

Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1351045  
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: \_\_\_\_\_

1351045

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

<b>DISPOSITION OF GAS:</b> <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	<b>METHOD OF COMPLETION:</b> <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> _____	<b>PRODUCTION INTERVAL:</b> _____ _____
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Form	ACO1 - Well Completion
Operator	Production Drilling, Inc.
Well Name	ROXIE 1
Doc ID	1351045

All Electric Logs Run

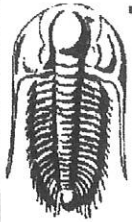
Dual Induction
Litho Density
Neutrom
Cement Bond Log

Form	ACO1 - Well Completion
Operator	Production Drilling, Inc.
Well Name	ROXIE 1
Doc ID	1351045

Tops

Name	Top	Datum
Topeka	2765	-878
Heebner	3054	-1167
Toronto	3063	-1176
Douglas Sh.	3076	-1189
Brown Lime	3140	-1253
Lans-KC	3150	-1263
Base-KC	3382	-1495
Arbuckle	3406	-1519





**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

ProductionDrilling, Inc.  
 1023 Reservation Rd.  
 Hays, KS 67601  
 ATTN: Adam Folk

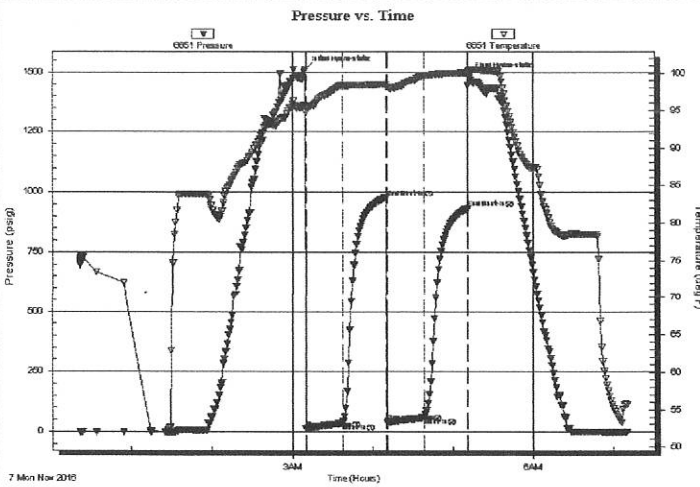
**32-18S-13W Barton, KS**  
**Roxie #1**  
 Job Ticket: 58203      **DST#: 1**  
 Test Start: 2016.11.07 @ 00:21:36

**GENERAL INFORMATION:**

Formation: **Lansing**  
 Deviated: No Whipstock: ft (KB)  
 Test Type: Conventional Bottom Hole (Initial)  
 Time Tool Opened: 03:10:06 Tester: Brannan Lonsdale  
 Time Test Ended: 07:10:36 Unit No: 73  
 Interval: **3139.00 ft (KB) To 3222.00 ft (KB) (TVD)** Reference Elevations: 1887.00 ft (KB)  
 Total Depth: 3222.00 ft (KB) (TVD) 1879.00 ft (CF)  
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 8.00 ft

**Serial #: 6651 Inside**  
 Press@RunDepth: 57.75 psig @ 3140.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2016.11.07 End Date: 2016.11.07 Last Calib.: 2016.11.07  
 Start Time: 00:21:36 End Time: 07:10:36 Time On Btm: 2016.11.07 @ 03:09:36  
 Time Off Btm: 2016.11.07 @ 05:11:36

TEST COMMENT: 30- IF- Slow ly built to .5"  
 30- IS- No blow  
 30- FF- Slow ly built to 1"  
 30- FS- No blow



PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1511.86	95.57	Initial Hydro-static
1	11.75	94.77	Open To Flow (1)
28	34.54	98.33	Shut-In(1)
61	977.29	98.50	End Shut-In(1)
62	38.20	98.11	Open To Flow (2)
89	57.75	99.67	Shut-In(2)
121	932.42	100.08	End Shut-In(2)
122	1485.14	100.33	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
90.00	Mw / show of oil in tool	0.66

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

Serial #: 6651

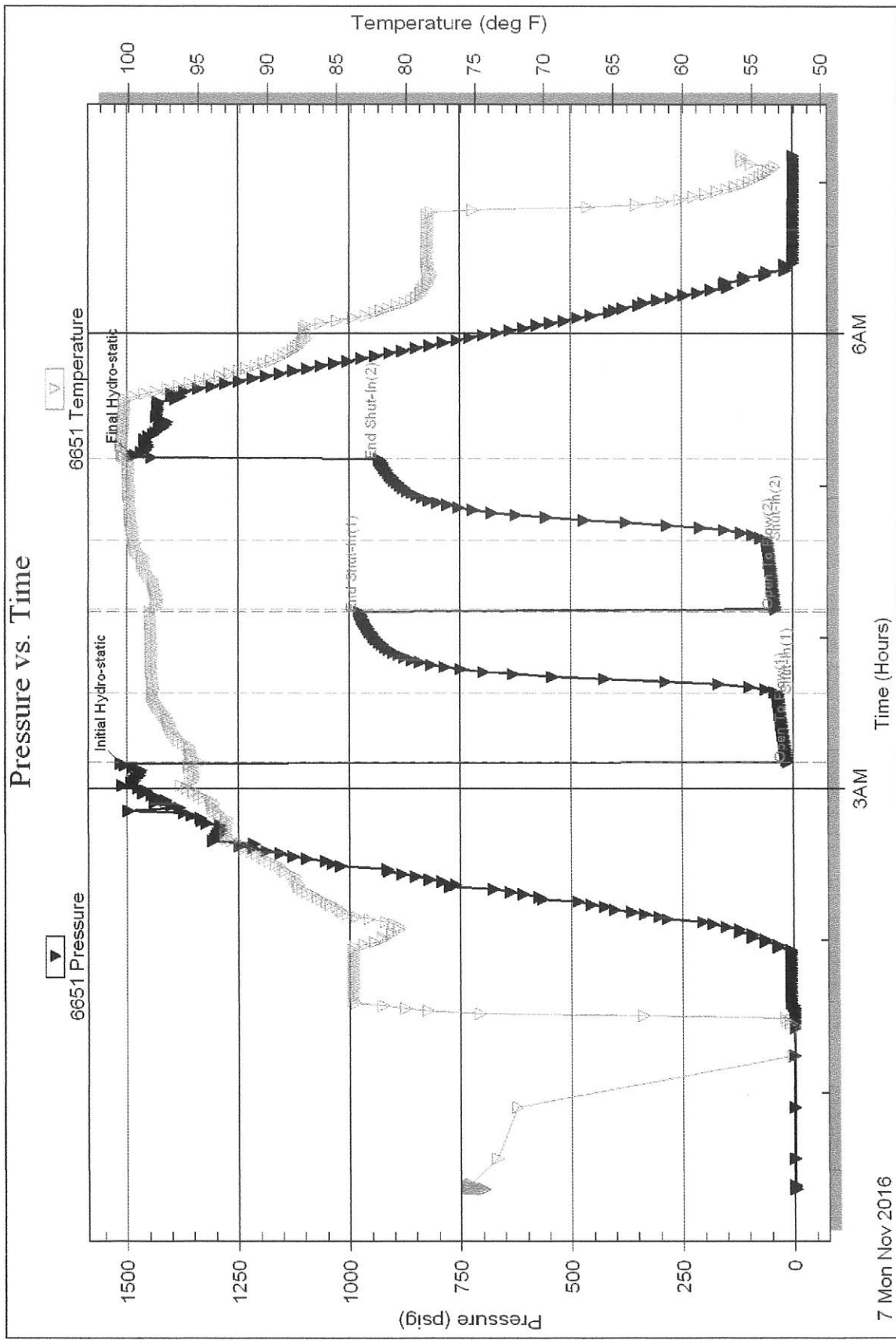
Inside

ProductionDrilling, Inc.

Roxie #1

DST Test Number: 1

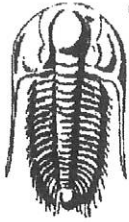
### Pressure vs. Time



Printed: 2016.11.07 @ 07:18:03

Ref. No: 58203

Trilobite Testing, Inc



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

ProductionDrilling, Inc.  
1023 Reservation Rd.  
Hays, KS 67601  
ATTN: Adam Folk

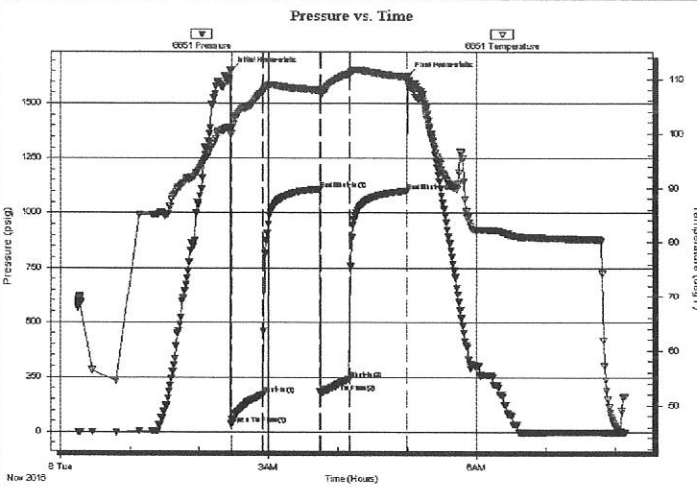
**32-18S-13W Barton, KS**  
**Roxie #1**  
Job Ticket: 58204      **DST#: 2**  
Test Start: 2016.11.08 @ 00:15:09

## GENERAL INFORMATION:

Formation: **Arbuckle**  
Deviated: No      Whipstock:      ft (KB)  
Time Tool Opened: 02:27:39  
Time Test Ended: 08:08:39  
Test Type: Conventional Bottom Hole (Reset)  
Tester: Brannan Lonsdale  
Unit No: 73  
Interval: **3365.00 ft (KB) To 3412.00 ft (KB) (TVD)**  
Total Depth: 3412.00 ft (KB) (TVD)  
Reference Elevations: 1887.00 ft (KB)  
Hole Diameter: 7.88 inches      Hole Condition: Fair      KB to GR/CF: 8.00 ft  
1879.00 ft (CF)

**Serial #: 6651      Inside**  
Press@RunDepth: 241.30 psig @ 3366.00 ft (KB)      Capacity: 8000.00 psig  
Start Date: 2016.11.08      End Date: 2016.11.08      Last Calib.: 2016.11.08  
Start Time: 00:15:09      End Time: 08:08:39      Time On Btm: 2016.11.08 @ 02:27:09  
Time Off Btm: 2016.11.08 @ 05:03:39

TEST COMMENT: 30- IF- BOB 8mins  
45- IS- .5" blow  
30- FF- BOB 7mins  
45- FS- .5" blow



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1650.13	100.91	Initial Hydro-static
1	35.82	99.92	Open To Flow (1)
28	170.64	107.65	Shut-In(1)
77	1110.35	108.03	End Shut-In(1)
78	179.74	107.31	Open To Flow (2)
103	241.30	111.01	Shut-In(2)
153	1101.48	110.52	End Shut-In(2)
154	1629.77	109.51	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
312.00	HOCM, 40%O 60%M	2.29
286.00	GSMCO, 15%G 5%M 80%O	4.05

\* Recovery from multiple tests

## Gas Rates

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



DST Test Number: 2

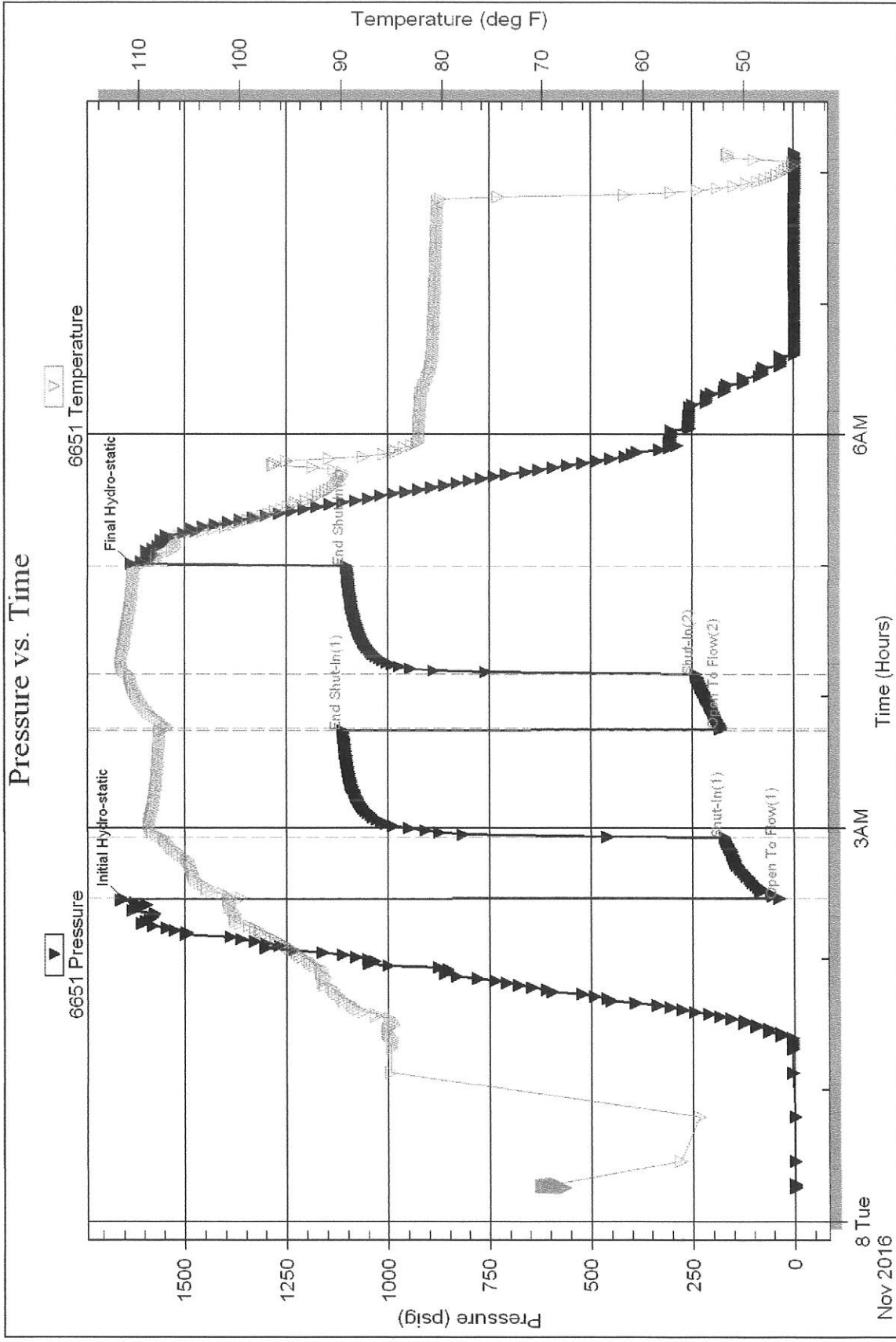
Roxie #1

Production Drilling, Inc.

Inside

Serial #: 6651

### Pressure vs. Time



Printed: 2016.11.08 @ 08:17:44

Ref. No: 58204

Trilobite Testing, Inc



Customer Production Drilling, Inc	Lease No.	Date 11/9/2016	
Lease Roxie	Well # 1		
Field Order # 13729	Station Pratt, KS	Casing 5 1/2	Depth 3474
Type Job 2 1/2 / 5 1/2 Longstring		Formation 1D-3476	County Barton
		State KS	
		Legal Description 32-18-13	

PIPE DATA		PERFORATING DATA		FLUID USED	TREATMENT RESUME		
Casing Size 5 1/2	Tubing Size	Shots/Ft		Acid	RATE	PRESS	ISIP
Depth 3474	Depth	From	To	Pre Pad	Max		5 Min.
Volume 82.6	Volume	From	To	Pad	Min		10 Min.
Max Press	Max Press	From	To	Frac	Avg		15 Min.
Well Connection	Annulus Vol.	From	To		HHP Used		Annulus Pressure
Plug Depth 3453	Packer Depth	From	To	Flush Freshwater	Gas Volume		Total Load

Customer Representative	Station Manager Kevin Goralier	Treater
Service Units 92911 84981 19843 19889 19918		
Driver Names Dsrin McGraw McGraw Hanson Hanson		

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
8:00pm					ON Location / Safety meeting
					5 1/2 Casing set at 3474' 15.5#
					T- , B-
					130 SK AD2 cement, 10% SS12, 10% Csl set
					• 8% FLA-322, 516/sk 6.150 mix, 1/4" Cellulose
					14.8 ppg, 1.54 veils, 6.63 wgr
3:15pm	300		12	3	Pump 12 bbls Flush
	300		10	5	Pump 10 bbls 2% KCL water
	300		3	5	Pump 3 bbls water
	300		36	5 1/2	mix 130 SK cement
					Shut down
					Wash pump & lines, Release Plug
	200		0	6	Start displacement
	400		57	6	L.P. Pressure
	600		72	3	Slow Rate
4:00pm	1,500		80	3	Bump Plug
					Flow
	100		7	3	Plug Rgt hole - 30sk 60/40 P02
	100		4	3	Plug mousehole - 15sk 60/40 P02
					Job Complete / Dsrin & Crew
					Thank You!!!