

Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1265150
OIL & GAS CONSERVATION DIVISION

Form ACO-1
November 2016

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 _____ 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: _____

1265150

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
--	---

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
--	---	---

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	BEREXCO LLC
Well Name	Wilkins D 1-9
Doc ID	1265150

Tops

Name	Top	Datum
Anhydrite (top)	3290	+87
Anhydrite (base)	3326	+51
Foraker	3864	-487
Topeka	4086	-709
Oread	4236	-859
Lansing A	4314	-937
Lansing B	4376	-999
Lansing C	4436	-1059
Lansing D	4478	-1101
Lansing E	4520	-1143
Lansing F	4557	-1180
Pawnee	4722	-1345
RTD	4930	-1553
LTD	4931	-1554

ALLIED OIL & GAS SERVICES, WELL FIL

Federal Tax I.D. #20-5975804

2160
067781
11.259

REMIT TO P.O. BOX 93999
SOUTHLAKE, TEXAS 76092

SERVICE POINT: Okla City

DATE <u>2/28/15</u>	SEC. <u>9</u>	TWP. <u>2</u>	RANGE <u>37</u>	CALLED OUT	ON LOCATION	JOB START <u>8:00 AM</u>	JOB FINISH <u>2:30 PM</u>
LEASE <u>Wilkey 0</u>	WELL # <u>1-9</u>	LOCATION <u>McDonald W to W W to W</u>			COUNTY <u>Cherokee</u>	STATE <u>Ky</u>	
OLD OR (NEW) (Circle one)		AL 33 W to W into Pasture					

CONTRACTOR <u>Borwick 10</u>	OWNER <u>Same</u>
TYPE OF JOB <u>Surface</u>	
HOLE SIZE <u>12 1/4</u> T.D. <u>305</u>	CEMENT
CASING SIZE <u>8 5/8</u> DEPTH <u>305</u>	AMOUNT ORDERED <u>225 tons 370 cc</u>
TUBING SIZE DEPTH	<u>200 gal</u>
DRILL PIPE DEPTH	
TOOL DEPTH	
PRES. MAX MINIMUM	
MEAS. LINE SHOE JOINT	
CEMENT LEFT IN CSG. <u>15 FT</u>	COMMON <u>225</u> @ <u>17 1/2</u> <u>4022.50</u>
PERFS.	POZMIX @
DISPLACEMENT <u>18.47 BM</u>	GEL <u>423</u> @ <u>.50</u> <u>211.50</u>
	CHLORIDE <u>635</u> @ <u>1.12</u> <u>698.50</u>
	ASC @

EQUIPMENT

PUMP TRUCK # <u>495281</u>	CEMENTER <u>Alan Ryan</u>
BULK TRUCK # <u>891</u>	HELPER <u>Kevin Ryan</u>
BULK TRUCK #	DRIVER <u>Paul Beaver</u>
BULK TRUCK #	DRIVER

TOTAL 4,937.50
DISCOUNT 48% 2370.00

REMARKS:

Have to calculate, mix cement, displace cement
gaskets
Cement did Circumlets
Think to Alan Kevin, Paul

SERVICE

HANDLING <u>243</u>	@ <u>2 1/2</u>	<u>603.75</u>
MILEAGE <u>2 1/2</u>	@ <u>11</u>	<u>27.50</u>
DEPTH OF JOB <u>305</u>		
PUMP TRUCK CHARGE <u>1572.25</u>		
EXTRA FOOTAGE @		
HV MILEAGE <u>50</u>	@ <u>7.20</u>	<u>360.00</u>
LV MILEAGE @		
@		
@		

TOTAL 4,627.46
DISCOUNT 48% 1933.18

CHARGE TO: Borwick
STREET _____
CITY _____ STATE _____ ZIP _____

PLUG & FLOAT EQUIPMENT

@	
@	
@	
@	
@	
TOTAL	
DISCOUNT	%

To: Allied Oil & Gas Services, LLC.
You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

PRINTED NAME Gilbert David Jr
SIGNATURE Alvin O. J

SALES TAX (If Any) _____
TOTAL CHARGES 8,964.96
DISCOUNT 4,303.18 (48%) IF PAID IN 30 DAYS
NET TOTAL 4,661.77 IF PAID IN 30 DAYS

Date 7/25/15 District Oakley Ticket No. 020781
 Company Bureau Rig Bureau 10
 Lease Willkenn D Well No. 1-9
 County Cheyenne State WY
 Location _____ Field _____

CEMENT DATA:
 Spacer Type: _____
 Amt. _____ Sks Yield _____ ft³/sk Density _____ PPG

LEAD: Pump Time _____ hrs. Type 3170 W2000
 Amt. 225 Sks Yield 134 Excess _____
 ft³/sk Density 15 PPG

CASING DATA: Conductor PTA Squeeze Misc
 Surface Intermediate Production Liner
 Size 9 5/8 Type Non Weight _____ Collar _____

TAIL: Pump Time _____ hrs. Type _____
 Amt. _____ Sks Yield _____ ft³/sk Density _____ PPG
 WATER: Lead 0.5 gals/sk Tail _____ gals/sk Total _____ Bbls.

Casing Depths: Top 120 Bottom 306

Pump Trucks Used 485
 Bulk Equip. 801

Drill Pipe: Size _____ Weight _____ Collars _____
 Open Hole: Size _____ T.D. _____ ft. P.B. to _____ ft.

Float Equip: Manufacturer _____

CAPACITY FACTORS:

Casing: Bbls/Lin. ft. 0637 Lin. ft./Bbl. _____
 Open Holes: Bbls/Lin. ft. _____ Lin. ft./Bbl. _____
 Drill Pipe: Bbls/Lin. ft. _____ Lin. ft./Bbl. _____
 Annulus: Bbls/Lin. ft. _____ Lin. ft./Bbl. _____
 Bbls/Lin. ft. _____ Lin. ft./Bbl. _____
 Perforations: From _____ ft. to _____ ft. Amt. _____

Shoe: Type _____ Depth _____
 Float: Type _____ Depth _____
 Centralizers: Quantity _____ Plugs Top _____ Btm. _____
 Stage Collars _____
 Special Equip. _____
 Disp. Fluid Type H₂O Amt. 1845 Bbls. Weight 804 PPG
 Mud Type _____ Weight _____ PPG

COMPANY REPRESENTATIVE _____

CEMENTER AL

TIME (AM/PM)	PRESSURES PSI		FLUID PUMPED DATA			REMARKS
	DRILL PIPE CASING	ANNULUS	TOTAL FLUID	Pumped Per Time Period	RATE Bbls Min.	
						Annulus, SPS, mix setp Annulus, SPS, mix setp No cement Displacement Shot in
8:30				36.0 18.47	3.16 6.0	Job complete

MIFFER PRINTERS INC. • Great Bend, KS



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Berexco, LLC.

9-2N-37W Cheyenne, KS

2020 N Bramblewood
Wichita, KS 67206

Wilkens D #1-9

Job Ticket: 53448

DST#: 1

ATTN: Bryan Bynog

Test Start: 2015.07.29 @ 01:35:00

GENERAL INFORMATION:

Formation: **Topeka**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:28:00

Time Test Ended: 11:50:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Kevin Mack

Unit No: 82

Interval: 4040.00 ft (KB) To 4120.00 ft (KB) (TVD)

Reference Elevations: 3377.00 ft (KB)

Total Depth: 4120.00 ft (KB) (TVD)

3366.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 11.00 ft

Serial #: 8520

Inside

Press@RunDepth: 115.97 psig @ 4041.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2015.07.29

End Date:

2015.07.29

Last Calib.:

2015.07.29

Start Time: 01:36:00

End Time:

11:50:00

Time On Btm:

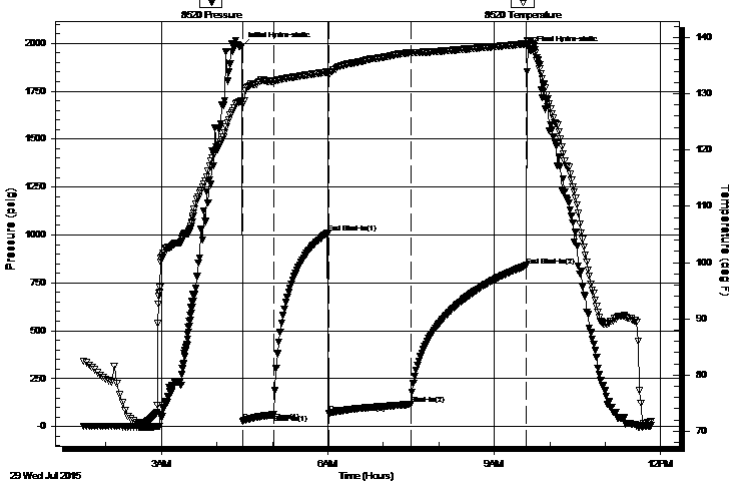
2015.07.29 @ 04:26:30

Time Off Btm:

2015.07.29 @ 09:39:00

TEST COMMENT: 30 - IF- 1/2" Blow built to 3"
60 - IS- No Return
90 - FF- Surface Blow started at 10 min. Built to 1"
120 - FS- No Return

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1981.58	128.65	Initial Hydro-static
2	27.46	128.06	Open To Flow (1)
35	65.76	132.20	Shut-In(1)
94	1010.08	133.87	End Shut-In(1)
95	70.74	133.23	Open To Flow (2)
183	115.97	137.28	Shut-In(2)
308	840.17	138.85	End Shut-In(2)
313	1963.16	139.40	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	WM 30W 70M	0.59
60.00	WM 20W 80M	0.30
10.00	OSM 100M	0.05

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Berexco, LLC.

9-2N-37W Cheyenne,KS

2020 N Bramblewood
Wichita, KS 67206

Wilkens D #1-9

Job Ticket: 53448

DST#: 1

ATTN: Bryan Bynog

Test Start: 2015.07.29 @ 01:35:00

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:

23000 ppm

Viscosity: 72.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.20 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 700.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
120.00	WM 30W 70M	0.590
60.00	WM 20W 80M	0.295
10.00	OSM 100M	0.049

Total Length: 190.00 ft Total Volume: 0.934 bbl

Num Fluid Samples: 0

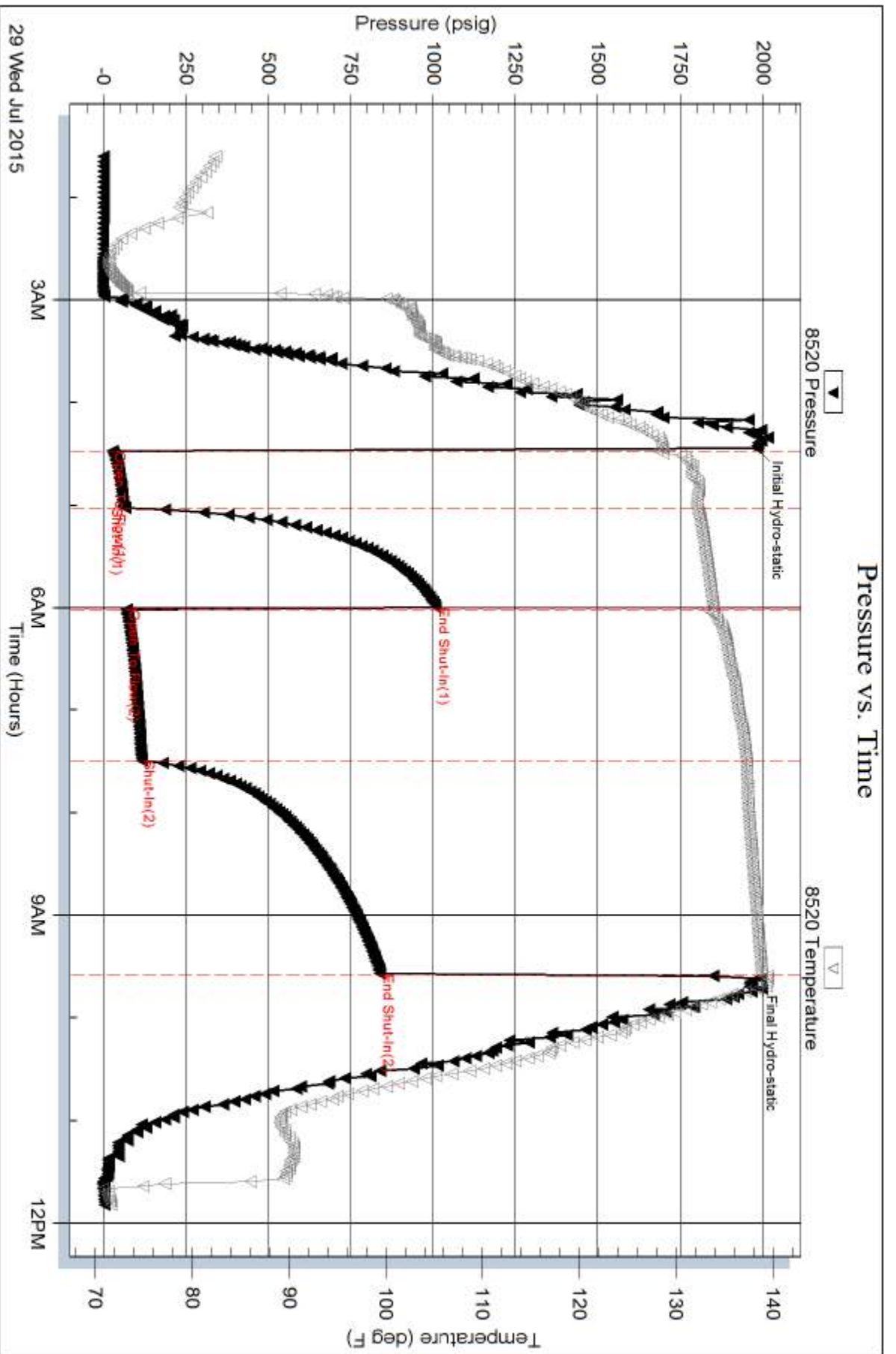
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW .30 @ 75 deg. = 23000 ppm





TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Berexco, LLC.

9-2N-37W Cheyenne, KS

2020 N Bramblewood
Wichita, KS 67206

Wilkens D #1-9

Job Ticket: 53449

DST#: 2

ATTN: Bryan Bynog

Test Start: 2015.07.29 @ 22:56:00

GENERAL INFORMATION:

Formation: **Lower Topeka**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 01:26:00

Time Test Ended: 08:32:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Kevin Mack

Unit No: 82

Interval: 4122.00 ft (KB) To 4200.00 ft (KB) (TVD)

Reference Elevations: 3377.00 ft (KB)

Total Depth: 4200.00 ft (KB) (TVD)

3366.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 11.00 ft

Serial #: 8653 Outside

Press@RunDepth: 160.10 psig @ 4123.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2015.07.29

End Date: 2015.07.30

Last Calib.: 2015.07.30

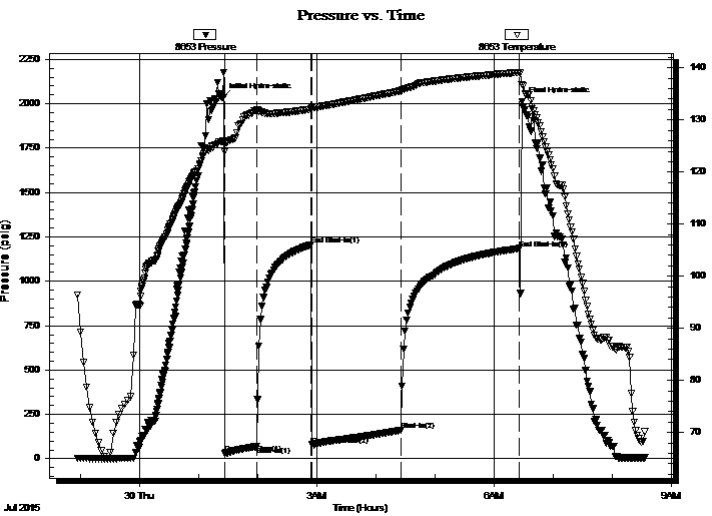
Start Time: 22:57:00

End Time: 08:32:30

Time On Btm: 2015.07.30 @ 01:24:30

Time Off Btm: 2015.07.30 @ 06:28:00

TEST COMMENT: 30 - IF- 1/4" Blow built to 3"
60 - IS- No Return
90 - FF- Surface Blow started at 8 min. Built to 3 3/4"
120 - FS- No Return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2034.05	125.81	Initial Hydro-static
2	28.59	123.89	Open To Flow (1)
34	70.07	131.84	Shut-In(1)
89	1204.37	132.07	End Shut-In(1)
91	78.69	132.42	Open To Flow (2)
181	160.10	135.61	Shut-In(2)
301	1184.60	139.13	End Shut-In(2)
304	2011.49	136.79	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	OSMW 10M 90W (oil spots)	0.59
60.00	OSWM 50W 50M (oil spots)	0.30
60.00	OSWM 40W 60M (oil spots)	0.30
70.00	OSM 100M (oil spots)	0.34

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Berexco, LLC.

9-2N-37W Cheyenne, KS

2020 N Bramblewood
Wichita, KS 67206

Wilkins D #1-9

Job Ticket: 53449

DST#: 2

ATTN: Bryan Bynog

Test Start: 2015.07.29 @ 22:56:00

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:

24000 ppm

Viscosity: 62.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.20 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 700.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
120.00	OSMW 10M 90W (oil spots)	0.590
60.00	OSWM 50W 50M (oil spots)	0.295
60.00	OSWM 40W 60M (oil spots)	0.295
70.00	OSM 100M (oil spots)	0.344

Total Length: 310.00 ft Total Volume: 1.524 bbl

Num Fluid Samples: 0

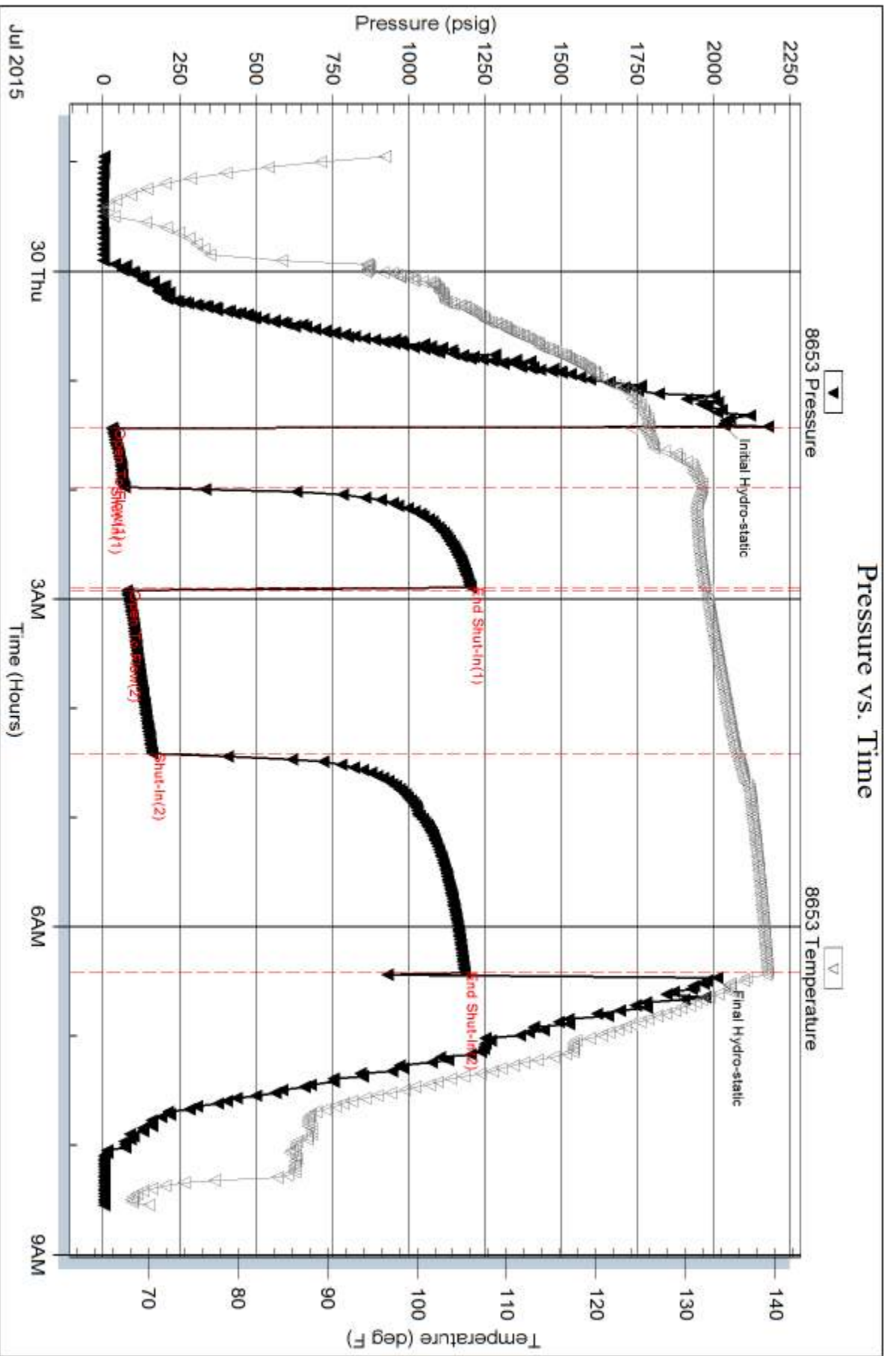
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: W .31 @ 67 deg = 24000ppm





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Berexco, LLC.

9-2N-37W Cheyenne, KS

2020 N Bramblewood
Wichita, KS 67206

Wilkens D #1-9

Job Ticket: 65201

DST#: 3

ATTN: Bryan Bynog

Test Start: 2015.07.30 @ 19:05:00

GENERAL INFORMATION:

Formation: **Oread**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:31:00

Time Test Ended: 03:23:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Kevin Mack

Unit No: 82

Interval: 4185.00 ft (KB) To 4255.00 ft (KB) (TVD)

Reference Elevations: 3377.00 ft (KB)

Total Depth: 4255.00 ft (KB) (TVD)

3366.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 11.00 ft

Serial #: 8653 Outside

Press @ Run Depth: 28.72 psig @ 4186.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2015.07.30

End Date:

2015.07.31

Last Calib.: 2015.07.31

Start Time: 19:06:00

End Time:

03:23:00

Time On Btm: 2015.07.30 @ 21:29:30

Time Off Btm: 2015.07.31 @ 01:33:30

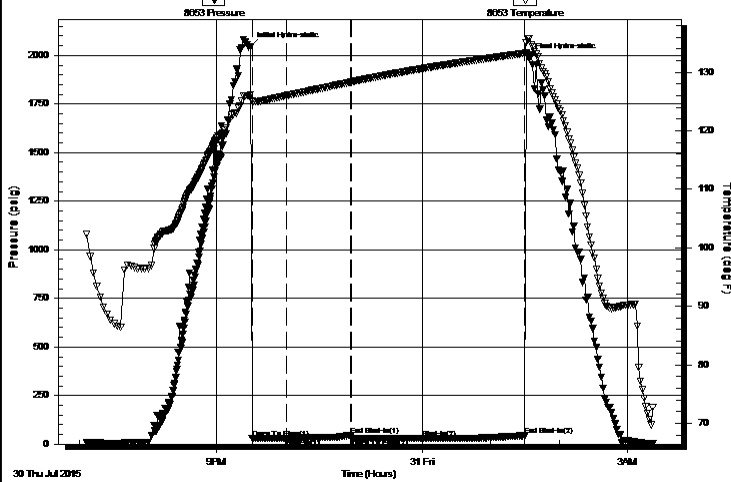
TEST COMMENT: 30 - IF- 1/8" Blow died in 20 min.

60 - IS- No Return

60 - FF- No Blow

90 - FS- No Return

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2043.55	126.11	Initial Hydro-static
2	30.41	125.19	Open To Flow (1)
32	28.08	125.99	Shut-In(1)
88	46.05	128.28	End Shut-In(1)
89	28.17	128.31	Open To Flow (2)
151	28.72	130.63	Shut-In(2)
241	43.49	133.23	End Shut-In(2)
244	1987.66	135.77	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	OSM 100M (oil spots)	0.02

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Berexco, LLC.

9-2N-37W Cheyenne, KS

2020 N Bramblewood
Wichita, KS 67206

Wilkens D #1-9

Job Ticket: 65201

DST#: 3

ATTN: Bryan Bynog

Test Start: 2015.07.30 @ 19:05:00

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: 51.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.60 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 800.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	OSM 100M (oil spots)	0.025

Total Length: 5.00 ft Total Volume: 0.025 bbl

Num Fluid Samples: 0

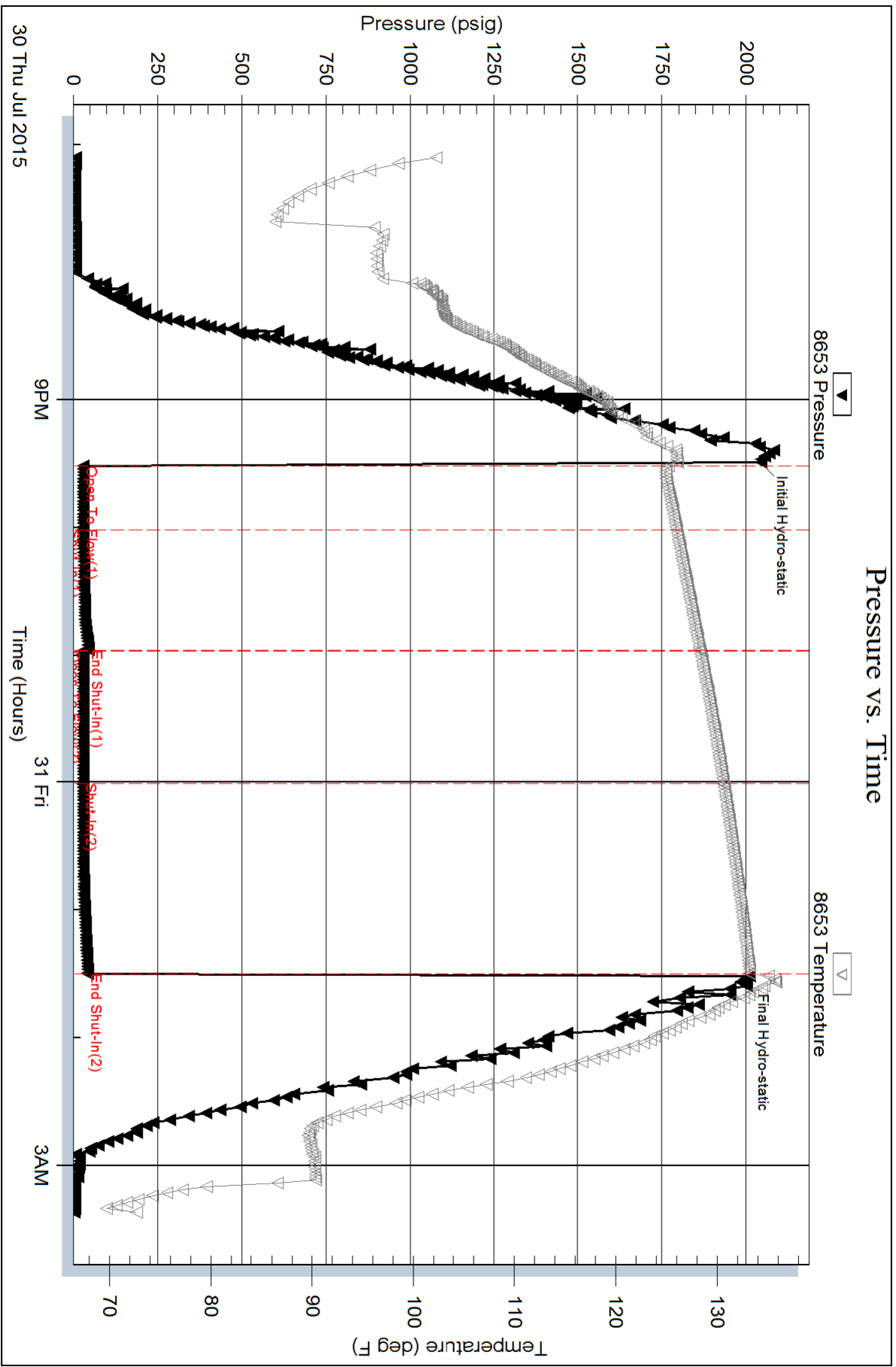
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Berexco, LLC.

9-2N-37W Cheyenne, KS

2020 N Bramblewood
Wichita, KS 67206

Wilkens D #1-9

Job Ticket: 65202

DST#: 4

ATTN: Bryan Bynog

Test Start: 2015.07.31 @ 16:21:00

GENERAL INFORMATION:

Formation: **LKC "A"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 19:05:30

Time Test Ended: 01:17:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Kevin Mack

Unit No: 82

Interval: 4260.00 ft (KB) To 4355.00 ft (KB) (TVD)

Reference Elevations: 3377.00 ft (KB)

Total Depth: 4355.00 ft (KB) (TVD)

3366.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 11.00 ft

Serial #: 8653 Outside

Press @ Run Depth: 26.19 psig @ 4261.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2015.07.31

End Date:

2015.08.01

Last Calib.: 2015.08.01

Start Time: 16:22:00

End Time:

01:17:00

Time On Btm: 2015.07.31 @ 19:02:30

Time Off Btm: 2015.07.31 @ 23:14:30

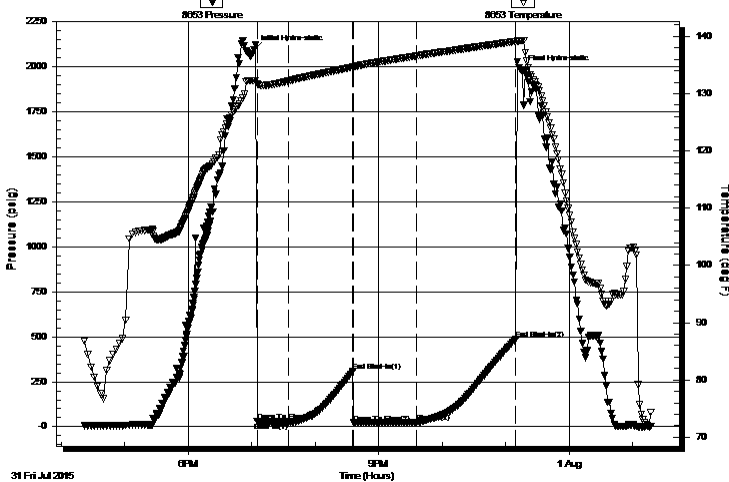
TEST COMMENT: 30 - IF- 1/8" Blow died in 10 min.

60 - IS- No Return

60 - FF- No Blow

90 - FS- No Return

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2095.55	132.25	Initial Hydro-static
3	28.58	131.67	Open To Flow (1)
33	27.12	132.25	Shut-In(1)
93	307.77	134.65	End Shut-In(1)
94	22.12	134.67	Open To Flow (2)
154	26.19	136.61	Shut-In(2)
247	487.46	139.12	End Shut-In(2)
252	1982.66	139.28	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	OSM 100M (oil spots)	0.02
1.00	Free Oil 100o	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Berexco, LLC.

9-2N-37W Cheyenne, KS

2020 N Bramblewood
Wichita, KS 67206

Wilkens D #1-9

Job Ticket: 65202

DST#: 4

ATTN: Bryan Bynog

Test Start: 2015.07.31 @ 16:21:00

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: 58.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.20 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 900.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
5.00	OSM 100M (oil spots)	0.025
1.00	Free Oil 100o	0.005

Total Length: 6.00 ft Total Volume: 0.030 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

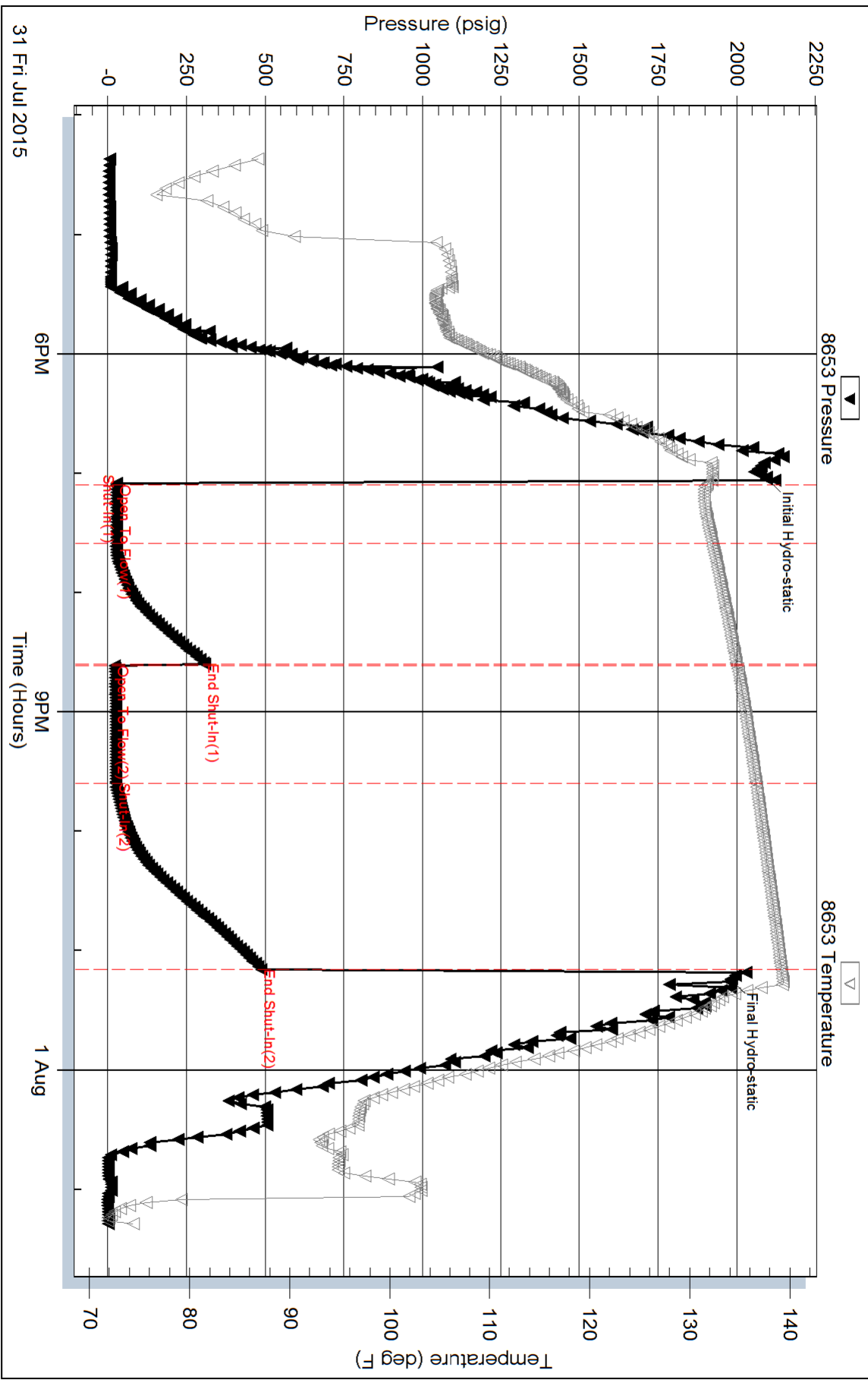
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Berexco, LLC.

9-2N-37W Cheyenne, KS

2020 N Bramblewood
Wichita, KS 67206

Wilkens D #1-9

Job Ticket: 65203

DST#: 5

ATTN: Bryan Bynog

Test Start: 2015.08.01 @ 13:40:00

GENERAL INFORMATION:

Formation: **LKC "B"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 16:15:00
 Time Test Ended: 22:41:30
 Interval: **4330.00 ft (KB) To 4420.00 ft (KB) (TVD)**
 Total Depth: 4420.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Kevin Mack
 Unit No: 82
 Reference Elevations: 3377.00 ft (KB)
 3366.00 ft (CF)
 KB to GR/CF: 11.00 ft

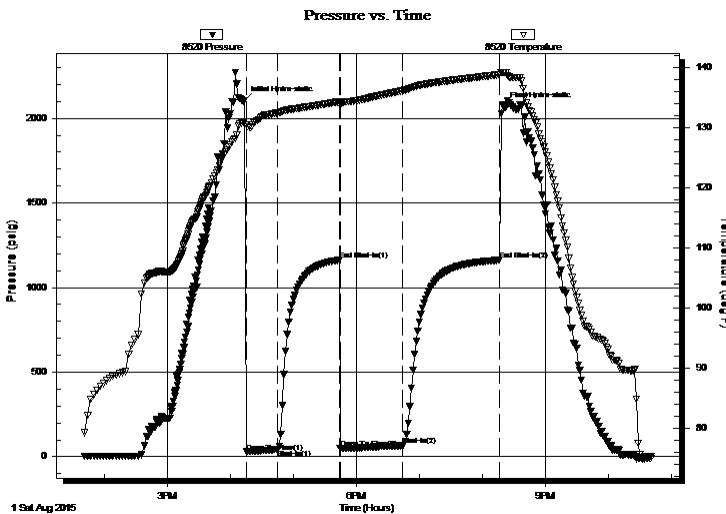
Serial #: 8520

Inside

Press @ Run Depth: 65.34 psig @ 4331.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2015.08.01 End Date: 2015.08.01 Last Calib.: 2015.08.01
 Start Time: 13:41:00 End Time: 22:41:30 Time On Btm: 2015.08.01 @ 16:13:30
 Time Off Btm: 2015.08.01 @ 20:20:30

TEST COMMENT: 30 - IF- 1/8" Blow built to 1"
 60 - IS- No Return
 60 - FF- No Blow
 90 - FS- No Return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2104.15	130.95	Initial Hydro-static
2	28.49	130.45	Open To Flow (1)
32	43.55	132.46	Shut-In(1)
90	1162.19	134.31	End Shut-In(1)
91	48.92	133.62	Open To Flow (2)
151	65.34	136.15	Shut-In(2)
243	1162.76	138.80	End Shut-In(2)
247	2067.60	139.14	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
70.00	OCM 20o 80M	0.34
5.00	Free Oil 100o	0.02

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Berexco, LLC.

9-2N-37W Cheyenne, KS

2020 N Bramblewood
Wichita, KS 67206

Wilkens D #1-9

Job Ticket: 65203

DST#: 5

ATTN: Bryan Bynog

Test Start: 2015.08.01 @ 13:40:00

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: 69.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.80 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 800.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
70.00	OCM 20o 80M	0.344
5.00	Free Oil 100o	0.025

Total Length: 75.00 ft Total Volume: 0.369 bbl

Num Fluid Samples: 0

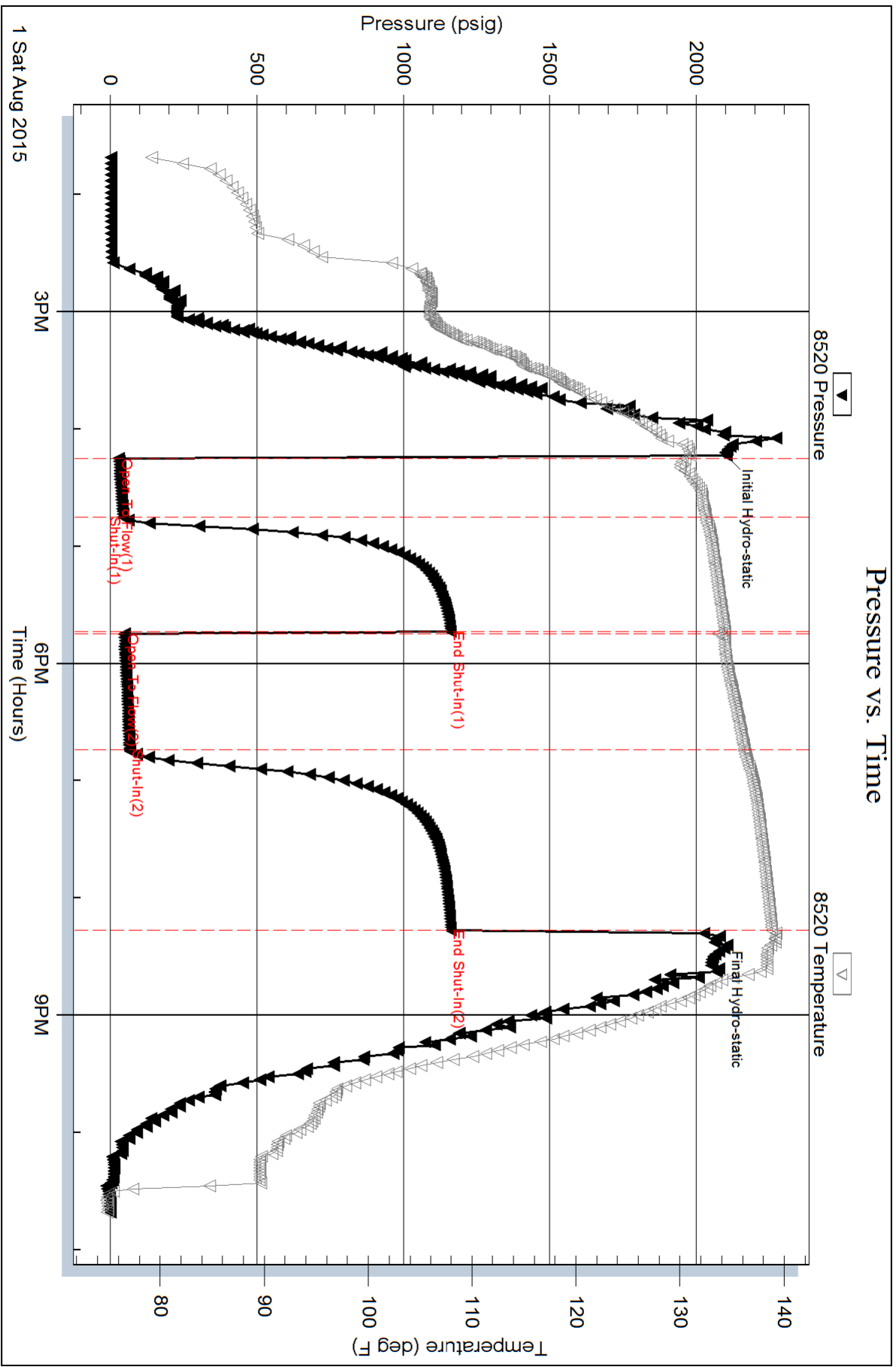
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Berexco, LLC.

9-2N-37W Cheyenne, KS

2020 N Bramblewood
Wichita, KS 67206

Wilkens D #1-9

Job Ticket: 65204

DST#: 6

ATTN: Bryan Bynog

Test Start: 2015.08.02 @ 12:45:00

GENERAL INFORMATION:

Formation: **LKC "C-D"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:09:30

Time Test Ended: 23:23:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Kevin Mack

Unit No: 82

Interval: 4385.00 ft (KB) To 4510.00 ft (KB) (TVD)

Reference Elevations: 3377.00 ft (KB)

Total Depth: 4385.00 ft (KB) (TVD)

3366.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 11.00 ft

Serial #: 8653

Outside

Press @ Run Depth: 379.85 psig @ 4386.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2015.08.02

End Date:

2015.08.02

Last Calib.:

2015.08.02

Start Time: 12:46:00

End Time:

23:23:30

Time On Btm:

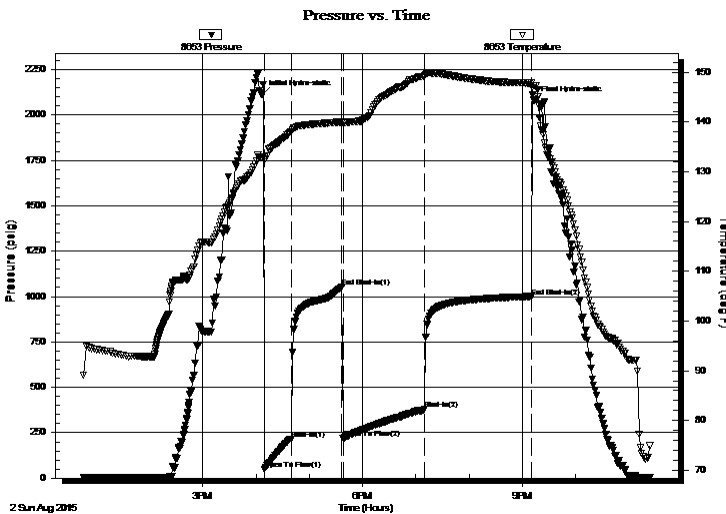
2015.08.02 @ 16:07:00

Time Off Btm:

2015.08.02 @ 21:13:30

TEST COMMENT: 30 - IF- BoB in 20 min.
60 - IS- No Return
90 - FF- BoB in 30 min.
120 - FS- No Return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2110.81	132.96	Initial Hydro-static
3	46.82	132.34	Open To Flow (1)
33	215.58	138.08	Shut-In(1)
90	1052.00	140.01	End Shut-In(1)
91	220.59	139.76	Open To Flow (2)
183	379.85	149.30	Shut-In(2)
303	1000.42	147.82	End Shut-In(2)
307	2079.29	147.31	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	OSMW 10M 90W (oil spots)	0.59
180.00	OSMW 30M 70W (oil spots)	0.89
183.00	OSWM 30W 70M (oil spots)	1.59
189.00	OSWM 10W 90M (oil spots)	2.65
146.00	OCM 10o 90M	2.05

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Berexco, LLC.

9-2N-37W Cheyenne, KS

2020 N Bramblewood
Wichita, KS 67206

Wilkens D #1-9

Job Ticket: 65204

DST#: 6

ATTN: Bryan Bynog

Test Start: 2015.08.02 @ 12:45:00

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: 22000 ppm	
Viscosity: 69.00 sec/qt	Cushion Volume: bbl		
Water Loss: 6.00 in ³	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 800.00 ppm			
Filter Cake: 2.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
120.00	OSMW 10M 90W (oil spots)	0.590
180.00	OSMW 30M 70W (oil spots)	0.885
183.00	OSWM 30W 70M (oil spots)	1.592
189.00	OSWM 10W 90M (oil spots)	2.651
146.00	OCM 10o 90M	2.048

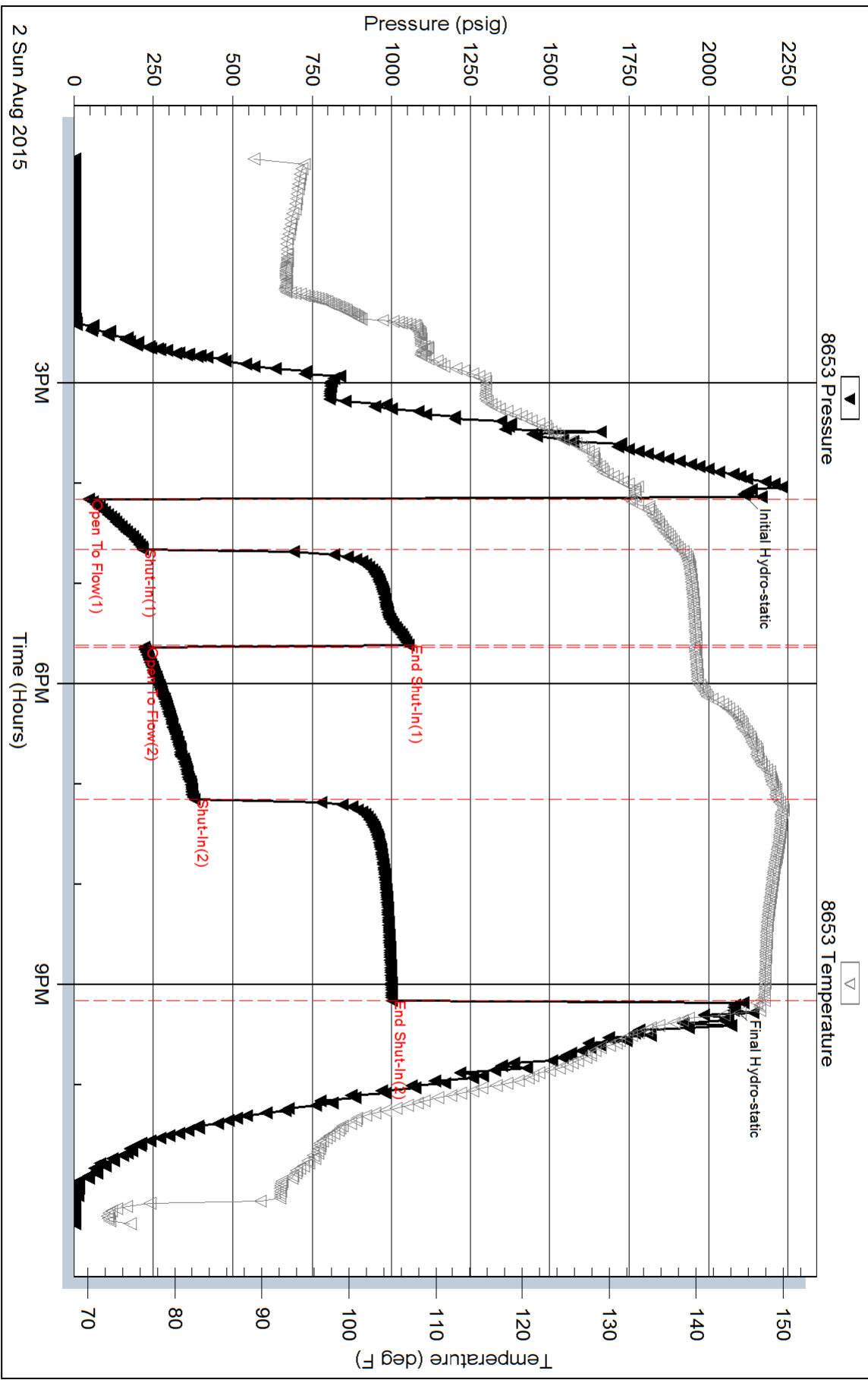
Total Length: 818.00 ft Total Volume: 7.766 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments: RW .34 @ 75 deg = 22000ppm

Pressure vs. Time





**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Berexco, LLC.

9-2N-37W Cheyenne, KS

2020 N Bramblewood
Wichita, KS 67206

Wilkens D #1-9

Job Ticket: 65205

DST#: 7

ATTN: Bryan Bynog

Test Start: 2015.08.03 @ 08:33:00

GENERAL INFORMATION:

Formation: **LKC "E"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 11:01:00

Time Test Ended: 16:55:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Kevin Mack

Unit No: 82

Interval: 4485.00 ft (KB) To 4540.00 ft (KB) (TVD)

Total Depth: 4540.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 3377.00 ft (KB)

3366.00 ft (CF)

KB to GR/CF: 11.00 ft

Serial #: 8520

Inside

Press@RunDepth: 55.58 psig @ 4486.00 ft (KB)

Start Date: 2015.08.03

End Date:

2015.08.03

Start Time: 08:34:00

End Time:

16:55:00

Capacity: 8000.00 psig

Last Calib.: 2015.08.03

Time On Btm: 2015.08.03 @ 10:59:00

Time Off Btm: 2015.08.03 @ 15:02:30

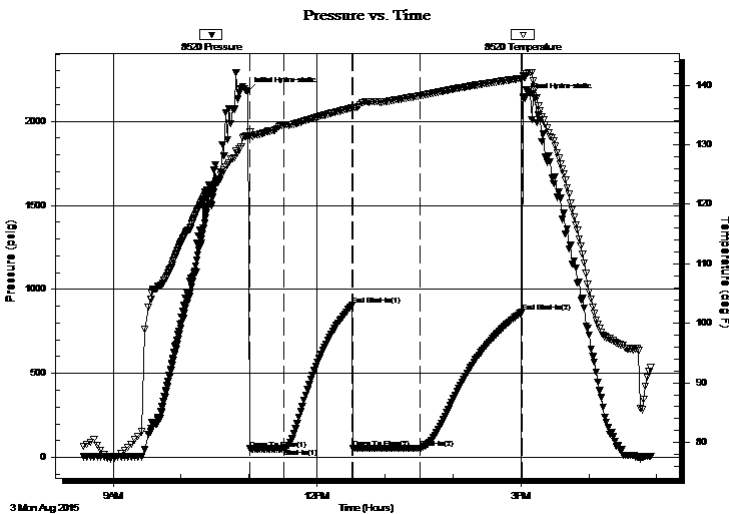
TEST COMMENT: 30 - IF- Surface Blow died in 15 min.

60 - IS- No Return

60 - FF- No Blow

90 - FS- No Return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2175.54	131.54	Initial Hydro-static
2	50.95	132.10	Open To Flow (1)
32	52.60	133.31	Shut-In(1)
92	905.17	136.16	End Shut-In(1)
93	54.07	136.24	Open To Flow (2)
152	55.58	138.25	Shut-In(2)
242	866.61	141.18	End Shut-In(2)
244	2143.60	141.40	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	OSM 100M (oil spots)	0.30

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Berexco, LLC.

9-2N-37W Cheyenne, KS

2020 N Bramblewood
Wichita, KS 67206

Wilkens D #1-9

Job Ticket: 65205

DST#: 7

ATTN: Bryan Bynog

Test Start: 2015.08.03 @ 08:33:00

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: 62.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.00 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 900.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	OSM 100M (oil spots)	0.295

Total Length: 60.00 ft Total Volume: 0.295 bbl

Num Fluid Samples: 0

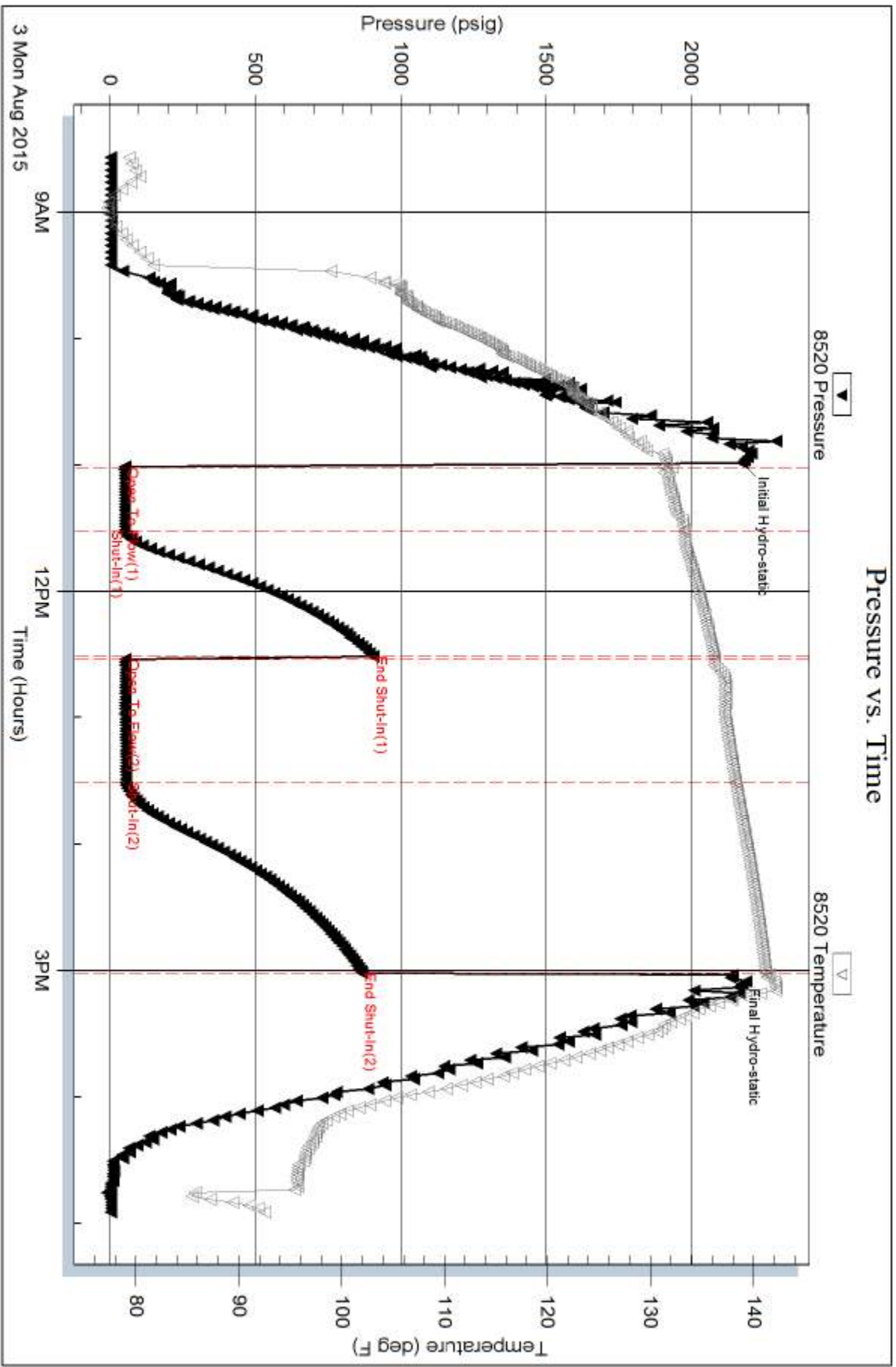
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Berexco, LLC.

9-2N-37W Cheyenne, KS

2020 N Bramblewood
Wichita, KS 67206

Wilkens D #1-9

Job Ticket: 65206

DST#: 8

ATTN: Bryan Bynog

Test Start: 2015.08.04 @ 12:50:00

GENERAL INFORMATION:

Formation: **Pawnee**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 15:43:30

Time Test Ended: 21:54:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Kevin Mack

Unit No: 82

Interval: 4630.00 ft (KB) To 4730.00 ft (KB) (TVD)

Reference Elevations: 3377.00 ft (KB)

Total Depth: 4730.00 ft (KB) (TVD)

3366.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 11.00 ft

Serial #: 8653 Outside

Press@RunDepth: 26.86 psig @ 4631.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2015.08.04

End Date:

2015.08.04

Last Calib.:

2015.08.04

Start Time:

12:51:00

End Time:

21:54:00

Time On Btm:

2015.08.04 @ 15:42:00

Time Off Btm:

2015.08.04 @ 19:54:00

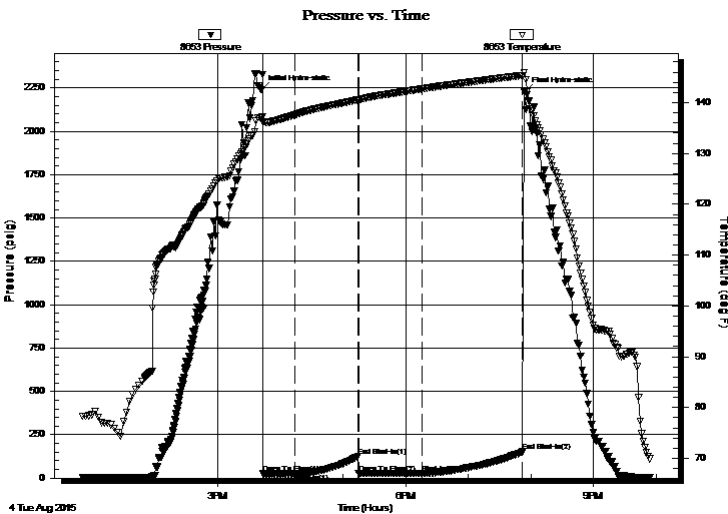
TEST COMMENT: 30 - IF- Surface Blow built to 1/4" then died back to a Weak Surface Blow .

60 - IS- No Return

60 - FF- No Blow

90 - FS- No Return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2239.66	137.00	Initial Hydro-static
2	28.17	136.15	Open To Flow (1)
32	25.68	137.61	Shut-In(1)
93	126.18	140.55	End Shut-In(1)
93	26.99	140.54	Open To Flow (2)
154	26.86	142.70	Shut-In(2)
250	152.26	145.36	End Shut-In(2)
252	2227.79	145.94	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud 100M	0.02

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Berexco, LLC.

9-2N-37W Cheyenne, KS

2020 N Bramblewood
Wichita, KS 67206

Wilkins D #1-9

Job Ticket: 65206

DST#: 8

ATTN: Bryan Bynog

Test Start: 2015.08.04 @ 12:50:00

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: 53.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.40 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 900.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	Mud 100M	0.025

Total Length: 5.00 ft Total Volume: 0.025 bbl

Num Fluid Samples: 0

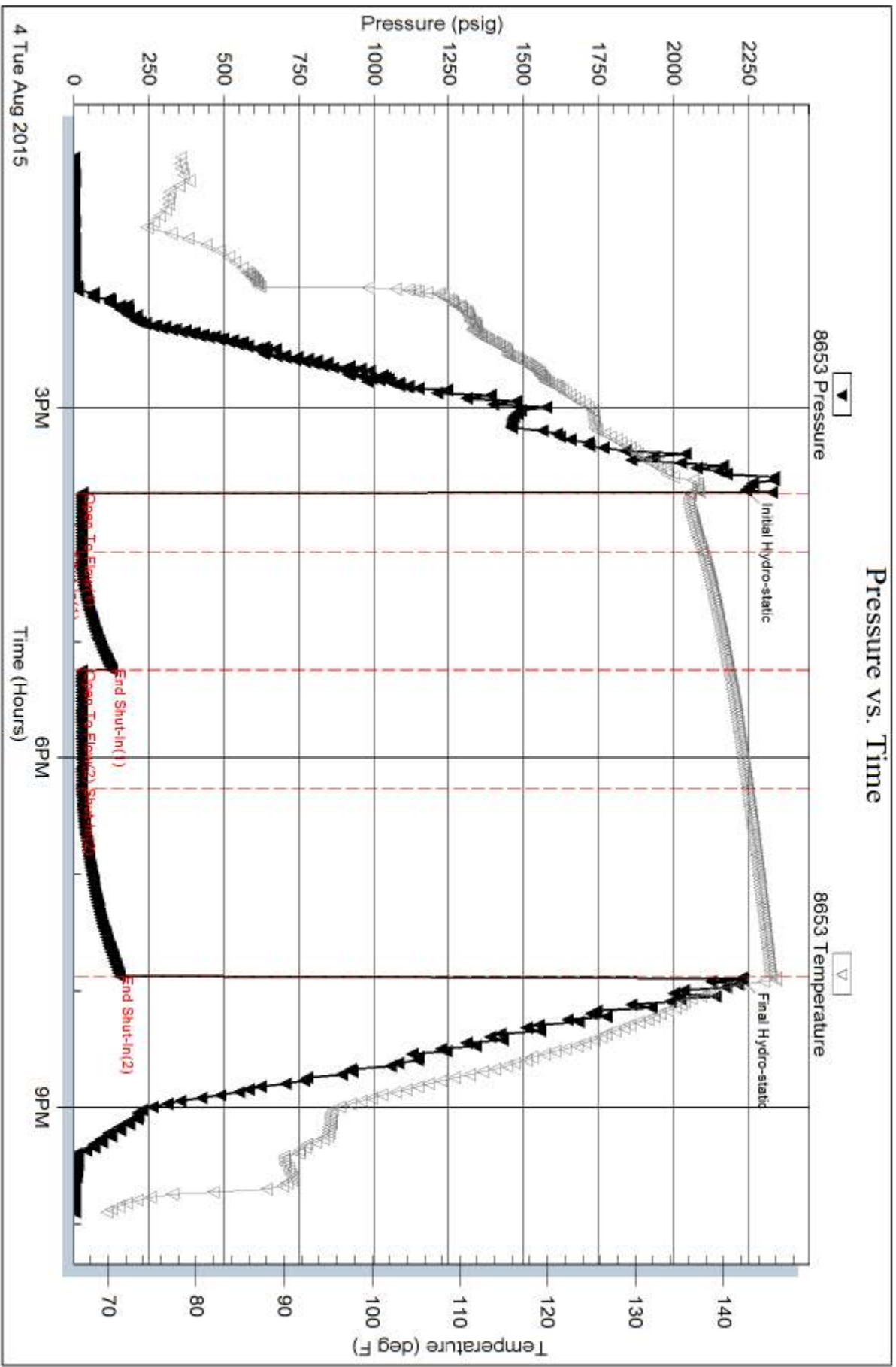
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Berexco, LLC.

9-2N-37W Cheyenne, KS

2020 N Bramblewood
Wichita, KS 67206

Wilkens D #1-9

Job Ticket: 65207

DST#: 9

ATTN: Bryan Bynog

Test Start: 2015.08.05 @ 14:10:00

GENERAL INFORMATION:

Formation: **Cherokee**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 17:27:00

Time Test Ended: 23:50:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Kevin Mack

Unit No: 82

Interval: 4790.00 ft (KB) To 4880.00 ft (KB) (TVD)

Reference Elevations: 3377.00 ft (KB)

Total Depth: 4880.00 ft (KB) (TVD)

3366.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 11.00 ft

Serial #: 8520 Inside

Press@RunDepth: 38.39 psig @ 4791.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2015.08.05

End Date:

2015.08.05

Last Calib.:

2015.08.05

Start Time: 14:11:00

End Time:

23:50:00

Time On Btm:

2015.08.05 @ 17:26:00

Time Off Btm:

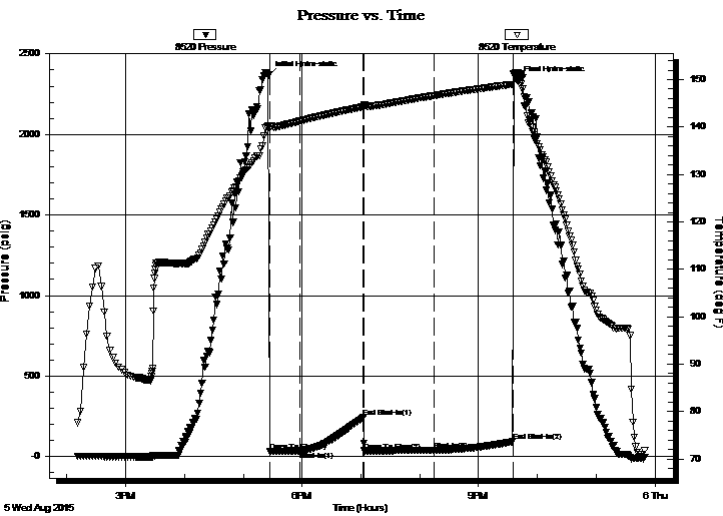
2015.08.05 @ 21:39:30

TEST COMMENT: 30 - IF- 1/2" Blow died in 25 min.

60 - IS- No Return

60 - FF- No Blow

90 - FS- No Return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2366.98	140.22	Initial Hydro-static
1	32.11	139.71	Open To Flow (1)
32	36.51	141.28	Shut-In(1)
97	243.51	144.27	End Shut-In(1)
98	36.43	144.57	Open To Flow (2)
169	38.39	146.59	Shut-In(2)
249	93.03	148.99	End Shut-In(2)
254	2333.68	151.50	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	OSM 100M (oil spots)	0.05
1.00	Free Oil 100o	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Berexco, LLC.

9-2N-37W Cheyenne, KS

2020 N Bramblewood
Wichita, KS 67206

Wilkens D #1-9

Job Ticket: 65207

DST#: 9

ATTN: Bryan Bynog

Test Start: 2015.08.05 @ 14:10:00

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: 52.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.80 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 900.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
10.00	OSM 100M (oil spots)	0.049
1.00	Free Oil 100o	0.005

Total Length: 11.00 ft Total Volume: 0.054 bbl

Num Fluid Samples: 0

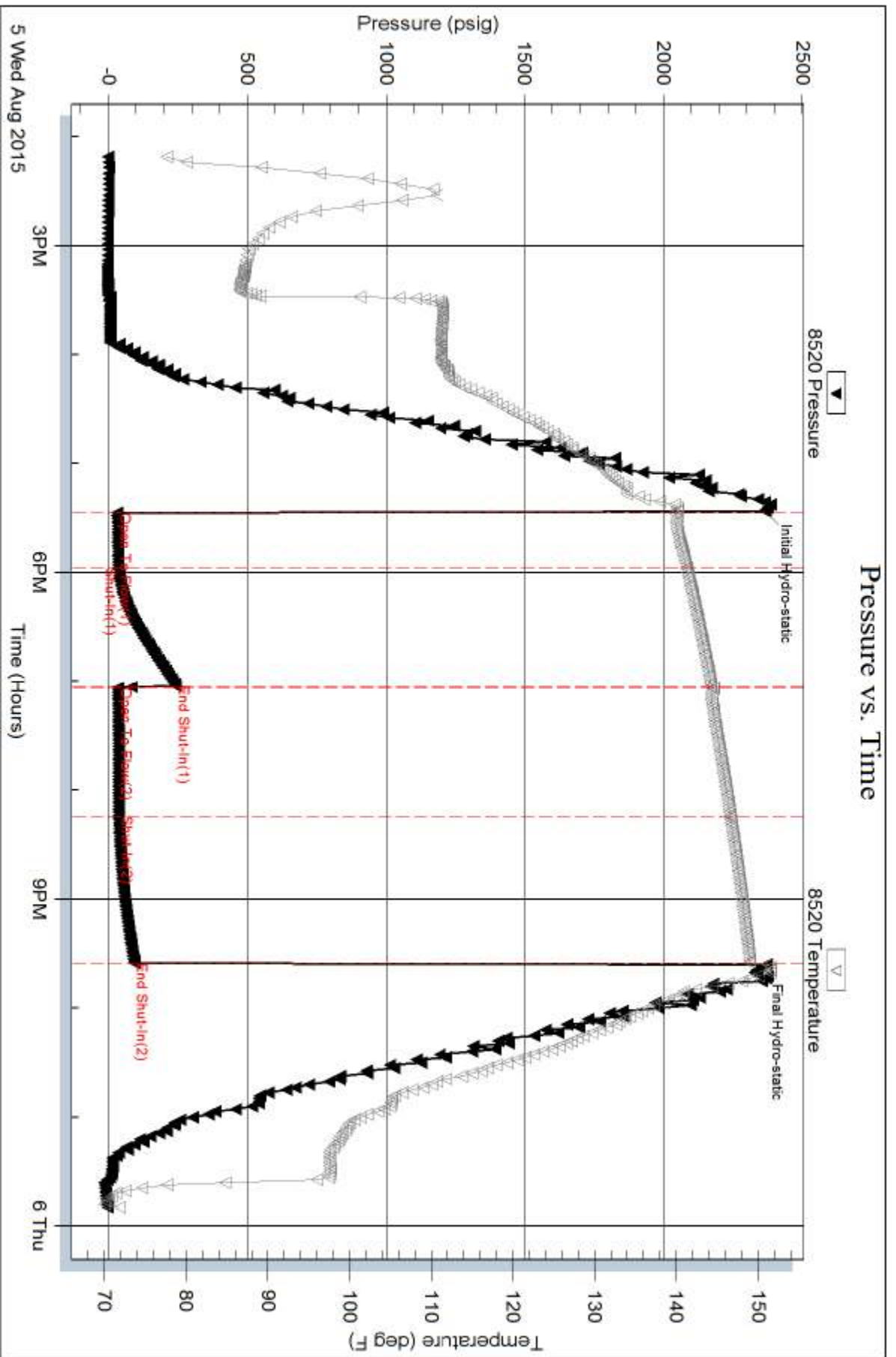
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Berexco, LLC.

9-2N-37W Cheyenne, KS

2020 N Bramblewood
Wichita, KS 67206

Wilkens D #1-9

Job Ticket: 65208

DST#: 10

ATTN: Bryan Bynog

Test Start: 2015.08.06 @ 15:51:00

GENERAL INFORMATION:

Formation: **LKC "F"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 18:04:30

Time Test Ended: 00:50:30

Test Type: Conventional Straddle (Initial)

Tester: Kevin Mack

Unit No: 82

Interval: 4530.00 ft (KB) To 4605.00 ft (KB) (TVD)

Reference Elevations: 3377.00 ft (KB)

Total Depth: 4930.00 ft (KB) (TVD)

3366.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 11.00 ft

Serial #: 8653 Outside

Press @ Run Depth: 151.42 psig @ 4531.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2015.08.06

End Date:

2015.08.07

Last Calib.: 2015.08.07

Start Time: 15:52:00

End Time:

00:50:30

Time On Btm: 2015.08.06 @ 18:03:00

Time Off Btm: 2015.08.06 @ 22:11:00

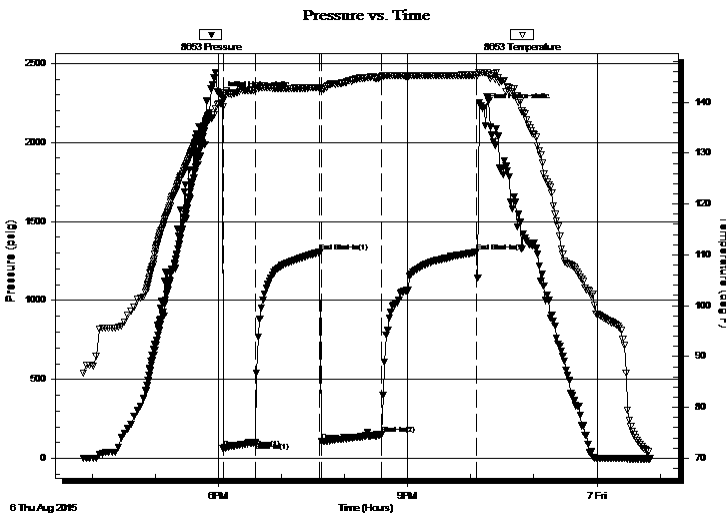
TEST COMMENT: 30 - IF- 1/8" Blow died in 5 min.

60 - IS- No Return

60 - FF- No Blow

90 - FS- No Return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2296.10	139.90	Initial Hydro-static
2	62.29	139.16	Open To Flow (1)
32	100.46	142.44	Shut-In(1)
94	1307.60	142.92	End Shut-In(1)
95	108.66	142.42	Open To Flow (2)
152	151.42	145.00	Shut-In(2)
242	1305.85	145.39	End Shut-In(2)
248	2217.32	145.88	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
180.00	OSM 100M (oil spots)	0.89

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Berexco, LLC.

9-2N-37W Cheyenne, KS

2020 N Bramblewood
Wichita, KS 67206

Wilkens D #1-9

Job Ticket: 65208

DST#: 10

ATTN: Bryan Bynog

Test Start: 2015.08.06 @ 15:51:00

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: 52.00 sec/qt

Cushion Volume: bbl

Water Loss: 6.80 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure: psig

Salinity: 900.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
180.00	OSM 100M (oil spots)	0.885

Total Length: 180.00 ft Total Volume: 0.885 bbl

Num Fluid Samples: 0

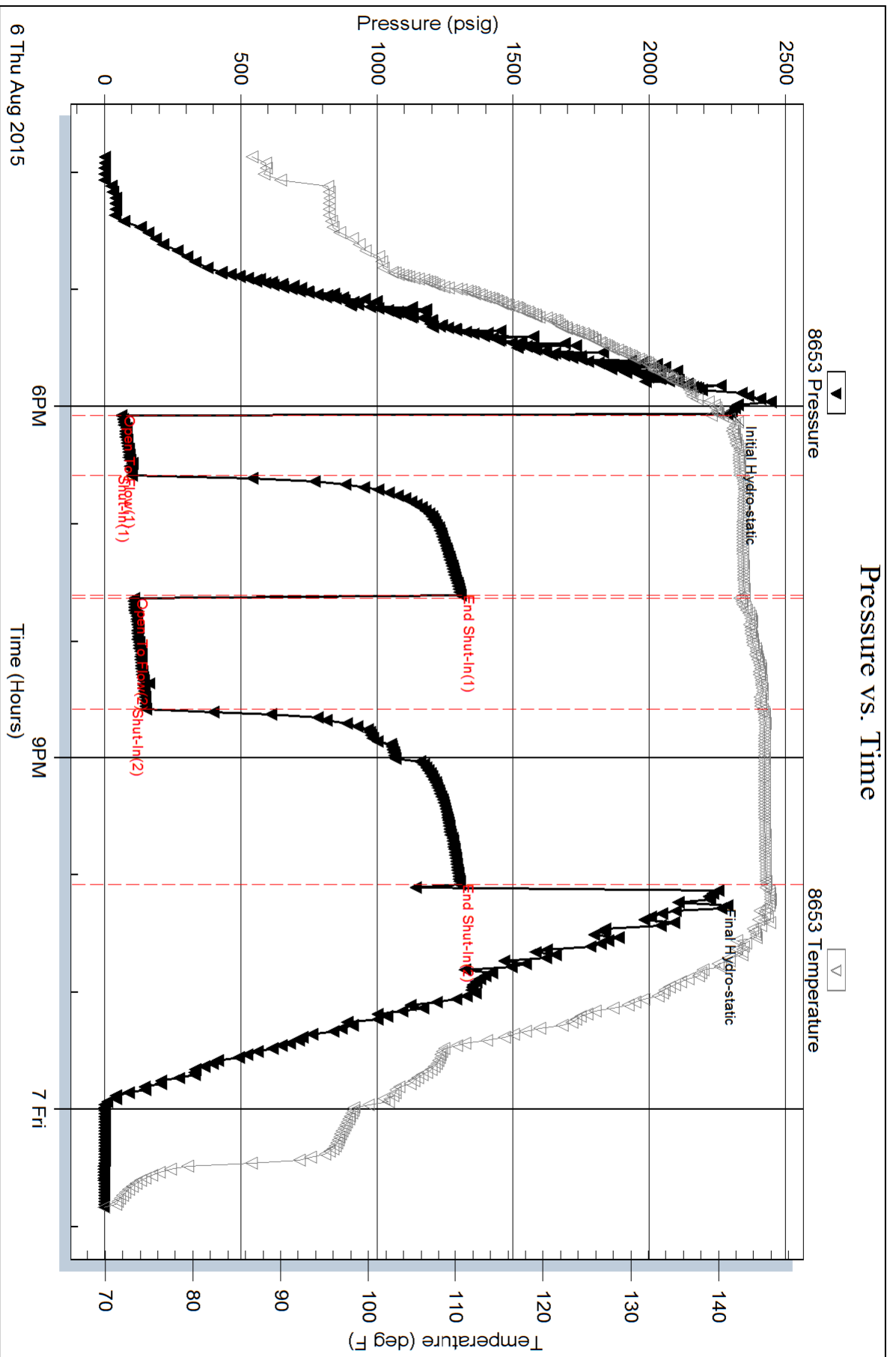
Num Gas Bombs: 0

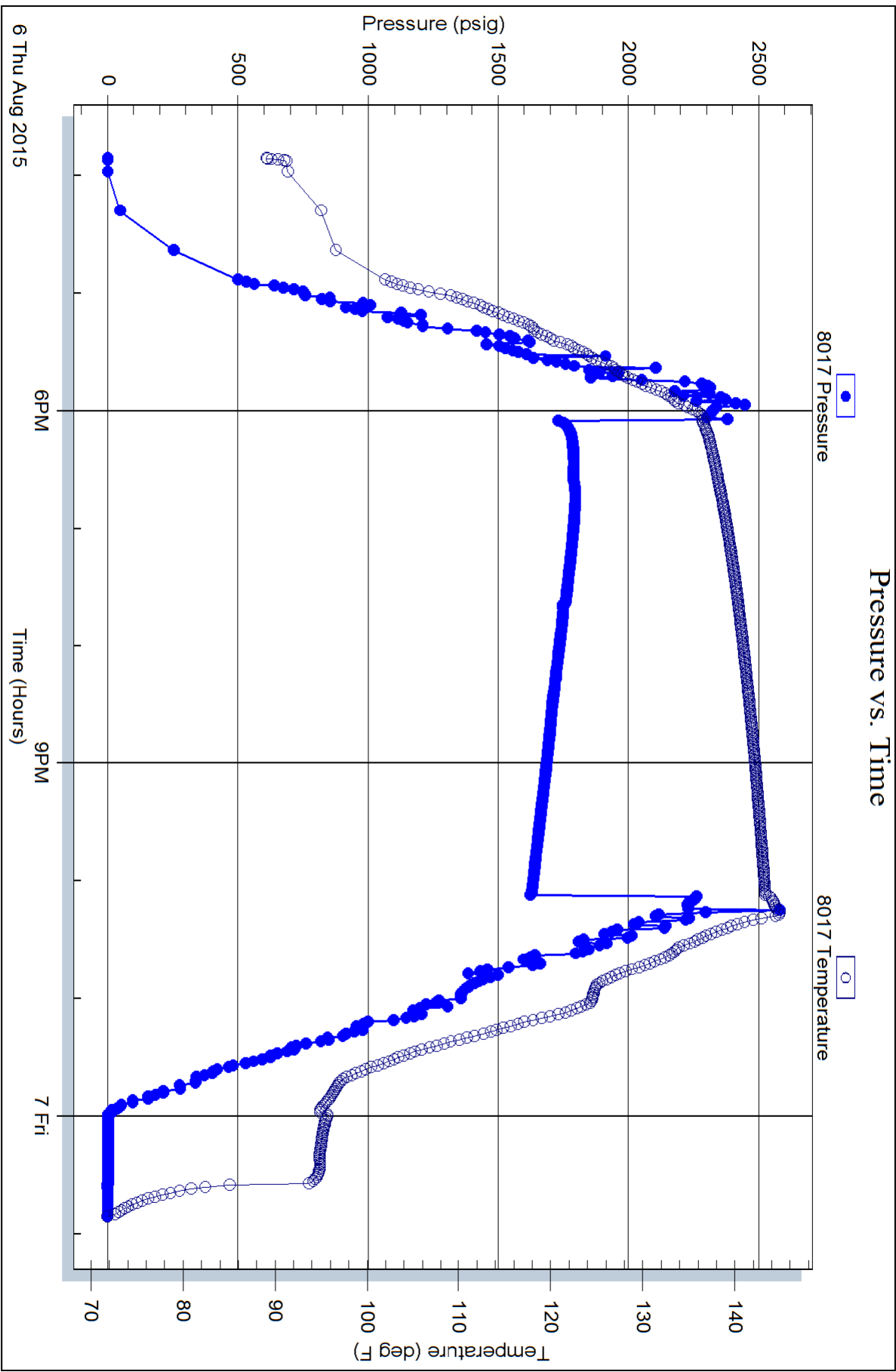
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





**BEREXCO, LLC.
WILKENS D #1-9
NWSE SECTION 9 2S-37W
CHEYENNE COUNTY, KANSAS**

**GEOLOGIST
WILLIAM B. BYNOG**

RESUME

OPERATOR: BEREXCO, LLC.

WELL NAME & NUMBER: WILKENS D #1-9

LOCATION: NWSE SECTION 9 2S-37W

COUNTY: CHEYENNE

STATE: KANSAS

SPUD DATE: 7-24-2015 COMPLETION DATE: 8-7-2015

ELEVATIONS: GL: 3366 KB: 3377

CONTRACTOR: BEREDCO RIG 10

LOGS: LOG TECH TYPES: RAG, MICROLOG

WELLSITE ENGINEER: NONE

MUD COMPANY: MORGAN MUD

MUD TYPE & ENGINEER: FRESH CHEMICAL

GEOLOGIST: WILLIAM B. BYNOG

HOLE SIZE: 7 7/8

MUD LOGGING BY: NONE

DRILL STEM TEST COMPANY: TRILOBITE

DRILL STEM TEST: DST#1 4040-4120, DST#2 4122-4200,
DST#3 4185-4255, DST#4 44260-4355,
DST#5 4330-4420, DST#6 4385-4510,
DST#7 4485-4540, DST#8 4630-4730,
DST#9 4790-4880, DST#10 4530-4605

WELL STATUS: PLUG & ABANDON

DISCUSSION

Wilkins D #1-9 2S-37W was drilled a total depth of 4930 feet testing the Lansing Kansas City, Pawnee and Cherokee formations in Cheyenne County, Kansas. This well was a wildcat drilled with the help of seismic data and well control.

Structurally, Wilkins D #1-9 came in five low to the prognosis and low to other productive wells in the area.

The first good live oil show was encountered in the Topeka at 4090 feet. This zone was tested on drill stem test #1 recovering 190 feet of total fluid, (10 feet of oil cut mud & 180 feet of water). There were other good live oil shows in the lower Topeka in two lower zones. These zones were tested on drill stem test #2 recovering 310 feet of total fluid, (70 feet of oil cut mud and 240 feet of slightly oil cut water). Drilling continued to the Oread zone encountering a good live show of free oil in a fossiliferous Limestone. This zone was tested on drill stem test #3 recovering only 5 feet of oil spotted mud. The Lansing A zone had a good live oil show and was tested on drill stem test #4 recovering one foot of free oil and 5 feet of oil spotted mud with low pressures. The B zone turns out to be the best zone in the well. It was associated with a good drilling break, fair to good porosity development and good live oil shows in a fossiliferous Grainstone. This zone was tested on drill stem test #5 recovering 5 feet of free oil and 70 feet of oil cut mud (20% oil). Drilling continued to the C and D zones encountering good live oil shows in both zones. Drill stem test #6 recovered 818 feet of total fluid, (146 feet of oil cut mud and 672 feet of oil spotted muddy water). The E zone had a fair oil show in a tight limestone and was tested on drill stem test #7 recovering 60 feet of oil spotted mud. Drilling continued to the Pawnee encountering a good drilling break in a Grainstone and good live oil shows. This zone was tested on drill stem test #8 recovering 5 feet of oil cut mud. There was also a fair live oil show encountered in a Cherokee limestone at 4800-4810 feet, prompting drill stem test #9. Drill stem test #9 recovered one foot of free oil and 10 feet of oil spotted mud with low tight pressures. The F zone had no shows during drilling but looked promising on logs. A straddle test #10 was done on the F zone recovering 180 feet of oil spotted mud.

Logs agreed with sample evaluation recording poor to some fair porosity development. The Lansing B zone is the best zone in the well but only recovered 5 feet of free oil and 70 feet of oil cut mud.

A decision was made to plug and abandon due to the poor recoveries on drill stem tests and tight porosities on logs.

Wilkens D #1-9 Sample Descriptions

3850-70 SHALE red,firm,very silty

FORAKER

3870-93 LIMESTONE gray,hard,dense,very fossils,dirty,very shaly,poor porosity,no shows

3893-3910 LIMESTONE buff,hard,blocky,dense,crptoxln,trace Chert orange, poor porosity,no shows with thin SHALE as above

3910-20 SANDSTONE pale gray,firm,very fine grained,wsrtd,clay filled,poor porosity,no shows

3920-36 LIMESTONE buff,pale gray brown,very hs,dense,blocky,crptoxln,no shows abundant Chert orange

3936-95 SHALE red,soft,very argillaceous,silty in part with thin dense LIMESTONE as above

3995-4000 LIMESTONE buff,very hard,dense,crptoxln,poor porosity,trace black dead stain,no free oil

4000- 22 SHALE red,soft,argillaceous,silty in part with trace very thin LIMESTONE white,hard,slightly fossils,poor porosity,very spotty dead black stain,no free oil

4022-60 LIMESTONE white,slightly hard,very chalky,oolic,poor intergranular porosity,spotty black dead stain,poor cut,no free oil with bedded SHALE as above

4060-90 SHALE as above with interbedded thin LIMESTONE buff,very hard,dense,very fnly microcrystalline,no shows

TOPEKA

Wilkins D #1-9 Sample Descriptions

4090-94 GRAINSTONE white,firm,very oolic,very abundant pyrite,fair intergranular porosity,spotty live brown stain,very good cut,good show free oil

4094-4102 LIMESTONE buff,very hard,dense,crptoxln,no shows

4102-04 GRAINSTONE as above becoming slightly hard,poor to fair intergranular porosity,spotty live brown stain,good cut,fair show free oil

4104-36 LIMESTONE buff,very hard,dense,as above no shows with thin SHALE as above

4136-40 GRAINSTONE white,firm,chalky,very oolic,fair intergranular porosity,spotty live brown stain,good cut,fair show free oil

4140-46 LIMESTONE buff,very hard,dense,blocky,very fnly microcrystalline,no shows

4146-65 SHALE red,firm,very silty,sandy in part,poor porosity,dirty,no shows with very thin stringers LIMESTONE white,firm,oolic,sandy in part,poor vis porosity,spotty live brown stain,good cut,fair show free oil

4165-80 LIMESTONE buff,very hard,dense,blocky,crptoxln,

4180-92 LIMESTONE white,hard,blocky,slightly oolic,poor vis porosity,poor pinpoint vuggy porosity,very spotty live brown stain,fair cut,fair show free oil

4192-4200 SHALE red,soft,very argillaceous,gummy

Wilkins D #1-9 Sample Descriptions

4200-28 SHALE green,red,firm,fissile,abundant pyrite nods

OREAD

4228-32 GRAINSTONE white,firm,very oolic,sandy in part,poor to fair intergranular porosity,spotty live oil stain,gd cut, fair show free oil

4232-38 SHALE becoming sandy in part,very abundant pyrite

4238-45 GRAINSTONE white,soft,very oolic,chalky,poor to fair intergranular porosity,spotty to even live brown stain,very good cut,good show free oil

4245-50 LIMESTONE white,firm,very chalky,poor vis porosity,trace black dead stain,no free oil

4250-72 LIMESTONE buff,hard,dense,blocky,crptoxln,no shows

4272-80 SHALE gray,gray black,slightly carbonaceous,firm,fissile

4280-90 LIMESTONE pale gray brown,buff,very hard,dense,blocky,crptoxln,abundant pyrite nodules

4290-4316 SHALE red,green,firm,silty abundant pyrite

LANSING A

4316-22 SANDSTONE white,firm,very fine grained,wsrtd,poor to fair intergranular porosity,chalky in part,spotty to even live black stain,very good cut,good show free oil

Wilkins D #1-9 Sample Descriptions

4322-40 LIMESTONE pale gray brown,very hard,dense,crptoxln,rare black dead stain in fracture

4340-45 SHALE as above abundant pyrite

4345-48 SANDSTONE pale green,firm,very fine grained,wsrtd,chalky,poor vis porosity,spotty black dead stain,poor cut,no free oil

4348-73 SHALE as above

B ZONE

4373-90 GRAINSTONE white,firm,very fossils,oolic,fossils fragments, chalky in part,fair intergranular porosity,spotty live brown stain,very good cut,good show free oil

4370-80 LIMESTONE buff,hard,dense,blocky,very fnly microcrystalline,no shows

4380-90 LIMESTONE white,slightly hard,very chalky,fossils,poor to fair intergranular and pinpoint vuggy porosity,spotty live brown stain,good cut,fair show free oil

4390-4404 LIMESTONE buff,very hard,dense,sandy in part,poor porosity,no shows

4404-36 SHALE red,firm,silty

C ZONE

4436-42 LIMESTONE white,slightly hard,slightly fossils,chalky,poor pinpoint vuggy

Wilkins D #1-9 Sample Descriptions

porosity,spotty black thick stain,good cut,poor show free oil

4442-48 LIMESTONE buff,hard,blocky,chalky in part,poor porosity,no shows

4448-60 SHALE green,firm,silty

4460-75 SHALE gray,slightly hard,becoming sandy with thin LIMESTONE gray,hard,very dirty

D ZONE

4478-80 LIMESTONE white,slightly hard,chalky,poor pinpoint vuggy porosity,very spotty live brown stain,good cut,trace free oil

4482-4502 LIMESTONE buff,very hard,very dense,crptoxln,chalky in part,poor porosity,no shows with thin SHALE as above

4502-4522 SHALE green,red,firm,silty,sandy in part

E ZONE

4522-28 LIMESTONE white,firm,fossils,chalky in part,poor to fair microcrystalline porosity,spotty to even live brown stain,very good cut,fair show free oil

4528-32 LIMESTONE buff,hard,dense,very fnly microcrystalline,no shows

4532-40 SHALE red,green,firm,fissile,waxy in part

Wilkins D #1-9 Sample Descriptions

4540-57 SHALE red,firm,very silty,sandy in part

F ZONE

4557-72 LIMESTONE buff,very hard,dense,crptoxln,chalky in part,poor porosity,no shows

4572-80 SHALE red,firm,silty

4580-94 LIMESTONE buff,hard,dense,sandy in part,poor porosity,no shows

4594-20 SHALE red,firm,silty,sandy in part

4620-40 LIMESTONE buff,hard,dense,crptoxln,chalky in part,abundant sandy in part,poor porosity,no shows abundant Chert orange

4640-82 SHALE red,gray green,firm,very silty,abundant sandy very fine grained

4682-06 LIMESTONE white,firm,fossils,oolic,poor to fair microcrystalline to pinpoint vuggy porosity,very spotty light brown stain,good cut,poor show free oil

4606-4700 LIMESTONE white to buff,slightly hard,very fnly microcrystalline,very sandy in part poor porosity,no shows

4700-09 SHALE green,soft,very argillaceous,waxy in part

4706-16 GRAINSTONE white,firm,very oolic,poor to fair intergranular porosity,spotty to even live brown stain,very good cut,fair show free oil

Wilkins D #1-9 Sample Descriptions

PAWNEE

4716-26 LIMESTONE white, slightly hard, slightly oolic, poor pinpoint vuggy porosity, spotty live brown stain, fair cut, p show free oil

4726-40 LIMESTONE buff, very hard, dense, crptoxln, no shows

4740-50 Shale red, green, firm, argillaceous

4750-68 Shale dark gray, black, firm, fissile, very carbonaceous with thin LIMESTONE sandstone dense, no shows

4768-80 SHALE black, firm, fissile, very carbonaceous

4780-4806 LIMESTONE buff, hard, blocky, dense, slightly fossils, chalky in part, poor porosity, no shows

4806-10 LIMESTONE white, firm, fossils, chalky in part, poor to fair pinpoint vuggy porosity, spotty live brown stain, good cut, good show free oil

4810-22 LIMESTONE buff, hard, dense, chalky in part poor porosity, no shows

4822-26 Shale red, green, black, firm, fissile, carbonaceous in part

4826-42 LIMESTONE as above buff, chalky, dense, no shows

Wilkins D #1-9 Sample Descriptions

4842-52 SHALE as above with thin SANDSTONE red,hard,fine to mg,trace pink grains,sileous cement poor porosity,no shows

4852-56 LIMESTONE buff,hard,dense,crptoxln,no shows

4856-82 SANDSTONE white,slightly hard,mg,angular,psrtd,sileous cement,poor porosity,no shows with thin SHALE as above

4882-4914 SHALE red,maroon,green,firm,fissile,very silty with thin bedded SANDSTONE translucent,hard,fine to coarse good,sileous cement,poor vis porosity,abundant very large uncon quartz grains,no shows

4914-30 SANDSTONE/CONG translucent,pale red,hard,m to very cg,abundant very large grains,poor porosity,no shows with thin SHALE as above

RTD 4930'

LTD 4931'

ALLIED OIL & GAS SERVICES, LLC

Federal Tax I.D. #20-5975804

21910
977
067785
12/6/17

REMIT TO P.O. BOX 93999
SOUTHLAKE, TEXAS 76092

SERVICE POINT:

Dallas, TX

DATE <i>12/17</i>	SEC <i>9</i>	TWP <i>7</i>	RANGE <i>37</i>	CALLED OUT	ON LOCATION	JOB START <i>11:30 AM</i>	JOB FINISH <i>12:30 PM</i>
LEASE <i>W/No 0</i>	WELL # <i>1-9</i>	LOCATION <i>McDonald N 10 W 12 33</i>				COUNTY <i>Cherokee</i>	STATE <i>MS</i>
OLD OR NEW (Circle one)		<i>1/4 W 12 33</i>				<i>1-03</i>	<i>8.5 all</i>

CONTRACTOR *Berco 10*

TYPE OF JOB *PTA*

HOLE SIZE *7 7/8* T.D.

CASING SIZE *8 1/8* DEPTH *305'*

TUBING SIZE DEPTH

DRILL PIPE DEPTH

TOOL DEPTH

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT

CEMENT LEFT IN CSG.

PERFS.

DISPLACEMENT

OWNER

CEMENT

AMOUNT ORDERED *255 60/40 40 royal*

114 P10

255 60/40 40 royal

COMMON *255 3/4* @ *18 92* *4724.00*

POZMIX @

GEL @

CHLORIDE @

ASC @

Flt Seal 64lb @ *2 92* *122.00*

@

@

@

@

@

@

EQUIPMENT

PUMP TRUCK CEMENTER *Alan Ryan 1*

995 HELPER *Chris Ryan 1*

BULK TRUCK

891 DRIVER *Cory Brown 3*

BULK TRUCK

DRIVER

REMARKS:

- 50 5/8 @ 3305'*
- 100 9/16 @ 2500'*
- 50 5/8 @ 250'*
- 10 5/8 @ 40'*
- 20 5/8 @ 7 Hole*
- 15 5/8 @ 10 Hole*

CHARGE TO: *Berco 10*

STREET

CITY STATE ZIP

TOTAL *5044.00*

DISCOUNT *48%* *2421.00*

SERVICE

HANDLING *273* @ *2 48* *679.00*

MILEAGE *25* *70 miles* *11.44* *1523.00*

DEPTH OF JOB

PUMP TRUCK CHARGE *2600* *42*

EXTRA FOOTAGE @

HV MILEAGE *60* @ *7 20* *385.00*

LV MILEAGE @

@

@

TOTAL *3,037.00*

DISCOUNT *48%* *254.00*

PLUG & FLOAT EQUIPMENT

2-Ton Wood Plug @ *110.00*

@

@

@

@

TOTAL *110.00*

DISCOUNT *0%* *0.00*

To: Allied Oil & Gas Services, LLC.

You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

PRINTED NAME *Gilbert Davila Jr.*

SIGNATURE *Gilbert Davila Jr.*

SALES TAX (if Any) *880.81*

TOTAL CHARGES *10,362.87*

DISCOUNT *4921.14 (48%)* IF PAID IN 30 DAYS

NET TOTAL *5441.03* IF PAID IN 30 DAYS

Date: 8/2/15 District: OKM/LL Ticket No. 067287
 Company: Quince Rig: Quince 10
 Lease: Willford Well No.: 1-9
 County: Wagoner State: OK
 Location: _____ Field: _____

CEMENT DATA:

Spacer Type: _____
 Amt. _____ Sks Yield _____ ft³/sk Density _____ PPG _____

LEAD: Pump Time _____ hrs. Type PPG 4000
 Amt. 255 Sks Yield 1-1 Excess _____
 ft³/sk Density 1300 PPG _____

TAIL: Pump Time _____ hrs. Type _____
 Amt. _____ Sks Yield _____ ft³/sk Density _____ PPG _____

WATER: Lead 6.9 gals/sk Tail _____ gals/sk Total _____ Bbls. _____

Pump Trucks Used 425
 Bulk Equip. 231

Flight Equip: Manufacturer _____
 Shoe Type _____ Depth _____
 Float Type _____ Depth _____
 Centralizers: Quantity _____ Plugs Top _____ Bitr. _____
 Stage Collars _____
 Special Equip. _____
 Disp. Fluid Type KFD Amt. _____ Bbls. Weight _____ PPG _____
 Mud Type Top Grade Weight _____ PPG _____

CASING DATA: Conductor PTA Squeezé Misc
 Surface Intermediate Production Liner
 Size 8 1/2 Type _____ Weight _____ Collar _____

Casing Depths: Top 66 Bottom 305

Drill Pipe: Size _____ Weight _____ Collars _____
 Open Hole: Size _____ T.D. _____ ft. P.B. to _____ ft.

CAPACITY FACTORS:

Casing: Bbls./Lin. ft. 0.67 Lin. ft./Bbl. _____
 Open Holes: Bbls./Lin. ft. _____ Lin. ft./Bbl. _____
 Drill Pipe: Bbls./Lin. ft. 0.142 Lin. ft./Bbl. _____
 Annulus: Bbls./Lin. ft. _____ Lin. ft./Bbl. _____
 Perforations: From _____ ft. to _____ ft. Amt. _____

COMPANY REPRESENTATIVE _____

CEMENTER Quince

TIME	PRESSURES PSI		FLUID PUMPED DATA			REMARKS
	DRILL PIPE CASING	ANNULUS	TOTAL FLUID	Pumped Per Time Period	RATE Bbls Min.	
						Annulation 900, 1000, 1100
				8 1/4	3.0	1000 3125'
				16 1/2	3.0	1000 3500'
				8 1/4	3.0	1000 3500'
				8	3.0	1000 400'
				5	3.0	1000 R.H.
				2 1/2	3.0	1000 15 SK M.H.
10:30 am						Job Complete