

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) (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:	
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Form	ACO1 - Well Completion
Operator	Coachman Energy Operating Company LLC
Well Name	4-R RANCH 1-36-15-20
Doc ID	1350928

All Electric Logs Run

Borehole Compensated Sonic Log
Gamma Ray / Caliper Log
Dual Induction Log
Dual Comp Porosity Log
Microsensitivity Log

Form	ACO1 - Well Completion
Operator	Coachman Energy Operating Company LLC
Well Name	4-R RANCH 1-36-15-20
Doc ID	1350928

Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
4	3586 - 3590	1500 gals	3590



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Coachman Energy Oper.Co. LLC

36-15s-20w Ellis

1125 17th St.
Suite 410
Denver Co 80202
ATTN: Charlie Sturdavant

4-R Ranch 1-36-15-20

Job Ticket: 64094

DST#: 1

Test Start: 2017.02.26 @ 02:00:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 54.00 sec/qt

Water Loss: 7.20 in³

Resistivity: ohm.m

Salinity: 5000.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API:

Water Salinity: deg API

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00		0.000

Total Length: ft Total Volume: bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

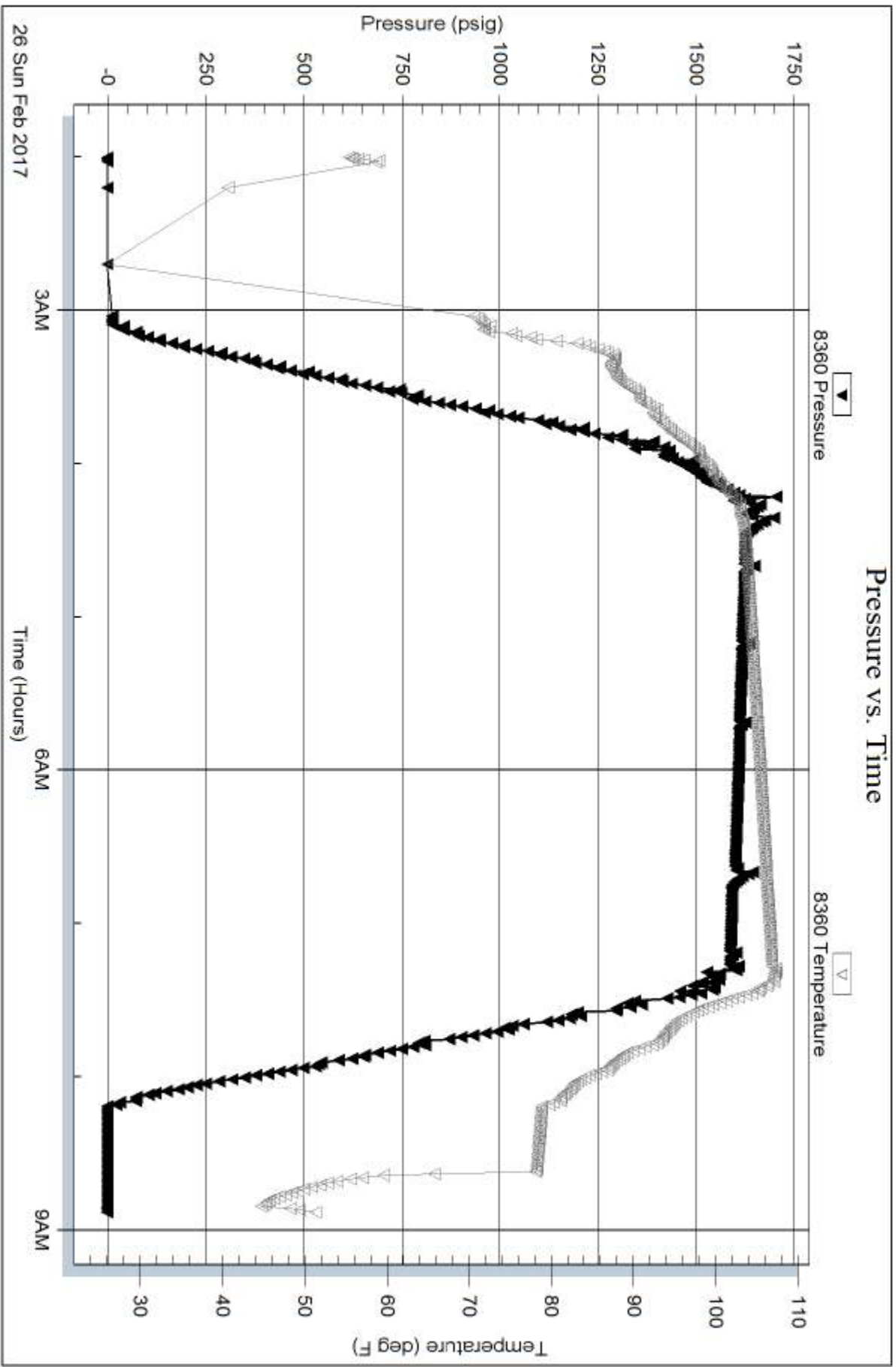
Serial #: 8360

Inside

Coachman Energy Oper. Co. LLC

4-R Ranch 1-36-15-20

DST Test Number: 1



Tribble Testing, Inc

Ref. No: 64094

Printed: 2017.02.26 @ 10:29:55

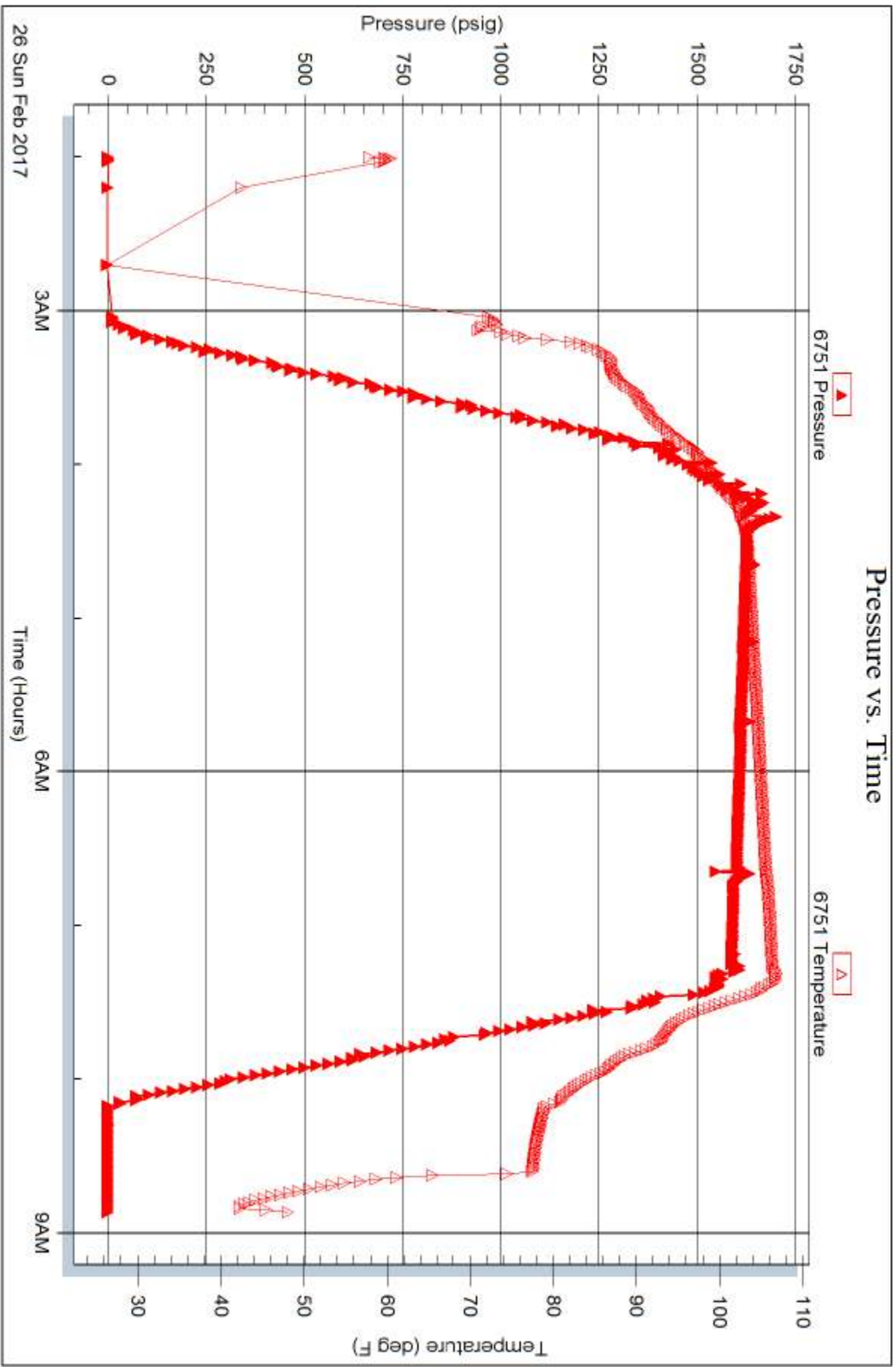
Serial #: 6751

Outside

Coachman Energy Oper. Co. LLC

4-R Ranch 1-36-15-20

DST Test Number: 1





TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Coachman Energy Oper.Co. LLC

36-15s-20w Ellis

1125 17th St.
Suite 410
Denver Co 80202
ATTN: Charlie Sturdavant

4-R Ranch 1-36-15-20

Job Ticket: 64095 **DST#: 2**
Test Start: 2017.02.26 @ 13:40:12

GENERAL INFORMATION:

Formation: **LKC A-F**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 15:28:52
 Time Test Ended: 19:39:51
 Interval: **3416.00 ft (KB) To 3515.00 ft (KB) (TVD)**
 Total Depth: 3515.00 ft (KB) (TVD)
 Hole Diameter: 7.85 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Ray Schwager
 Unit No: 77
 Reference Elevations: 2133.00 ft (KB)
 2124.00 ft (CF)
 KB to GR/CF: 9.00 ft

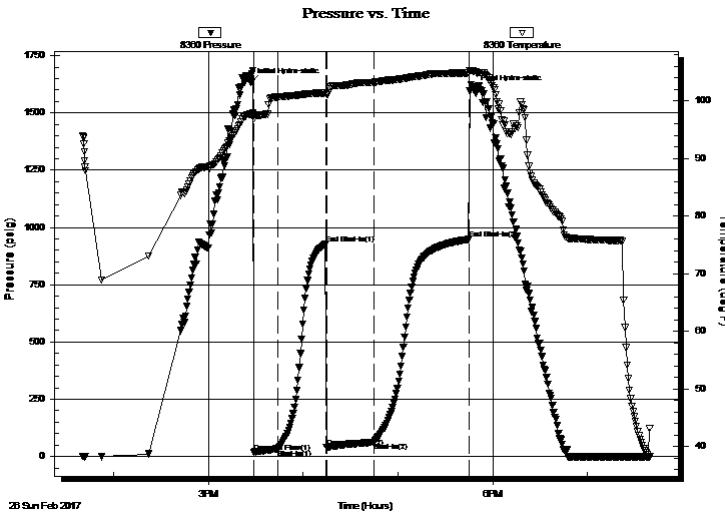
Serial #: 8360

Inside

Press@RunDepth: 63.36 psig @ 3418.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2017.02.26 End Date: 2017.02.26 Last Calib.: 2017.02.26
 Start Time: 13:40:12 End Time: 19:39:51 Time On Btm: 2017.02.26 @ 15:26:52
 Time Off Btm: 2017.02.26 @ 17:48:07

TEST COMMENT: 15-IFP-w k to BOB in 12min
 30-ISIP-no bl
 30-FFP-BOB in 1 min
 60-FSIP-surface bl bk , died in 17min

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1631.77	97.71	Initial Hydro-static
2	19.85	96.95	Open To Flow (1)
17	33.10	100.71	Shut-In(1)
48	929.07	101.40	End Shut-In(1)
48	41.67	101.15	Open To Flow (2)
78	63.36	103.22	Shut-In(2)
138	948.05	104.87	End Shut-In(2)
142	1599.84	105.15	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
107.00	HO&GCM 20%G20%O60%M	1.50
0.00	385'GIP	0.00

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Coachman Energy Oper.Co. LLC

36-15s-20w Ellis

1125 17th St.
Suite 410
Denver Co 80202
ATTN: Charlie Sturdavant

4-R Ranch 1-36-15-20

Job Ticket: 64095

DST#: 2

Test Start: 2017.02.26 @ 13:40:12

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 54.00 sec/qt
Water Loss: 7.18 in³
Resistivity: ohm.m
Salinity: 5000.00 ppm
Filter Cake: 1.00 inches

Cushion Type:
Cushion Length: ft
Cushion Volume: bbl
Gas Cushion Type:
Gas Cushion Pressure: psig

Oil API: 31 deg API
Water Salinity: ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
107.00	HO&GCM 20%G20%O60%M	1.501
0.00	385'GIP	0.000

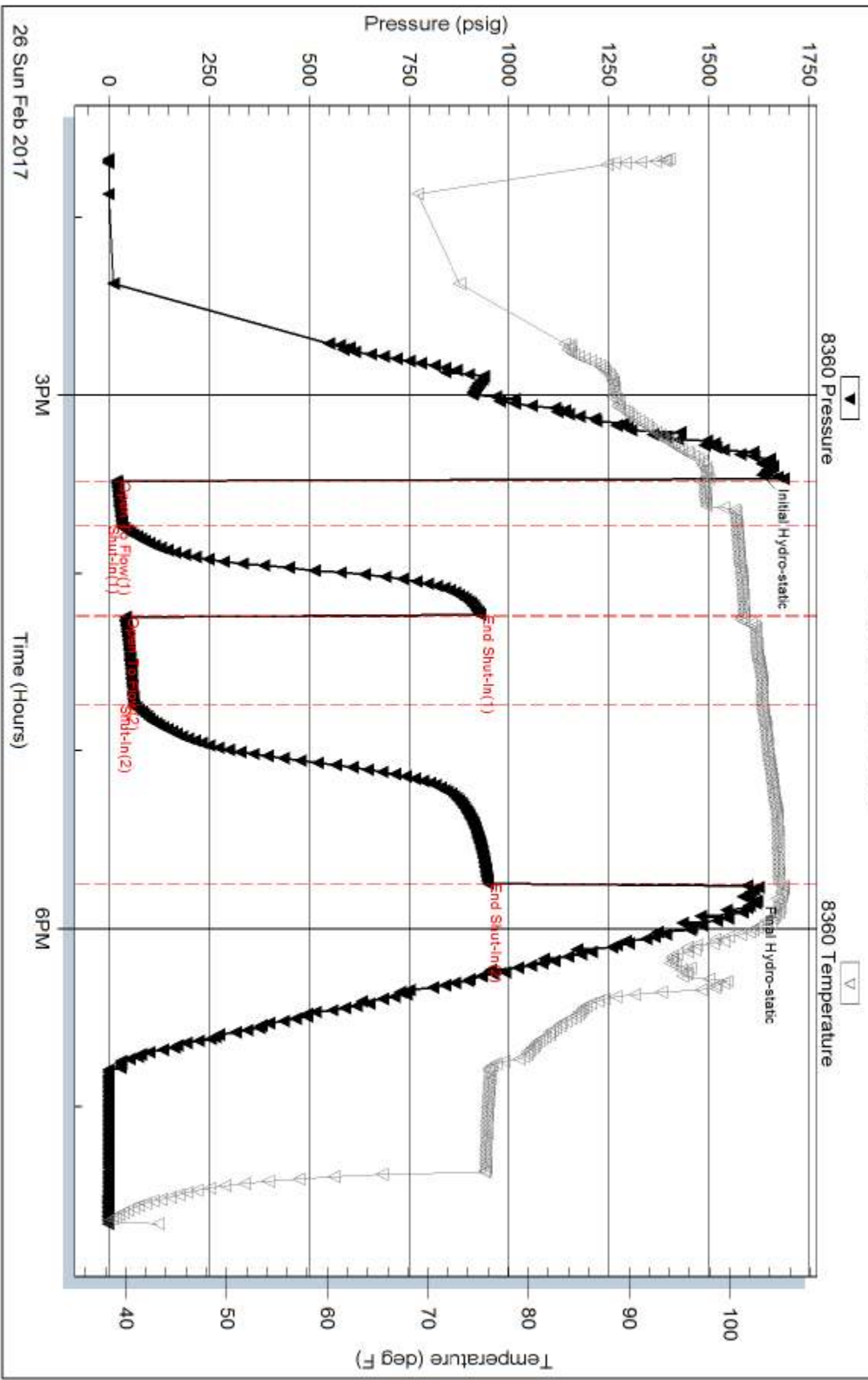
Total Length: 107.00 ft Total Volume: 1.501 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments: Sampler Data: PSI 1150# 500MLGas 300MLMud
1200ML Oil

Pressure vs. Time

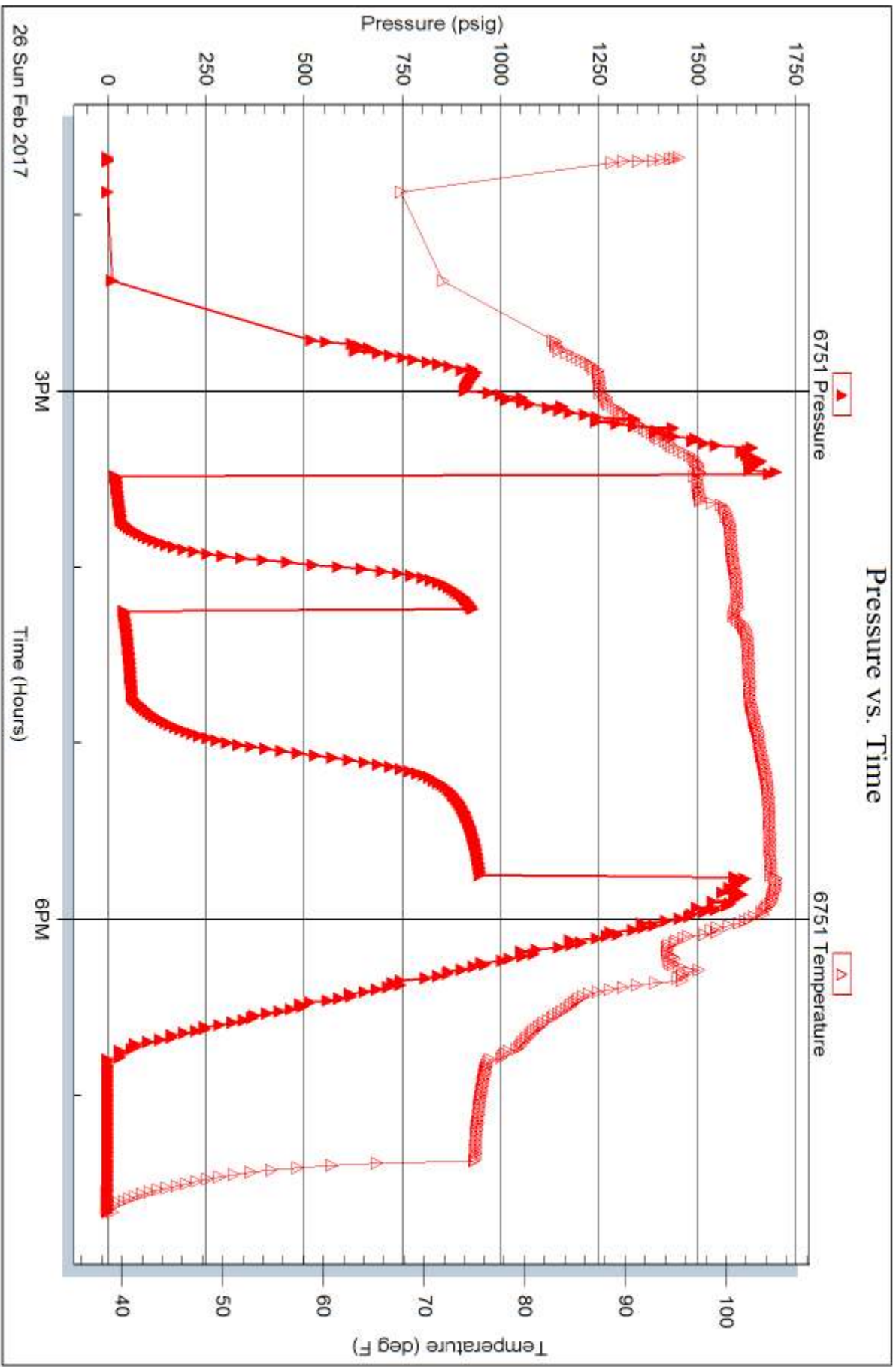


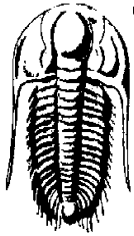
Serial #: 6751

Outside Coachman Energy Oper. Co. LLC

4-R Ranch 1-36-15-20

DST Test Number: 2





TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Coachman Energy Oper.Co. LLC

36-15s-20w Ellis

1125 17th St.
Suite 410
Denver Co 80202
ATTN: Charlie Sturdavant

4-R Ranch 1-36-15-20

Job Ticket: 64096 **DST#: 3**
Test Start: 2017.02.27 @ 14:26:00

GENERAL INFORMATION:

Formation: **LKC H-K**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 16:06:25
 Time Test Ended: 21:44:24
 Interval: **3548.00 ft (KB) To 3650.00 ft (KB) (TVD)**
 Total Depth: 3650.00 ft (KB) (TVD)
 Hole Diameter: 7.85 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Ray Schwager
 Unit No: 77
 Reference Elevations: 2133.00 ft (KB)
 2124.00 ft (CF)
 KB to GR/CF: 9.00 ft

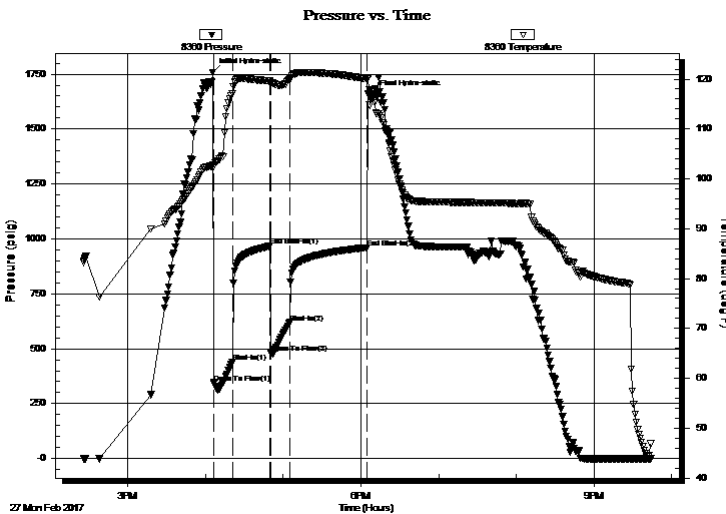
Serial #: 8360

Inside

Press@RunDepth: 618.64 psig @ 3553.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2017.02.27 End Date: 2017.02.27 Last Calib.: 2017.02.27
 Start Time: 14:26:00 End Time: 21:44:24 Time On Btm: 2017.02.27 @ 16:05:55
 Time Off Btm: 2017.02.27 @ 18:09:10

TEST COMMENT: 15-IFP-BOB in 1min
 30-ISIP-BOB BI Bk
 15-FFP-BOB , GTS thru-out
 60-FSIP-BOB BI Bk

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1757.72	102.77	Initial Hydro-static
1	341.61	102.44	Open To Flow (1)
15	440.61	117.15	Shut-In(1)
44	966.97	119.60	End Shut-In(1)
45	480.83	119.36	Open To Flow (2)
60	618.64	119.94	Shut-In(2)
119	960.10	120.01	End Shut-In(2)
124	1655.35	116.27	Final Hydro-static

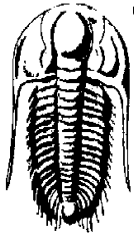
Recovery

Length (ft)	Description	Volume (bbl)
120.00	GMO 25%G25%M50%O	1.68
1930.00	CO	27.07
0.00	GTS	0.00

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Coachman Energy Oper.Co. LLC

36-15s-20w Ellis

1125 17th St.
Suite 410
Denver Co 80202
ATTN: Charlie Sturdavant

4-R Ranch 1-36-15-20

Job Ticket: 64096

DST#: 3

Test Start: 2017.02.27 @ 14:26:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 46.00 sec/qt
Water Loss: 7.80 in³
Resistivity: ohm.m
Salinity: 4900.00 ppm
Filter Cake: 1.00 inches

Cushion Type:
Cushion Length: ft
Cushion Volume: bbl
Gas Cushion Type:
Gas Cushion Pressure: psig

Oil API: 39 deg API
Water Salinity: ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
120.00	GMO 25%G25%M50%O	1.683
1930.00	CO	27.073
0.00	GTS	0.000

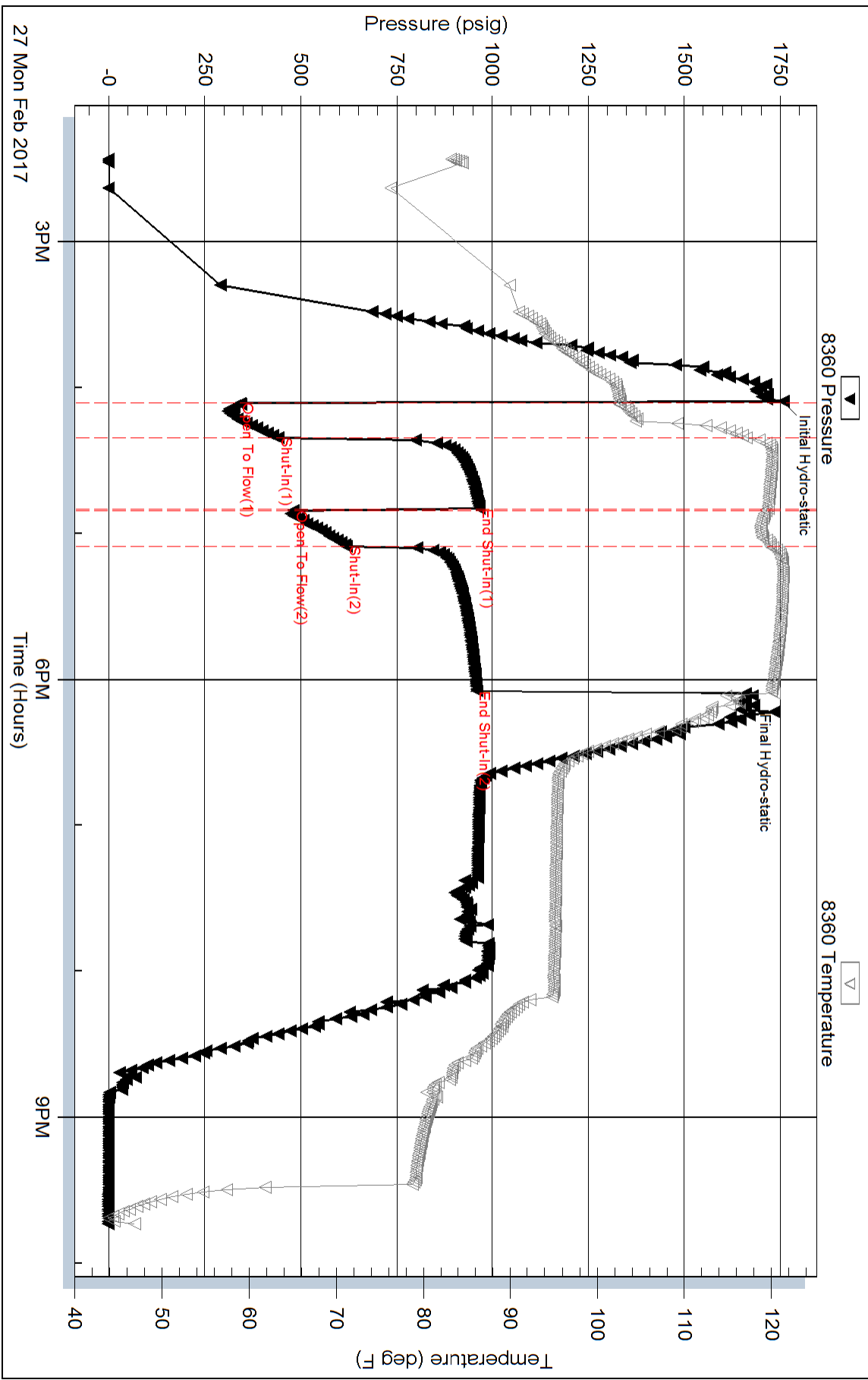
Total Length: 2050.00 ft Total Volume: 28.756 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments: Sampler Data: PSI 750 # 500MLGas 1500MLOil

Pressure vs. Time



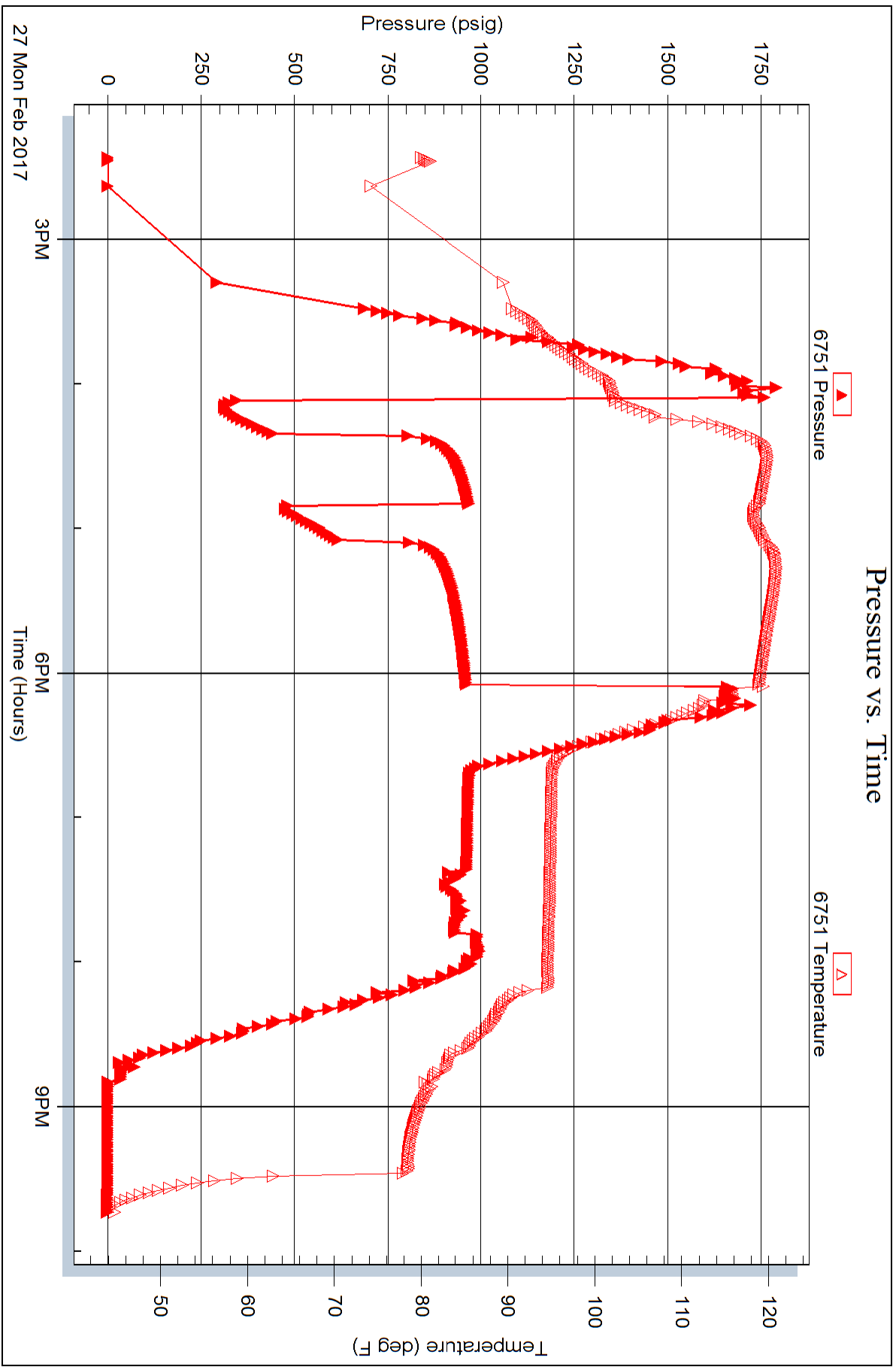
Serial #: 6751

Outside

Coachman Energy Oper. Co. LLC

4-R Ranch 1-36-15-20

DST Test Number: 3



Cynosure Energy, LLC

1401 17th Street, Suite 850
Denver, CO 80202

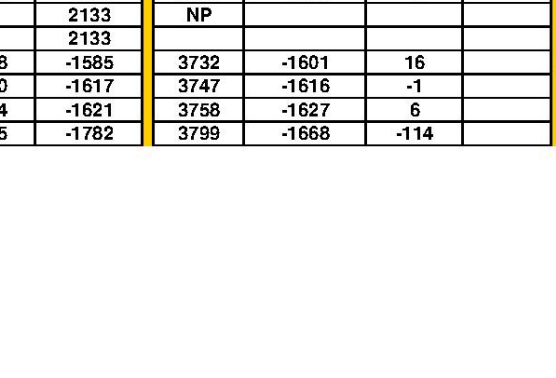
4-R Ranch # 1-36-15-20 588' FSL & 2225' FWL Sec. 36-T155-R20W Ellis County, Kansas KB = 2133'

Scale 1:240 Imperial

Well Name:	4R Ranch # 1-36-15-20
Surface Location:	588 FNL, 2225' FSL, Sec. 25-T155-R20W
Bottom Location:	588 FNL, 2225' FSL, Sec. 25-T155-R20W
API:	15-051-26863
License Number:	
Spud Date:	2/20/2017
Time:	4:45 PM
Drilling Coordinates:	
Time:	9:20 PM
Surface Computed:	2124.00ft
Bottom Hole Computed:	2133.00ft
Ground Elevation:	2930.00ft
Log Interval:	5.00ft
Total Depth:	3915.00ft
Formation:	Reagan
Drilling Fluid Type:	Chemical/Fresh Water Gel

Company:	Cynosure Energy LLC
Address:	1401 17th Street, Suite 850 Denver, CO 80202
Contact Geologist:	Gene Davis
Contact Phone Nbr:	720-272-9620
Well Name:	4R Ranch # 1-36-15-20
Location:	588 FNL, 2225' FSL, Sec. 25-T155-R20W
API:	15-051-26863
Pool:	
State:	Kansas
Field:	Post Rock South
Country:	USA

LOGGED BY



Company:	Charlie Sturdavant Consulting
Address:	920 12th Street Golden, CO 80401
Phone Nbr:	303-907-2295
Logged By:	Geologist
Name:	Charlie Sturdavant

NOTES

The Cynosure 4-R Ranch #1-36-15-20 well was drilled an RTD of 3915' and an LTD of 3915', bottoming in the Pre-Cambrian Granite. The geologist was on location, examining samples at 3907'. Sample shows of oil were noted in the Lansing A, C, D, E, F, H, I, and J.

Three DSTs were conducted in the Lansing, with rather encouraging results. DST #1 was a misrun. DST #2 recovered the same interval as DST #1; Lansing A-F 3419'-3515', and recovered 385' GIP, and 107' of H₂O/GCM (20% gas, 20% oil, and 60% mud), while test of the Lansing H-K zones (3548'-3650') recovered 1930' clean oil, 120' MGO (25% gas, 25% mud, 50% oil). It also had GTS on the second open.

Based on the sample shows, DST results, and log analysis, it was determined by all parties involved that the well should be further tested through production casing.

The samples were saved and will be available for review at the Kansas Geological Survey well sample library, located in Wichita, Kansas.

Respectfully submitted,
Charlie Sturdavant
Consulting Geologist

Well Comparison Sheet

CHARLIE STURDAVANT CONSULTING

WELL COMPARISON SHEET

DRILLING WELL	COMPARISON WELL	COMPARISON WELL
Cynosure 4R Ranch # 1-36-15-20 588 FNL & 2225' FWL Sec. 25-T155-R20W File Co. KB	4R Ranch # 1-36-15-20 740' FSL & 2605' FWL Sec. 25-T155-R20W File Co. KB	Cynosure Energy Well #1-36-15-20 700' FNL & 330' FWL Sec. 25-T155-R20W File Co. KB
Sample	Sub-Seq	Sub-Seq
Anyhdyrite Top	1363	1363
Bottom Anyhdyrite	1403	1403
Tarbo	1454	1454
King Hill	3111	3111
Queen Hill	3296	3296
Formosa	3405	3405
Lansing	3430	3430
Ferobio	3629	3629
Base KC	3668	3668
Marmaton	3699	3699
Prairie	3744	3744
Permian Shale	3748	3748
Pre-Cambrian Granite	3764	3764
Total Depth	3915	3915

Daily Drilling Report

CHARLIE STURDAVANT CONSULTING

DAILY DRILLING REPORT

Company:	Charlie Sturdavant Consulting
Address:	920 12th Street Golden, CO 80401
Operator:	Cynosure Energy, LLC
Gene Davis	720-476-3678
Ben Jackson	720-476-3678
Website Geologist:	Charlie Sturdavant
Cell:	303-907-2295
Office:	303-384-9481
Location:	4R Ranch # 1-36-15-20
Well:	588 FNL & 2225' FWL
Sec:	25-T155-R20W
File Co.:	KB
Elevation:	2124.00
Field:	Post Rock South
County:	Ellis County, Kansas
Surface Casing:	8" 8" set @ 321'

Drilling Contractor:	Duke Drilling Co. Rig #4-620-790-0633, Tool Pusher: REMTones call: 620-785-8534
DATE	7:00 AM - 6:00 PM
2/20/2017	01H Spud @ 1845 hrs.
2/21/2017	300 ft. Drilling ahead. Set 5 joints of new 6-5/8" 24# surface csg @ 221'. Cemented w/ 17% slt @ 60.00 sec mix. Plug down @ 2145 hrs.
2/22/2017	1620 ft. Drilling ahead. Set 5 joints of new 6-5/8" 24# surface csg @ 221'. Cemented w/ 17% slt @ 60.00 sec mix. Plug down @ 2145 hrs.
2/23/2017	2411 ft. Drilling ahead.
2/24/2017	2863 ft. Drilling ahead. Geologist on location @ 1700 hrs. @ 3900 feet.
2/25/2017	3111 ft. Drilling ahead.
2/26/2017	3515 ft. Conducting DST #1: 3419'-3515'. Minum. Run DST #2: 3419'-3515'. Rec: 385' GIP, 107' of H ₂ O/GCM (20% gas, 20% oil, and 60% mud). SIF: 925-9448.
2/27/2017	3606 ft. Drilling ahead. Conducted DST #3: 3648'-3650'. Rec: 1930' Clean gas oil, 120' MGO (25% gas, 25% mud, 50% oil). SIF: 925-9448.
2/28/2017	3744 ft. Drilling ahead. Gassy mud @ 21% gas, 25% mud, 50% oil. SIF: 925-9448. CFS. RTD reached @ 2130 hrs. at 3915'. Logged by Pioneer Energy Services.
3/1/2017	3915 ft. Pioneer Energy Services completed logging operations @ 1900 hrs. Logging Services commenced @ 8600 hrs. Casing crew running production csg. Geologist off location @ 1100 hrs.

SURFACE CO-ORDINATES

Well Type:	Vertical
Longitude:	-99.497088
Latitude:	38.709524
NIS Co-ord:	
E/W Co-ord:	

CONTRACTOR

Rig #:	Duke Drilling Co. 2
Rig Type:	mud rotary
Spud Date:	2/20/2017
TD Date:	3/1/2017
Rig Release:	
Time:	4:45 PM
Time:	9:20 PM

ELEVATIONS

K.B. Elevation:	2133.00ft
K.B. to Ground:	9.00ft
Ground Elevation:	2124.00ft

ROCK TYPES

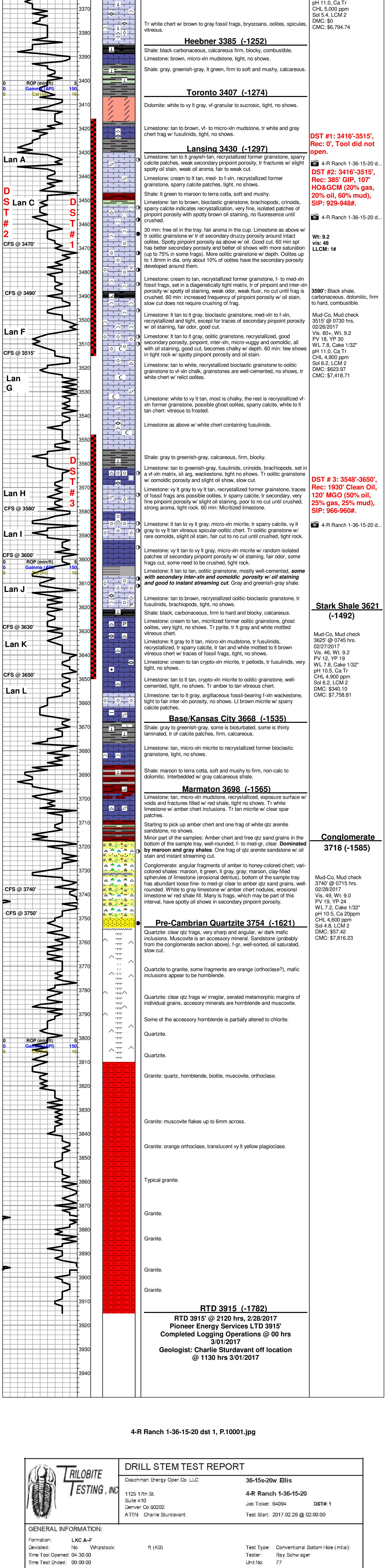
Chl var	Chert white	Lmsl fw-7	Shaly	Quartz	Igneocidic
Chert blk	Chert blk	Lmsl fw-8	Shale, gray	Shale, red	
Dolomite	Dolomite	Lmsl fw-9	Shale, grn	Carbon sh	
Siliceous	Siliceous				

ACCESSIONS

MINERAL	Fossil	STRAT./SED. STRUCTS	STRINGER	TEXTURE
Argillaceous	Algal	Unconformity	Sandstone	C Chalky
Chert white	Bioherm or Fragmental	Distribution (non spec)		
Chert blk	Brachiopod			
Dolomite	Byzance			
Siliceous	Corals			
	Fusulinid			
	Coiled			
	Coiled			
	Peloids			
	Spicules			

OTHER ABBREVIATIONS

MISC	DST
Daily Report	DST Int
Digital Photo	DST Int
Document	
Folder	
Link	
Vertical Log File	
Horizontal Log File	
Core Log File	
Drill Cuttings Ppt	



ROP (min)	Gamma (API)	Depth (ft)	Interval
0	150	0	150
10	150	10	150
20	150	20	150
30	150	30	150
40	150	40	150
50	150	50	150
60	150	60	150
70	150	70	150
80	150	80	150
90	150	90	150
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460	150	460	150
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920	150	920	150
930	150	930	150
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1270	150	1270	150
1280	150	1280	150
1290	150	1290	150
1300	150	1300	150
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1320	150	1320	150
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1380	150	1380	150
1390</			

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BP

MAR 20 2017

Date: 3/13/2017
Invoice # 117

P.O.#:

Due Date: 4/12/2017

Division: Russell



QUALITY OILWELL CEMENTING, INC.

PO Box 32 - 740 West Wichita Ave, Russell KS 67665

Phone: 785-324-1041 fax: 785-483-1087

Email: cementing@ruraltel.net

Invoice

Contact:
CYNOSURE ENERGY LLC
Address/Job Location:

1125 17th Street, Suite 410
DENVER CO 80113



Reference:
4 R RANCH 1-36

Description of Work:
PORT COLLAR JOB

APPROVED
By Bob Plante at 9:05 pm, Mar 20, 2017

Services / Items Included:

	Quantity	Price	Taxable	Item	Quantity	Price	Taxable
Labor		\$ 489.84	No				
Multi Density- 80/20	275	\$ 3,170.59	Yes				
Bulk Truck Matl-Material Service Charge	400	\$ 263.53	No				
Flo Seal	100	\$ 131.76	Yes				
Pump Truck Mileage-Job to Nearest Camp	22	\$ 65.22	No				
Bulk Truck Mileage-Job to Nearest Bulk Plant	22	\$ 50.73	No				

Invoice Terms:

Net 30

SubTotal: \$ 4,171.67

Discount Available ONLY if Invoice is Paid & Received within listed terms of invoice: \$ (104.29)

SubTotal for Taxable Items: \$ 3,219.79

SubTotal for Non-Taxable Items: \$ 847.58

Total: \$ 4,067.38

Tax: \$ 225.39

7.00% Ellis County Sales Tax

Amount Due: \$ 4,292.77

Applied Payments:

Balance Due: \$ 4,292.77

Thank You For Your Business!

Past Due Invoices are subject to a service charge (annual rate of 24%)

This does not include any applicable taxes unless it is listed.

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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. 117

Date	3-13-17	Sec.		Twp.		Range		County	Ellis	State	KS	On Location		Finish	12:00pm	
Location													Schroeder 9 1/2w Sinto			
Lease	4 R Ranch				Well No.	1-36		Owner								
Contractor	Express				To Quality Oilwell Cementing, Inc.											
Type Job	Port Collar				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					T.D.	Charge To										
Csg.	5 1/2				Depth	Cochman - 275 Cynosure										
Tbg. Size	2 3/8				Depth	Street										
Tool	Quality Opening Tool				Depth	1362		City								
Cement Left in Csg.					Shoe Joint	State										
The above was done to satisfaction and supervision of owner agent or contractor.													Cement Amount Ordered		400 3/20 QMDC 1/4 #Flb	
Meas Line					Displace	5.31		Common								
EQUIPMENT													275 3/20 QMDC			
Pumptrk	5 No. Cement Helper Craig				Poz. Mix											
Bulktrk	No. Driver Brett				Gel.											
Bulktrk	19 No. Driver Doug				Calcium											
JOB SERVICES & REMARKS													Hulls			
Remarks:	KCC Pat Staab				Salt											
Rat Hole					Flowseal 100#											
Mouse Hole					Kol-Seal											
Centralizers					Mud CLR 48											
Baskets					CFL-117 or CD110 CAF 38											
D/V or Port Collar					Sand											
Tool @ 1362 Test 5 1/2 to 900#													Handling		400	
Spot mud down to Port Collar, open													Mileage			
Test & pump mud to get circulation.													FLOAT EQUIPMENT			
Mixed 275 3/20 Cement Circulated.													Guide Shoe			
Close Tool & Test to 900#													Centralizer			
Run 5 joints + wash clean.													Baskets			
USED 275 3/20													AFU Inserts			
													Float Shoe			
													Latch Down			
													Pumptrk Charge			
													Mileage		22	
													Tax			
													Discount			
													Total Charge			
Signature													Bob Mout			



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MAR 07 2017

1473

Date: 3/1/2017
Invoice # 1664

P.O.#:

Due Date: 3/31/2017

Division: Russell

QUALITY OILWELL CEMENTING, INC.
PO Box 32 - 740 West Wichita Ave, Russell KS 67665
Phone: 785-324-1041 fax: 785-483-1087
Email: cementing@ruraltel.net

BP

Invoice

Contact:
CYNOSURE ENERGY LLC
Address/Job Location:

1125 17th Street, Suite 410
DENVER CO 80113

Reference:
4-HRANCH 1-36-15-20



Description of Work:
PROD STRING

APPROVED

By Bob Plante at 10:44 pm, Mar 09, 2017

Services / Items Included:

Quantity	Price	Taxable	Item	Quantity	Price	Taxable
Labor	\$ 501.64	No	Pump Truck Mileage-Job to Nearest Camp	22	\$66.80	No
Common-Class A	\$ 2,016.00	Yes	Bulk Truck Mileage-Job to Nearest Bulk Plant	22	\$51.95	No
Cement Port Collar, 5 1/2"	\$ 1,754.22	Yes				
Gilsonite	\$ 910.84	Yes				
5 1/2" Turbolizer	\$ 582.94	Yes				
5 1/2" Basket	\$ 566.75	Yes				
Mud Clear	\$ 249.64	Yes				
Auto Fill Float Shoe, 5 1/2"	\$ 226.70	Yes				
Latch Down Plug & Baffle, 5 1/2"	\$ 179.47	Yes				
Salt (Fine)	\$ 132.58	Yes				
Bulk Truck Mat-Material Service Charge	\$ 137.64	No				

Invoice Terms:

Net 30

SubTotal: \$ 7,377.16

Discount Available ONLY if Invoice is Paid & Received within listed terms of invoice: \$ (184.43)

SubTotal for Taxable Items: \$ 6,453.65

SubTotal for Non-Taxable Items: \$ 739.07

Total: \$ 7,192.73

Tax: \$ 451.76

Amount Due: \$ 7,644.49

Applied Payments:

Balance Due: \$ 7,644.49

7.00% Ellis County Sales Tax

Thank You For Your Business!

Past Due Invoices are subject to a service charge (annual rate of 24%)
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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. 1664

Date	3-1-17	Sec.	36	Twp.	15	Range	20	County	Ellis	State	Ks	On Location		Finish	6:45 PM
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Lease	4-R Ranch	Location	Schoenchen - 9 1/2 W, S into
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Well No.	1-36-15-20	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.
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Contractor	Duke 4	Charge To	Coachman Energy
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Type Job	Longstring	Street	
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Hole Size	7 7/8"	T.D.	3915'	City		State	
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Csg.	15.50 5 1/2" New	Depth	3840'	The above was done to satisfaction and supervision of owner agent or contractor.		
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Tbg. Size		Depth		Cement Amount Ordered 180 Pro-C 10% Salt 5%		
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Tool	Port Collar	Depth	1363'	Cement Line Displace 90 3/4 BLS Gilsonite - 500 gal mud Clear 48		
------	-------------	-------	-------	--	--	--

Cement Left in Csg.	22'	Shoe Joint	22'	Common 180		
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Meas Line		Displace	90 3/4 BLS	Common 180		
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EQUIPMENT				Common 180		
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Pumptrk	20	No.	Cement Helper	Nick	Poz. Mix	
---------	----	-----	---------------	------	----------	--

Bulktrk	15	No.	Driver	David	Gel.	
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Bulktrk	pu.	No.	Driver	Rick	Calcium	
---------	-----	-----	--------	------	---------	--

JOB SERVICES & REMARKS				Hulls		
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Remarks:	180 Q Pro-C 10% Salt 5% Gilsonite			Salt 15		
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Rat Hole		Flowseal				
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Mouse Hole		Kol-Seal 900#				
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Centralizers	2, 4, 5, 6, 7, 58, 8, 9, 89, 68	Mud CLR 48 500 gal				
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Baskets	1, 94, 70, 69	CFL-117 or CD110 CAF 38				
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D/V or Port Collar	Jt. #94	1363'				
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Pipe on bottom break Circulation pump 500 gal mud Clear 48 plug Rathole w/ 300x pump 150 sx down casing shut down wash pump + lines Released plug + Displaced w/ 90 3/4 BLS. Released + held. Lift pressure 650 # Land plug to 1500 #				Handling 204		
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FLOAT EQUIPMENT						
Guide Shoe	1	Port collar				
Centralizer	12					
Baskets	3					
AFU Inserts						
Float Shoe	1					
Latch Down	1					
		Rotating head Assy				
Pumptrk Charge		prod string				
Mileage	22					

X Signature Bob Plant

Tax	
Discount	
Total Charge	

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FEB 27 2016

1473
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QUALITY OILWELL CEMENTING, INC.
PO Box 32 - 740 West Wichita Ave, Russell KS 67665
Phone: 785-324-1041 fax: 785-483-1087
Email: cementing@ruraltel.net

Date: 2/20/2017
Invoice # 7348
P.O.#:
Due Date: 3/22/2017
Division: Russell

Invoice

Contact:
CYNOSURE ENERGY LLC
Address/Job Location:

1125 17th Street, Suite 410
DENVER CO 80113

Reference:
4-R RANCH 1-36-15-20

Description of Work:
SURFACE JOB

\$300.210
Cement Services

Services / Items Included:	Quantity	Price	Taxable	Item	Quantity	Price	Taxable
Labor		\$ 479.24	No				
Common-Class A	140	\$ 1,498.00	Yes				
Calcium Chloride	7	\$ 252.67	Yes				
POZ Mix-Standard	35	\$ 157.92	Yes				
Bulk Truck Matl-Material Service Charge	185	\$ 119.25	No				
Pump Truck Mileage-Job to Nearest Camp	22	\$ 63.81	No				
Premium Gel (Bentonite)	3	\$ 56.08	Yes				
Bulk Truck Mileage-Job to Nearest Bulk Plant	22	\$ 49.63	No				

APPROVED
By Bob Plante at 10:50 pm, Mar 09, 2017

Invoice Terms:

Net 30

	SubTotal:	\$	2,676.61
	Discount Available <u>ONLY</u> if Invoice is Paid & Received within listed terms of invoice:	\$	(66.92)
<hr/>			
	SubTotal for Taxable Items:	\$	1,915.56
	SubTotal for Non-Taxable Items:	\$	694.14
<hr/>			
	Total:	\$	2,609.69
	Tax:	\$	134.09
<hr/>			
	7.00% Ellis County Sales Tax		

Thank You For Your Business!

Amount Due: \$ 2,743.78
Applied Payments:
Balance Due: \$ 2,743.78

Past Due Invoices are subject to a service charge (annual rate of 24%)
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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. 7348

Date	Sec.	Twp.	Range	County	State	On Location	Finish
2-20-17	36	15	20	Ellis	KS		9:45pm
				Location Schornchen 9 1/2w Sinto			
Lease 4-R Ranch		Well No. 1-36-15-20		Owner			
Contractor DUKE #4				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.			
Type Job Surface				Charge To Coachman Coachman			
Hole Size 12 1/4		T.D. 222		Street Cynosure Energy			
Csg. 8 5/8		Depth 221		City State			
Tbg. Size		Depth		The above was done to satisfaction and supervision of owner agent or contractor.			
Tool		Depth		Cement Amount Ordered 175 80/20 3' 1/2 2' 1/2 6' 2'			
Cement Left in Csg. 10'		Shoe Joint					
Meas Line		Displace 13 B C					
EQUIPMENT				Common 140			
Pumptrk 16	No.	Cementer	na/g	Poz. Mix 35			
		Helper	Brett	Gel. 3			
Bulktrk	No.	Driver		Calcium 7			
Bulktrk 15	No.	Driver	Doug				
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			
8 5/8 on bottom Est. Circulation				Handling 185			
M. X 175 SK & Displace				Mileage			
Cement Circulated!				FLOAT EQUIPMENT			
				Guide Shoe 8 5/8 Surge			
				Centralizer			
				Baskets			
				AFU Inserts			
				Float Shoe			
				Latch Down			
				Pumptrk Charge Surface			
				Mileage 27			
				Tax			
				Discount			
				Total Charge			
Signature Bob Plunk							