

Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

Form ACO-1

January 2018

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

Gas DH EOR

OG GSW

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 EOR Conv. to SWD

Plug Back Liner Conv. to GSW Conv. to Producer

Commingled Permit #: _____

Dual Completion Permit #: _____

SWD Permit #: _____

EOR Permit #: _____

GSW Permit #: _____

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

API No.: _____

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 Drill Stem Tests Received

Geologist Report / Mud Logs Received

UIC Distribution

ALT I II III Approved by: _____ Date: _____

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 Geologist Report / Mud Logs <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				

1. Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*
2. Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*
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)*

Date of first Production/Injection or Resumed Production/Injection:	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> <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: Top Bottom
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Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record <i>(Amount and Kind of Material Used)</i>

TUBING RECORD:	Size:	Set At:	Packer At:	
----------------	-------	---------	------------	--

Form	ACO1 - Well Completion
Operator	Royal Energy, Inc.
Well Name	YOUNG 1
Doc ID	1328861

Tops

Name	Top	Datum
Anhydrite	844	+1126
B/Anhydrite	864	+1106
Howard	3168	-1198
Topeka	3256	-1286
Heebner	3615	-1645
Brown Lime	3772	-1802
Lansing	3801	-1831
Base/KC	4103	-2133
Mississippian	4243	-2273
Kinderhook Sh.	4293	-2323
Viola	4328	-2358
RTD/LTD	4400	-2430

QUALITY OILWELL CEMENTING, INC.

R9/1/8

Federal Tax I.D.# 20-2886107

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

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

No. 3115

Date	Sec.	Twp.	Range	County	State	On Location	Finish
1-5-17	7	26	13	Pratt	Ks		2:30AM

Lease Young Well No. #1 Location Stafford/Pratt County line + 281 Hwy

Contractor Southwind #1 Owner 15 2 1/2 W 51/10

Type Job Surface You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.

Hole Size 12 1/4" T.D. 310' Charge To Royal World Energy

Csg. 8 5/8" Depth 310' Street Box 1820

Tbg. Size _____ Depth _____ City Dodge City State Ks 67801

Tool _____ Depth _____ The above was done to satisfaction and supervision of owner agent or contractor.

Cement Left in Csg. 15' Shoe Joint 15' Cement Amount Ordered 300 80% 3% cc 2% Gel

Meas Line _____ Displace 18 3/4 BLS 1/4 fl oz seal per sack

EQUIPMENT			Common
Pumptrk <u>50</u>	No. _____	Cementor Helper <u>Brett</u>	Poz. Mix
Bulktrk <u>21</u>	No. _____	Driver <u>Doug</u>	Gel.
Bulktrk <u>DU</u>	No. _____	Driver <u>Rick</u>	Calcium

JOB SERVICES & REMARKS Hulls

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

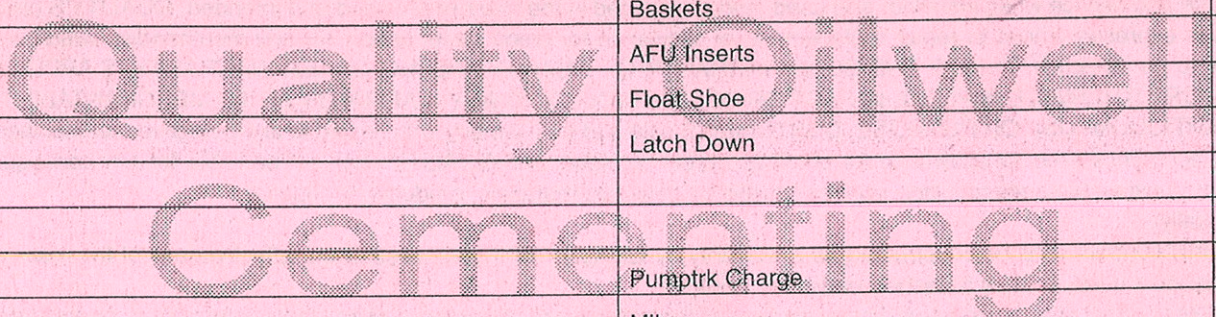
_____ Latch Down

_____ Pumptrk Charge

_____ Mileage

X Signature [Signature]

Tax _____
Discount _____
Total Charge _____



QUALITY WELL SERVICE, INC.

Federal Tax I.D. # 481187368

6595

Home Office 324 Simpson St., Pratt, KS 67124

Office 620-727-3410
Fax 620-672-3663

Rich's Cell 620-727-3409
Brady's Cell 620-727-6964

Date	01 13 17	Sec.	07	Twp.	26S	Range	13W	County	Pratt	State	KS	On Location	300Am	Finish	530Am					
Lease	Young	Well No.	1		Location		Pratt 10S, N, W, 9 into													
Contractor	Southwind				Owner		Royal Energy													
Type Job	Rotary Plug				To Quality Well Service, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.															
Hole Size	7 7/8				T.D.															
Csg.					Depth		Charge To													
Tbg. Size	4 1/2 16.6 DP				Depth		900'													
Tool					Depth		Street													
Cement Left in Csg.					Shoe Joint		City State													
Meas Line					Displace		The above was done to satisfaction and supervision of owner agent or contractor.													
EQUIPMENT											Cement Amount Ordered					170sx 60' 40' 4% gel				
Pumptrk	8	No.	Mike B				Common													
Bulktrk	10	No.	David F				Poz. Mix													
Bulktrk		No.					Gel.													
Pickup		No.	David B				Calcium													
JOB SERVICES & REMARKS											Hulls									
Rat Hole											Salt									
Mouse Hole											Flowseal									
Centralizers											Kol-Seal									
Baskets											Mud CLR 48									
D/V or Port Collar											CFL-117 or CD110 CAF 38									
Drillpipe at 900', hole full, Pump 4 Ahead											Sand									
Mix 50sx, Disp. w/ 9 Bbls Fresh											Handling									
Drill Pipe at 360', Load Hole Pump 3 Ahead											Mileage									
Mix 50sx Disp. w/ 2 Fresh											GUIDE SHOE					FLOAT EQUIPMENT				
DP at 60' mix 20sx cement Dil Gm.											Centralizer									
Plug Rent & Mouse Holes w/ 50sx											Baskets									
											AFU Inserts									
											Float Shoe									
											Latch Down									
											Pumptrk Charge									
											Mileage									
											Tax									
											Discount									
X Signature											Total Charge									



DRILL STEM TEST REPORT

Prepared For: **ROYAL ENERGY INC.**

402 CEDAR STREET
MEADE, KANSAS 67864

ATTN: JEFF BURK

YOUNG 31

7-26S-13W PRATT

Start Date: 2017.01.09 @ 12:56:00

End Date: 2017.01.09 @ 19:46:00

Job Ticket #: 01141 DST #: 1

Eagle Testers
1309 Patton Road Great Bend, Kansas 67530
620-791-7394

Printed: 2017.01.09 @ 20:20:32



DRILL STEM TEST REPORT

ROYAL ENERGY INC.
 402 CEDAR STREET
 MEADE, KANSAS 67864
 ATTN: JEFF BURK

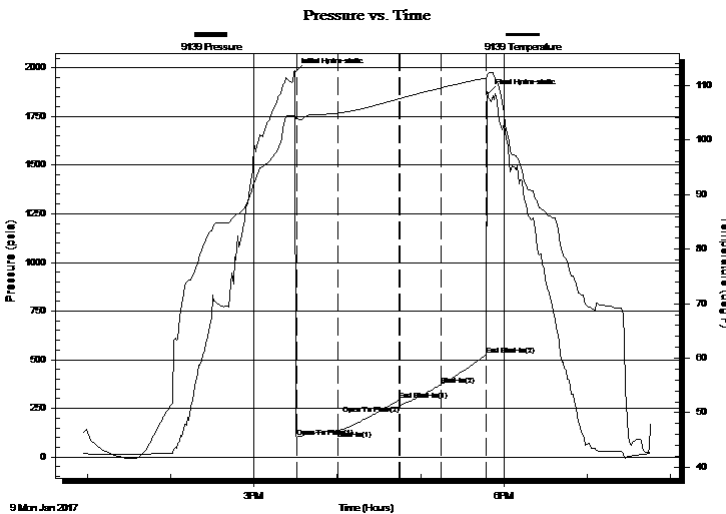
7-26S-13W PRATT
YOUNG 31
 Job Ticket: 01141 **DST#: 1**
 Test Start: 2017.01.09 @ 12:56:00

GENERAL INFORMATION:

Formation: **LANSING 'A-B'**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 15:31:00
 Time Test Ended: 19:46:00
 Interval: **3878.00 ft (KB) To 3835.00 ft (KB) (TVD)**
 Total Depth: 3835.00 ft (KB) (TVD)
 Hole Diameter: 7.86 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: GENE BUDIG-90
 Unit No: 1
 Reference Elevations: 1970.00 ft (KB)
 1960.00 ft (CF)
 KB to GR/CF: 10.00 ft

Serial #: 9139 Outside
 Press@RunDepth: 522.63 psia @ 3830.07 ft (KB) Capacity: psia
 Start Date: 2017.01.09 End Date: 2017.01.09 Last Calib.: 2017.01.09
 Start Time: 12:56:00 End Time: 19:46:30 Time On Btm: 2017.01.09 @ 15:29:30
 Time Off Btm: 2017.01.09 @ 17:48:30

TEST COMMENT: 1ST OPOENING 30 MINUTES FAIR BLOW BUILT TO THE BOTTOM OF A 5 GALLION BUCKET IN 6 MINUTES
 1ST SHUT-IN 45 MINUTES NO BLOW BACK
 2ND OPPENING 30 MINUTES-WEAK BLOW BUILT TO 1 1/2 INCH DECRTEASED DIED IN 27 MINUTES2ND 2ND SHUT-IN
 45 MINUTES NO BLOW BACK



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1976.38	104.45	Initial Hydro-static
1	102.27	103.91	Open To Flow (1)
31	136.28	104.91	Shut-In(1)
75	292.67	107.56	End Shut-In(1)
76	265.43	107.58	Open To Flow (2)
105	370.79	109.55	Shut-In(2)
138	522.63	111.35	End Shut-In(2)
139	1869.29	112.16	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	200 feet of gas in the pipe	0.00
20.00	mud	0.28
60.00	very slightly oil cut mud	0.84
0.00	5 gas 5 oil 80 mud 10 w ater	0.00
60.00	very slightly oil cut mud	0.84
0.00	7 gas 8 oil 70 mud 15 w ater	0.00

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

ROYAL ENERGY INC.
 402 CEDAR STREET
 MEADE, KANSAS 67864
 ATTN: JEFF BURK

7-26S-13W PRATT
 YOUNG 31
 Job Ticket: 01141 **DST#: 1**
 Test Start: 2017.01.09 @ 12:56:00

Tool Information

Drill Pipe:	Length: 3771.00 ft	Diameter: 3.80 inches	Volume: 52.90 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: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 58000.00 lb
			<u>Total Volume: 52.90 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	22.00 ft			String Weight: Initial 40000.00 lb
Depth to Top Packer:	3778.00 ft			Final 40000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	57.07 ft			
Tool Length:	86.07 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3754.00	
Hydraulic tool	5.00			3759.00	
Jars	7.00			3766.00	
Safety Joint	2.00		Fluid	3768.00	
Top Packer	5.00			3773.00	
Packer	5.00			3778.00	29.00 Bottom Of Top Packer
Anchor	5.00			3783.00	
Change Over Sub	0.75			3783.75	
Drill Pipe	31.57			3815.32	
Change Over Sub	0.75			3816.07	
Anchor	14.00			3830.07	
Recorder	0.00	9119	Inside	3830.07	
Recorder	0.00	9139	Outside	3830.07	
Bullnose	5.00			3835.07	57.07 Anchor Tool

Total Tool Length: 86.07



DRILL STEM TEST REPORT

FLUID SUMMARY

ROYAL ENERGY INC.
 402 CEDAR STREET
 MEADE, KANSAS 67864
 ATTN: JEFF BURK

7-26S-13W PRATT
 YOUNG 31
 Job Ticket: 01141 **DST#: 1**
 Test Start: 2017.01.09 @ 12:56:00

Mud and Cushion Information

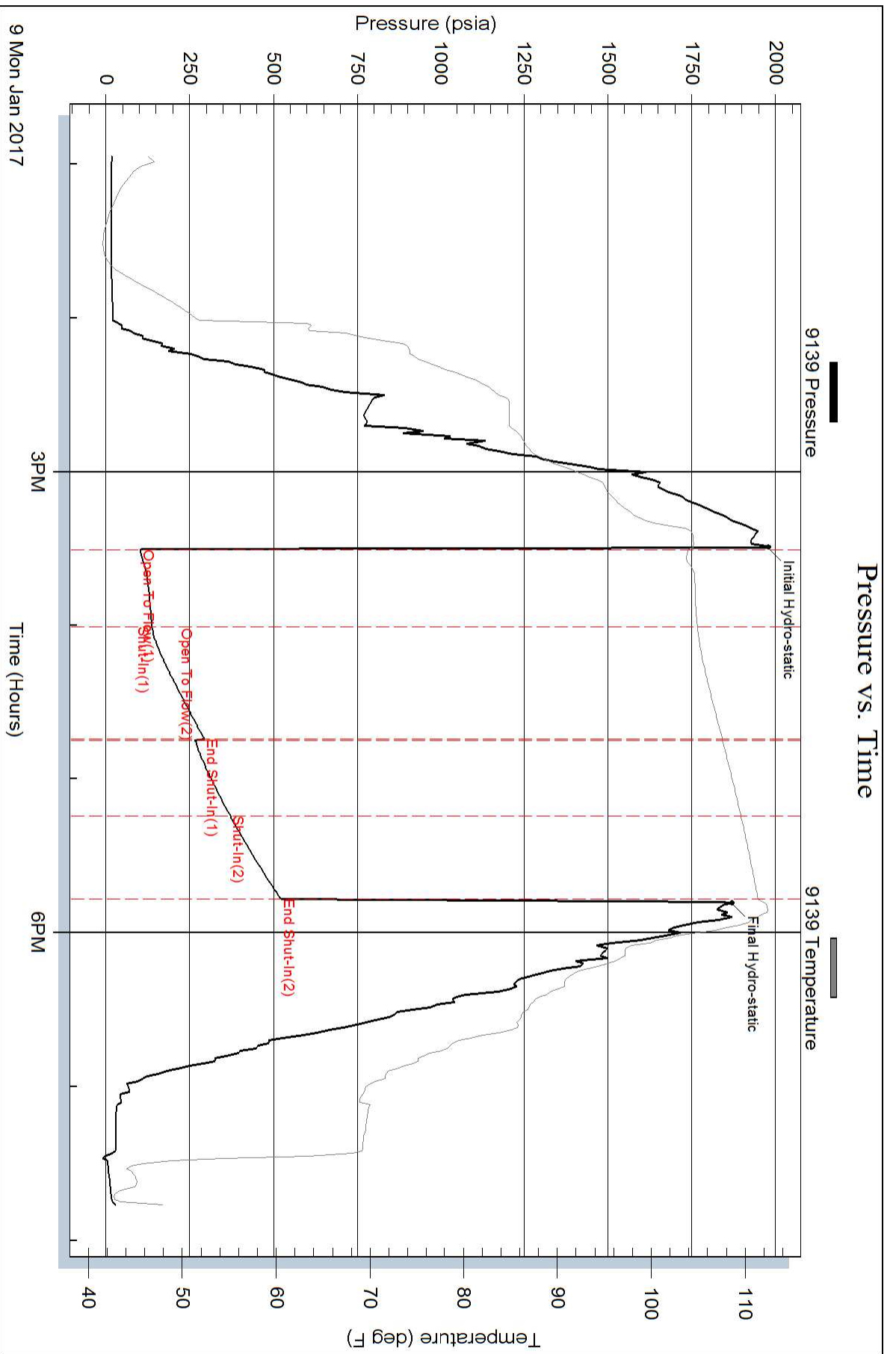
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 48.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.20 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psia		
Salinity: 7000.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	200 feet of gas in the pipe	0.000
20.00	mud	0.281
60.00	very slightly oil cut mud	0.842
0.00	5 gas 5 oil 80 mud 10 w ater	0.000
60.00	very slightly oil cut mud	0.842
0.00	7 gas 8 oil 70 mud 15 w ater	0.000

Total Length: 140.00 ft Total Volume: 1.965 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:





DRILL STEM TEST REPORT

Prepared For: **ROYAL ENERGY INC.**

402 CEDAR STREET
MEADE, KANSAS 67864

ATTN: JEFF BURK

YOUNG 31

7-26S-13W PRATT

Start Date: 2017.01.10 @ 11:30:00

End Date: 2017.01.10 @ 00:00:00

Job Ticket #: 01142 DST #: 2

Eagle Testers
1309 Patton Road Great Bend, Kansas 67530
620-791-7394

Printed: 2017.01.10 @ 18:13:37



DRILL STEM TEST REPORT

ROYAL ENERGY INC.
 402 CEDAR STREET
 MEADE, KANSAS 67864
 ATTN: JEFF BURK

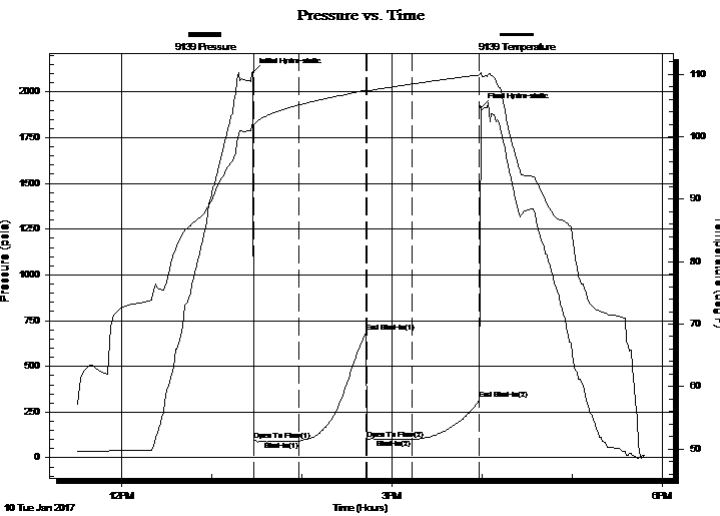
7-26S-13W PRATT
YOUNG 31
 Job Ticket: 01142 **DST#: 2**
 Test Start: 2017.01.10 @ 11:30:00

GENERAL INFORMATION:

Formation: **LANSING 'H-I'**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 13:23:00
 Time Test Ended: 00:00:00
 Interval: **3939.00 ft (KB) To 3970.00 ft (KB) (TVD)**
 Total Depth: 3970.00 ft (KB) (TVD)
 Hole Diameter: 7.86 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: GENE BUDIG
 Unit No: 1
 Reference Elevations: 1970.00 ft (KB)
 1960.00 ft (CF)
 KB to GR/CF: 10.00 ft

Serial #: 9139 Outside
 Press@RunDepth: 318.77 psia @ 3965.00 ft (KB) Capacity: 5000.00 psia
 Start Date: 2017.01.10 End Date: 2017.01.10 Last Calib.: 2017.01.10
 Start Time: 11:30:00 End Time: 17:48:00 Time On Btm: 2017.01.10 @ 13:27:30
 Time Off Btm: 2017.01.10 @ 15:59:00

TEST COMMENT: 1st OPENING 30 MINUTES WEAK BLOW BUILT TO 1 1/2 INCHES
 1ST SHUT-IN 45 MINUTES NO BLOW BACK
 2ND OPENING 30 MINUTES WEAK BLOW BUILT TO 2 INCHES DECREASED AND DIED IN 15 MINUTES
 2ND SHUT-IN 45 MINUTES NO BLOW BACK



PRESSURE SUMMARY			
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	2104.71	102.13	Initial Hydro-static
1	94.18	101.86	Open To Flow (1)
31	90.82	105.08	Shut-In(1)
76	685.25	107.43	End Shut-In(1)
76	101.55	107.31	Open To Flow (2)
106	98.83	108.43	Shut-In(2)
151	318.77	109.90	End Shut-In(2)
152	1916.41	110.29	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
70.00	MUD WITH A TRACE OF OIL	0.98
0.00	TRACE OIL 70 MUD 30 WATER	0.00
0.00	CHLORIUDES 64,000	0.00

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

ROYAL ENERGY INC.
 402 CEDAR STREET
 MEADE, KANSAS 67864
 ATTN: JEFF BURK

7-26S-13W PRATT
 YOUNG 31
 Job Ticket: 01142 **DST#: 2**
 Test Start: 2017.01.10 @ 11:30:00

Tool Information

Drill Pipe:	Length: 3929.00 ft	Diameter: 3.80 inches	Volume: 55.11 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: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 54000.00 lb
			<u>Total Volume: 55.11 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	19.00 ft			String Weight: Initial 40000.00 lb
Depth to Top Packer:	3939.00 ft			Final 40000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	31.00 ft			
Tool Length:	60.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3915.00	
Hydraulic tool	5.00			3920.00	
Jars	7.00			3927.00	
Safety Joint	2.00		Fluid	3929.00	
Top Packer	5.00			3934.00	
Packer	5.00			3939.00	29.00 Bottom Of Top Packer
Anchor	26.00			3965.00	
Recorder	0.00	91716	Inside	3965.00	
Recorder	0.00	9139	Outside	3965.00	
Bullnose	5.00			3970.00	31.00 Anchor Tool
Total Tool Length:	60.00				



DRILL STEM TEST REPORT

FLUID SUMMARY

ROYAL ENERGY INC.
 402 CEDAR STREET
 MEADE, KANSAS 67864
 ATTN: JEFF BURK

7-26S-13W PRATT
 YOUNG 31
 Job Ticket: 01142 **DST#: 2**
 Test Start: 2017.01.10 @ 11:30:00

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: 67.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.00 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psia		
Salinity: 14000.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
70.00	MUD WITH A TRACE OF OIL	0.982
0.00	TRACE OIL 70 MUD 30 WATER	0.000
0.00	CHLORIDES 64,000	0.000

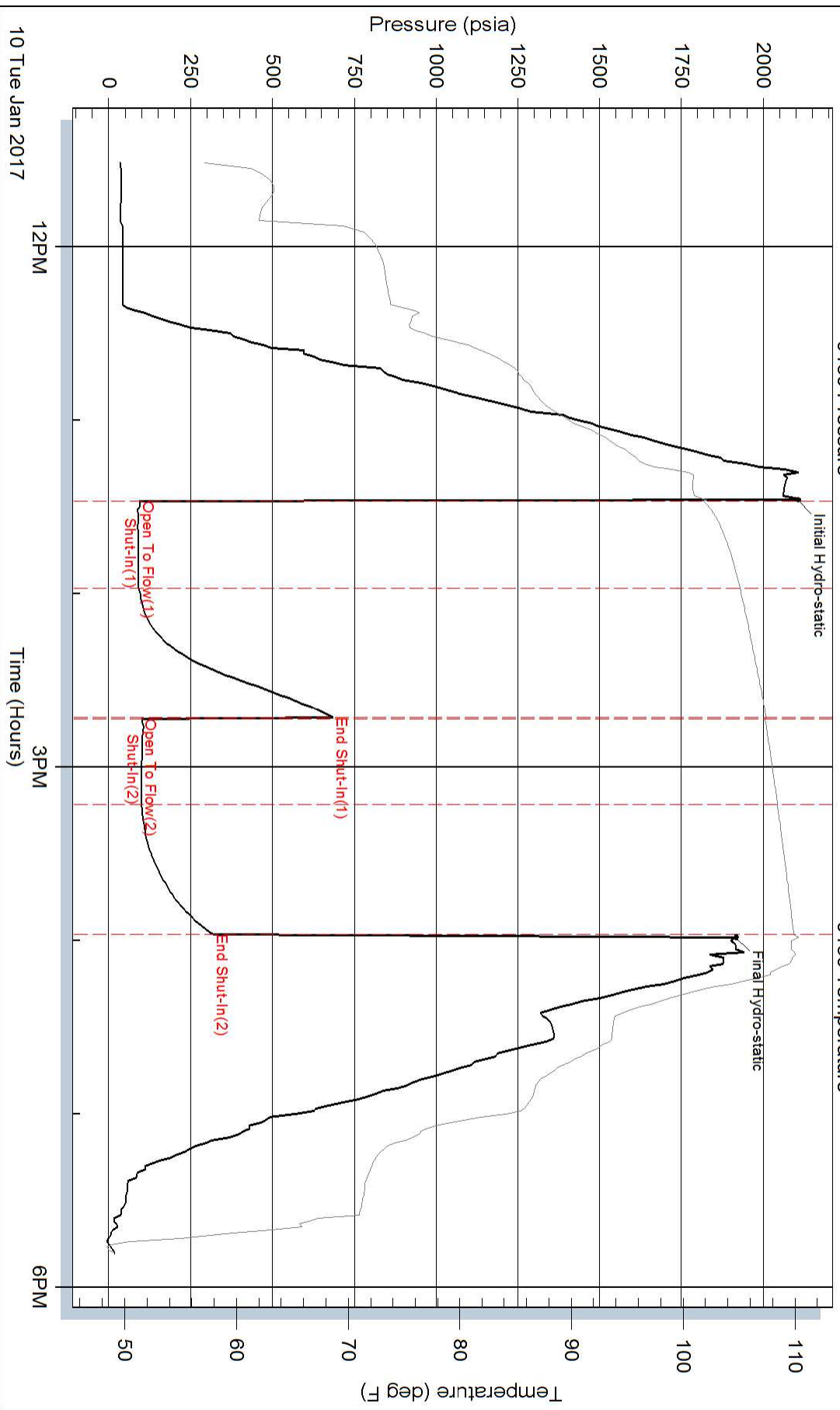
Total Length: 70.00 ft Total Volume: 0.982 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

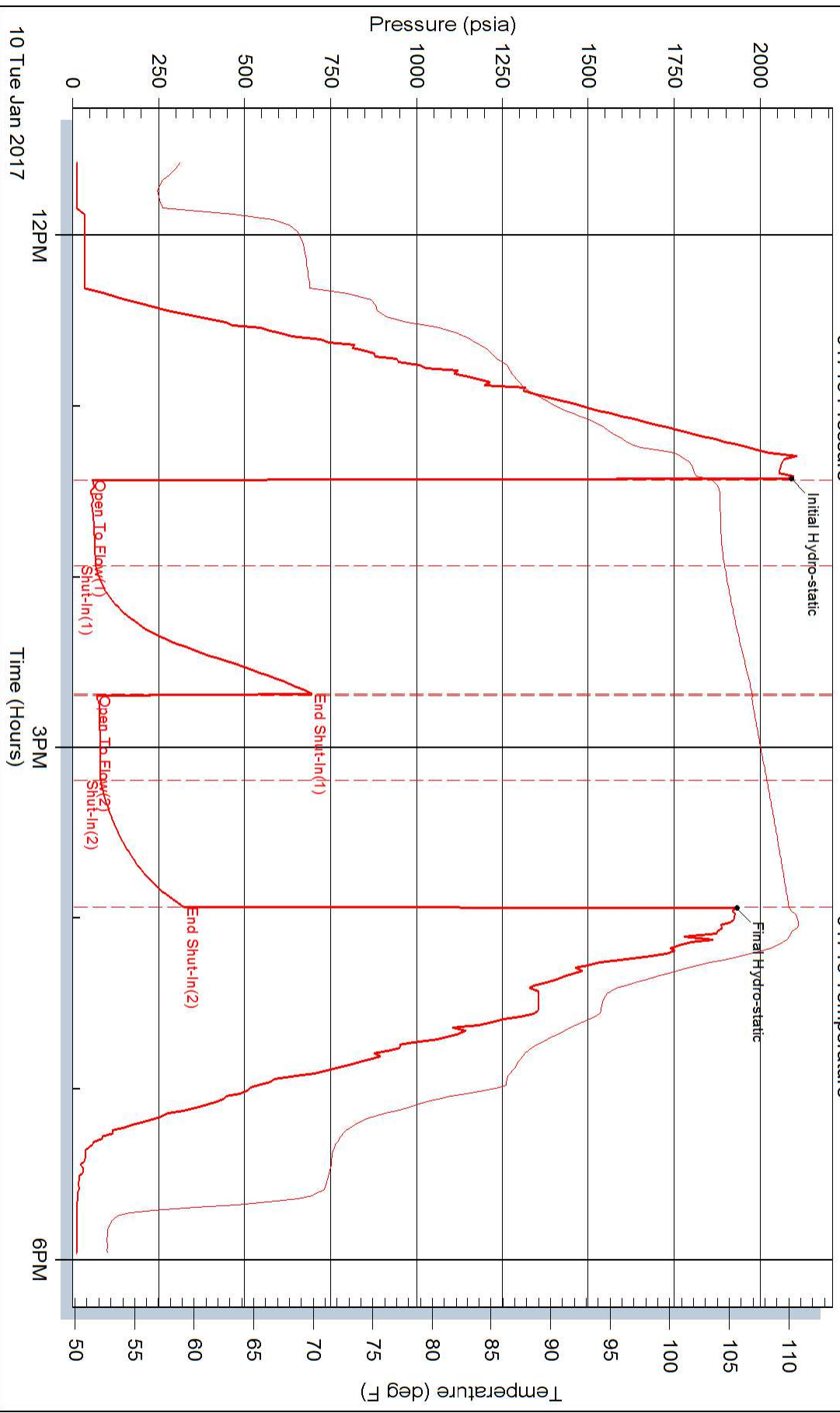
Laboratory Name: Laboratory Location:

Recovery Comments:

Pressure vs. Time



Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **ROYAL ENERGY INC.**

402 CEDAR STREET
MEADE, KANSAS 67864

ATTN: JEFF BURK

YOUNG 31

7-26S-13W PRATT

Start Date: 2017.01.12 @ 22:15:00

End Date: 2017.01.12 @ 00:00:00

Job Ticket #: 01143 DST #: 3

Eagle Testers
1309 Patton Road Great Bend, Kansas 67530
620-791-7394

Printed: 2017.01.12 @ 04:54:28



DRILL STEM TEST REPORT

ROYAL ENERGY INC.
 402 CEDAR STREET
 MEADE, KANSAS 67864
 ATTN: JEFF BURK

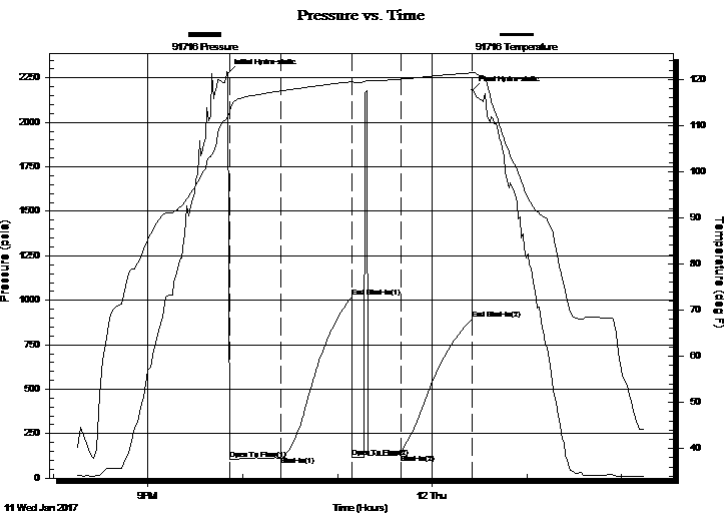
7-26S-13W PRATT
YOUNG 31
 Job Ticket: 01143 **DST#: 3**
 Test Start: 2017.01.12 @ 22:15:00

GENERAL INFORMATION:

Formation: **KINDERHOOK-MISSISSIP**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 12:09:00
 Time Test Ended: 00:00:00
 Interval: **4250.00 ft (KB) To 4320.00 ft (KB) (TVD)**
 Total Depth: 4320.00 ft (KB) (TVD)
 Hole Diameter: 7.86 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: GENE BUDIG
 Unit No: 1
 Reference Elevations: 1970.00 ft (KB)
 1960.00 ft (CF)
 KB to GR/CF: 10.00 ft

Serial #: 91716 Inside
 Press@RunDepth: 894.13 psia @ 4314.35 ft (KB) Capacity: 5000.00 psia
 Start Date: 2017.01.11 End Date: 2017.01.12 Last Calib.: 2017.01.12
 Start Time: 20:15:00 End Time: 02:15:00 Time On Btm: 2017.01.11 @ 21:50:30
 Time Off Btm: 2017.01.12 @ 00:25:30

TEST COMMENT: 1ST OPENING 30 MINUTES WEAK BLOW FOR 18 MINUTES AND DIED
 1ST SHUT-IN 45 MINUTES NO BLOW BACK
 2ND OPENING 30 MINUTES-WEAK BLOW 3 MINUTES DIED FLUSHED TOOL WEAK BLOW 4 MINUTES DIED
 2ND SHUT-IN 45 MINUTES NO BLOW BACK



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	2274.18	112.02	Initial Hydro-static
1	103.42	112.86	Open To Flow (1)
34	125.01	117.47	Shut-In(1)
79	1018.77	119.46	End Shut-In(1)
79	116.49	119.46	Open To Flow (2)
110	131.17	120.06	Shut-In(2)
155	894.13	121.42	End Shut-In(2)
155	2178.48	121.48	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
100.00	DRILLING MUD THERE WERE SPOTS OF OIL	1.40
0.00	OIL BETWEEN THE SHUT-IN AND HYDRA	0.00
0.00	TOOLS	0.00

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

ROYAL ENERGY INC.
 402 CEDAR STREET
 MEADE, KANSAS 67864
 ATTN: JEFF BURK

7-26S-13W PRATT
 YOUNG 31
 Job Ticket: 01143 **DST#: 3**
 Test Start: 2017.01.12 @ 22:15:00

Tool Information

Drill Pipe:	Length: 4241.00 ft	Diameter: 3.80 inches	Volume: 59.49 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: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 85000.00 lb
			<u>Total Volume: 59.49 bbl</u>	Tool Chased 3.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 40000.00 lb
Depth to Top Packer:	4250.00 ft			Final 40000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	69.35 ft			
Tool Length:	98.35 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			4226.00	
Hydraulic tool	5.00			4231.00	
Jars	7.00			4238.00	
Safety Joint	2.00		Fluid	4240.00	
Top Packer	5.00			4245.00	
Packer	5.00			4250.00	29.00 Bottom Of Top Packer
Anchor	5.00			4255.00	
Change Over Sub	0.75			4255.75	
Drill Pipe	30.85			4286.60	
Change Over Sub	0.75			4287.35	
Anchor	27.00			4314.35	
Recorder	0.00	91716	Inside	4314.35	
Recorder	0.00	9139	Outside	4314.35	
Bullnose	5.00			4319.35	69.35 Anchor Tool

Total Tool Length: 98.35



DRILL STEM TEST REPORT

FLUID SUMMARY

ROYAL ENERGY INC.
 402 CEDAR STREET
 MEADE, KANSAS 67864
 ATTN: JEFF BURK

7-26S-13W PRATT
YOUNG 31
 Job Ticket: 01143 **DST#: 3**
 Test Start: 2017.01.12 @ 22:15:00

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: 48.00 sec/qt	Cushion Volume: bbl		
Water Loss: 12.80 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psia		
Salinity: 22000.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
100.00	DRILLING MUD THERE WERE SPOTS OF DEAC	1.403
0.00	OIL BETWEEN THE SHUT-IN AND HYDRAULIC	0.000
0.00	TOOLS	0.000

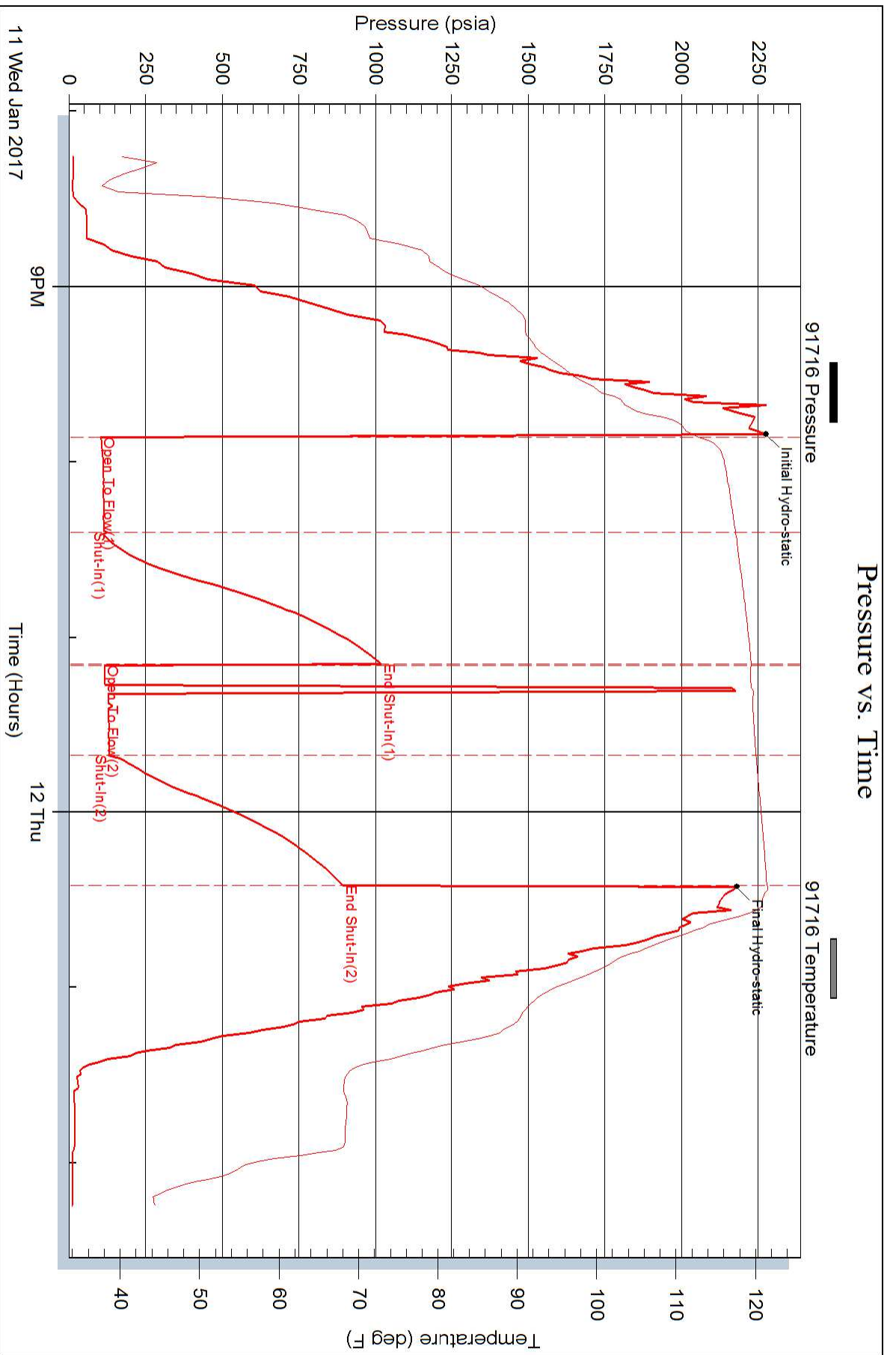
Total Length: 100.00 ft Total Volume: 1.403 bbl

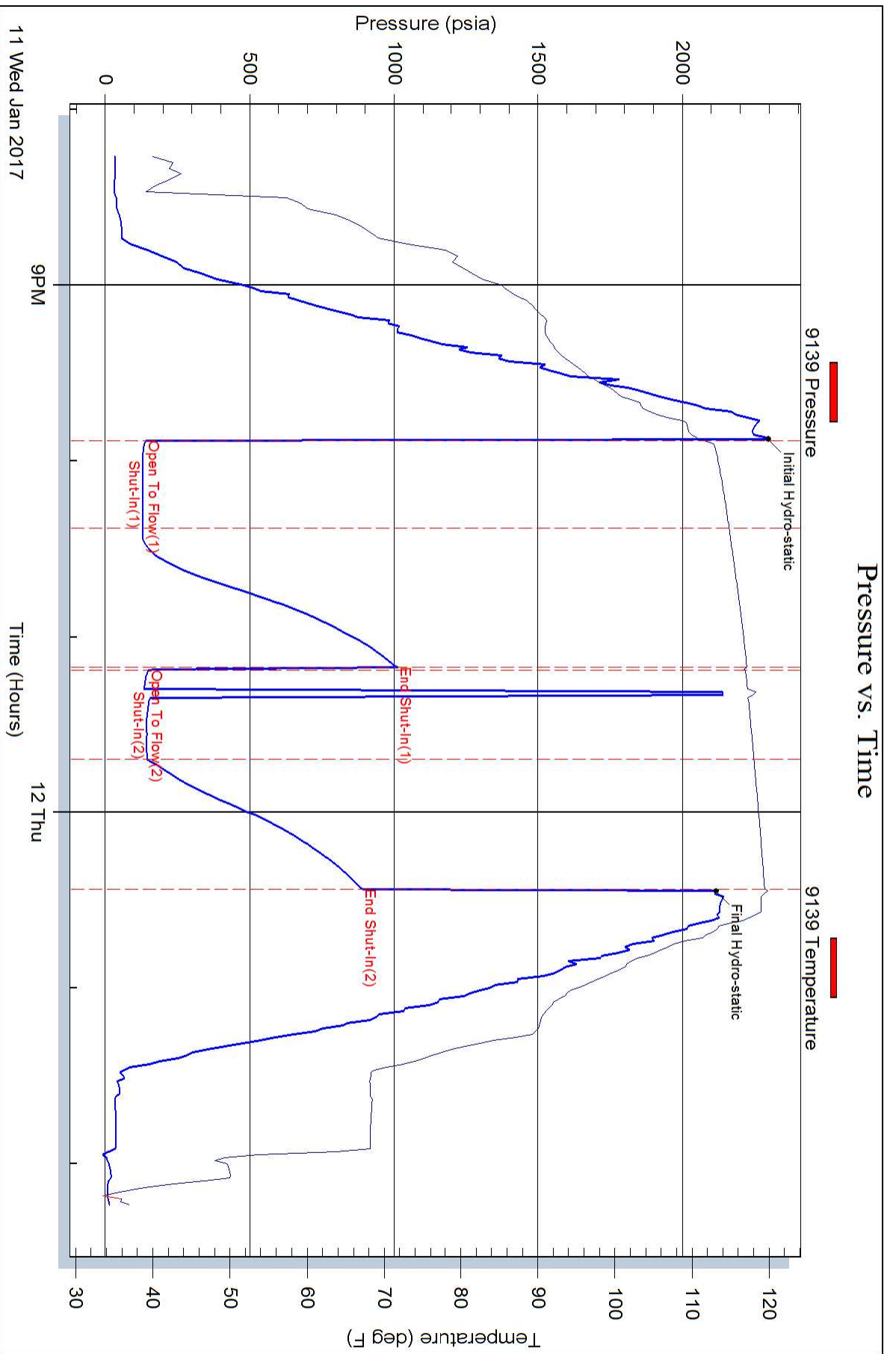
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments:

Pressure vs. Time







PETERRA ENERGY SERVICES CONSULTING FROM PROSPECT TO PIPELINE

Scale 1:240 (5"=100') Imperial Measured Depth Log

Well Name: Young #1
API: 15-151-22456
Location: 1700' FNL & 1700' FEL NE/4 of Section 7 T26S R13W
License Number: 35414
Drilling Completed: 1/12/2017
Region: Pratt County

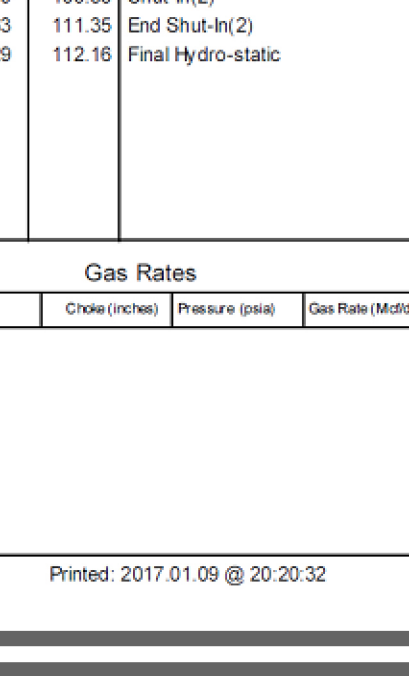
Operator: Royal Energy, Inc.
Address: Mr. Dane Little
402 S. Cedar Street,
Meade, KS 67207

Geologist: Jeffrey A. Burk & Eli J. Felts
Company: PETERRA Energy Services
Address: 7701 E. Kellogg Drive Ste #625
Wichita, KS 67207-1705

Comments: The Young #1 ran structurally low to the surrounding wells. All live shows were evaluated by Drill Stem Testing and/or electronic log evaluation. Due to the DST results and saltwater saturation calculations it was decided to plug the test well as non-commercial.

Best Regards,
Peterra Energy Services,
Jeffrey A. Burk & Eli J. Felts

Table with 4 columns: Formation, Depth, Stratigraphic Correlation, and Well Correlation. Lists formations like Lafayette Top, Lafayette Base, Howard, Heebner, etc.

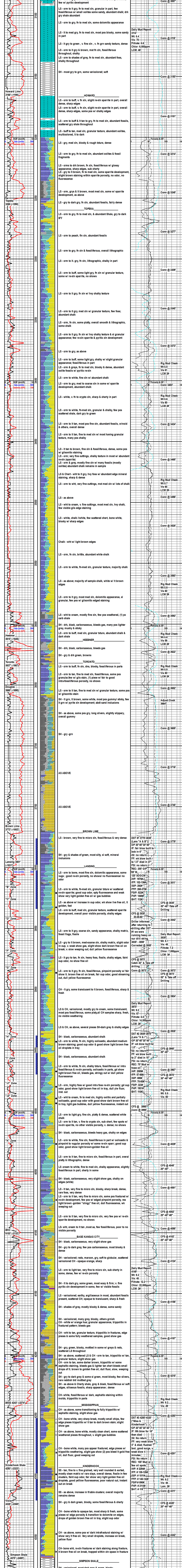
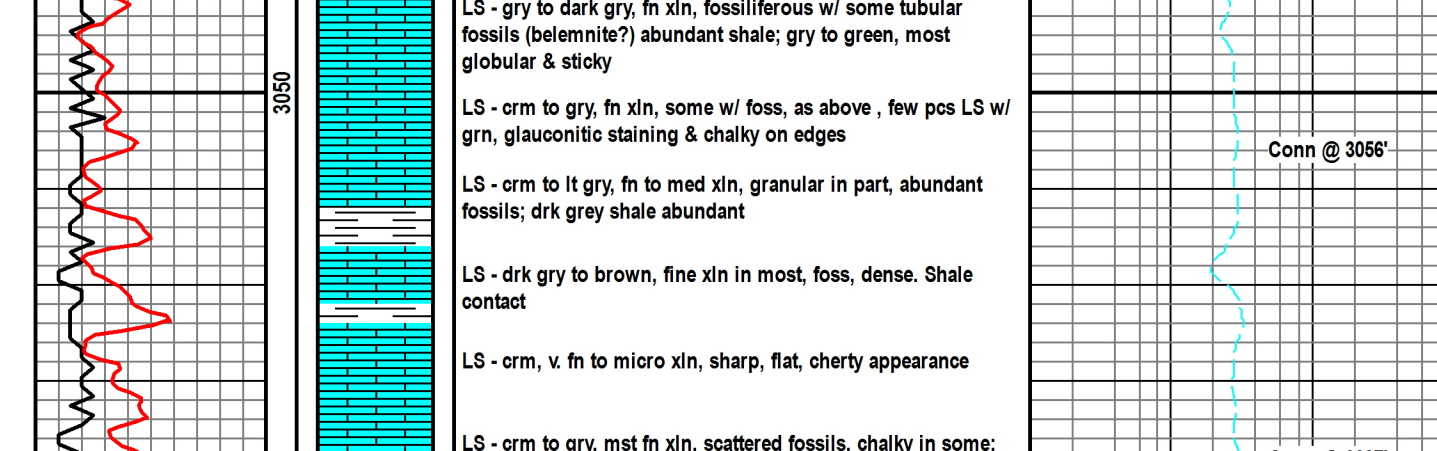


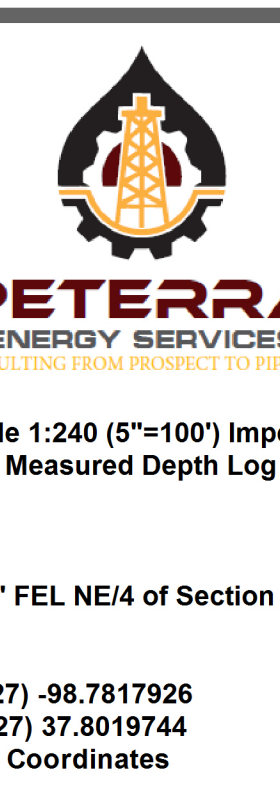
REFERENCE WELLS E-LOG TOPS table with columns for Well Name, Formation, Depth, and other well data.

DRILL STEM TEST REPORT for Young #1, 7-26S-13W PRATT. Includes general information, test comment, pressure summary, and recovery data.

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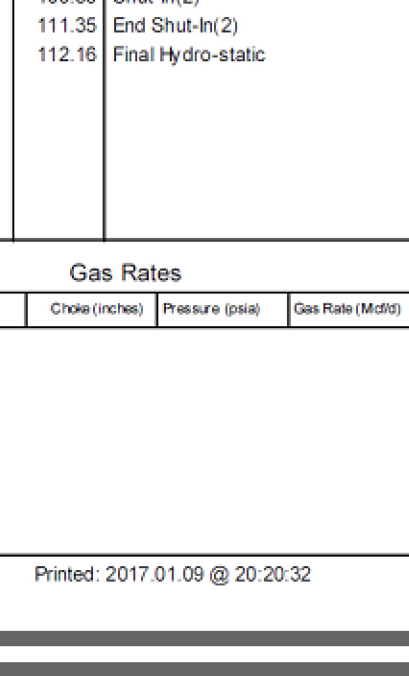
Operator: Royal Energy, Inc.
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