

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 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](mailto: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:	
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**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Triple Crown Operating, LLC

**27-20S-22W Ness, KS**

2201 S. Utica Pl.  
Ste. 100  
Tulsa, OK 74114  
ATTN:

**McJunkin #1-27**

Job Ticket: 63290

**DST#: 1**

Test Start: 2017.08.22 @ 13:53:39

## GENERAL INFORMATION:

Formation: **Miss**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:27:09

Time Test Ended: 21:56:09

Test Type: Conventional Bottom Hole (Initial)

Tester: Brannan Lonsdale

Unit No: 73

**Interval: 4258.00 ft (KB) To 4321.00 ft (KB) (TVD)**

Reference Elevations: 2176.00 ft (KB)

Total Depth: 4321.00 ft (KB) (TVD)

2171.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

## Serial #: 6753

Press@RunDepth: 758.00 psig @ ft (KB)

Capacity: 8000.00 psig

Start Date: 2017.08.22 End Date: 2017.08.22

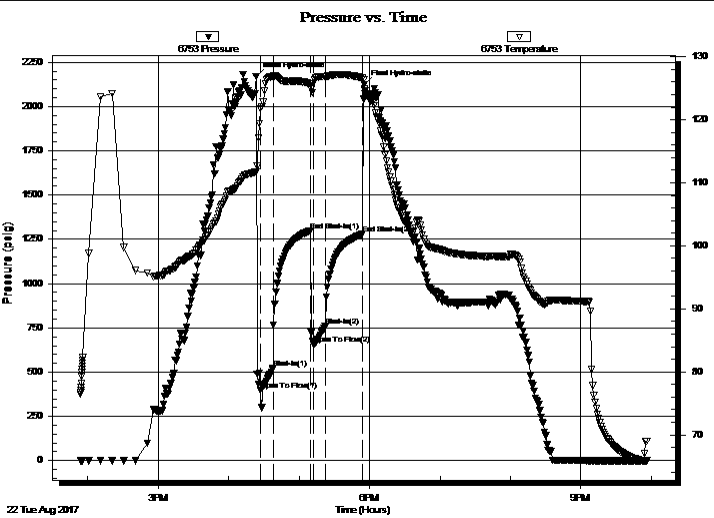
Last Calib.: 2017.08.22

Start Time: 13:53:44 End Time: 21:56:08

Time On Btm: 2017.08.22 @ 16:23:09

Time Off Btm: 2017.08.22 @ 17:55:39

**TEST COMMENT:** 15- IF- BOB 20secs  
30- ISL- Slow ly built to 3" then died back to 2"  
15- FF- BOB 10secs  
30- FSI- Slow ly built to 3" then died back to 2"



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2169.57	111.76	Initial Hydro-static
4	398.04	121.76	Open To Flow (1)
15	521.88	126.86	Shut-In(1)
47	1298.51	125.68	End Shut-In(1)
49	660.26	125.79	Open To Flow (2)
59	758.00	126.84	Shut-In(2)
91	1279.20	126.64	End Shut-In(2)
93	2124.06	124.87	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
2236.00	GMCO, 25%G 65%O 10%M	30.60
0.00	159' GIP	0.00

## Gas Rates

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





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Triple Crown Operating, LLC

**27-20S-22W Ness, KS**

2201 S. Utica Pl.  
Ste. 100  
Tulsa, OK 74114  
ATTN:

**McJunkin #1-27**

Job Ticket: 63290

**DST#: 1**

Test Start: 2017.08.22 @ 13:53:39

## Mud and Cushion Information

Mud Type: Gel Chem  
Mud Weight: 9.00 lb/gal  
Viscosity: 56.00 sec/qt  
Water Loss: 9.59 in<sup>3</sup>  
Resistivity: ohm.m  
Salinity: 5000.00 ppm  
Filter Cake: inches

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

Oil API: 32 deg API  
Water Salinity: ppm

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
2236.00	GMCO, 25%G 65%O 10%M	30.604
0.00	159' GIP	0.000

Total Length: 2236.00 ft      Total Volume: 30.604 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

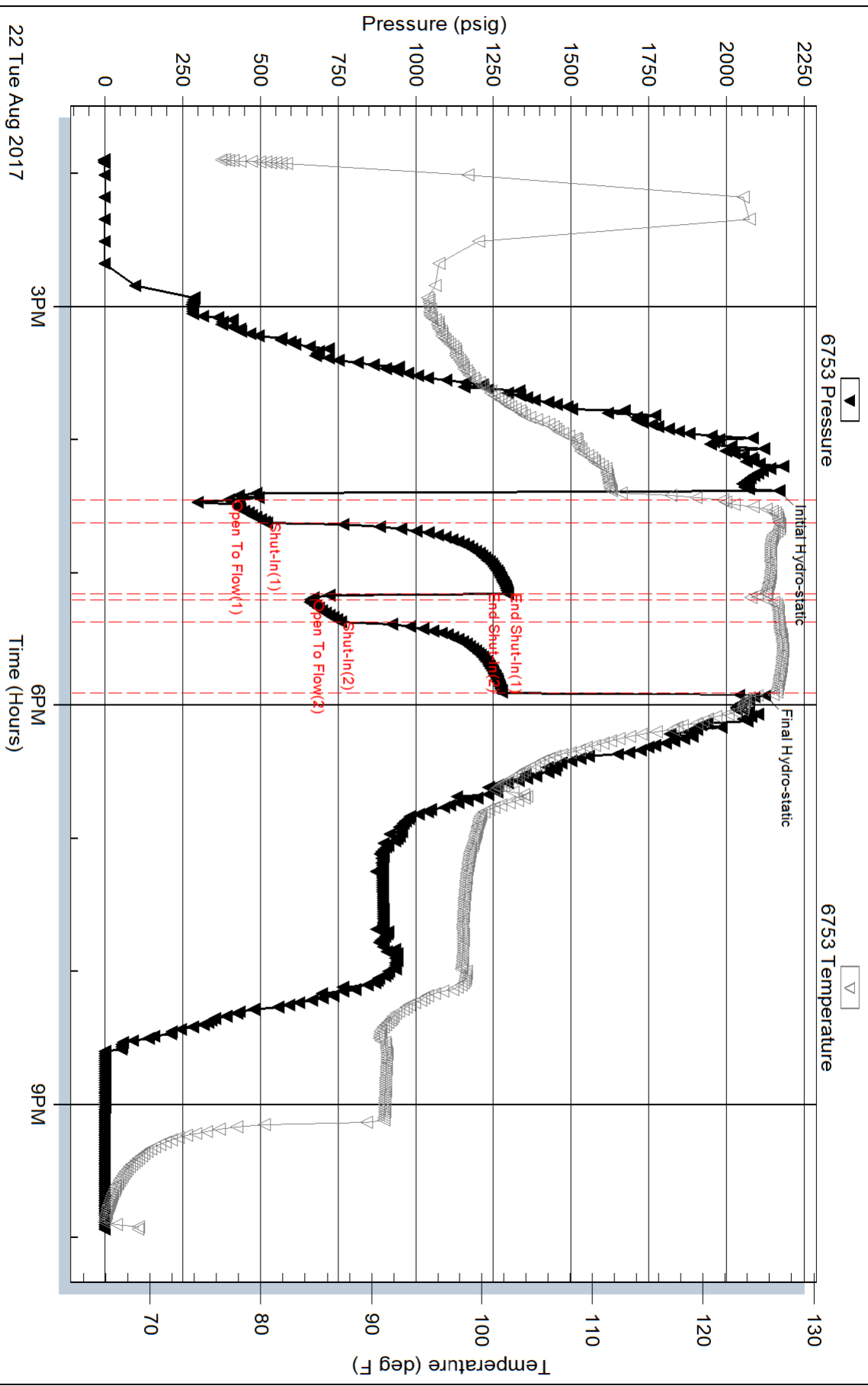
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

### Pressure vs. Time



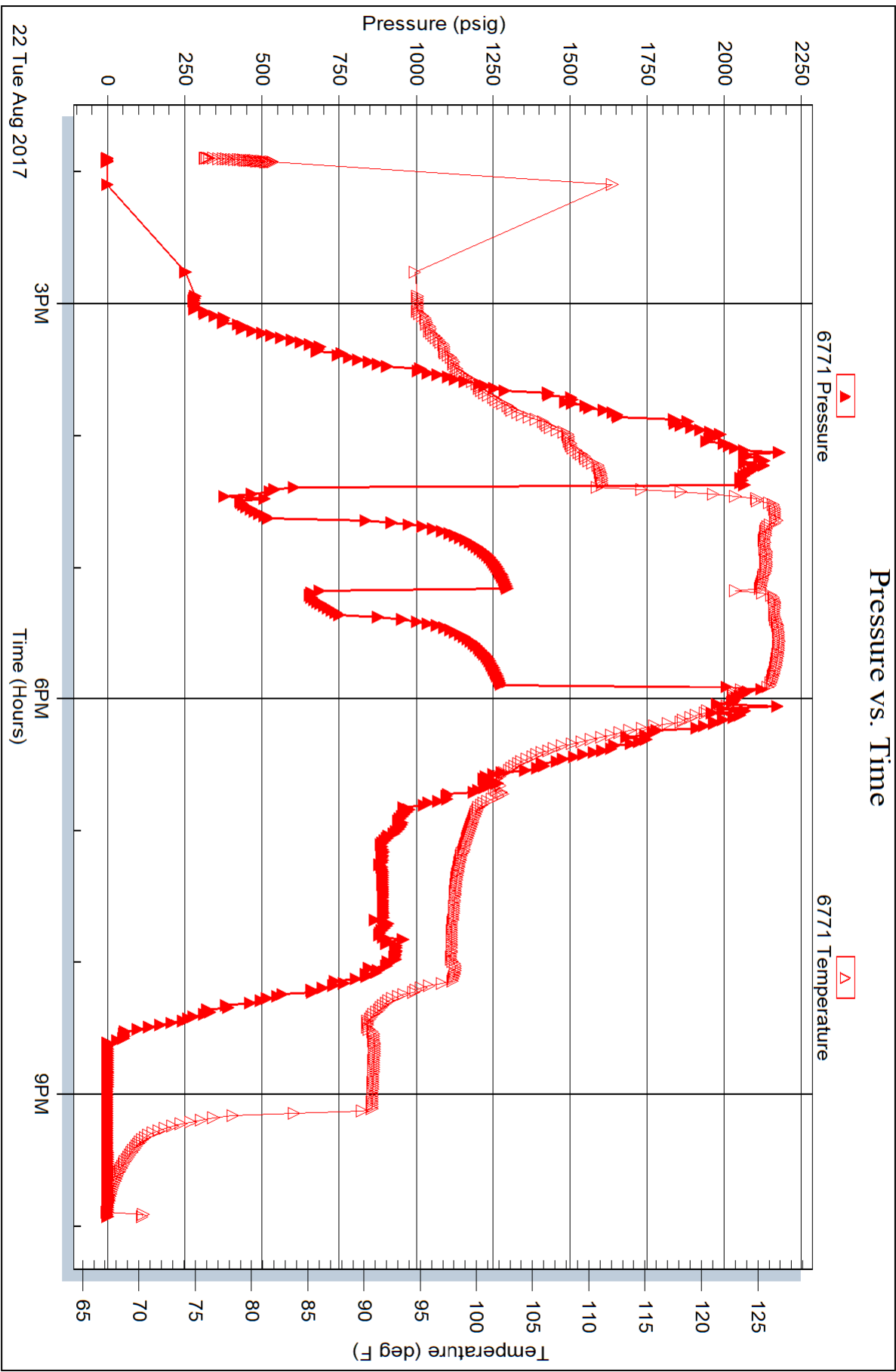
Serial #: 6771

Inside

Triple Crown Operating, LLC

McJunkin #1-27

DST Test Number: 1





# 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. 1894

Date	Sec.	Twp.	Range	County	State	On Location	Finish
8-23-17	27	20	22	Ness	KS		7:45 PM
Location				Bazine + DD Rd 115 to R20 4W 15 1E			
Lease <u>McJunkin</u>			Well No. <u>1-27</u>		Owner		
Contractor <u>W W 8</u>					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 <u>Production String</u>					Charge To <u>Triple Crown Operations LLC</u>		
Hole Size <u>7 7/8</u>		T.D. <u>4338</u>		Street			
Csg. <u>5 1/2</u>		Depth <u>4325.5</u>		City			
Tbg. Size		Depth		State			
Tool		Depth		The above was done to satisfaction and supervision of owner agent or contractor.			
Cement Left in Csg.		Shoe Joint <u>38.35</u>		Cement Amount Ordered <u>200 cam 10% salt</u>			
Meas Line		Displace <u>99 1/2 bbl</u>		<u>5% Gilsomite</u>			
<b>EQUIPMENT</b>				Common <u>200</u>			
Pumptrk <u>16</u>	No.	Cement Helper <u>Brett</u>		Poz. Mix			
Bulktrk <u>14</u>	No.	Driver <u>Travis</u>		Gel.			
Bulktrk	No.	Driver <u>Doug</u>		Calcium			
<b>JOB SERVICES &amp; REMARKS</b>				Hulls			
Remarks:				Salt <u>16</u>			
Rat Hole - <u>30 sx</u>				Flowseal			
Mouse Hole				Kol-Seal <u>900#</u>			
Centralizers - <u>2, 4, 6, 8, 11, 14, 17 + 21</u>				Mud CLR 48 - <u>500 gal</u>			
Baskets - <u>3 + 22</u>				GFL-117 or CB110 GAF-38 <u>20 bbl KCL</u>			
D/V or Port Collar				Sand			
Ran <u>4325.5 ft</u> of <u>5 1/2</u> + Est Cir				Handling			
Drop Ball to set Packer @				Mileage <u>5 1/2</u>			
Mix <u>500 gal</u> Mud Flush + <u>20 bbl KCL</u>				<b>FLOAT EQUIPMENT</b>			
Plugged Rat hole <u>30 sx</u>				Guide Shoe			
Mixed <u>170 sx</u>				Centralizer - <u>8</u>			
Displaced <u>99 1/2 bbl H<sub>2</sub>O</u>				Baskets - <u>2</u>			
Lift pressure @ <u>900 lbs</u>				AFU Inserts			
Landed Plug @ <u>1600 lbs</u>				Float Shoe			
				Latch Down - <u>1</u>			
				Packer Shoe - <u>1</u>			
				Pumptrk Charge <u>prod string</u>			
				Mileage <u>25</u>			
X Signature <u>[Signature]</u>				Tax			
				Discount			
				Total Charge			

# QUALITY OILWELL CEMENTING, INC.


Federal Tax I.D.# 20-2886107

Phone 785-483-2025

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

No. 288

Cell 785-324-1041

Date	8-17-17	Sec.	27	Twp.	20	Range	22	County	Ness	State	Ks	On Location		Finish	11:30 PM		
Lease	McJunkin		Well No.		1-27		Owner		Z Rd, 15 to 10 Rd, 1/2 IE to AA Rd								
Contractor	W W #8		Location		Bazine - DD Rd 5 to 20 Rd, 4 W to												
Type Job	Surface		To Quality Oilwell Cementing, Inc.		NI Info												
Hole Size	12 1/4"		T.D.		1397'		Charge To		Triple Crown								
Csg.	8 5/8"		Depth		<del>1397</del>		Street										
Tbg. Size			Depth		1395.81'		City		State								
Tool			Depth				The above was done to satisfaction and supervision of owner agent or contractor.										
Cement Left in Csg.	38.26'		Shoe Joint		38.26'		Cement Amount Ordered		400 70/30 3+2 1/2 # Flo seal								
Meas Line			Displace		86 1/2 BLS		150 Com		3+2 1/2 # Flo-seal								
<b>EQUIPMENT</b>								Common								430	
Pumptrk	16 No.		Cementer		Travis		Rick		Poz. Mix		120						
Bulktrk	21 No.		Driver		Glenn				Gel.		16						
Bulktrk	9 No.		Driver		David				Calcium		22						
<b>JOB SERVICES &amp; REMARKS</b>								Hulls									
Remarks:	Cement did		Circulate				Salt										
Rat Hole			Flowseal		200 #												
Mouse Hole			Kol-Seal														
Centralizers	7, 9, 11, 13, 15, 17, 19, 21, 24		Mud CLR		48												
Baskets	16, 25		CFL-117 or CD110 CAF		38												
D/V or Port Collar			Sand														
Lift pressure	600 #		Handling		584												
Land plug	1000 #		Mileage														
Shut in @	500 #		<b>FLOAT EQUIPMENT</b>														
			Guide Shoe		1 weld-on												
			Centralizer		9												
			Baskets		2 w/ clamps												
			AFU Inserts		Baffle plate												
			Float Shoe		Rubber plug												
			Latch Down														
			Pumptrk Charge		Long Surface												
			Mileage		25												
												Tax					
												Discount					
												Total Charge					
X Signature 																	

# Sean Deenihan

## Petroleum Geologist

### GEOLOGIST'S REPORT

#### DRILLING TIME AND SAMPLE LOG

COMPANY **Triple Crown Operating, LLC**  
 LEASE **McJunkin #1-27**  
 FIELD **Wildcat**  
 LOCATION **2513 FNL & 475 FWL**  
 SEC **27** TWPSP **20 S** RGE **22 W**  
 COUNTY **Ness** STATE **Kansas**  
 CONTRACTOR **W.W. Drilling Rig #8**  
 SPUD **8/15/17** COMP **8/22/16**  
 RTD **4321'** LTD **4338'**  
 MUD UP **TYPE MUD** **Chemical**  
 SAMPLES SAVED FROM **3500'** TO **RTD**  
 DRILLING TIME KEPT FROM **3500'** TO **RTD**  
 SAMPLES EXAMINED FROM **3500'** TO **RTD**  
 GEOLOGICAL SUPERVISION FROM **3550'**  
 REFERENCE WELL **CND/DL GR SON Gemini**

#### ELEVATIONS

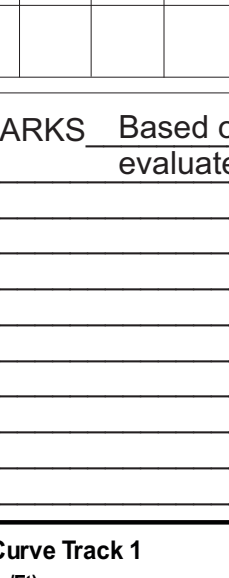
KB **2176'**  
 DF \_\_\_\_\_  
 GL **2171'**

Measurements Are All From Kelly Bushing  
**CASING**  
 CONDUCTOR \_\_\_\_\_  
 SURFACE **8-5/8"** at **1397'**  
 PRODUCTION **5.5"** @ **TD**

#### ELECTRICAL SURVEYS

Gemini  
**CND/DL GR SON**

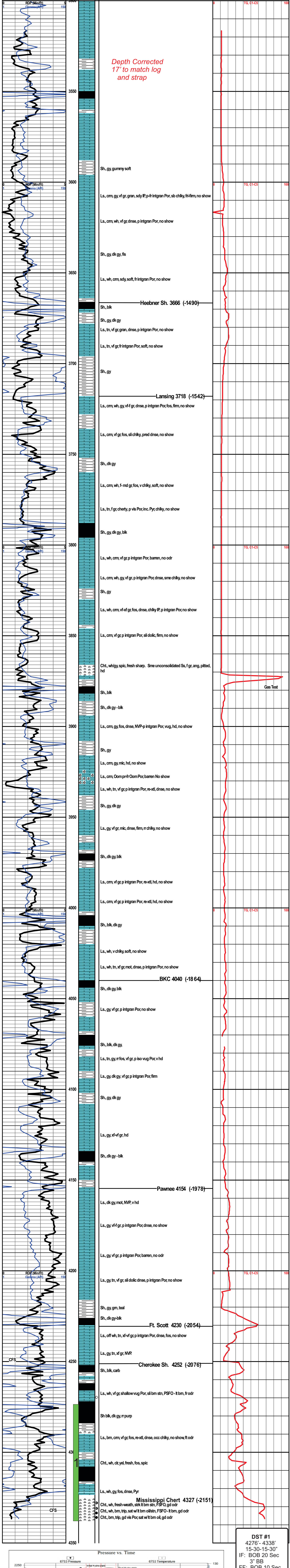
Formation	Sample Tops	E-log Tops	Struct Pos.
B/Anhydrite		1395 (-781)	
Heebner Sh		3666 (-1490)	
Lansing		3718 (-1542)	
Marraton		4078 (-1902)	
Ft. Scott		4230 (-2054)	
Cherokee Sh		4252 (-2076)	
Mississippi		4327 (-2151)	



REMARKS **Based on sample, log, and DST analysis, the McJunkin#1-27 will be further evaluated through production casing.**

Respectfully Submitted,

Sean P. Deenihan



**DST #1**  
 4276' - 4338'  
 15-30-15-30"  
 IF: BOB 20 Sec  
 3" BB  
 FF: BOB 10 Sec  
 3" BB  
 Rec: 2236' GMCO  
 (25%G, 65%O, 10%M)  
 159' GIP  
 IFF: 398-522#  
 FFP: 660-758#  
 SIP: 1299-1279#  
 Dropped Bar -  
 Reversed Oil into  
 water truck

