

Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1242806
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: _____

1242806

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 <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 List All E. Logs Run: _____	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum
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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
<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: <input type="checkbox"/> Yes <input type="checkbox"/> No
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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. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Landmark Resources, Inc.
Well Name	Rose 1-4
Doc ID	1242806

All Electric Logs Run

Microresistivity Log
Dual Compensated Porosity Log
Dual Induction Log
Gamma Ray/Caliper Log

Form	ACO1 - Well Completion
Operator	Landmark Resources, Inc.
Well Name	Rose 1-4
Doc ID	1242806

Tops

Name	Top	Datum
Anhydrite	2460	681
B/Anhydrite	2476	665
Topeka	3766	-625
Heebner	4005	-864
Toronto	4022	-881
Lansing	4048	-907
C	4091	-950
D	4105	-964
E	4155	-1014
F	4168	-1027
G	4182	-1041
Muncie Creek	4234	-1093
H	4247	-1106
I	4276	-1135
J	4310	-1169
Stark Shale	4339	-1198
K	4352	-1211
L	4394	-1253
BKC	4428	-1287
Marmaton	4486	-1345
Altamont	4498	-1357
Pawnee	4570	-1429
Myrick Station	4596	-1455
Fort Scott	4612	-1471

Form	ACO1 - Well Completion
Operator	Landmark Resources, Inc.
Well Name	Rose 1-4
Doc ID	1242806

Tops

Name	Top	Datum
Cherokee	4639	-1498
Johnson Zone	4687	-1546
Morrow Shale	4772	-1631
Up Morrow Sd	4835	-1694
Missippian	4848	-1707



PO Box 93999
Southlake, TX 76092

Voice: (817) 546-7282
Fax: (817) 246-3361

INVOICE

Invoice Number: 147789
Invoice Date: Dec 19, 2014
Page: 1

Federal Tax I.D.#: 20-8651475

Bill To:
Landmark Resources, Inc. 1616 S. Voss Suite 600 Houston, TX 77057-1264

Customer ID	Field Ticket #	Payment Terms	
Land	64844	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-03	Oakley	Dec 19, 2014	1/18/15

Quantity	Item	Description	Unit Price	Amount
1.00	WELL NAME	Rose #1-4		
290.00	CEMENT MATERIALS	Light Weight	18.92	5,486.80
73.00	CEMENT MATERIALS	Flo Seal	2.97	216.81
311.46	CEMENT SERVICE	Cubic Feet Charge	2.48	772.42
585.45	CEMENT SERVICE	Ton Mileage Charge	2.75	1,609.99
1.00	CEMENT SERVICE	Plug to Abandon	2,483.59	2,483.59
45.00	CEMENT SERVICE	Pump Truck Mileage	7.70	346.50
45.00	CEMENT SERVICE	Light Vehicle Mileage	4.40	198.00
1.00	CEMENT SUPERVISOR	Paul Beaver		
1.00	EQUIPMENT OPERATOR	Tyler Flipse		
1.00	OPERATOR ASSISTANT	Shawn Tatro		

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0**
12,019.91+
3,111.95-
8,907.96*+

Subtotal	11,114.11
Sales Tax	905.80
Total In	12,019.91
Payment Applied	
TOTAL	12,019.91

ALL PRICES ARE NET, PAYABLE
30 DAYS FOLLOWING DATE OF
INVOICE. 1 1/2% CHARGED
THEREAFTER. IF ACCOUNT IS
CURRENT, TAKE DISCOUNT OF

\$ 3,111.95

ONLY IF PAID ON OR BEFORE
Jan 18, 2015

ALLIED OIL & GAS SERVICES, LLC 064844

Federal Tax I.D. # 20-8651475

REMIT TO P.O. BOX 93999
SOUTHLAKE, TEXAS 76092

SERVICE POINT: Dakky KS

DATE <u>12-19-14</u>	SEC. <u>4</u>	TWP. <u>17</u>	RANGE <u>34</u>	CALLED OUT	ON LOCATION <u>4:00a.m.</u>	JOB START <u>7:30a.m.</u>	JOB FINISH <u>8:30a.m.</u>
LEASE <u>Rose</u>	WELL # <u>1-4</u>	LOCATION <u>Pence 3 1/2 S Winta</u>	COUNTY <u>Scott</u>	STATE <u>KS</u>			
OLD OR <u>NEW</u> (Circle one)							

CONTRACTOR Val I
 TYPE OF JOB PTA
 HOLE SIZE 7 7/8 I.D. 4905'
 CASING SIZE _____ DEPTH _____
 TUBING SIZE _____ DEPTH _____
 DRILL PIPE 4 1/2 DEPTH 2490'
 TOOL _____ DEPTH _____
 PRES. MAX _____ MINIMUM _____
 MEAS. LINE _____ SHOE JOINT _____
 CEMENT LEFT IN CSG. _____
 PERFS. _____
 DISPLACEMENT 5 bbls @ 23 bbl mud
 EQUIPMENT _____

OWNER Same
 CEMENT AMOUNT ORDERED 290 sks Lite
(60/40/4) 1/4 # Flo-seal
 COMMON _____ @ _____
 POZMIX _____ @ _____
 GEL _____ @ _____
 CHLORIDE _____ @ _____
 ASC _____ @ _____
Lite (60/40/4) 290 sks @ 18.92 5486.80
Flo-seal 73 # @ 2.97 216.81
 Material Total @ _____ 5,703.61
(1597.01/28%)
 HANDLING 311.46 ft³ @ 2.48 772.42
 MILEAGE 13,01 tons x 45 mi @ 2.75 1609.99
 TOTAL _____

PUMP TRUCK CEMENTER Paul Beaver
 # 60 HELPER Tyler Flipse / Juan 3
 BULK TRUCK DRIVER Shawn Tatro
 # 891/310
 BULK TRUCK DRIVER _____
 # _____

REMARKS:

mix 50 sks @ 2490' Displacement mud
mix 80 sks @ 1560' Displacement water
mix 50 sks @ 750' Displacement water
mix 40 sks @ 300'
mix 20 sks @ 60'
mix 30 sks in R.H
mix 20 sks in m.H

Thank You Paul + Crew

CHARGE TO: Landmark Resources
 STREET _____
 CITY _____ STATE _____ ZIP _____

SERVICE
 DEPTH OF JOB 2490'
 PUMP TRUCK CHARGE 2483.59
 EXTRA FOOTAGE @ _____
 MILEAGE m.H 45 @ 7.70 346.50
 MANIFOLD @ _____
MILV 45 @ 4.46 198.00
(1514.94/28%) TOTAL 5,410.50

PLUG & FLOAT EQUIPMENT

 @ _____
 @ _____
 @ _____
 @ _____
 @ _____
 TOTAL _____

To: Allied Oil & Gas Services, 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 Michael Steyer
 SIGNATURE [Signature]

SALES TAX (If Any) _____
 TOTAL CHARGES 11,114.11
 DISCOUNT 3,111.95 (31%) IF PAID IN 30 DAYS
8,002.16 Net.



PO Box 93999
Southlake, TX 76092

Voice: (817) 546-7282
Fax: (817) 246-3361

PAID

PAID DEC 23 2014
CK# 47418
\$5,039.31

71730

INVOICE

Invoice Number: 147612
Invoice Date: Dec 10, 2014
Page: 1

Federal Tax I.D.#: 20-8651475

Bill To:
Landmark Resources, Inc.
1616 S. Voss
Suite 600
Houston, TX 77057-1264

APPROVED DEC 18 2014

Customer ID	Field Ticket #	Payment Terms	
Land	64836	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-01	Oakley	Dec 10, 2014	1/9/15

Quantity	Item	Description	Unit Price	Amount
1.00	WELL NAME	Rose #1-4	17.90	3,132.50
175.00	CEMENT MATERIALS	Class A Common	1.10	543.40
494.00	CEMENT MATERIALS	Chloride	2.48	458.23
184.77	CEMENT SERVICE	Cubic Feet Charge	2.75	1,164.90
423.60	CEMENT SERVICE	Ton Mileage Charge	1,512.25	1,512.25
1.00	CEMENT SERVICE	Surface	7.70	385.00
50.00	CEMENT SERVICE	Pump Truck Mileage	4.40	220.00
50.00	CEMENT SERVICE	Light Vehicle Mileage		
1.00	CEMENT SUPERVISOR	Paul Beaver		
1.00	EQUIPMENT OPERATOR	Tyler Flipse		
1.00	OPERATOR ASSISTANT	Daniel Casper		
			0 * *	
			7,715.87 +	
			2,676.56 -	
			000	

Subtotal	7,416.28
Sales Tax	299.59
Total Invoice Amount	7,715.87
Payment/Credit Applied	
TOTAL	7,715.87

ALL PRICES ARE NET, PAYABLE
30 DAYS FOLLOWING DATE OF
INVOICE. 1 1/2% CHARGED
THEREAFTER. IF ACCOUNT IS
CURRENT, TAKE DISCOUNT OF

\$ 2,676.56

ONLY IF PAID ON OR BEFORE
Jan 9, 2015

ALLIED OIL & GAS SERVICES, LLC 064836

Federal Tax I.D. # 20-8651475

REMIT TO P.O. BOX 93999
SOUTHLAKE, TEXAS 76092

SERVICE POINT: Oakley ks

DATE <u>2-10-14</u>	SEC. <u>4</u>	TWR <u>175</u>	RANGE <u>34w</u>	CALLED OUT	ON LOCATION <u>2:00 a.m.</u>	JOB START <u>5:00 a.m.</u>	JOB FINISH <u>5:30 a.m.</u>
LEASE <u>Rose</u>		WELL# <u>1-4</u>	LOCATION <u>Pence 3 1/2 S, Winto</u>		COUNTY <u>Scott</u>	STATE <u>KS</u>	
OLD OR <input checked="" type="checkbox"/> NEW (Circle one)							

CONTRACTOR Val 4 OWNER Same

TYPE OF JOB Surface

HOLE SIZE 12 1/4 T.D. 254' CEMENT 175

CASING SIZE 8 5/8 DEPTH 265' AMOUNT ORDERED 175 sks Com

TUBING SIZE DEPTH 3' CC

DRILL PIPE DEPTH

TOOL DEPTH

PRES. MAX MINIMUM COMMON 175 sks @ 17.90 = 3132.50

MEAS. LINE SHOE JOINT POZMIX @

CEMENT LEFT IN CSG. 1.5' GEL @

PERFS. CHLORIDE 1194 # @ 1.10 = 543.40

DISPLACEMENT 15.93 bbl H₂O ASC @

EQUIPMENT

PUMP TRUCK CEMENTER Paul Beaver MATERIAL TOTAL @ 3,675.90

120 HELPER Myr Flipse/Anthony (1029.26/20%) @

BULK TRUCK # 609/239 DRIVER Dan Casper @

BULK TRUCK # DRIVER @

HANDLING 184.77 cu ft @ 2.48 = 458.24

MILEAGE \$1.472 10.58 X 50 X 2.32 = 1164.40

TOTAL

REMARKS:

mix sks

Displace w/ water

cement did etc

SERVICE

DEPTH OF JOB 265'

PUMP TRUCK CHARGE 1512.25

EXTRA FOOTAGE @

MILEAGE m14V 50mi @ 7.28 = 385.20

MANIFOLD @

m1LV 50mi @ 4.40 = 220.00

TOTAL 3,740.39

CHARGE TO: Landmark Resources

STREET

CITY STATE ZIP

BID

PLUG & FLOAT EQUIPMENT

@
@
@
@
@

TOTAL

To: Allied Oil & Gas Services, 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 7,416.29

DISCOUNT 2,676.56 (28%) IF PAID IN 30 DAYS

5,339.72 Net.

PRINTED NAME Walter Porce II

SIGNATURE [Signature]

Bid



DRILL STEM TEST REPORT

Prepared For: **Landmark Resources LLC**

1616 S Voss Rd ste 600
Houston, TX 77057

ATTN: Terry McLeod

Ross #1-4

4-17s-34w Scott,KS

Start Date: 2014.12.16 @ 12:25:39

End Date: 2014.12.16 @ 19:52:39

Job Ticket #: 59675 DST #: 1

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2014.12.19 @ 16:25:28



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Landmark Resources LLC

4-17s-34w Scott,KS

1616 S Voss Rd ste 600
Houston, TX 77057

Ross #1-4

Job Ticket: 59675

DST#: 1

ATTN: Terry McLeod

Test Start: 2014.12.16 @ 12:25:39

GENERAL INFORMATION:

Formation: **Marmaton- Pawnee**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:34:09

Time Test Ended: 19:52:39

Test Type: Conventional Bottom Hole (Initial)

Tester: Brandon Turley

Unit No: 79

Interval: 4458.00 ft (KB) To 4595.00 ft (KB) (TVD)

Reference Elevations: 3141.00 ft (KB)

Total Depth: 4595.00 ft (KB) (TVD)

3131.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

Serial #: 8166 Outside

Press@RunDepth: 92.61 psig @ 4463.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.12.16

End Date:

2014.12.16

Last Calib.:

2014.12.16

Start Time: 12:25:44

End Time:

19:52:38

Time On Btm:

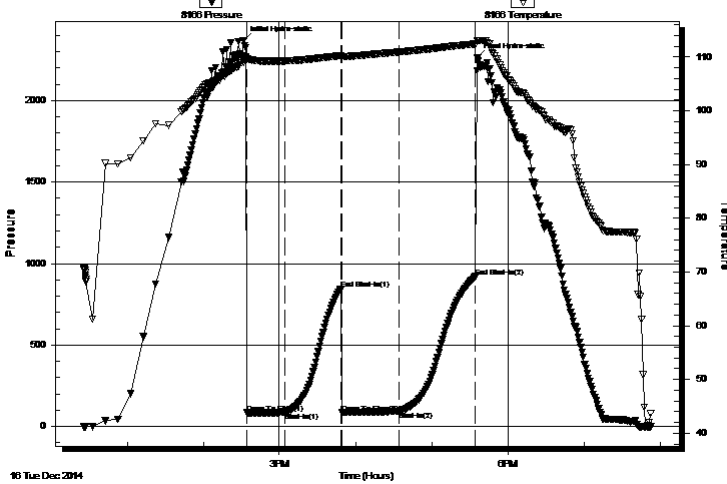
2014.12.16 @ 14:31:39

Time Off Btm:

2014.12.16 @ 17:36:09

TEST COMMENT: IF: 1/4" blow built to 2" in 30 min.
IS: No return.
FF: 1/4" blow built to 3" in 45 min.
FS: No return.

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2368.83	109.03	Initial Hydro-static
3	84.23	109.58	Open To Flow (1)
33	85.81	109.28	Shut-In(1)
77	845.13	110.27	End Shut-In(1)
78	84.67	110.09	Open To Flow (2)
123	92.61	110.95	Shut-In(2)
183	920.23	112.44	End Shut-In(2)
185	2261.99	113.08	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
40.00	ocm 10%o 90%m	0.56
0.00	62 GIP	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Landmark Resources LLC

4-17s-34w Scott,KS

1616 S Voss Rd ste 600
Houston, TX 77057

Ross #1-4

Job Ticket: 59675

DST#: 1

ATTN: Terry McLeod

Test Start: 2014.12.16 @ 12:25:39

GENERAL INFORMATION:

Formation: **Marmaton- Pawnee**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:34:09

Time Test Ended: 19:52:39

Test Type: Conventional Bottom Hole (Initial)

Tester: Brandon Turley

Unit No: 79

Interval: **4458.00 ft (KB) To 4595.00 ft (KB) (TVD)**

Reference Elevations: 3141.00 ft (KB)

Total Depth: 4595.00 ft (KB) (TVD)

3131.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

Serial #: 8373 Inside

Press@RunDepth: psig @ 4463.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.12.16

End Date:

2014.12.16

Last Calib.:

2014.12.16

Start Time: 12:25:51

End Time:

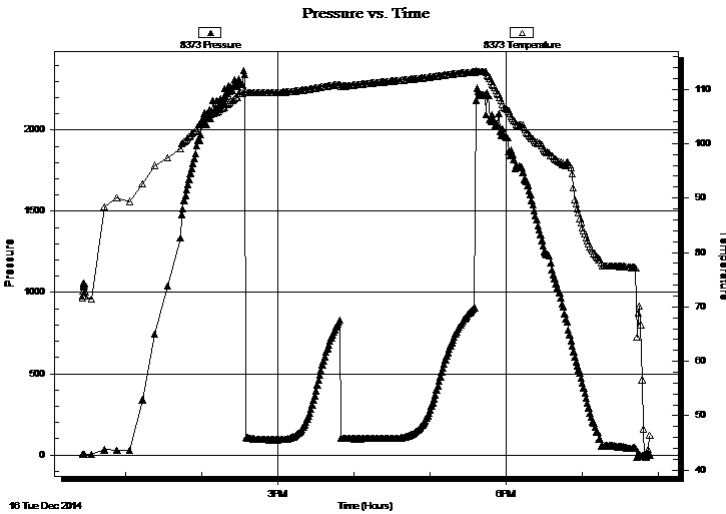
19:53:15

Time On Btm:

Time Off Btm:

TEST COMMENT: IF: 1/4" blow built to 2" in 30 min.
IS: No return.
FF: 1/4" blow built to 3" in 45 min.
FS: No return.

PRESSURE SUMMARY



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

Recovery

Length (ft)	Description	Volume (bbl)
40.00	ocm 10%o 90%m	0.56
0.00	62 GIP	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Landmark Resources LLC

4-17s-34w Scott,KS

1616 S Voss Rd ste 600
Houston, TX 77057

Ross #1-4

Job Ticket: 59675

DST#: 1

ATTN: Terry McLeod

Test Start: 2014.12.16 @ 12:25:39

Tool Information

Drill Pipe:	Length: 4444.00 ft	Diameter: 3.80 inches	Volume: 62.34 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 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: 90000.00 lb
			<u>Total Volume: 62.34 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	4.00 ft			String Weight: Initial 78000.00 lb
Depth to Top Packer:	4458.00 ft			Final 78000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	141.00 ft			
Tool Length:	159.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Stubb	1.00			4441.00	
Shut In Tool	5.00			4446.00	
Hydraulic tool	5.00			4451.00	
Safety Joint	2.00			4453.00	
Packer	5.00			4458.00	18.00 Bottom Of Top Packer
Packer - Shale	4.00			4462.00	
Stubb	1.00			4463.00	
Recorder	0.00	8373	Inside	4463.00	
Recorder	0.00	8166	Outside	4463.00	
Perforations	3.00			4466.00	
Change Over Sub	1.00			4467.00	
Drill Pipe	126.00			4593.00	
Change Over Sub	1.00			4594.00	
Bullnose	5.00			4599.00	141.00 Anchor Tool

Total Tool Length: 159.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Landmark Resources LLC

4-17s-34w Scott,KS

1616 S Voss Rd ste 600
Houston, TX 77057

Ross #1-4

Job Ticket: 59675

DST#: 1

ATTN: Terry McLeod

Test Start: 2014.12.16 @ 12:25:39

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 53.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.79 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 6100.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
40.00	ocm 10%o 90%m	0.561
0.00	62 GIP	0.000

Total Length: 40.00 ft Total Volume: 0.561 bbl

Num Fluid Samples: 0

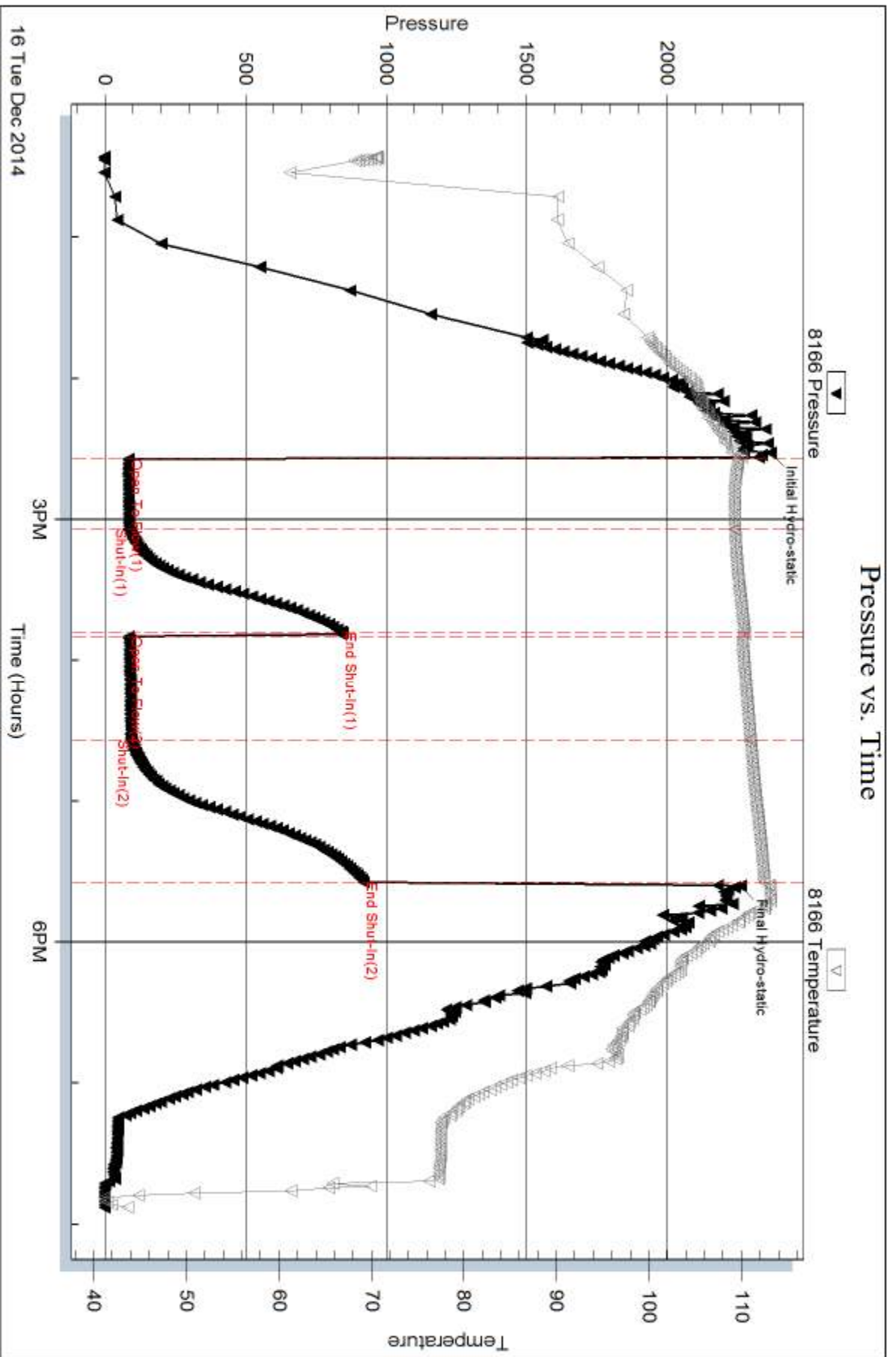
Num Gas Bombs: 0

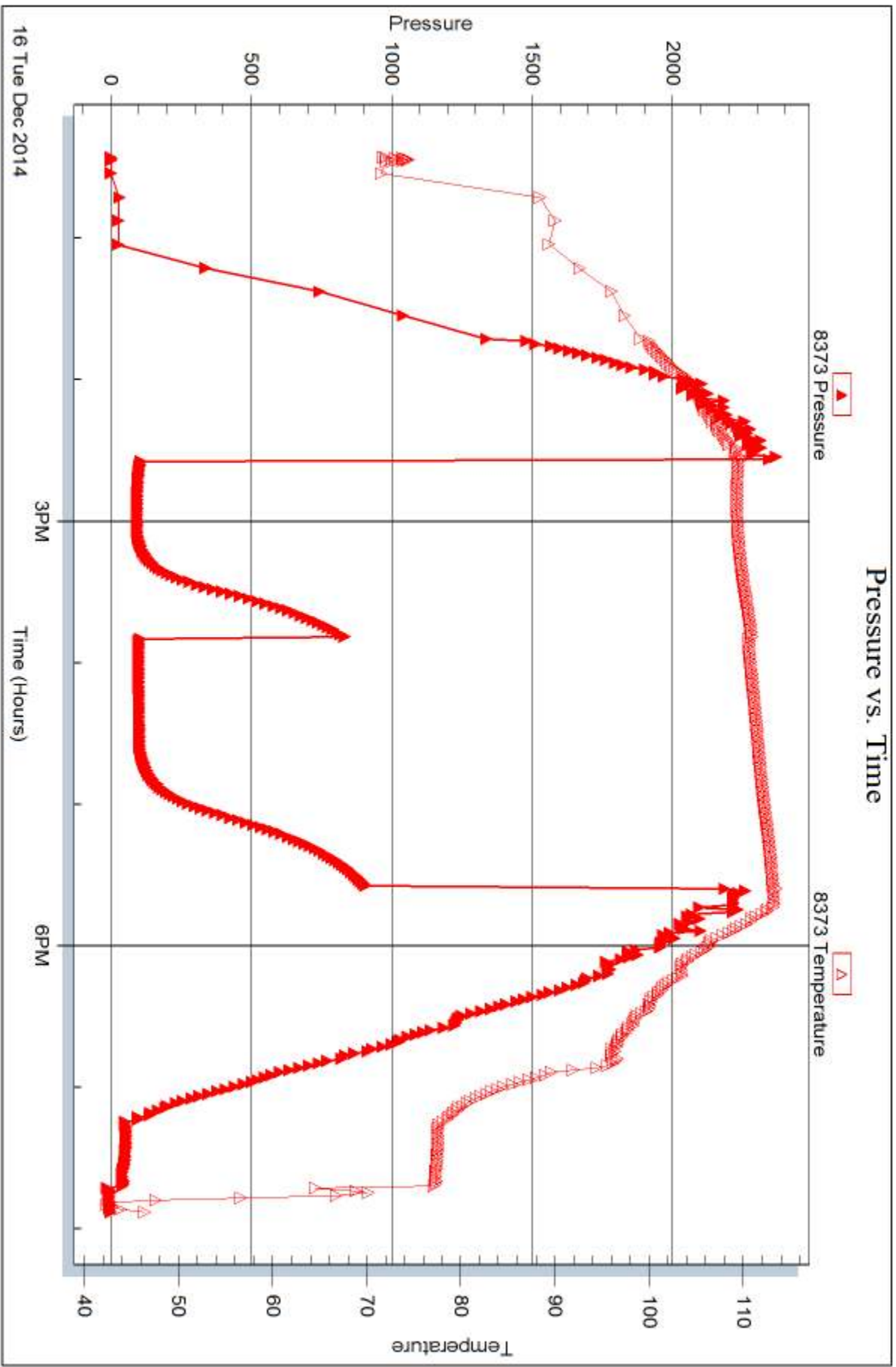
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







DRILL STEM TEST REPORT

Prepared For: **Landmark Resources LLC**

1616 S Voss Rd ste 600
Houston, TX 77057

ATTN: Terry McLeod

Ross #1-4

4-17s-34w Scott,KS

Start Date: 2014.12.18 @ 12:26:46

End Date: 2014.12.18 @ 18:52:46

Job Ticket #: 59676 DST #: 2

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2014.12.19 @ 16:24:52



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Landmark Resources LLC

4-17s-34w Scott,KS

1616 S Voss Rd ste 600
Houston, TX 77057

Ross #1-4

Job Ticket: 59676

DST#: 2

ATTN: Terry McLeod

Test Start: 2014.12.18 @ 12:26:46

GENERAL INFORMATION:

Formation: **Johnson**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:26:16

Time Test Ended: 18:52:46

Test Type: Conventional Bottom Hole (Reset)

Tester: Brandon Turley

Unit No: 79

Interval: 4731.00 ft (KB) To 4757.00 ft (KB) (TVD)

Reference Elevations: 3141.00 ft (KB)

Total Depth: 4906.00 ft (KB) (TVD)

3131.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

Serial #: 8166 Outside

Press@RunDepth: 15.10 psig @ 4732.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.12.18

End Date:

2014.12.18

Last Calib.:

2014.12.18

Start Time: 12:26:51

End Time:

18:52:45

Time On Btm:

2014.12.18 @ 14:23:46

Time Off Btm:

2014.12.18 @ 16:28:16

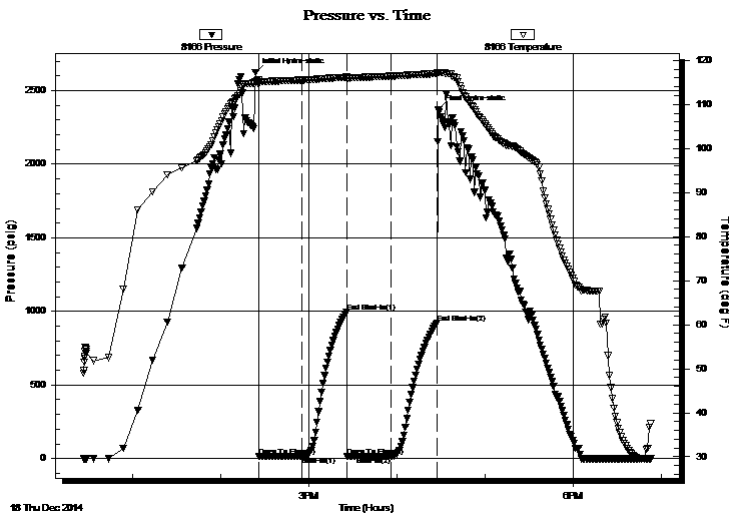
TEST COMMENT: IF: Weak surface blow died in 3 min.

IS: No return.

FF: No blow.

FS: No return.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2623.56	115.07	Initial Hydro-static
3	15.35	115.01	Open To Flow (1)
32	16.05	115.52	Shut-In(1)
62	994.52	116.18	End Shut-In(1)
63	16.19	115.71	Open To Flow (2)
92	15.10	116.42	Shut-In(2)
124	921.24	116.96	End Shut-In(2)
125	2371.87	117.26	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	mud 100%m	0.07

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Landmark Resources LLC

1616 S Voss Rd ste 600
Houston, TX 77057

ATTN: Terry McLeod

4-17s-34w Scott,KS

Ross #1-4

Job Ticket: 59676

DST#: 2

Test Start: 2014.12.18 @ 12:26:46

GENERAL INFORMATION:

Formation: **Johnson**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:26:16

Time Test Ended: 18:52:46

Interval: 4731.00 ft (KB) To 4757.00 ft (KB) (TVD)

Total Depth: 4906.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Test Type: Conventional Bottom Hole (Reset)

Tester: Brandon Turley

Unit No: 79

Reference Elevations: 3141.00 ft (KB)

3131.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 8373 Inside

Press@RunDepth: psig @ 4732.00 ft (KB)

Start Date: 2014.12.18 End Date: 2014.12.18

Start Time: 12:26:09 End Time: 18:52:33

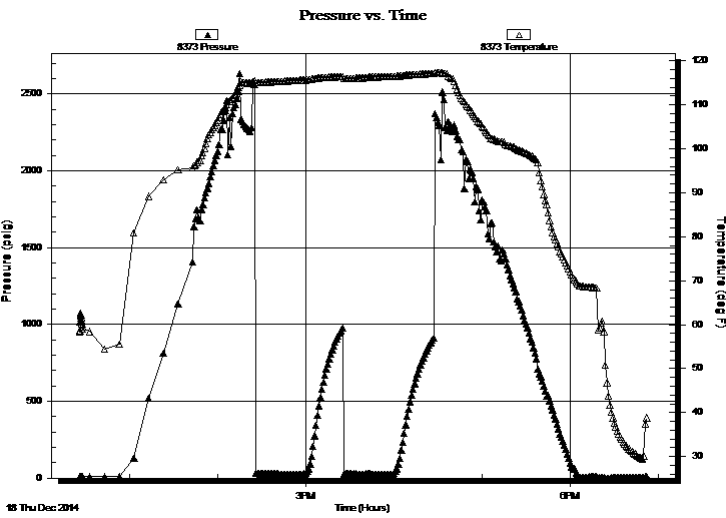
Capacity: 8000.00 psig

Last Calib.: 2014.12.18

Time On Btm:

Time Off Btm:

TEST COMMENT: IF: Weak surface blow died in 3 min.
IS: No return.
FF: No blow.
FS: No return.



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
5.00	mud 100%m	0.07

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Landmark Resources LLC

4-17s-34w Scott,KS

1616 S Voss Rd ste 600
Houston, TX 77057

Ross #1-4

Job Ticket: 59676

DST#: 2

ATTN: Terry McLeod

Test Start: 2014.12.18 @ 12:26:46

GENERAL INFORMATION:

Formation: **Johnson**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:26:16

Time Test Ended: 18:52:46

Interval: 4731.00 ft (KB) To 4757.00 ft (KB) (TVD)

Total Depth: 4906.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Test Type: Conventional Bottom Hole (Reset)

Tester: Brandon Turley

Unit No: 79

Reference Elevations: 3141.00 ft (KB)

3131.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 8360 Below (Straddle)

Press@RunDepth: psig @ 4900.00 ft (KB)

Start Date: 2014.12.18

End Date:

2014.12.18

Start Time: 12:26:50

End Time:

18:53:14

Capacity: 8000.00 psig

Last Calib.: 2014.12.18

Time On Btm:

Time Off Btm:

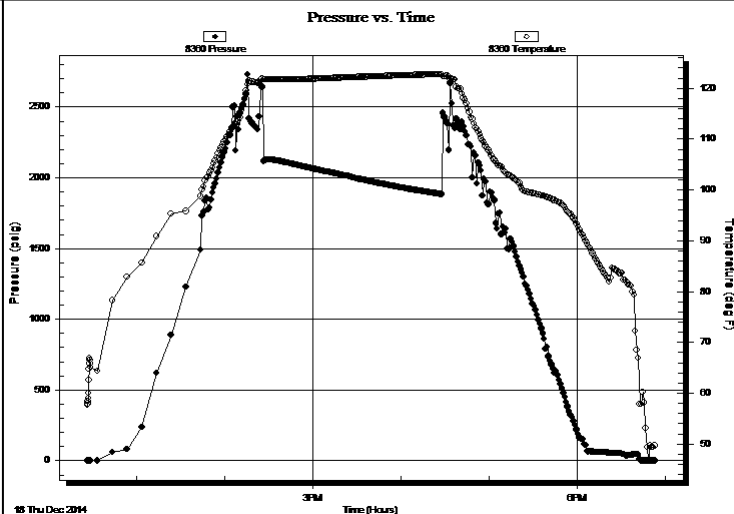
TEST COMMENT: IF: Weak surface blow died in 3 min.

IS: No return.

FF: No blow.

FS: No return.

PRESSURE SUMMARY



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

Recovery

Length (ft)	Description	Volume (bbl)
5.00	mud 100%m	0.07

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Landmark Resources LLC

4-17s-34w Scott,KS

1616 S Voss Rd ste 600
Houston, TX 77057

Ross #1-4

Job Ticket: 59676

DST#: 2

ATTN: Terry McLeod

Test Start: 2014.12.18 @ 12:26:46

Tool Information

Drill Pipe:	Length: 4726.00 ft	Diameter: 3.80 inches	Volume: 66.29 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 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: 95000.00 lb
			<u>Total Volume: 66.29 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	17.00 ft			String Weight: Initial 86000.00 lb
Depth to Top Packer:	4731.00 ft			Final 86000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	175.00 ft			
Tool Length:	197.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Stubb	1.00			4710.00	
Shut In Tool	5.00			4715.00	
Hydraulic tool	5.00			4720.00	
Safety Joint	2.00			4722.00	
Packer	5.00			4727.00	22.00 Bottom Of Top Packer
Packer	4.00			4731.00	
Stubb	1.00			4732.00	
Recorder	0.00	8373	Inside	4732.00	
Recorder	0.00	8166	Outside	4732.00	
Perforations	20.00			4752.00	
Blank Off Sub	1.00			4753.00	
Packer - Shale	4.00			4757.00	
Stubb	1.00			4758.00	
Jars	14.00			4772.00	
Change Over Sub	1.00			4773.00	
Drill Pipe	127.00			4900.00	
Recorder	0.00	8360	Below	4900.00	
Change Over Sub	1.00			4901.00	
Bullnose	5.00			4906.00	175.00 Bottom Packers & Anchor

Total Tool Length: 197.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Landmark Resources LLC

4-17s-34w Scott,KS

1616 S Voss Rd ste 600
Houston, TX 77057

Ross #1-4

Job Ticket: 59676

DST#: 2

ATTN: Terry McLeod

Test Start: 2014.12.18 @ 12:26:46

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 51.00 sec/qt

Cushion Volume:

bbl

Water Loss: 8.79 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 7300.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	mud 100%m	0.070

Total Length: 5.00 ft Total Volume: 0.070 bbl

Num Fluid Samples: 0

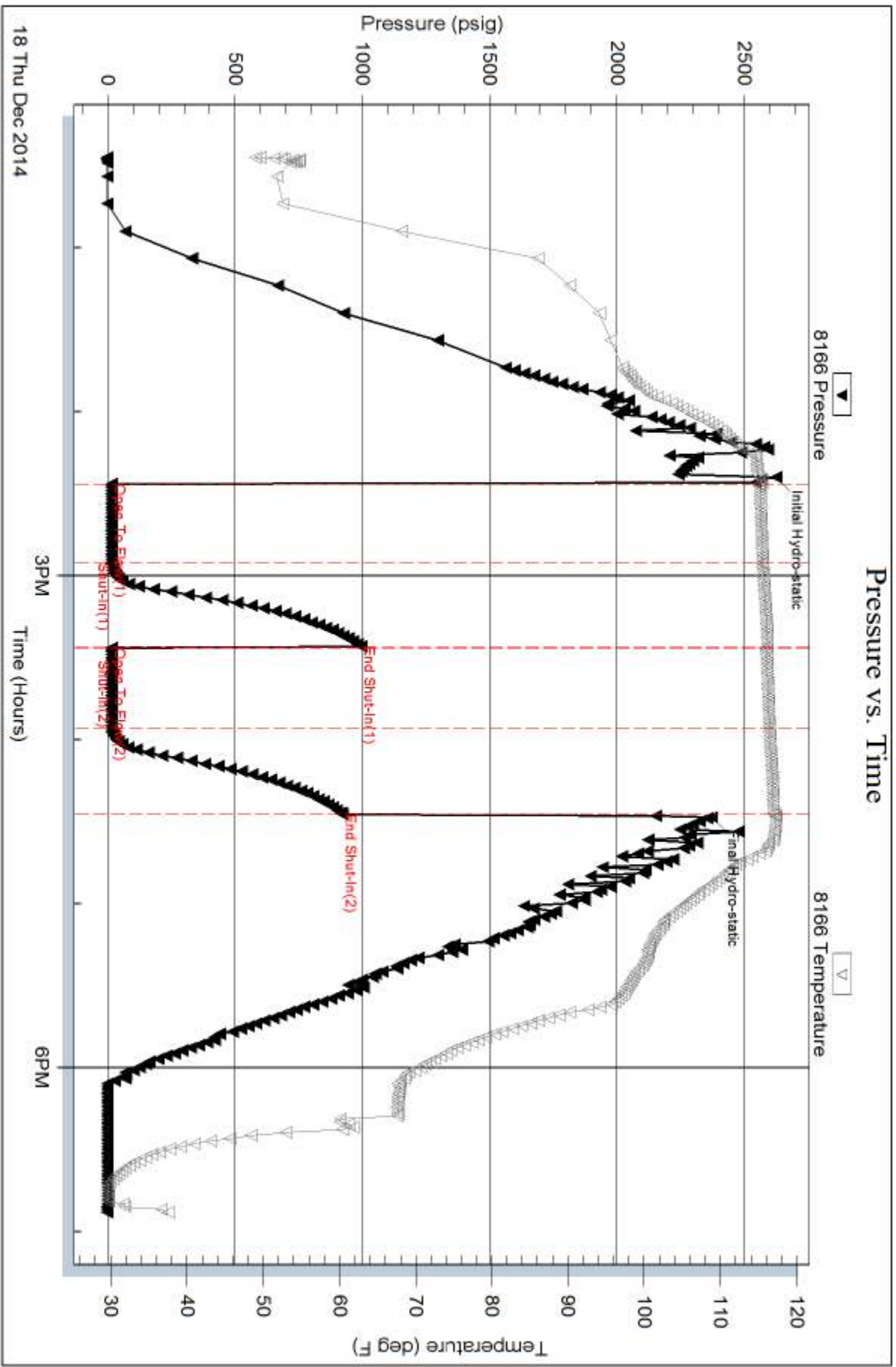
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



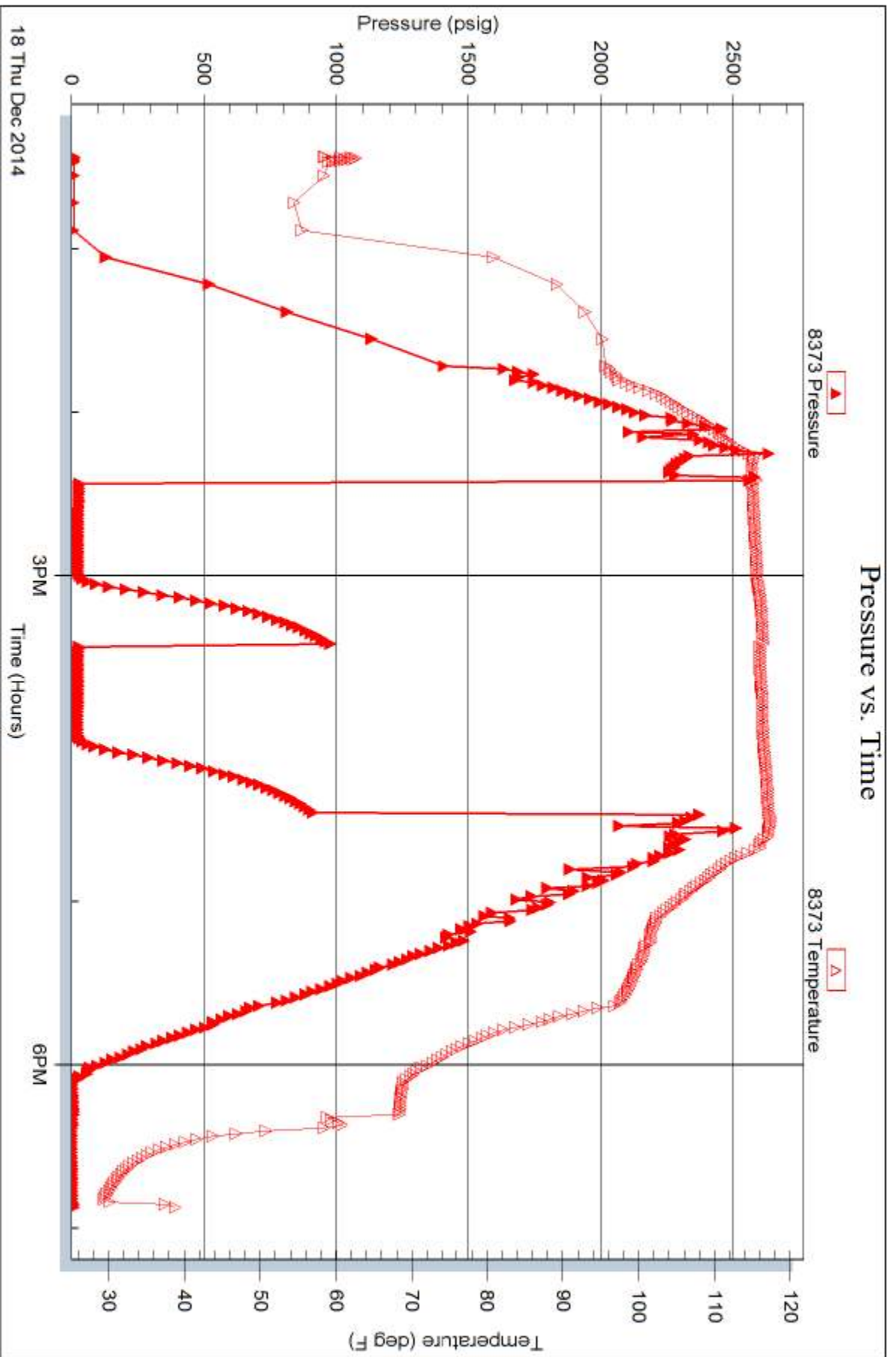
Serial #: 8373

Inside

Landmark Resources LLC

Ross #1-4

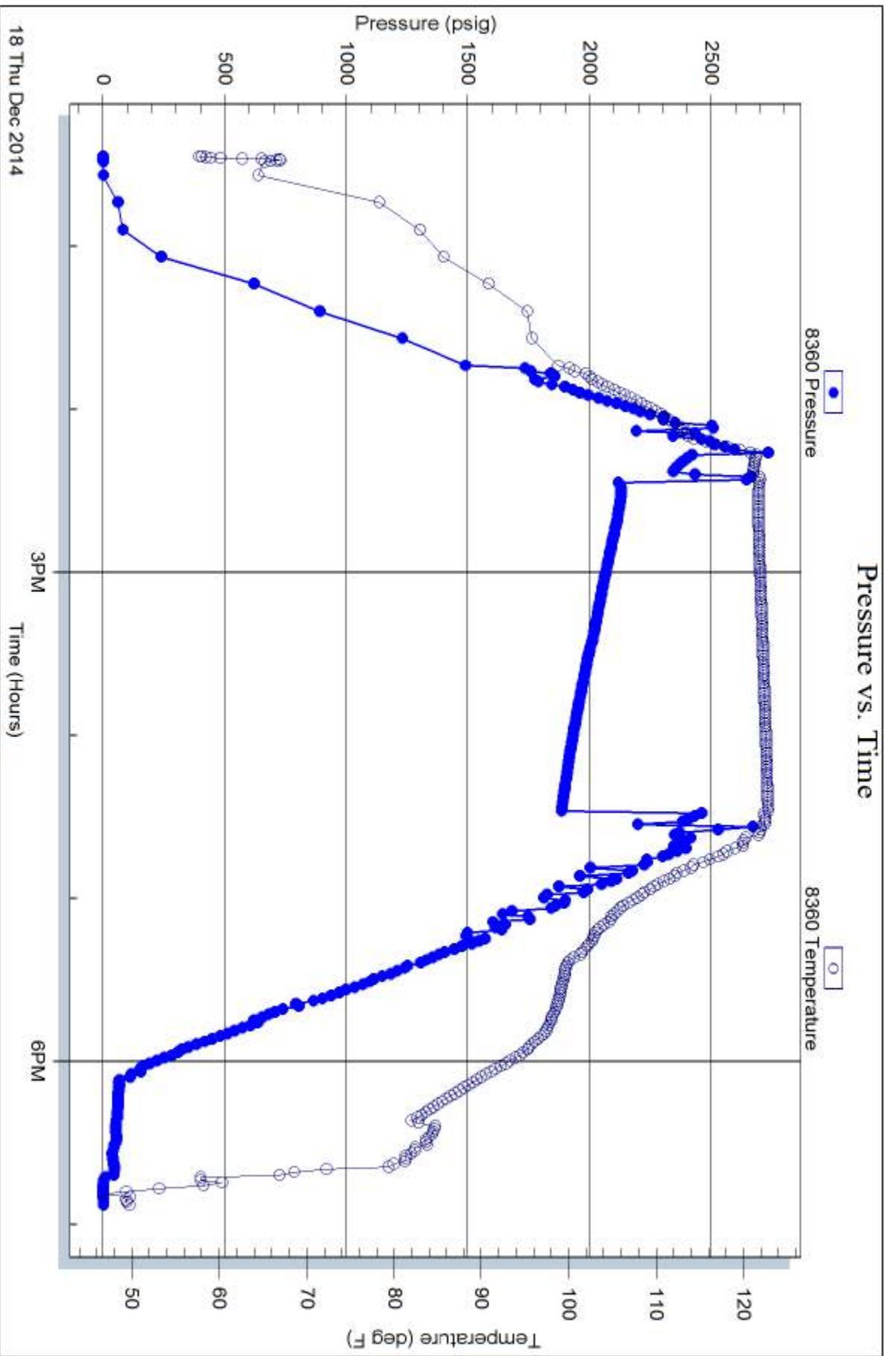
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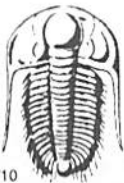
Trilobite Testing, Inc

Ref. No: 59676

Printed: 2014.12.19 @ 16:24:53



18 Thu Dec 2014



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 59675

Well Name & No. ROSS 1-4 Test No. 1 Date 12-16-14
 Company Landmarks Resources LLC Elevation 3141 KB 3131 GL
 Address 1416 S. VOSS Rd Ste 600 Houston, TX 77057
 Co. Rep / Geo. Terry McLeod Rig U#1 #1
 Location: Sec. 4 Twp. 17 Rge. 34 Co. Scott State KS

Interval Tested 4458 4595 Zone Tested marmaton - Pawnee
 Anchor Length 137 Drill Pipe Run 4444 Mud Wt. 9.4
 Top Packer Depth 4453 Drill Collars Run — Vis 53
 Bottom Packer Depth 4458 Wt. Pipe Run — WL 8.8
 Total Depth 4595 Chlorides 6100 ppm System LCM 1

Blow Description IF: 1/4 blow built to 2 in 30 min.
IS: No return.
FF: 1/4 blow built to 3 in 45 min.
FS: No return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>40</u>	<u>OCM</u>	<u>10</u>		<u>90</u>	
	<u>62 GIP</u>				

Rec Total 40 BHT 112 Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic 2358 Test 1250 T-On Location 11:15
 (B) First Initial Flow 84 Jars — T-Started 12:25
 (C) First Final Flow 85 Safety Joint 75 T-Open 14:34
 (D) Initial Shut-In 845 Circ Sub N/C T-Pulled 17:34
 (E) Second Initial Flow 84 Hourly Standby — T-Out 20:00
 (F) Second Final Flow 92 Mileage 42-X2 65.10 Comments catwalk
 (G) Final Shut-In 920 Sampler — 65.10 is Junk.
 (H) Final Hydrostatic 2261 Straddle —
 Ruined Shale Packer
 Ruined Packer
 Extra Copies

Initial Open 30 Shale Packer 250
 Initial Shut-In 45 Extra Packer —
 Final Flow 45 Extra Recorder —
 Final Shut-In 60 Day Standby —
 Accessibility —
 Sub Total 1705.20 MP/DST Disc't —

Approved By Terry McLeod 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.

785-650-8399



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 59676

Well Name & No. Ross 1-4 Test No. 2 Date 12-18-14
 Company Landmark Resources Elevation 3141 KB 3131 GL
 Address _____
 Co. Rep / Geo. Terry McLeod Rig U91 #1
 Location: Sec. 4 Twp. 17 Rge. 34 Co. Scott State KS

Interval Tested 4731 4757 Zone Tested Johnson
 Anchor Length 26 Drill Pipe Run 4726 Mud Wt. 9.4
 Top Packer Depth 4731 Drill Collars Run — Vis 51
 Bottom Packer Depth 4757 Wt. Pipe Run — WL 8.8
 Total Depth 4966 Chlorides 7300 ppm System LCM 1

Blow Description IF: weak surface blow died in 3 min.
IS: No return.
FF: No blow.
FS: No return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>5</u>	<u>mud</u>			<u>100</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 5 BHT 116 Gravity — API RW — @ — °F Chlorides — ppm
 (A) Initial Hydrostatic Test 1250 T-On Location 11:45
 (B) First Initial Flow Jars _____ T-Started 12:26
 (C) First Final Flow Safety Joint 75 T-Open 14:25
 (D) Initial Shut-In Circ Sub _____ T-Pulled 16:25
 (E) Second Initial Flow Hourly Standby _____ T-Out 18:52
 (F) Second Final Flow Mileage 42 65.10 Comments _____
 (G) Final Shut-In Sampler _____
 (H) Final Hydrostatic Straddle 600
 Shale Packer 250
 Extra Packer _____
 Extra Recorder _____
 Day Standby 1d 15.75h
 Accessibility _____
 Initial Open 30
 Initial Shut-In 30
 Final Flow 30
 Final Shut-In 30
 Sub Total 2240.10

Approved By Terry D. McLeod 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.