bbl

Water Loss: 6.36 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure: psig

Salinity: 1500.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
40.00	Mud w / oil spks in tool	0.561

Total Length: 40.00 ft Total Volume: 0.561 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

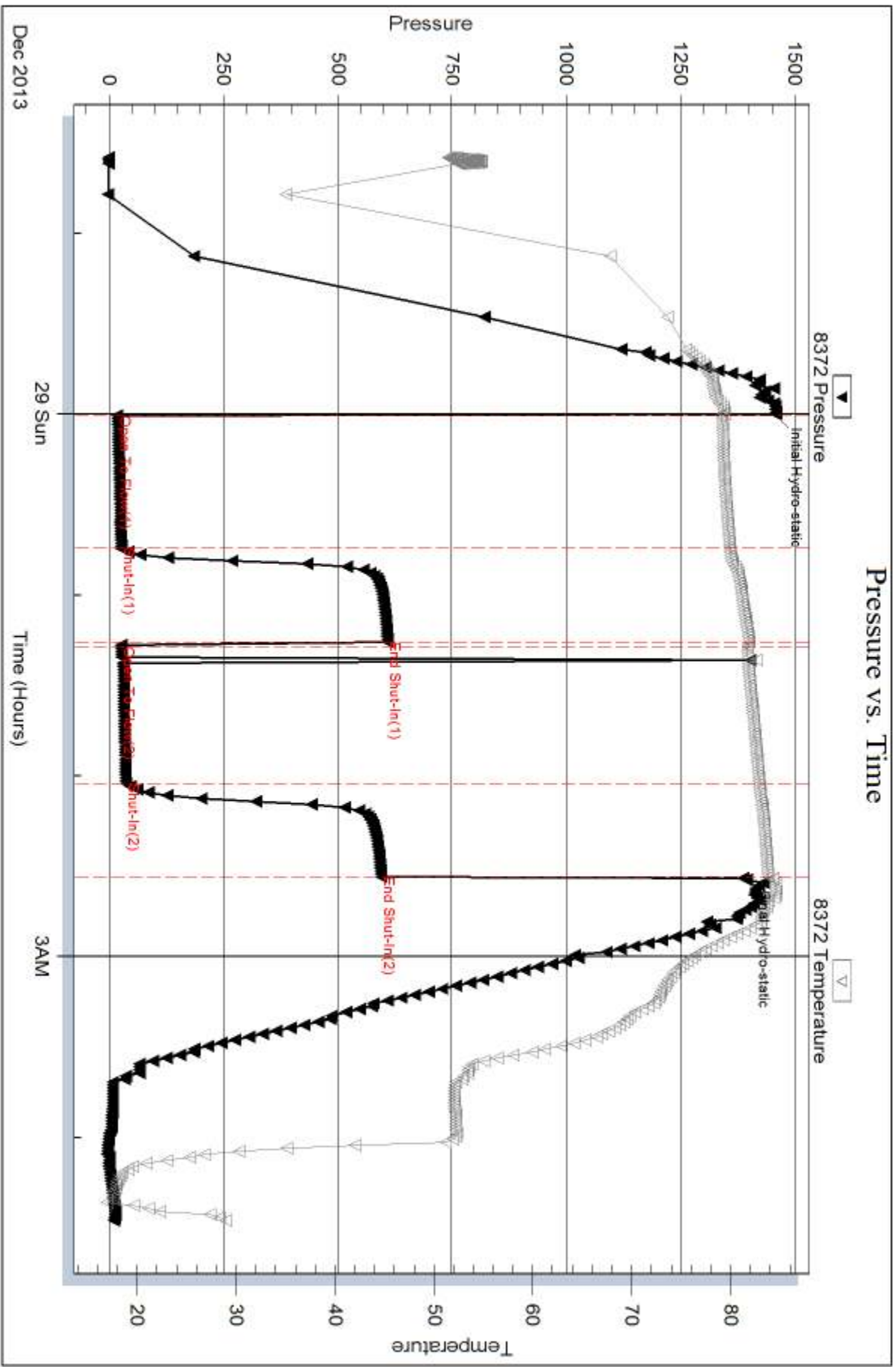
Serial #: 8372

Inside

Prospect Oil & Gas

Big Canyon Ranch #1

DST Test Number: 3



Trilobite Testing, Inc

Ref. No: 54880

Printed: 2014.01.02 @ 16:19:01



DRILL STEM TEST REPORT

Prepared For: **Prospect Oil & Gas**

PO Box 837
Russell KS 67665+0837

ATTN: Brad Hutchinson

Big Canyon Ranch #1

4-13s-14w Russell,KS

Start Date: 2013.12.29 @ 15:57:01

End Date: 2013.12.29 @ 22:02:30

Job Ticket #: 54881 DST #: 4

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

Printed: 2014.01.02 @ 16:18:34



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Prospect Oil & Gas
 PO Box 837
 Russell KS 67665+0837
 ATTN: Brad Hutchinson

4-13s-14w Russell,KS
Big Canyon Ranch #1
 Job Ticket: 54881 **DST#: 4**
 Test Start: 2013.12.29 @ 15:57:01

GENERAL INFORMATION:

Formation: **LKC "I-J"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 17:16:00
 Time Test Ended: 22:02:30
 Interval: **3115.00 ft (KB) To 3160.00 ft (KB) (TVD)**
 Total Depth: 3160.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Andy Carreira
 Unit No: 68
 Reference Elevations: 1789.00 ft (KB)
 1782.00 ft (CF)
 KB to GR/CF: 7.00 ft

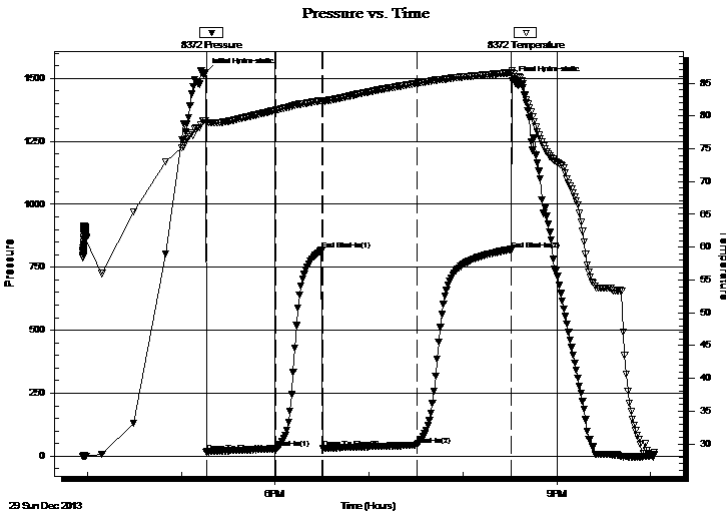
Serial #: 8372

Inside

Press@RunDepth: 44.84 psig @ 3122.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2013.12.29 End Date: 2013.12.29 Last Calib.: 2013.12.29
 Start Time: 15:57:01 End Time: 22:02:30 Time On Btm: 2013.12.29 @ 17:15:30
 Time Off Btm: 2013.12.29 @ 20:31:30

TEST COMMENT: IF:(45min) 2" blow in 9 min. 4" in 22 min. Built to 7"
 IS:(30 min) No Return
 FF:(60min) 2" blow in 9 min. 4" in 25 min. Built to 6.5"
 FS:(60min) No Return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1523.27	79.28	Initial Hydro-static
1	16.56	78.98	Open To Flow (1)
45	29.59	80.89	Shut-In(1)
74	817.30	82.34	End Shut-In(1)
75	32.28	82.22	Open To Flow (2)
135	44.84	84.97	Shut-In(2)
196	821.12	86.59	End Shut-In(2)
196	1489.53	86.94	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
65.00	GOCWM g=5% o=5% w =20% m=70%	0.91

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Prospect Oil & Gas
 PO Box 837
 Russell KS 67665+0837
 ATTN: Brad Hutchinson

4-13s-14w Russell,KS
Big Canyon Ranch #1
 Job Ticket: 54881 **DST#: 4**
 Test Start: 2013.12.29 @ 15:57:01

Tool Information

Drill Pipe:	Length: 3100.00 ft	Diameter: 3.80 inches	Volume: 43.48 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: 24000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 43.48 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	5.00 ft			String Weight: Initial 46000.00 lb
Depth to Top Packer:	3115.00 ft			Final 46000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	45.00 ft			
Tool Length:	65.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Length (ft) Serial No. Position Depth (ft) Accum. Lengths

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3096.00	
Shut In Tool	5.00			3101.00	
Hydraulic tool	5.00			3106.00	
Packer	5.00			3111.00	20.00 Bottom Of Top Packer
Packer	4.00			3115.00	
Stubb	1.00			3116.00	
Perforations	5.00			3121.00	
Change Over Sub	1.00			3122.00	
Recorder	0.00	8372	Inside	3122.00	
Recorder	0.00	8321	Outside	3122.00	
Drill Pipe	32.00			3154.00	
Change Over Sub	1.00			3155.00	
Perforations	2.00			3157.00	
Bullnose	3.00			3160.00	45.00 Bottom Packers & Anchor

Total Tool Length: 65.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Prospect Oil & Gas

4-13s-14w Russell,KS

PO Box 837
Russell KS 67665+0837

Big Canyon Ranch #1

Job Ticket: 54881 **DST#: 4**

ATTN: Brad Hutchinson

Test Start: 2013.12.29 @ 15:57:01

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: 53.00 sec/qt

Cushion Volume: bbl

Water Loss: 7.18 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure: psig

Salinity: 2000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
65.00	GOCWM g=5% o=5% w =20% m=70%	0.912

Total Length: 65.00 ft Total Volume: 0.912 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8372

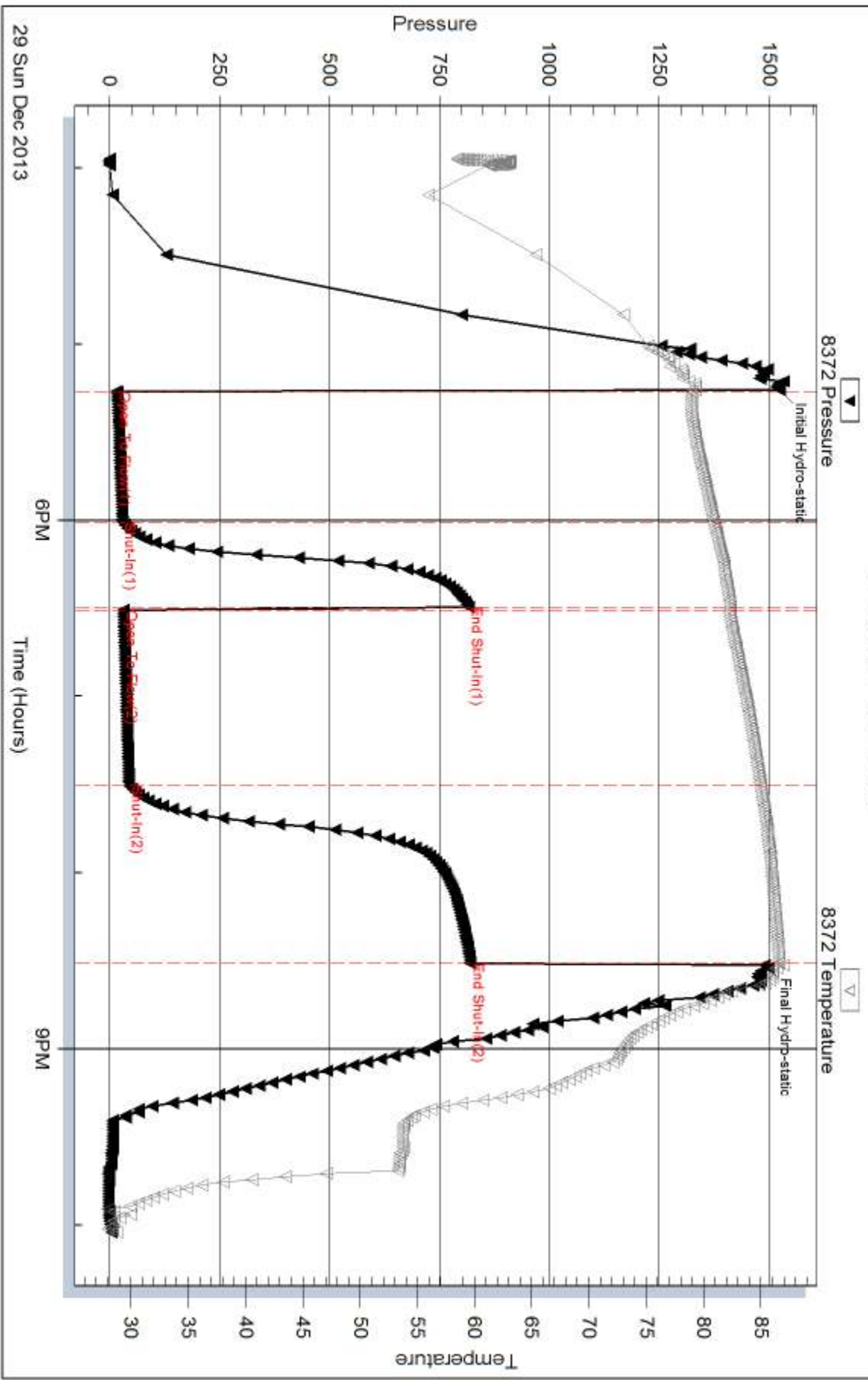
Inside

Prospect Oil & Gas

Big Canyon Ranch #1

DST Test Number: 4

Pressure vs. Time



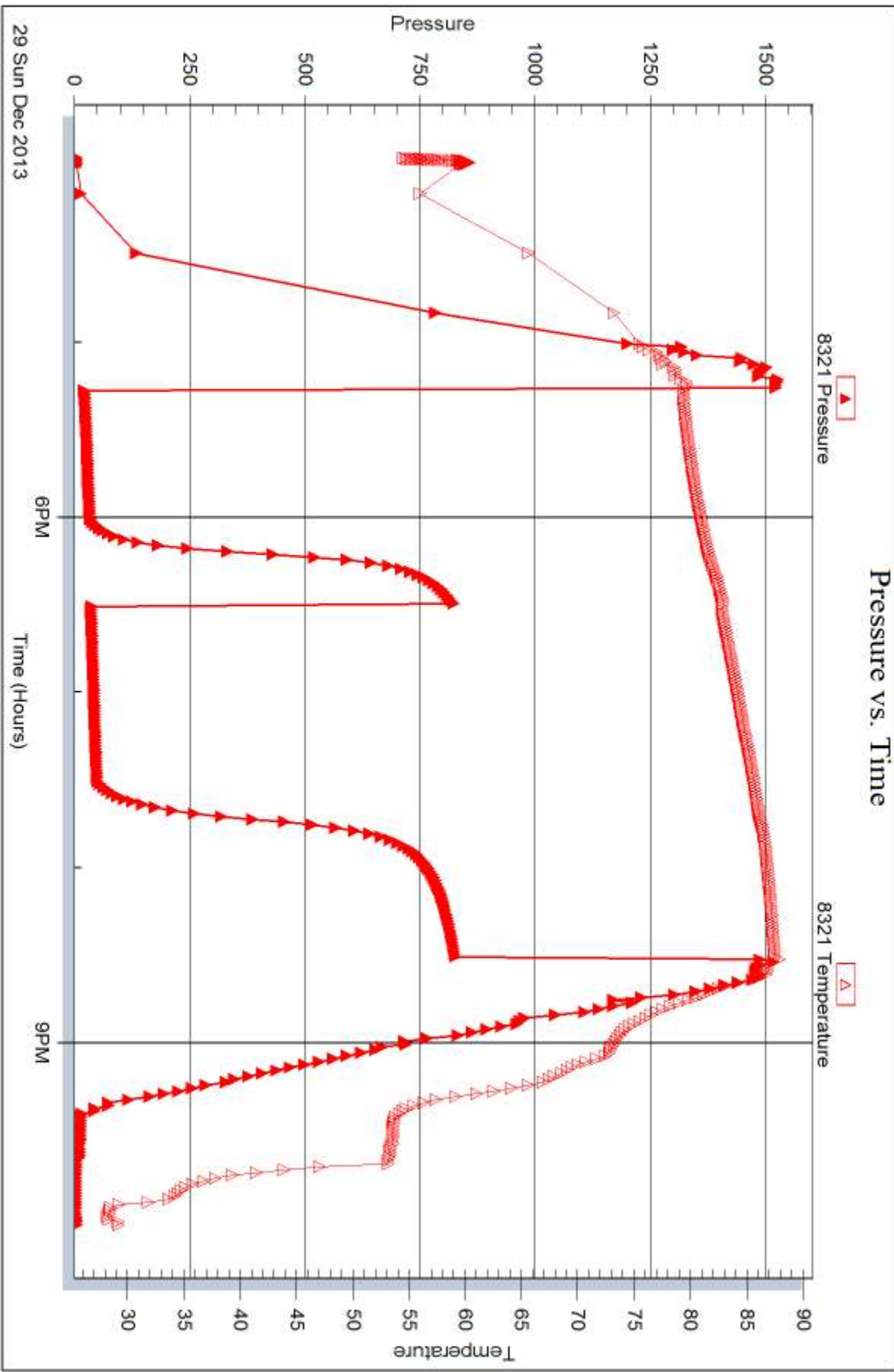
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Serial #: 8321

Outside Prospect Oil & Gas

Big Canyon Ranch #1

DST Test Number: 4





DRILL STEM TEST REPORT

Prepared For: **Prospect Oil & Gas**

PO Box 837
Russell KS 67665+0837

ATTN: Brad Hutchinson

Big Canyon Ranch #1

4-13s-14w Russell,KS

Start Date: 2013.12.30 @ 16:27:01

End Date: 2013.12.30 @ 21:37:30

Job Ticket #: 54882 DST #: 5

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2014.01.02 @ 16:17:57



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prospect Oil & Gas
PO Box 837
Russell KS 67665+0837
ATTN: Brad Hutchinson

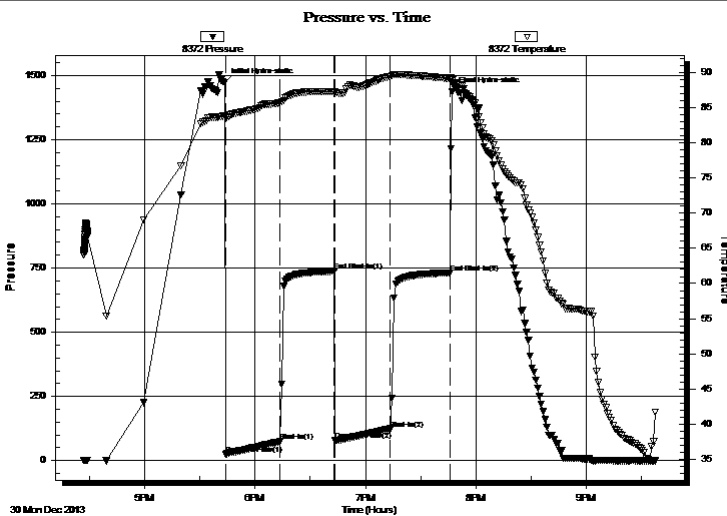
4-13s-14w Russell,KS
Big Canyon Ranch #1
Job Ticket: 54882 **DST#: 5**
Test Start: 2013.12.30 @ 16:27:01

GENERAL INFORMATION:

Formation: **LKC"B"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 17:44:00
Time Test Ended: 21:37:30
Interval: **2965.00 ft (KB) To 2995.00 ft (KB) (TVD)**
Total Depth: 3319.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Test Type: Conventional Straddle (Reset)
Tester: Andy Carreira
Unit No: 68
Reference Elevations: 1789.00 ft (KB)
1782.00 ft (CF)
KB to GR/CF: 7.00 ft

Serial #: 8372 Inside
Press@RunDepth: 123.48 psig @ 2966.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2013.12.30 End Date: 2013.12.30 Last Calib.: 2013.12.30
Start Time: 16:27:01 End Time: 21:37:30 Time On Btm: 2013.12.30 @ 17:43:30
Time Off Btm: 2013.12.30 @ 19:47:00

TEST COMMENT: IF:(30min) 2" blow in 1 min. 5" in 5 min. BOB in 15 min.
IS:(30min) No Return
FF:(30min) 2" blow in 3 min. 5" in 9 min. BOB in 21 min.
FS:(30min) No Return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1472.74	83.81	Initial Hydro-static
1	23.33	83.51	Open To Flow (1)
30	73.54	85.73	Shut-In(1)
60	738.27	87.31	End Shut-In(1)
60	77.76	87.11	Open To Flow (2)
90	123.48	89.48	Shut-In(2)
123	732.08	89.17	End Shut-In(2)
124	1435.91	89.18	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
225.00	MW	3.16

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Prospect Oil & Gas
 PO Box 837
 Russell KS 67665+0837
 ATTN: Brad Hutchinson

4-13s-14w Russell,KS
Big Canyon Ranch #1
 Job Ticket: 54882 **DST#: 5**
 Test Start: 2013.12.30 @ 16:27:01

Tool Information

Drill Pipe:	Length: 2974.00 ft	Diameter: 3.80 inches	Volume: 41.72 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: 62000.00 lb
			<u>Total Volume: 41.72 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	29.00 ft			String Weight: Initial 48000.00 lb
Depth to Top Packer:	2965.00 ft			Final 49000.00 lb
Depth to Bottom Packer:	2995.00 ft			
Interval between Packers:	30.00 ft			
Tool Length:	376.00 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			2946.00	
Shut In Tool	5.00			2951.00	
Hydraulic tool	5.00			2956.00	
Packer	5.00			2961.00	20.00 Bottom Of Top Packer
Packer	4.00			2965.00	
Stubb	1.00			2966.00	
Recorder	0.00	8372	Inside	2966.00	
Recorder	0.00	8321	Outside	2966.00	
Perforations	24.00			2990.00	
Blank Off Sub	1.00			2991.00	
Blank Spacing	4.00			2995.00	30.00 Tool Interval
Packer	4.00			2999.00	
Stubb	1.00			3000.00	
Perforations	2.00			3002.00	
Change Over Sub	1.00			3003.00	
Recorder	0.00	8647	Below	3003.00	
Drill Pipe	312.00			3315.00	
Change Over Sub	1.00			3316.00	
Perforations	2.00			3318.00	
Bullnose	3.00			3321.00	326.00 Bottom Packers & Anchor

Total Tool Length: 376.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Prospect Oil & Gas

4-13s-14w Russell,KS

PO Box 837
Russell KS 67665+0837

Big Canyon Ranch #1

Job Ticket: 54882 **DST#: 5**

ATTN: Brad Hutchinson

Test Start: 2013.12.30 @ 16:27:01

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: 76000 ppm

Viscosity: 49.00 sec/qt

Cushion Volume: bbl

Water Loss: 7.18 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure: psig

Salinity: 2000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
225.00	MW	3.156

Total Length: 225.00 ft Total Volume: 3.156 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Resistivity - .195 @ 38 = 76000

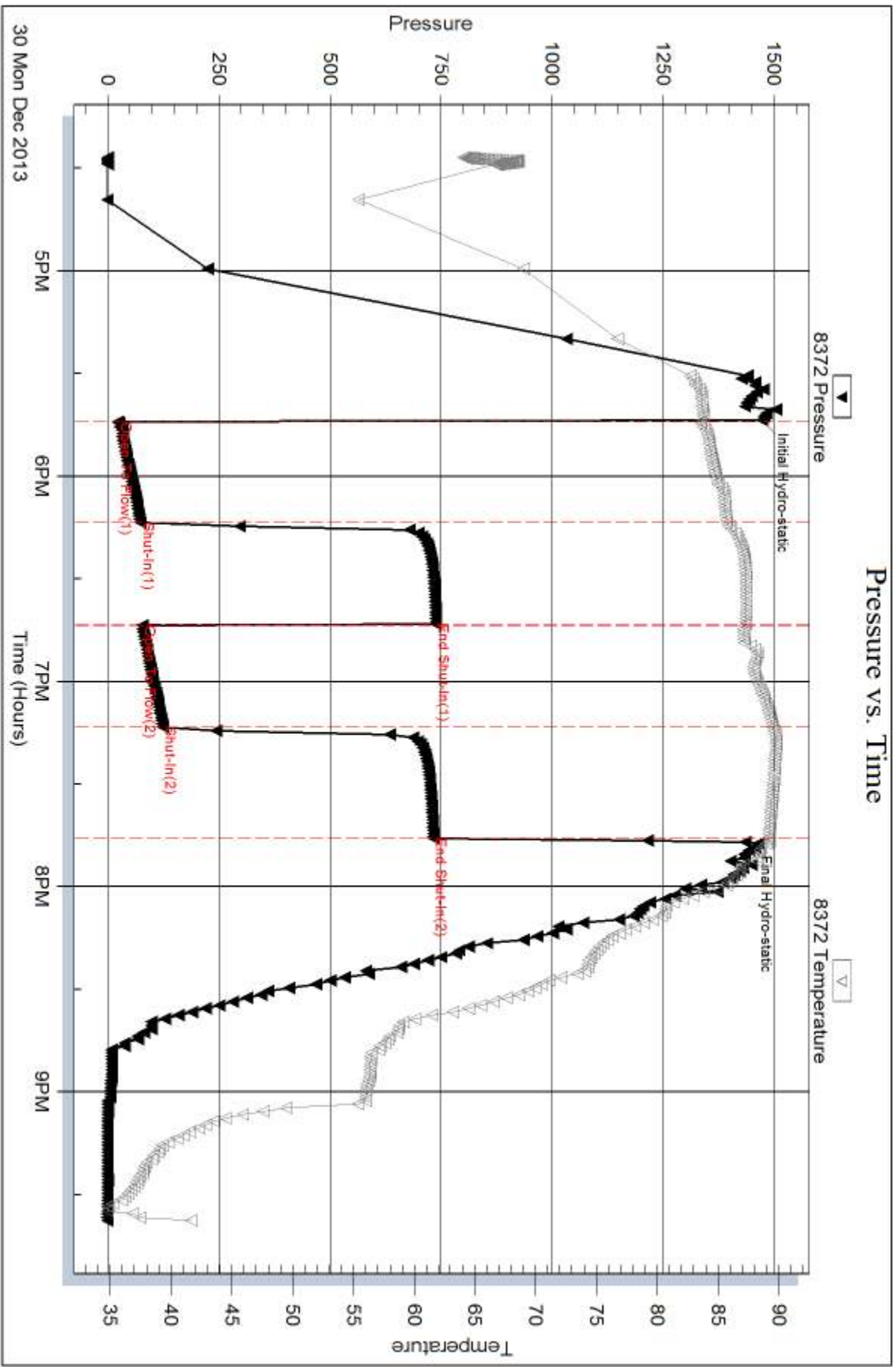
Serial #: 8372

Inside

Prospect Oil & Gas

Big Canyon Ranch #1

DST Test Number: 5

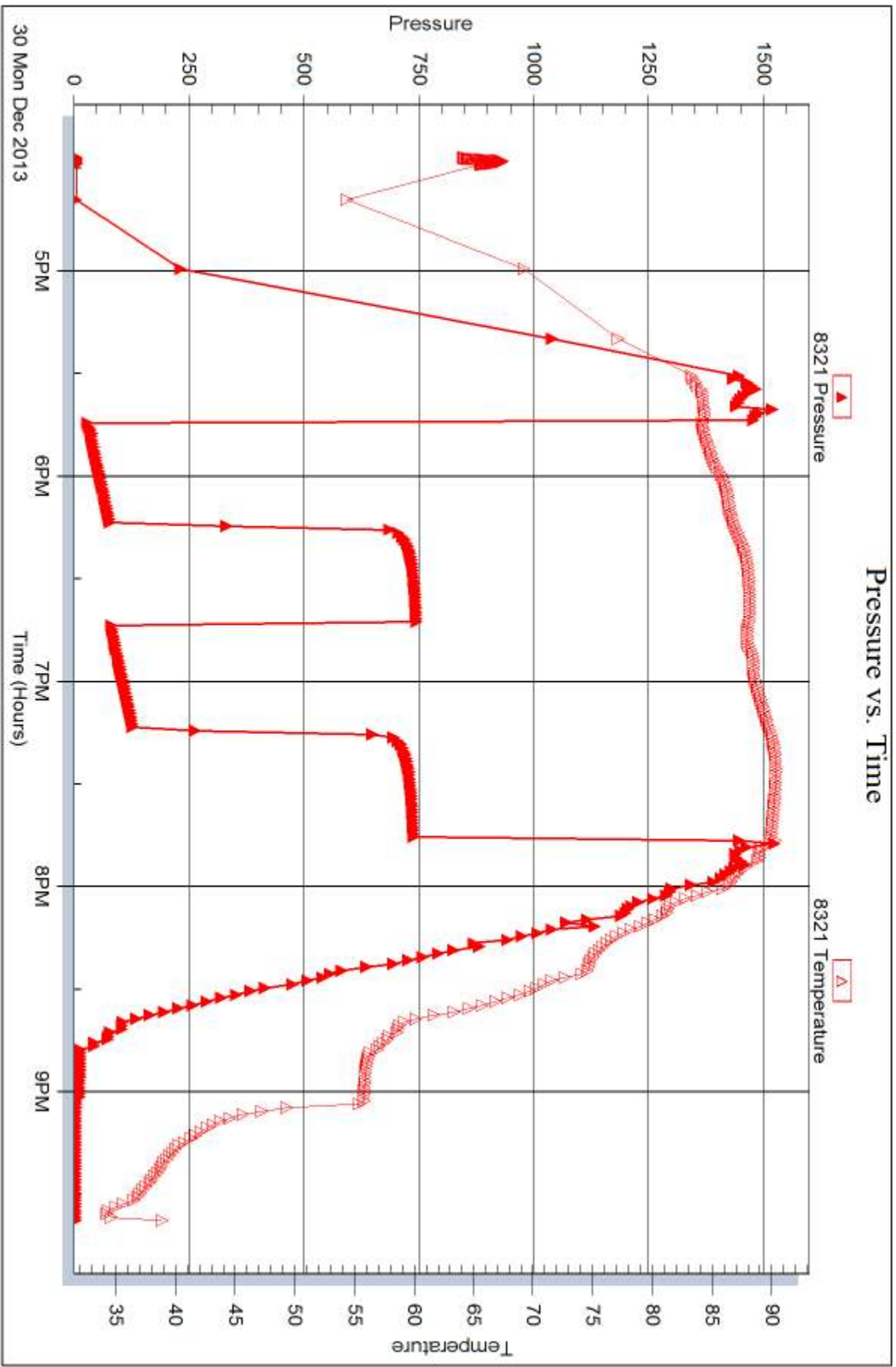


Serial #: 8321

Outside Prospect Oil & Gas

Big Canyon Ranch #1

DST Test Number: 5

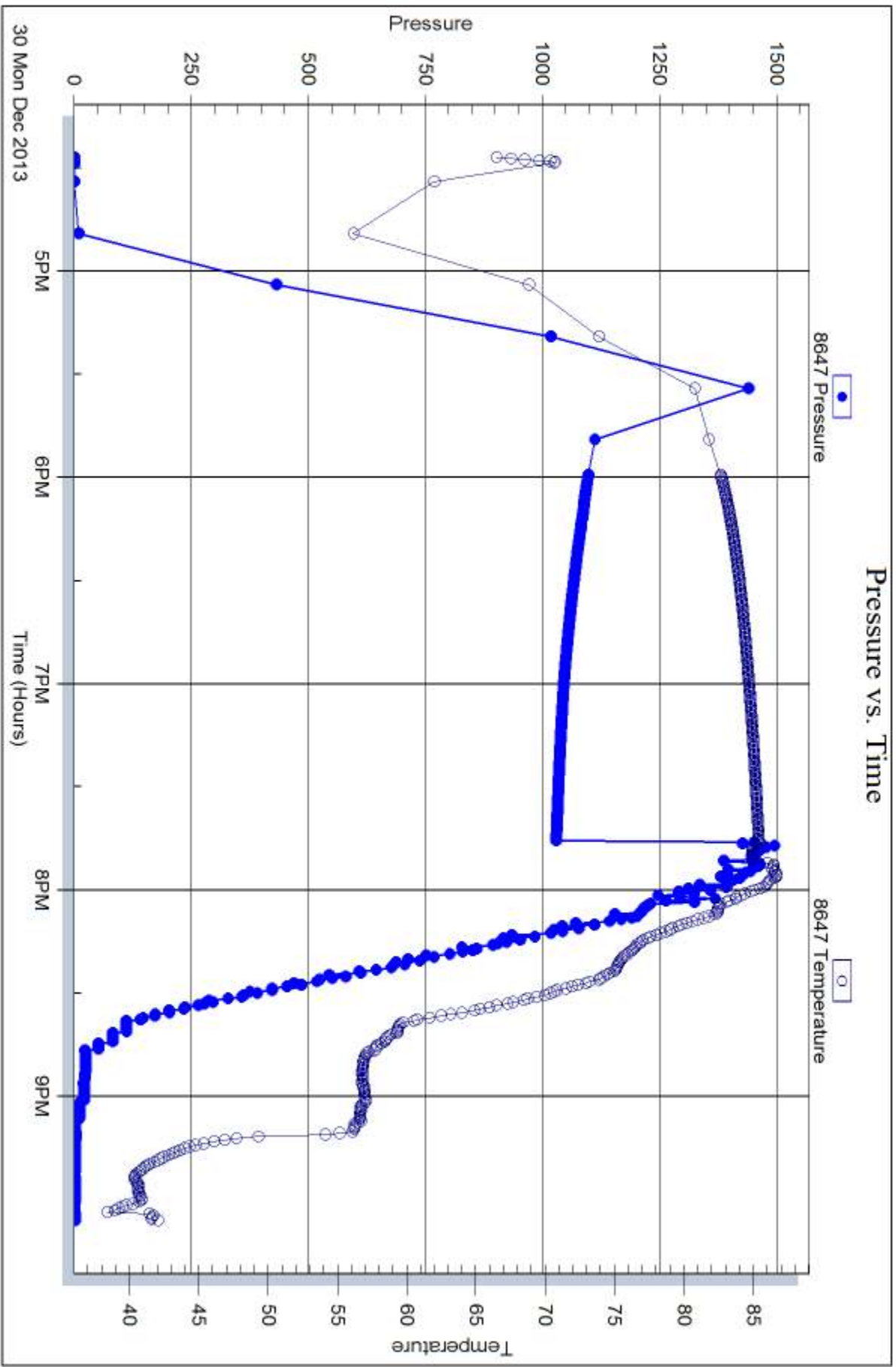


Serial #: 8647

Below (Strat) Prospect Oil & Gas

Big Canyon Ranch #1

DST Test Number: 5



Trilobite Testing, Inc

Ref. No: 54882

Printed: 2014.01.02 @ 16:18:00



DRILL STEM TEST REPORT

Prepared For: **Prospect Oil & Gas**

PO Box 837
Russell KS 67665+0837

ATTN: Brad Hutchinson

Big Canyon Ranch #1

4-13s-14w Russell,KS

Start Date: 2013.12.31 @ 03:03:01

End Date: 2013.12.31 @ 10:10:00

Job Ticket #: 54883 DST #: 6

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2014.01.02 @ 16:16:29



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prospect Oil & Gas
 PO Box 837
 Russell KS 67665+0837
 ATTN: Brad Hutchinson

4-13s-14w Russell,KS
Big Canyon Ranch #1
 Job Ticket: 54883 **DST#: 6**
 Test Start: 2013.12.31 @ 03:03:01

GENERAL INFORMATION:

Formation: **LKC "C"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 04:55:00
 Time Test Ended: 10:10:00
 Interval: **2995.00 ft (KB) To 3015.00 ft (KB) (TVD)**
 Total Depth: 3319.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Straddle (Reset)
 Tester: Andy Carreira
 Unit No: 68
 Reference Elevations: 1789.00 ft (KB)
 1782.00 ft (CF)
 KB to GR/CF: 7.00 ft

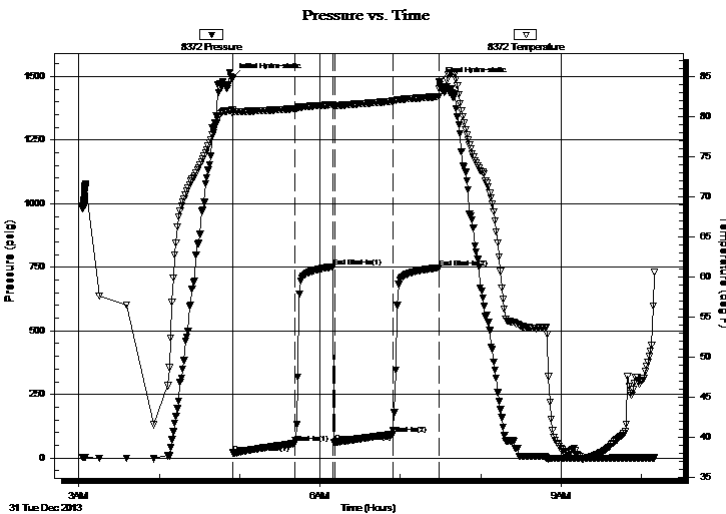
Serial #: 8372

Inside

Press@RunDepth: 93.88 psig @ 2996.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2013.12.31 End Date: 2013.12.31 Last Calib.: 2013.12.31
 Start Time: 03:03:01 End Time: 10:10:00 Time On Btm: 2013.12.31 @ 04:54:30
 Time Off Btm: 2013.12.31 @ 07:29:00

TEST COMMENT: IF:(45min) 2" in 3 min. 5" in 8 min. BOB in 18 min.
 ISl(30min) No Return
 FF:(45min) 2" in 4 min. 5" in 9 min. BOB in 19 min.
 FSl(30min) No Return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1494.47	80.82	Initial Hydro-static
1	20.31	80.37	Open To Flow (1)
47	57.51	81.02	Shut-In(1)
75	751.72	81.53	End Shut-In(1)
77	61.38	81.41	Open To Flow (2)
120	93.88	81.95	Shut-In(2)
154	747.87	82.53	End Shut-In(2)
155	1480.62	83.51	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
155.00	MGW	2.17
20.00	GO	0.28

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Prospect Oil & Gas
 PO Box 837
 Russell KS 67665+0837
 ATTN: Brad Hutchinson

4-13s-14w Russell,KS
Big Canyon Ranch #1
 Job Ticket: 54883 **DST#: 6**
 Test Start: 2013.12.31 @ 03:03:01

Tool Information

Drill Pipe:	Length: 3005.00 ft	Diameter: 3.80 inches	Volume: 42.15 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: 60000.00 lb
			<u>Total Volume: 42.15 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 48000.00 lb
Depth to Top Packer:	2995.00 ft			Final 49000.00 lb
Depth to Bottom Packer:	3015.00 ft			
Interval between Packers:	20.00 ft			
Tool Length:	348.00 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			2976.00	
Shut In Tool	5.00			2981.00	
Hydraulic tool	5.00			2986.00	
Packer	5.00			2991.00	20.00 Bottom Of Top Packer
Packer	4.00			2995.00	
Stubb	1.00			2996.00	
Recorder	0.00	8372	Inside	2996.00	
Recorder	0.00	8321	Outside	2996.00	
Perforations	14.00			3010.00	
Blank Off Sub	1.00			3011.00	
Blank Spacing	4.00			3015.00	20.00 Tool Interval
Packer	4.00			3019.00	
Stubb	1.00			3020.00	
Perforations	14.00			3034.00	
Change Over Sub	1.00			3035.00	
Recorder	0.00	8647	Below	3035.00	
Drill Pipe	280.00			3315.00	
Change Over Sub	1.00			3316.00	
Perforations	4.00			3320.00	
Bullnose	3.00			3323.00	308.00 Bottom Packers & Anchor

Total Tool Length: 348.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Prospect Oil & Gas
PO Box 837
Russell KS 67665+0837
ATTN: Brad Hutchinson

4-13s-14w Russell,KS
Big Canyon Ranch #1
Job Ticket: 54883 **DST#: 6**
Test Start: 2013.12.31 @ 03:03:01

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:	77000 ppm
Viscosity: 49.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.19 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 2000.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
155.00	MGW	2.174
20.00	GO	0.281

Total Length: 175.00 ft Total Volume: 2.455 bbl
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments: Resistivity - .219 @ 40 = 77000

Serial #: 8372

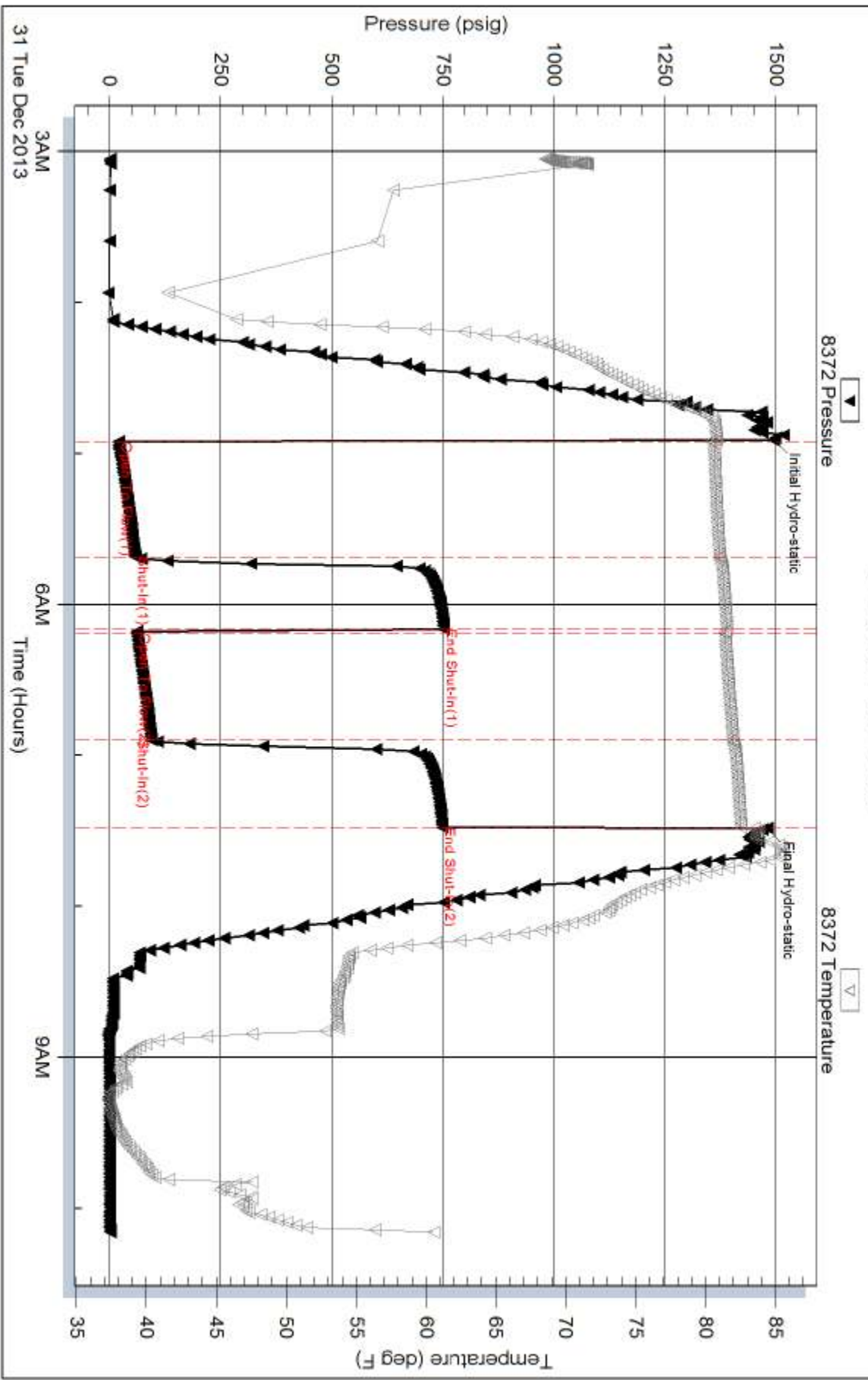
Inside

Prospect Oil & Gas

Big Canyon Ranch #1

DST Test Number: 6

Pressure vs. Time



Triobite Testing, Inc

Ref. No: 54883

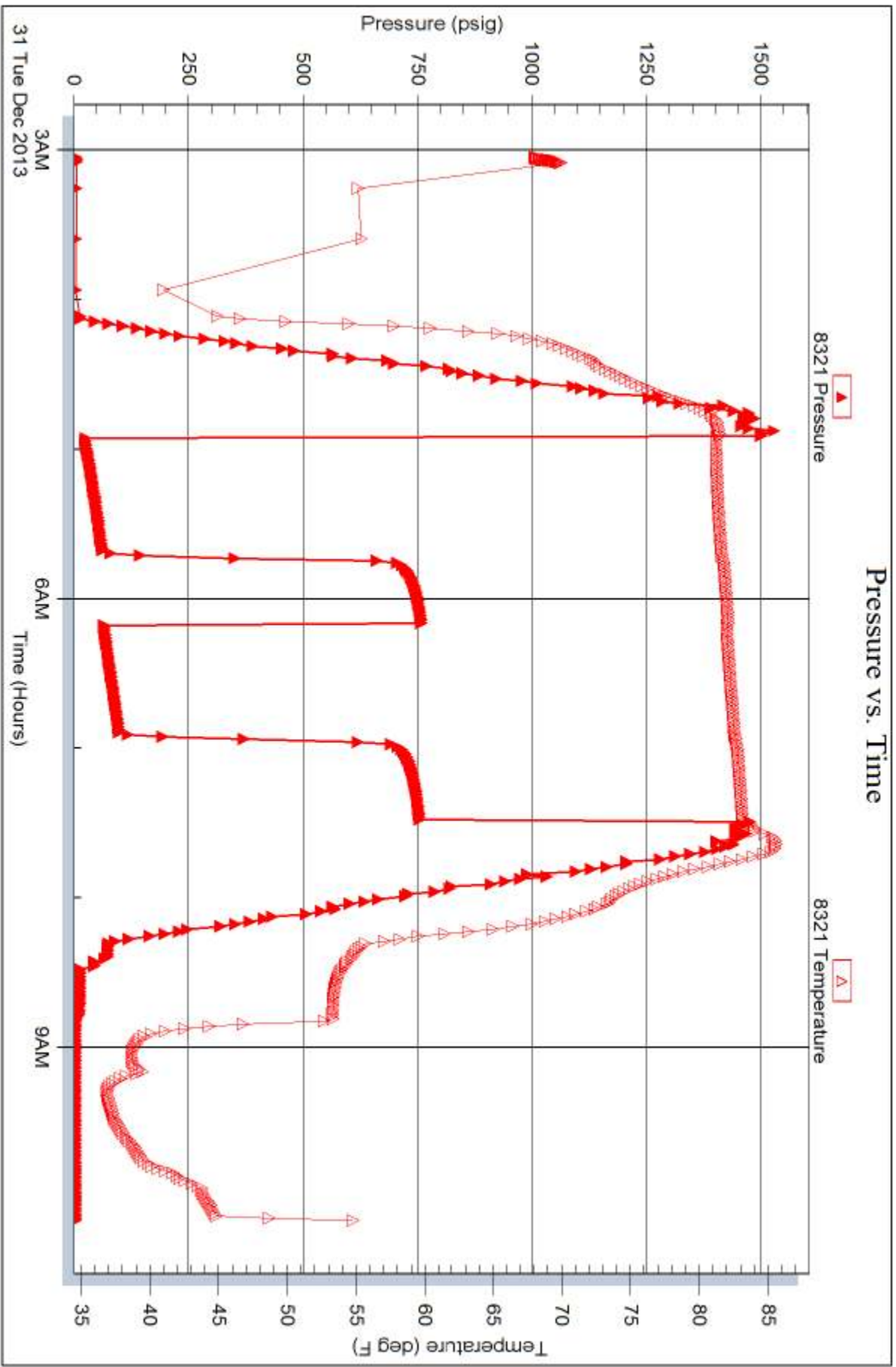
Printed: 2014.01.02 @ 16:16:31

Serial #: 8321

Outside Prospect Oil & Gas

Big Canyon Ranch #1

DST Test Number: 6

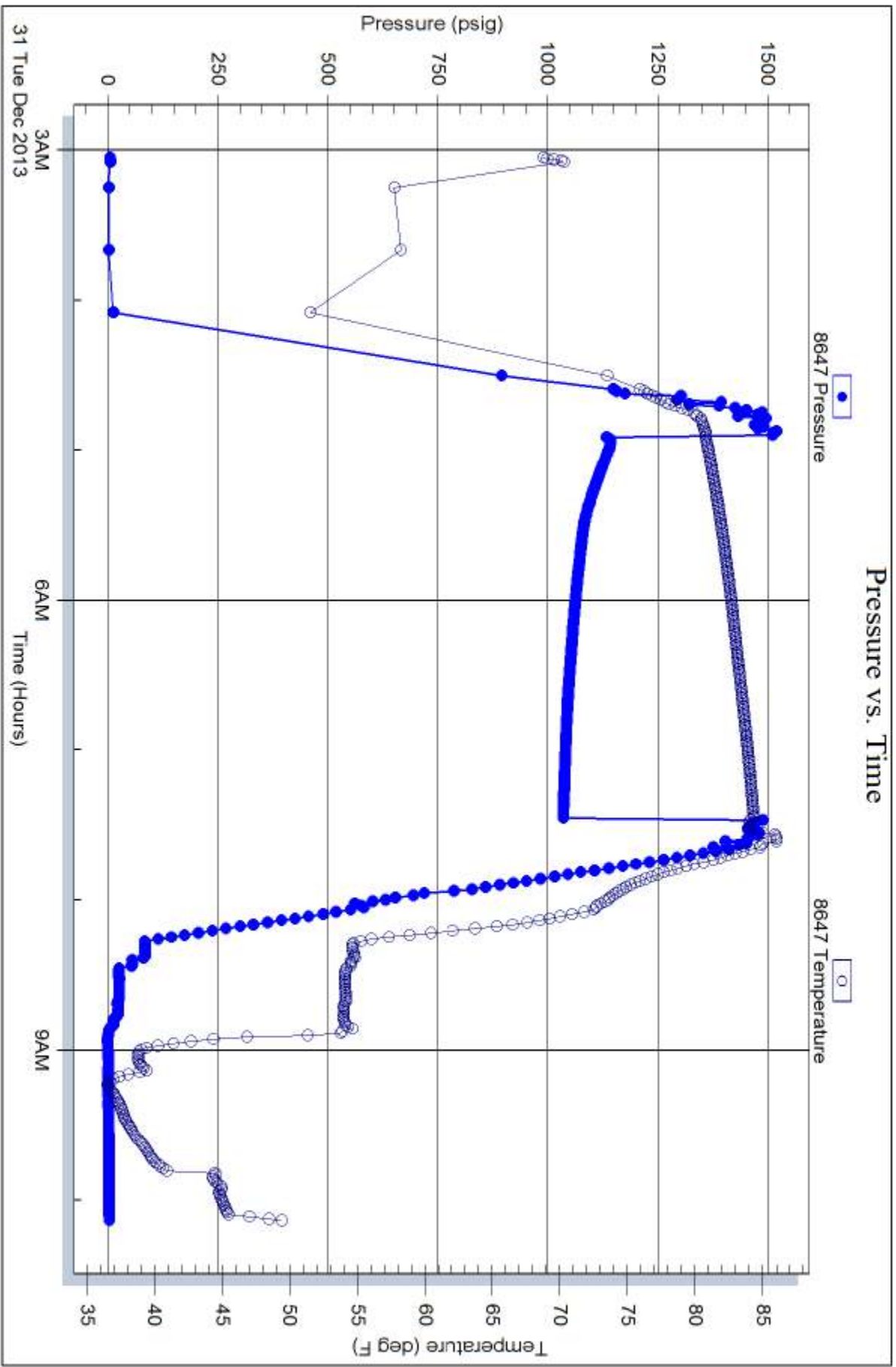


Serial #: 8647

Below (Strat) Dept Oil & Gas

Big Canyon Ranch #1

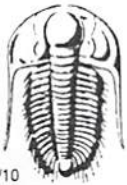
DST Test Number: 6



31 Tue Dec 2013

6AM Time (Hours)

9AM



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 54878

Well Name & No. Big Canyon Ranch #1 Test No. 1 Date 12-27-13
 Company Prospect Oil & Gas Elevation 1789 KB 1782 GL
 Address PO Box 837 Russell Ks 67665-0837
 Co. Rep / Geo. BRAD HUTCHINSON Rig Royal #2
 Location: Sec. 4 Twp. 13S Rge. 14W Co. Russell State Ks

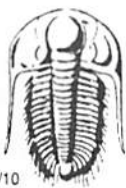
Interval Tested 2938-2976 Zone Tested LKC "A"
 Anchor Length 38' Drill Pipe Run 2945 Mud Wt. 8.7
 Top Packer Depth 2933 Drill Collars Run 0 Vis 53
 Bottom Packer Depth 2938 Wt. Pipe Run 0 WL 6.4
 Total Depth 2976 Chlorides 1500 ppm System LCM 2
 Blow Description IF: 1" blow in 6min, 3" in 17min, Built to 4"
ISS: ~~1" in 6min, 3" in 17min, Built to 4"~~ NO RETURN
FF: 1" blow in 7min, 3" in 34min, 4" in 56min
FSS: NO RETURN

Rec	Feet of	%gas	%oil	%water	%mud
<u>40</u>	<u>OSM</u>				
	<u>30' = GIP</u>				

Rec Total 40 BHT 86 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 1423 Test 1150 T-On Location 17:40
 (B) First Initial Flow 20 Jars _____ T-Started 18:36
 (C) First Final Flow 26 Safety Joint _____ T-Open 20:00
 (D) Initial Shut-In 716 Circ Sub _____ T-Pulled 23:15
 (E) Second Initial Flow 26 Hourly Standby _____ T-Out 00:51
 (F) Second Final Flow 36 Mileage 66RT 102.30 Comments _____
 (G) Final Shut-In 745 Sampler _____
 (H) Final Hydrostatic 1373 Straddle _____
 Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Initial Open 45 Extra Recorder _____ Sub Total 0
 Initial Shut-In 30 Day Standby _____ Total 1252.30
 Final Flow 60 Accessibility _____ MP/DST Disc't _____
 Final Shut-In 60 Sub Total 1252.30

Approved By _____ Our Representative [Signature]
 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.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 54879

Well Name & No. Big Canyon Ranch #1 Test No. 2 Date 12-28-13
 Company Prospect Oil & Gas Elevation 1789 KB 1782 GL
 Address PO Box 837 Russell Ks 67665+0837
 Co. Rep / Geo. BRAD NUTCHINSON Rig Royal #2
 Location: Sec. 4 Twp. 13s Rge. 14w Co. Russell State Ks.

Interval Tested 2970-3025 Zone Tested LKC ~~B&C~~ "B&C"
 Anchor Length 55' Drill Pipe Run 2976 Mud Wt. 8.7
 Top Packer Depth 2965 Drill Collars Run 0 Vis 53
 Bottom Packer Depth 2970 Wt. Pipe Run 0 WL 6.4
 Total Depth 3025 Chlorides 1500 ppm System LCM 2

Blow Description IF: BOB IN 7min.
ISI: Return blow 1min after bleedoff. Built to 3" in 28min.
FF: BOB IN 6min.
FSI: Return blow 30 sec. after bleedoff, 3" in 20min, 5" in 90min

Rec	Feet of	%gas	%oil	%water	%mud
<u>10</u>	<u>30</u>	<u>10</u>	<u>90</u>		
<u>63</u>	<u>GOC WM</u>	<u>10</u>	<u>10</u>	<u>35</u>	<u>45</u>
<u>63</u>	<u>GOC MW</u>	<u>5</u>	<u>5</u>	<u>55</u>	<u>45</u>
<u>464</u>	<u>MW</u>				
	<u>GIP=280'</u>				

Rec Total 600' BHT 91° Gravity 41 API RW .23 @ 52° F Chlorides 48000 ppm
 (A) Initial Hydrostatic 1448 Test 1150 T-On Location 07:38
 (B) First Initial Flow 26 Jars _____ T-Started 08:02
 (C) First Final Flow 129 Safety Joint _____ T-Open 09:25
 (D) Initial Shut-In 732 Circ Sub _____ T-Pulled 12:55
 (E) Second Initial Flow 136 Hourly Standby _____ T-Out 15:05
 (F) Second Final Flow 292 Mileage 66RT 102.30 Comments _____
 (G) Final Shut-In 735 Sampler _____
 (H) Final Hydrostatic 1419 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____

Initial Open 30
 Initial Shut-In 30
 Final Flow 60
 Final Shut-In 90
 Sub Total 1252.30
 Total _____
 MP/DST Disc't _____

Approved By _____ Our Representative Andy Co

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 54880

Well Name & No. Big Canyon Ranch #1 Test No. 3 Date 12-28-13
 Company Prospect Oil & Gas Elevation 1789 KB 1782 GL
 Address PO Box 837 Russell Ks 67665+0837
 Co. Rep / Geo. Brad Nutchinson Rig Royal #2
 Location: Sec. 4 Twp. 13S Rge. 14W Co. Russell State Ks

Interval Tested 3020-3056 Zone Tested LKC "F-B"
 Anchor Length 36' Drill Pipe Run 3007 Mud Wt. 8.7
 Top Packer Depth 3015 Drill Collars Run 0 Vis 53
 Bottom Packer Depth 3020 Wt. Pipe Run 0 WL 6.4
 Total Depth 3056 Chlorides 1500 ppm System LCM 2

Blow Description IF: 2" intermittent blow
ISI: NO RETURN
FF: intermittent surface blow. flushed, surged, intermittent surface blow
FSI NO RETURN

Rec	Feet of	%gas	%oil	%water	%mud
<u>40</u>	<u>Mud w/oil spks in tool</u>				
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

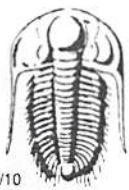
Rec Total 40 BHT 83° Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 1457 Test 1150 T-On Location 22:10
 (B) First Initial Flow 17 Jars _____ T-Started 22:35
 (C) First Final Flow 26 Safety Joint _____ T-Open 00:01
 (D) Initial Shut-In 607 Circ Sub _____ T-Pulled 02:31
 (E) Second Initial Flow 26 Hourly Standby _____ T-Out 04:28
 (F) Second Final Flow 36 Mileage 66RT 102.30
 (G) Final Shut-In 593 Sampler _____
 (H) Final Hydrostatic 1386 Straddle _____

Initial Open 45' Shale Packer _____ Ruined Shale Packer _____
 Initial Shut-In 30 Shale Packer _____ Ruined Packer _____
 Final Flow 45' Extra Packer _____ Extra Copies _____
 Final Shut-In 30 Extra Recorder _____ Sub Total 0
 Day Standby _____ Total 1252.30
 Accessibility _____ MP/DST Disc't _____
 Sub Total 1252.30

Approved By _____ Our Representative Rocky Co

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 54881

Well Name & No. Big Canyon Ranch #1 Test No. 4 Date 12-29-13
 Company Prospect Oil & Gas Elevation 1789 KB 1782 GL
 Address PO Box 837 Russell KS. 67665 + 0837
 Co. Rep / Geo. BRAD NUTCHINSON Rig ROYAL #2
 Location: Sec. 4 Twp. 13S Rge. 14W Co. Russell State KS

Interval Tested 3115-3160 Zone Tested LKC "I-J"
 Anchor Length 45 Drill Pipe Run 3100 Mud Wt. 8.9
 Top Packer Depth 3110 Drill Collars Run 0 Vis 53
 Bottom Packer Depth 3115 Wt. Pipe Run 0 WL 7.2
 Total Depth 3160 Chlorides 2000 ppm System LCM 2

Blow Description IF: 2" blow in 9min. 4" in 22min. Built to 7"
ISI: NO RETURN
FF: 2" blow in 9min 4" in 25min. Built to 6 1/2"
FSL: NO RETURN

Rec	Feet of	%gas	%oil	%water	%mud
<u>65</u>	<u>60 CWM</u>	<u>5</u>	<u>5</u>	<u>20</u>	<u>70</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec Total	<u>65</u>	BHT <u>86°</u>	Gravity	API RW	@ °F Chlorides ppm

- (A) Initial Hydrostatic 1523
- (B) First Initial Flow 16
- (C) First Final Flow 29
- (D) Initial Shut-In 817
- (E) Second Initial Flow 32
- (F) Second Final Flow 44
- (G) Final Shut-In 821
- (H) Final Hydrostatic 1489

Initial Open 45
 Initial Shut-In 30
 Final Flow 60
 Final Shut-In 60

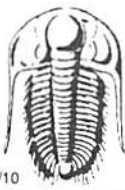
- Test 1150
- Jars
- Safety Joint
- Circ Sub
- Hourly Standby
- Mileage 66RT 102.30
- Sampler
- Straddle
- Shale Packer
- Extra Packer
- Extra Recorder
- Day Standby
- Accessibility
- Sub Total 1252.30

T-On Location 15:25
 T-Started 15:57
 T-Open 17:15
 T-Pulled 20:30
 T-Out 22:04
 Comments _____
 Ruined Shale Packer
 Ruined Packer
 Extra Copies
 Sub Total 0
 Total 1252.30
 MP/DST Disc't _____

Approved By _____

Our Representative [Signature]

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **54882**

Well Name & No. Big Canyon Ranch #1 Test No. 5 Date 12-30-13
 Company Prospect oil & Gas Elevation 1789 KB 1782 GL
 Address PO Box 837 Russell Ks. 67665 + 0837
 Co. Rep / Geo. Brad Natchinson Rig Royal #2
 Location: Sec. 4 Twp. 13S Rge. 14W Co. Russell State Ks

Interval Tested 2965-2995 Zone Tested LKC "B"
 Anchor Length 30' Drill Pipe Run 2974 Mud Wt. 9.0
 Top Packer Depth 2965 Drill Collars Run 0 Vis 49
 Bottom Packer Depth 2995 Wt. Pipe Run 0 WL 7.2
 Total Depth 3319 Chlorides 2000 ppm System LCM 2

Blow Description IF: 2" blow in 1 min. 5" in 5 min. BOB in 15 min
FSI: NO RETURN
FF: 2" blow in 3 min 5" in 9 min. BOB in 21 min
FSI: NO RETURN

Rec	Feet of	%gas	%oil	%water	%mud
<u>225</u>	<u>Feet of BMW</u>				
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 225 BHT 89° Gravity _____ API RW .195 @ 38° F Chlorides 76000 ppm
 (A) Initial Hydrostatic 1472 Test ← 1150 T-On Location 14:05
 (B) First Initial Flow 23 Jars _____ T-Started 16:27
 (C) First Final Flow 73 Safety Joint _____ T-Open 17:44
 (D) Initial Shut-In 738 Circ Sub _____ T-Pulled 19:44
 (E) Second Initial Flow 77 Hourly Standby _____ T-Out 21:40
 (F) Second Final Flow 123 Mileage ← 66 RT 102.30 Comments _____
 (G) Final Shut-In 732 Sampler _____
 (H) Final Hydrostatic 1435 Straddle ← 600 Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Extra Recorder _____ Sub Total 0
 Day Standby _____ Total 1852.30
 Accessibility _____ MP/DST Disc't _____

Initial Open 30
 Initial Shut-In 30
 Final Flow 30
 Final Shut-In 30
 Sub Total 1852.30

Approved By _____ Our Representative [Signature]

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 54883

Well Name & No. Big Canyon Ranch #1 Test No. 6 Date 12-31-13
 Company Prospect oil & Gas Elevation 1789 KB 1782 GL
 Address PO Box 837 Russell Ks. 67665+0837
 Co. Rep / Geo. BRAD HUTCHINSON Rig Royal #2
 Location: Sec. 4 Twp. 13S Rge. 14W Co. Russell State Ks

Interval Tested 2995-3015 Zone Tested LKC "C"
 Anchor Length 20 Drill Pipe Run 3005 Mud Wt. 9.0
 Top Packer Depth 2995 Drill Collars Run 0 Vis 49
 Bottom Packer Depth 3015 Wt. Pipe Run 0 WL 7.2
 Total Depth 3319 Chlorides 2000 ppm System LCM 2
 Blow Description IF: 2" in 3min, 5" in 8min. BOB in 18min
ISI: NO RETURN
FF: 2" in 4min, 5" in 9min. BOB in 19min
FSI: NO RETURN

Rec	Feet of	%gas	%oil	%water	%mud
<u>20</u>	<u>60</u>				
<u>155</u>	<u>MGW</u>				
	<u>BIP=200'</u>				

Rec Total 175 BHT 89° Gravity _____ API RW 219 @ 40 °F Chlorides 77000 ppm

(A) Initial Hydrostatic <u>1494</u>	<input checked="" type="checkbox"/> Test ← <u>1150</u>	T-On Location <u>02:00</u>
(B) First Initial Flow <u>20</u>	<input type="checkbox"/> Jars _____	T-Started <u>03:03</u>
(C) First Final Flow <u>57</u>	<input type="checkbox"/> Safety Joint _____	T-Open <u>04:55</u>
(D) Initial Shut-In <u>751</u>	<input type="checkbox"/> Circ Sub _____	T-Pulled <u>07:25</u>
(E) Second Initial Flow <u>61</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>10:12</u>
(F) Second Final Flow <u>93</u>	<input checked="" type="checkbox"/> Mileage ← _____	Comments _____
(G) Final Shut-In <u>747</u>	<input type="checkbox"/> Sampler _____	
(H) Final Hydrostatic <u>1480</u>	<input checked="" type="checkbox"/> Straddle ← <u>600</u>	<input type="checkbox"/> Ruined Shale Packer _____
	<input type="checkbox"/> Shale Packer _____	<input type="checkbox"/> Ruined Packer _____
Initial Open <u>45</u>	<input type="checkbox"/> Extra Packer _____	<input type="checkbox"/> Extra Copies _____
Initial Shut-In <u>30</u>	<input type="checkbox"/> Extra Recorder _____	Sub Total <u>0</u>
Final Flow <u>45</u>	<input type="checkbox"/> Day Standby _____	Total <u>1750</u>
Final Shut-In <u>30</u>	<input type="checkbox"/> Accessibility _____	MP/DST Disc't _____
	Sub Total <u>1750</u>	

Approved By _____ Our Representative Ordy Cu

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