

Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1250475
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: _____

1250475

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: Yes No

Date of First, Resumed Production, SWD or ENHR. _____ Producing Method:
 Flowing Pumping Gas Lift Other *(Explain)* _____

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	Russell Oil, Inc.
Well Name	Don Brown A Unit 28-1
Doc ID	1250475

All Electric Logs Run

BOREHOLE COMP SONIC
COMPUTER PROCESS INTERP
DUAL INDUCTION
DUAL COMPENSATED POROSITY
MICRORESISTIVITY

Form	ACO1 - Well Completion
Operator	Russell Oil, Inc.
Well Name	Don Brown A Unit 28-1
Doc ID	1250475

Tops

Name	Top	Datum
ANHYDRITE	745	+943
BASE ANHYDRITE	780	+908
TOPEKA	2644	-956
HEEBNER	2878	-1190
TORONTO	2902	-1214
LANSING	2936	-1248
BASE KC	3234	-1546
CHEROKEE	3356	-1668
BSL PENN CONG	3431	-1743
VIOLA	3560	-1872
SIMPSON	3856	-2168
ARBUCKLE	3902	-2214
RTD	3930	-2242

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025

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

No. 1383

Cell 785-324-1041

Date	Sec.	Twp.	Range	County	State	On Location	Finish
1-31-15	28	10	12	Osborne	KS		1:00AM

Location *Luray, 3N, 1E, 1/2S, E2*

Lease	Well No.	Owner	
<i>Don Brown A Unit</i>	<i>28-1</i>	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.	
Contractor	Type Job	Charge To	
<i>Southwind 2</i>	<i>Surface</i>	<i>Russell Oil</i>	
Hole Size	T.D.	Street	
<i>12 1/4</i>	<i>330</i>		
Csg.	Depth	City	
<i>8 5/8</i>	<i>331</i>	State	
Tbg. Size	Depth	The above was done to satisfaction and supervision of owner agent or contractor.	
		Cement Amount Ordered <i>180 sx 80/20, 3% occ, 2% gel</i>	
Cement Left in Csg.	Shoe Joint		
	<i>20</i>		
Meas Line	Displace		
	<i>19 1/2 bbl</i>		

EQUIPMENT

Pumptrk	No.	Cementier	Common
<i>17</i>		<i>Lonnie</i>	<i>145</i>
Bulktrk	No.	Helper	Poz. Mix
<i>14</i>		<i>Nick</i>	<i>35</i>
Bulktrk	No.	Driver	Gel.
<i>P4</i>		<i>Travis</i>	<i>3</i>
		Driver	Calcium
			<i>7</i>

JOB SERVICES & REMARKS

Remarks:	Hulls
<i>Cement did circulate</i>	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 <i>190</i>
	Mileage
	FLOAT EQUIPMENT
	Guide Shoe
	Centralizer
	Baskets
	AFU Inserts
	Float Shoe
	Latch Down
	Pumptrk Charge <i>Surface</i>
	Mileage <i>20</i>

X Signature	<i>William Sanders</i>	Tax
		Discount
		Total Charge

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. 920

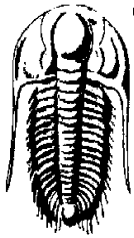
Date	2-8-15	Sec.	28	Twp.	10	Range	12	County	Osborne	State	KS	On Location		Finish	6:00 PM
Location													Lucas 3N 1E 1/2 S E 100		

Lease	Don Brown "A"	Well No.	28-1	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.											
Contractor	Southwind #2			Charge To	Russell Oil											
Type Job	Plug	T.D.	3940'	Street												
Hole Size	7 7/8	Depth		City	State											
Csg. Drill Pipe		Depth		The above was done to satisfaction and supervision of owner agent or contractor.												
Tbg. Size		Depth		Cement Amount Ordered	255 60/40 4 1/2 gal 1/4 fls											
Tool		Depth														
Cement Left in Csg.		Shoe Joint														

Meas Line				Displace												
EQUIPMENT				Common	153											
Pumptrk	5	No.	Cement Helper	David	Poz. Mix	102										
Bulktrk	3	No.	Driver	Chad	Gel.	9										
Bulktrk	PU	No.	Driver	Brett	Calcium											

JOB SERVICES & REMARKS				Hulls											
Remarks:				Salt											
Rat Hole	- 30sx			Flowseal	56#										
Mouse Hole	- 15sx			Kol-Seal											
Centralizers				Mud CLR 48											
Baskets				CFL-117 or CD110 CAF 38											
D/V or Port Collar				Sand											
1st Plug @ 3940 w/ 50sx				Handling	264										
2nd Plug @ 765 w/ 50sx				Mileage	9/5/88 FLOAT EQUIPMENT										
3rd Plug @ 530 w/ 100sx				Guide Shoe											
4th Plug @ 40 w/ 10sx				Centralizer											
				Baskets											
				AFU inserts											
				Float Shoe											
				Latch Down											
				Wood Plug											
				Pumptrk Charge	plug										
				Mileage	20										

X Signature	<i>William Anderson</i>			Tax											
				Discount											
				Total Charge											



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Russell Oil Inc.

Sec. 28 - 10 s. - 12 w./Osborne

P.O. BOX 8050
EDMOND OK.
73083

Don Brown A Unit28-1

Job Ticket: 62510

DST#: 1

ATTN: Kitt Noah

Test Start: 2015.02.03 @ 15:00:00

GENERAL INFORMATION:

Formation: **L.K.C. 'A - B'**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 17:37:15

Time Test Ended: 21:45:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Bob Hamel

Unit No: 72

Interval: 2912.00 ft (KB) To 2978.00 ft (KB) (TVD)

Reference Elevations: 1688.00 ft (KB)

Total Depth: 2978.00 ft (KB) (TVD)

1676.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 12.00 ft

Serial #: 6772 Inside

Press @ Run Depth: 34.25 psig @ 2948.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2015.02.03

End Date: 2015.02.03

Last Calib.: 2015.02.03

Start Time: 15:00:05

End Time: 21:45:29

Time On Btm: 2015.02.03 @ 17:34:15

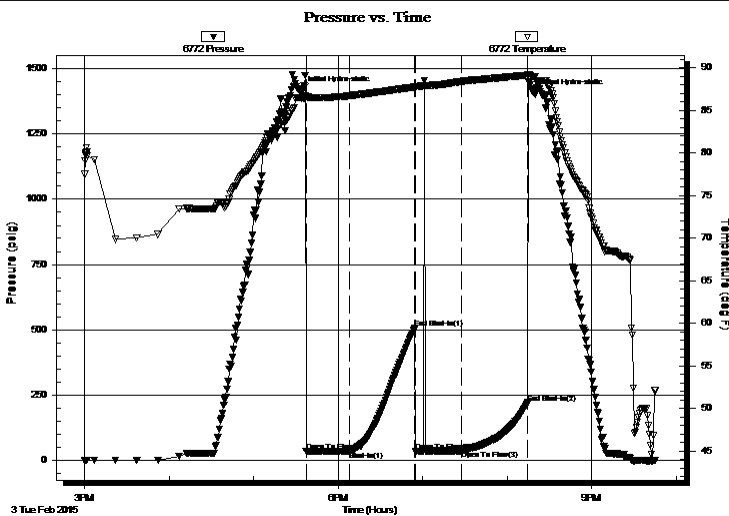
Time Off Btm: 2015.02.03 @ 20:19:45

TEST COMMENT: I.F. - 30 - 1/8" INT. BLOW DIED IN 14 MIN.

I.S.I. - 45 - NO B.B.

F.F. - 30 - NO BLOW FLUSHED TOOL @ 6 MIN. STLL NO BLOW

F.S.I. - 45 - NO B.B.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1416.76	86.41	Initial Hydro-static
3	33.53	86.55	Open To Flow (1)
34	34.25	86.69	Shut-In(1)
81	504.81	87.72	End Shut-In(1)
81	35.38	87.73	Open To Flow (2)
114	36.91	88.38	Open To Flow (3)
161	220.36	89.12	End Shut-In(2)
166	1403.45	88.96	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	MUD 100%	0.07

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Russell Oil Inc.

P.O. BOX 8050
EDMOND OK.
73083
ATTN: Kitt Noah

Sec. 28 - 10 s. - 12 w./Osborne

Don Brown A Unit28-1

Job Ticket: 62510 **DST#: 1**

Test Start: 2015.02.03 @ 15:00:00

GENERAL INFORMATION:

Formation: **L.K.C. 'A - B'**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 17:37:15

Time Test Ended: 21:45:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Bob Hamel

Unit No: 72

Interval: 2912.00 ft (KB) To 2978.00 ft (KB) (TVD)

Reference Elevations: 1688.00 ft (KB)

Total Depth: 2978.00 ft (KB) (TVD)

1676.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 12.00 ft

Serial #: 8167 Outside

Press @RunDepth: psig @ 2948.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2015.02.03 End Date: 2015.02.03

Last Calib.: 2015.02.03

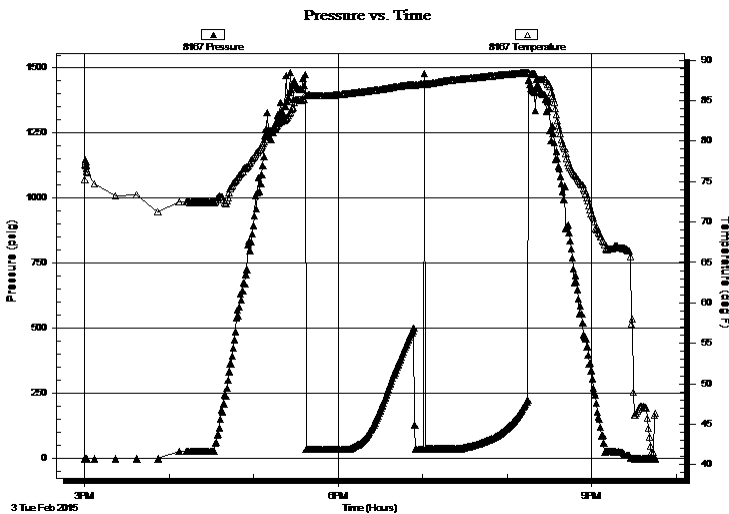
Start Time: 15:00:05 End Time: 21:45:29

Time On Btm:

Time Off Btm:

TEST COMMENT: I.F. - 30 - 1/8" INT. BLOW DIED IN 14 MIN.
I.S.I. - 45 - NO B.B.
F.F. - 30 - NO BLOW FLUSHED TOOL @ 6 MIN. STLL NO BLOW
F.S.I. - 45 - NO B.B.

PRESSURE SUMMARY



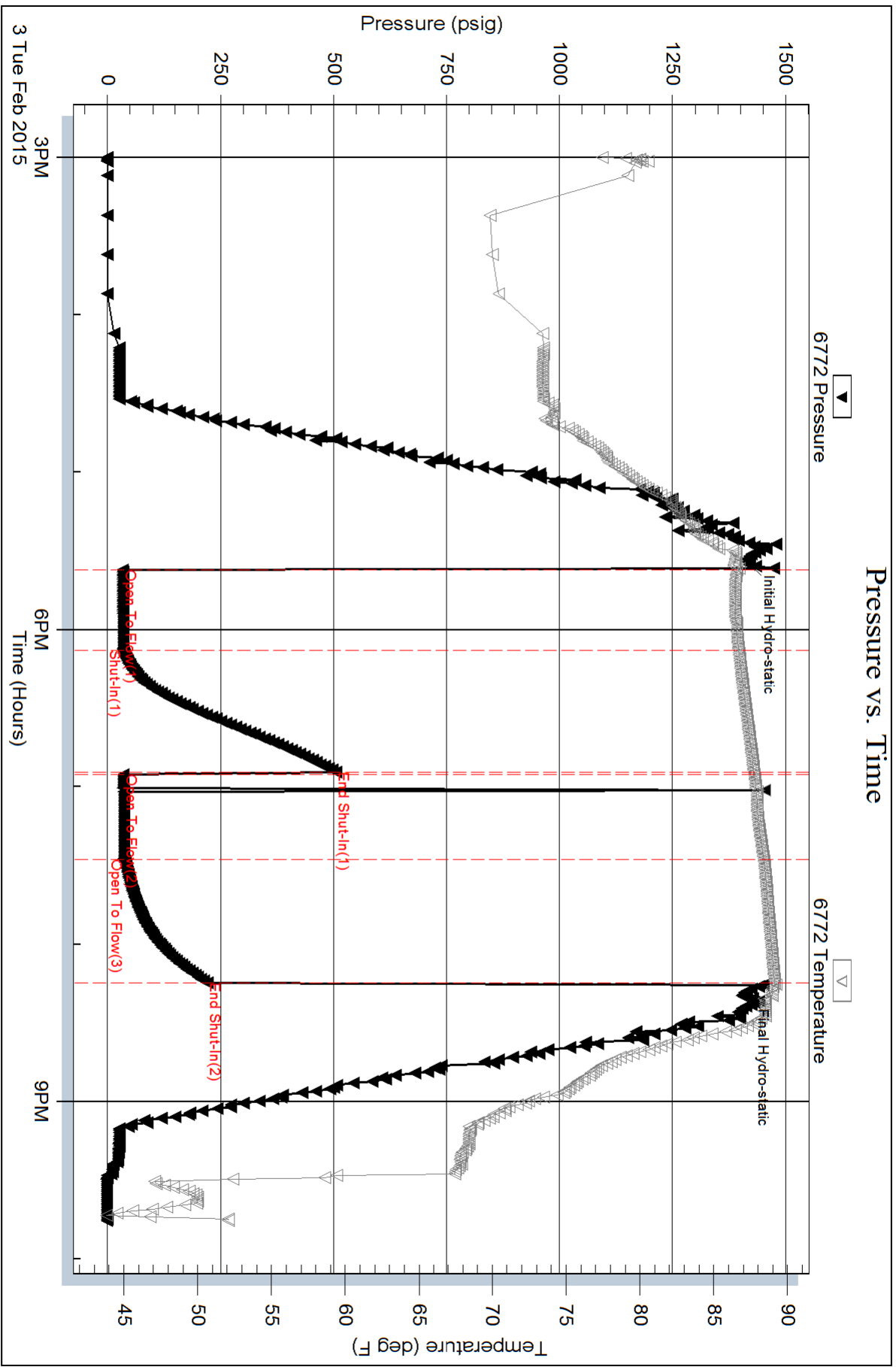
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

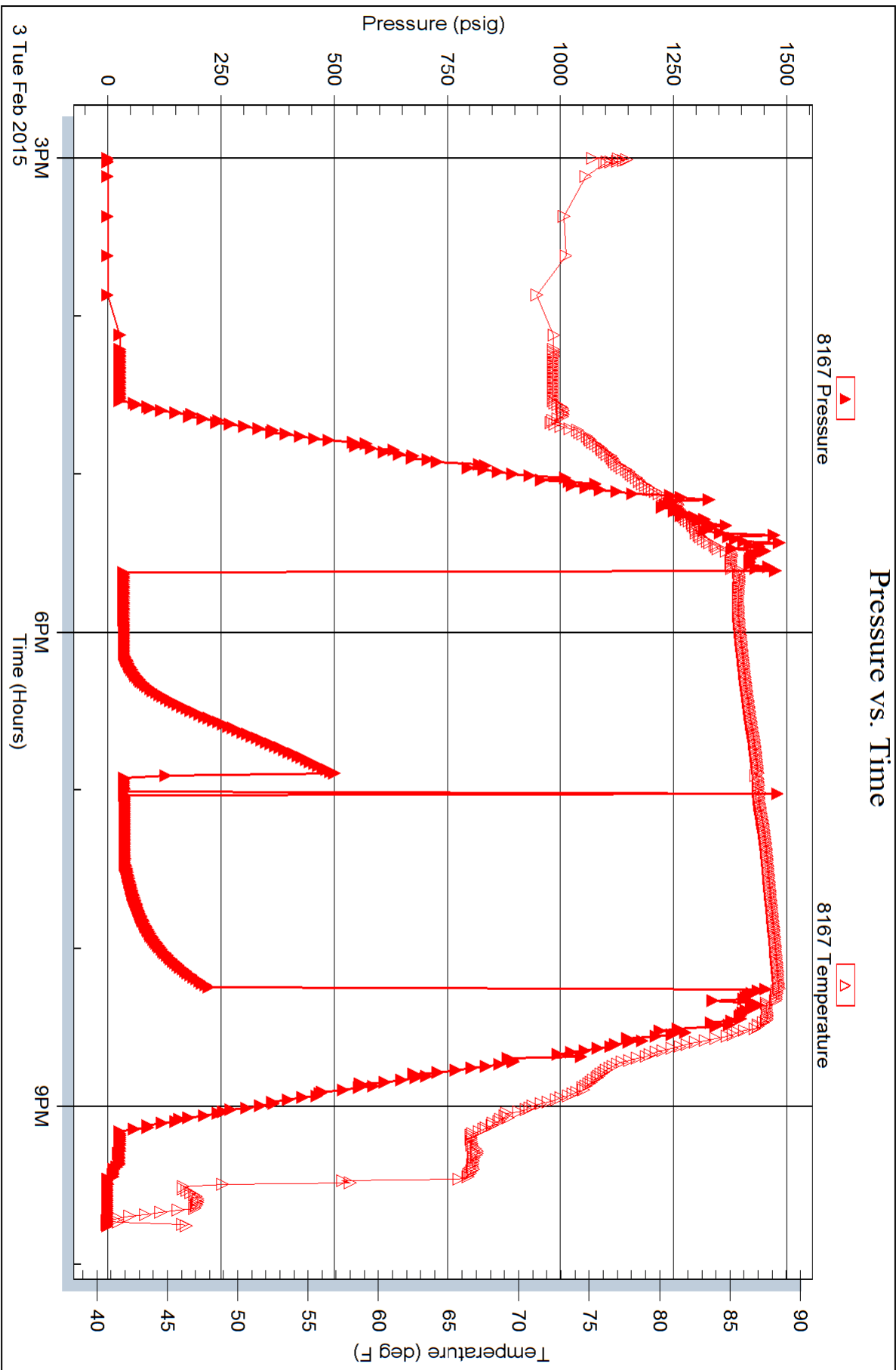
Recovery

Length (ft)	Description	Volume (bbl)
5.00	MUD 100%	0.07

Gas Rates

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







**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Russell Oil Inc.

Sec. 28 - 10 s. - 12 w./Osborne

P.O. BOX 8050
EDMOND OK.
73083

Don Brown A Unit28-1

Job Ticket: 62511

DST#: 2

ATTN: Kitt Noah

Test Start: 2015.02.04 @ 03:55:00

GENERAL INFORMATION:

Formation: **L.K.C. 'C'**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 05:41:45

Time Test Ended: 11:53:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Bob Hamel

Unit No: 72

Interval: 2974.00 ft (KB) To 2982.00 ft (KB) (TVD)

Reference Elevations: 1688.00 ft (KB)

Total Depth: 2982.00 ft (KB) (TVD)

1676.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 12.00 ft

Serial #: 6772

Inside

Press@RunDepth: 17.46 psig @ 2975.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2015.02.04

End Date:

2015.02.04

Last Calib.:

2015.02.04

Start Time:

03:55:05

End Time:

11:53:29

Time On Btm:

2015.02.04 @ 05:41:15

Time Off Btm:

2015.02.04 @ 10:04:45

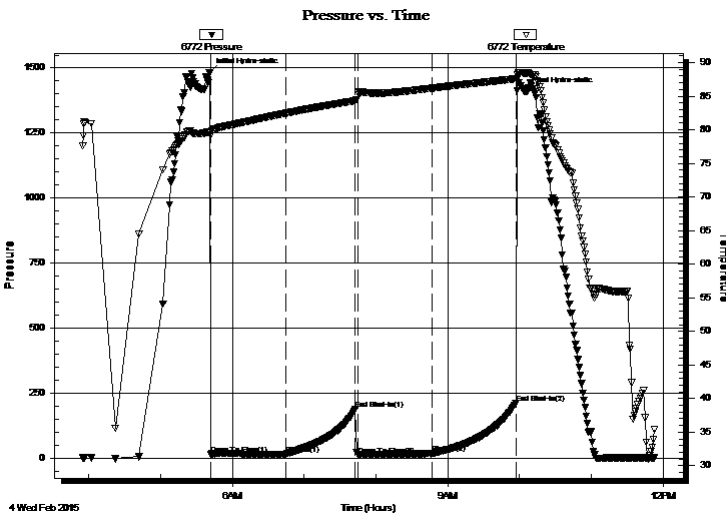
TEST COMMENT: I.F. - 60 - 1/8" INT BLOW BUILT TO 4 1/2"

I.S.I. - 60 - NO B.B.

F.F. - 60 - 1/2" INT. BUILT TO 5"

F.S.I. - 60 - NO B.B.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1483.22	79.70	Initial Hydro-static
1	16.16	79.15	Open To Flow (1)
64	16.36	82.47	Shut-In(1)
122	188.60	84.33	End Shut-In(1)
124	12.78	85.47	Open To Flow (2)
186	17.46	86.19	Shut-In(2)
256	211.27	87.60	End Shut-In(2)
264	1409.08	88.45	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
20.00	H ₂ O,C,M, 25%O 75%M	0.28
0.00	358' G.I.P.	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

Russell Oil Inc.

Sec. 28 - 10 s. - 12 w./Osborne

P.O. BOX 8050
EDMOND OK.
73083

Don Brown A Unit28-1

Job Ticket: 62511

DST#: 2

ATTN: Kitt Noah

Test Start: 2015.02.04 @ 03:55:00

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:

bbbl

Water Loss: 9.99 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 8700.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
20.00	H ₂ O,C,M, 25%O 75%M	0.281
0.00	358' G.I.P.	0.000

Total Length: 20.00 ft Total Volume: 0.281 bbl

Num Fluid Samples: 0

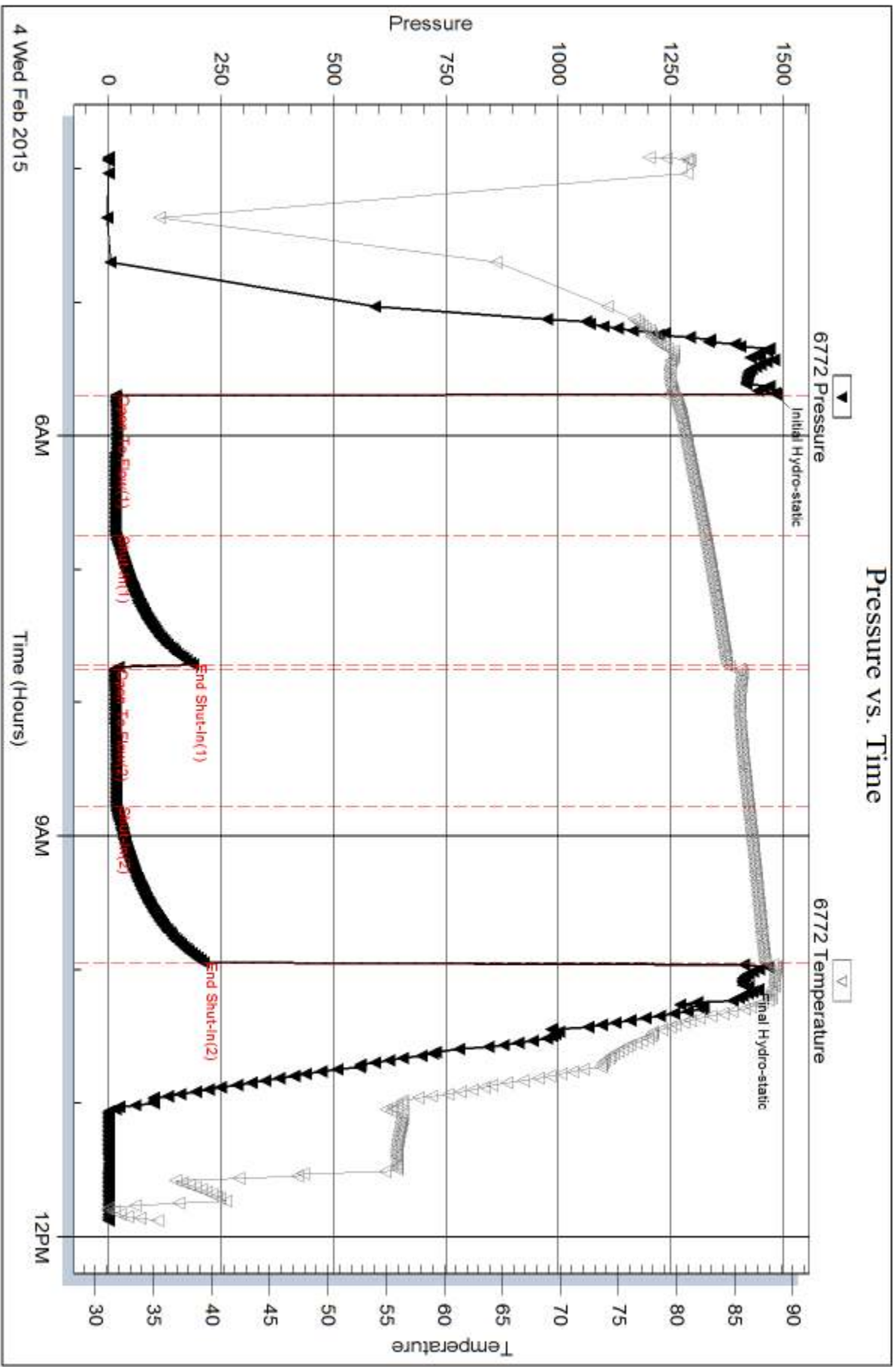
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Russell Oil Inc.

Sec. 28 - 10 s. - 12 w./Osborne

P.O. BOX 8050
EDMOND OK.
73083

Don Brown A Unit28-1

Job Ticket: 62512

DST#: 3

ATTN: Kitt Noah

Test Start: 2015.02.04 @ 19:35:00

GENERAL INFORMATION:

Formation: **L.K.C. 'C - F'**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:41:45

Time Test Ended: 04:03:45

Test Type: Conventional Bottom Hole (Reset)

Tester: Bob Hamel

Unit No: 72

Interval: 2973.00 ft (KB) To 3025.00 ft (KB) (TVD)

Reference Elevations: 1688.00 ft (KB)

Total Depth: 3025.00 ft (KB) (TVD)

1676.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 12.00 ft

Serial #: 6772 Inside

Press@RunDepth: 49.06 psig @ 3008.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2015.02.04

End Date:

2015.02.05

Last Calib.:

2015.02.05

Start Time: 19:35:05

End Time:

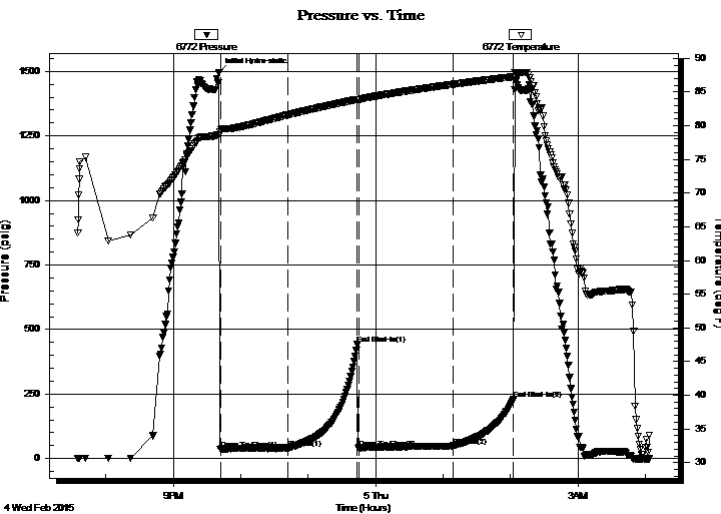
04:03:44

Time On Btm:

2015.02.04 @ 21:40:45

Time Off Btm:

TEST COMMENT: I.F. - 60 - 1/4" INT. BLOW BUILT TO 4"
I.S.I. - 60 - NO B.B.
F.F. - 60 - 1/2" INT. BLOW BUILT TO 5"
F.S.I. - 60 - NO B.B.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1496.11	78.72	Initial Hydro-static
1	36.29	79.08	Open To Flow (1)
61	40.15	81.58	Shut-In(1)
123	444.25	83.93	End Shut-In(1)
124	38.72	83.88	Open To Flow (2)
209	49.06	86.14	Shut-In(2)
262	229.55	87.29	End Shut-In(2)

Recovery

Length (ft)	Description	Volume (bbl)
40.00	H ₂ O,C,M, 35%O 65%M	0.56
0.00	220' G.I.P,	0.00
0.00	'SHOW OF FREE OIL IN TEST TOOL'	0.00

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Russell Oil Inc.

Sec. 28 - 10 s. - 12 w./Osborne

P.O. BOX 8050
EDMOND OK.
73083

Don Brown A Unit28-1

Job Ticket: 62512

DST#: 3

ATTN: Kitt Noah

Test Start: 2015.02.04 @ 19:35:00

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:

bbbl

Water Loss: 9.99 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 8700.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
40.00	H ₂ O,C,M, 35%O 65%M	0.561
0.00	220' G.I.P,	0.000
0.00	'SHOW OF FREE OIL IN TEST TOOL'	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:

Serial #: 6772

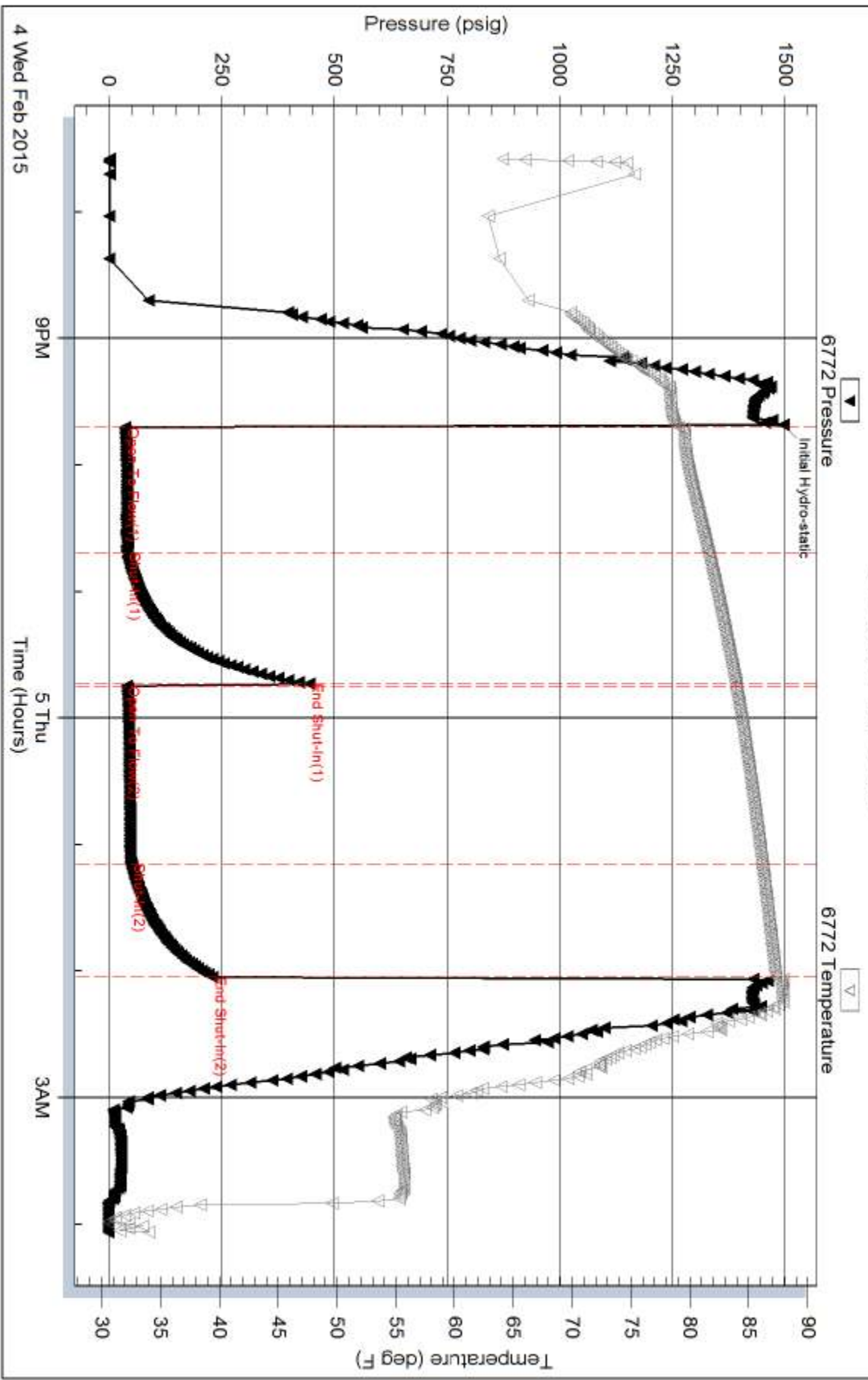
Inside

Russell Oil Inc.

Don Brown A Unit28-1

DST Test Number: 3

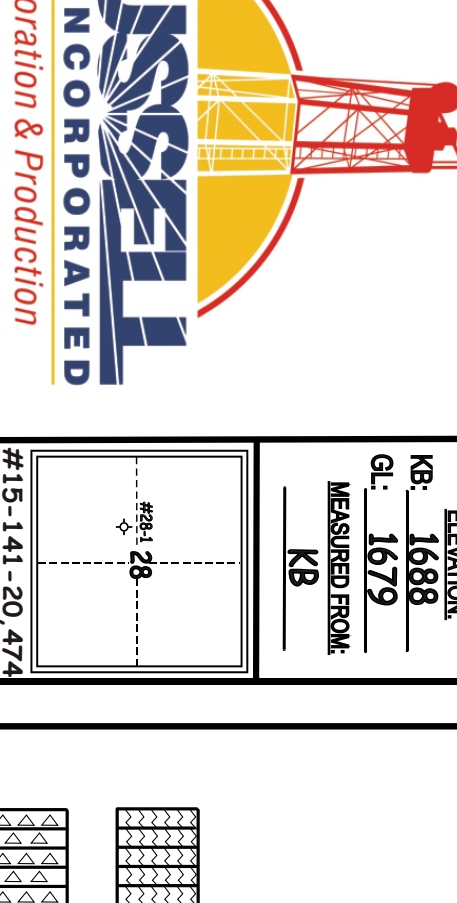
Pressure vs. Time



Trilobite Testing, Inc

Ref. No: 62512

Printed: 2015.02.05 @ 13:59:41



GEOLOGISTS REPORT

DRILLING TIME AND SAMPLE LOG

OPERATOR: **Russell Oil, Inc.**
 LEASE: **Don Brown "A" Ut Well No. #28-1**
 LOCATION: **2460'FS & 1795'FW**
 SEC: **28** TWP: **10S** RNG: **12W**
 COUNTY: **Osborne** STATE: **Kansas**

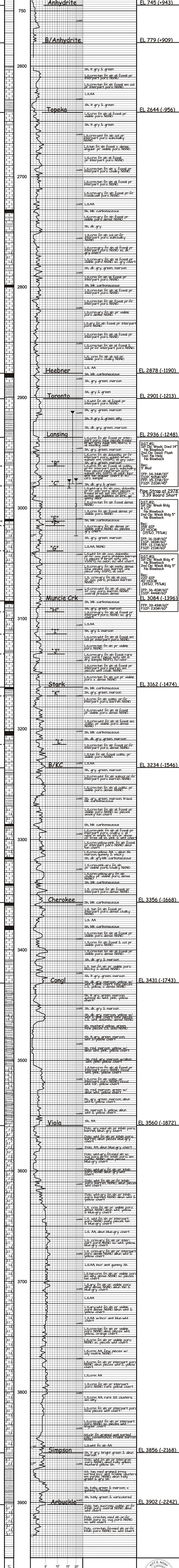
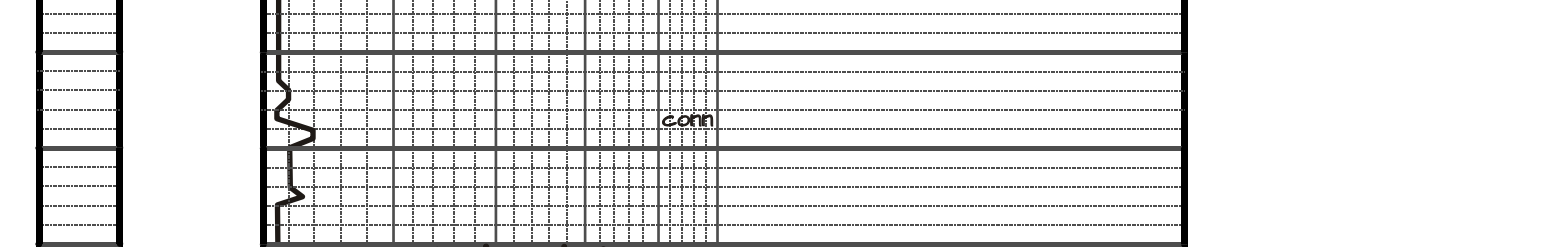
FORMATION TYPE LOG
 ANHYDRITE 749 (993)
 B/ANHYDRITE 2644 (996)
 TOPEKA 2878 (-1190)
 LANSING 2901 (-1213)
 B/KC 3236 (-1546)
 VIOLA 3560 (-1872)
 ARBUCKLE 3902 (-2242)
 LTD 3930 (-2242)

COORDINATOR: **Southwind Rio #2**
 COMM: **1-30-2015** COPIES: **2-8-2015**
 RFD: **3930** LTD: **3930**
 SAMPLES SAVED FROM: **2600 to TD**
 BRILLING TIME SAVED FROM: **2600 to TD**
 SAMPLES EXAMINED FROM: **2600 to TD**
 GEOLOGICAL SUPERVISION FROM: **2740 to TD**
 MUD UP: **2600** MUD TYPE: **chemical**
 MUDLOG: **Black Hedges**
 BRILL. STEM TESTS TAKEN: **3**
 TRILLOBITE: **Bob Hamel**

SURVEYS: **Pioneer Energy Services**
Dual Compensated Parosity
Microlog
Borehole Compensated Sonic

ELEVATION: **KB 1688**
 G.S. 1679
 MEASURED FROM: **KB**

LEGEND



DST #1:
 1st Op: Weak; Died 14"
 No Blowback
 2nd Op: Dead; Flush
 Tool; No Help
 No Blowback
 Rec: 5' Mud
 IFF: 34-34#/30"
 ISIP: 505#/45"
 FFP: 35-37#/30"
 FSIP: 220#/45"

Pipe Strap at 2978'
 3.39 Board Short

DST #2:
 1st Op: Weak Bldg 4 1/2"
 No Blowback
 2nd Op: Weak Bldg 5"
 No Blowback
 Rec: 358' GIP
 20' HOCM
 (25%O, 75%M)
 IFF: 16-16#/60"
 ISIP: 189#/60"
 FFP: 13-17#/60"
 FSIP: 211#/60"

DST #3:
 1st Op: Weak Bldg 4"
 No Blowback
 2nd Op: Weak Bldg 5"
 No Blowback
 Rec: 220' GIP
 40' HOCM
 (35%O, 75%M)
 IFF: 36-40#/60"
 ISIP: 444#/60"
 FFP: 39-49#/60"
 FSIP: 230#/60"

ELEVATION: **KB 1688**

OPERATOR: **Russell Oil, Inc.** LOCATION: **2460'FS & 1795'FW**
 LEASE: **Don Brown "A" Ut Well No. #28-1** SEC: **28** TWP: **10S** RNG: **12W**
 API: **15-141-20-474** FIELD: **Wildcat** COUNTY: **Osborne** STATE: **Kansas**

