Confidentiality Requested:
☑ Yes ☐ No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

1265084

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 # 34318
Name: BEREXCO LLC
Address 1: 2020 N. Bramblewood
Address 2:
City: Wichita State: KS Zip: 67206 + 1094
Contact Person: Rodney Reynolds
Phone: (316) 265-3311
CONTRACTOR: License # 34317
Name: BEREDCO LLC
Wellsite Geologist: Bryan Bynog
Purchaser: Central Crude Corporation

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 #:

07/10/2015 Spud Date or Recompletion Date
07/20/2015 Date Reached TD
09/08/2015 Completion Date or Recompletion Date

API No.: 15-023-21430-00-00
Spot Description:
E2 - W2 - SE - NW Sec. 19 Twp. 1 S. R. 37 ☐ East ☑ West
1980 Feet from ☑ North / ☐ South Line of Section
1860 Feet from ☐ East / ☑ West Line of Section
Footages Calculated from Nearest Outside Section Corner:
☐ NE ☑ NW ☐ SE ☐ SW
GPS Location: Lat: *(e.g. xx.xxxxx)* , Long: *(e.g. -xxx.xxxxx)*
Datum: ☐ NAD27 ☐ NAD83 ☐ WGS84
County: Cheyenne
Lease Name: Owens Trust Well #: 3-19
Field Name: Hourglass
Producing Formation: Pawnee, LKC
Elevation: Ground: 3174 Kelly Bushing: 3185
Total Vertical Depth: 4727 Plug Back Total Depth: 4683
Amount of Surface Pipe Set and Cemented at: 303 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: 800 ppm Fluid volume: 800 bbls
Dewatering method used: Evaporated

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: 11/03/2015
☑ **Confidential Release Date:** 11/02/2017
☑ **Wireline Log Received** ☐ **Drill Stem Tests Received**
☑ **Geologist Report / Mud Logs Received**
☐ **UIC Distribution**
ALT ☑ **I** ☐ **II** ☐ **III** **Approved by:** NAOMI JAMES **Date:** 11/03/2015

[redacted]

1265084

Operator Name: BEREXCO LLC Lease Name: Owens Trust Well #: 3-19

Sec. 19 Twp. 1 S. R. 37 ☐ East ☑ West County: Cheyenne

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 ☑ Yes ☐ No
(Attach Additional Sheets)

Samples Sent to Geological Survey ☑ Yes ☐ No

Cores Taken ☐ Yes ☑ No

Electric Log Run ☑ Yes ☐ No

Geolgist Report / Mud Logs ☐ Yes ☐ No

List All E. Logs Run:

Radiation Guard Log
Microresistivity Log

☑ Log Formation (Top), Depth and Datum ☐ Sample

Name: Attached Top: Attached Datum: Attached

CASING RECORD ☑ New ☐ 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
Surface	12.25	8.625	23	303	Common	225	2%gel, 3%cc
Production	7.875	5.50	15.5	4725	Lite, Common	800	3/4#floseal, 10%salt, 5#Gilsonite

ADDITIONAL CEMENTING / SQUEEZE RECORD

Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
☐ Perforate ☐ Protect Casing ☐ Plug Back TD ☐ 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: 09/08/2015

Producing Method: ☐ Flowing ☑ Pumping ☐ Gas Lift ☐ Other *(Explain)*

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
	27	0	35		28

DISPOSITION OF GAS:
☐ Vented ☐ Sold ☐ Used on Lease
(If vented, Submit ACO-18.)

METHOD OF COMPLETION:
☐ Open Hole ☑ Perf. ☐ Dually Comp. *(Submit ACO-5)* ☐ Commingled *(Submit ACO-4)*

PRODUCTION INTERVAL:

Top	Bottom
4546 - 4552	
4213 - 4220	

Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record *(Amount and Kind of Material Used)*

TUBING RECORD: Size: 2.875 Set At: SN @ 4553 Packer At: no packer

Mail to: KCC - Conservation Division, 266 N. Main, Suite 220, Wichita, Kansas 67202

Form	ACO1 - Well Completion
Operator	BEREXCO LLC
Well Name	Owens Trust 3-19
Doc ID	1265084

Tops

Name	Top	Datum
Anhydrite (top)	3146	+39
Anhydrite (base)	3178	+7
Topeka	3936	-751
Oread	4074	-889
Lansing A	4149	-964
Lansing B	4210	-1025
Lansing C	4264	-1029
Lansing D	4304	-1119
Lansing E	4352	-1167
Lansing F	4394	-1209
Pawnee	4546	-1361
RTD	4725	-1540
LTD	4727	-1542

Form	ACO1 - Well Completion
Operator	BEREXCO LLC
Well Name	Owens Trust 3-19
Doc ID	1265084

Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement	Number of Sacks Used	Type and Percent Additives
Surface	12.25	8.625	23	303	Common	225	2%gel, 3%cc
Production	7.875	5.50	15.5	4725	Lite, Common	800	3/4#floseal, 10%salt, 5#Gilsonite

WELL FILE

21150

ALLIED OIL & GAS SERVICES, LLC

Federal Tax I.D.#20-5975804

067772

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

SERVICE POINT: Oakley

DATE 7/1/15	SEC. 19	TWP. 1	RANGE 37	CALLED OUT	ON LOCATION	JOB START	JOB FINISH
LEASE Owens	WELL # 3-19	LOCATION				COUNTY Cheyenne	STATE KS
OLD OR NEW (Circle one)							

CONTRACTOR | OWNER Same

TYPE OF JOB Surface			CEMENT			
HOLE SIZE 12 1/4	T.D. 303		AMOUNT ORDERED 225 Com 3%CC 2%gel			
CASING SIZE 8 5/8	DEPTH 303					
TUBING SIZE	DEPTH					
DRILL PIPE	DEPTH					
TOOL	DEPTH					
PRES. MAX	MINIMUM		COMMON 225	@ 17.90	4027.50	
MEAS. LINE	SHOE JOINT		POZMIX	@		
CEMENT LEFT IN CSG. 15'			GEL 423	@	211.50	
PERFS.			CHLORIDE 635 lb	@ 1.10	698.50	
DISPLACEMENT			ASC	@		

EQUIPMENT

PUMP TRUCK #431	CEMENTER	Kevin Ryan
	HELPER	Duane Racette
BULK TRUCK # 921	DRIVER	Kevin Ryan
BULK TRUCK #	DRIVER	

TOTAL 4,937.50

DISCOUNT 48 % 2,370.00

REMARKS:

Run Csg, Circulate, Mix Cement, Displace Cement, Shut in

Cement did circulate

Thank You
Allied Oil & Gas Services

555.20

SERVICE

HANDLING 243	@ 2.48	603.41
MILEAGE 2.23 ton/mile 11	@	1526.80
DEPTH OF JOB 303		
PUMP TRUCK CHARGE		1512.25
EXTRA FOOTAGE	@	
HV MILEAGE 50	@ 7.70	385.00
LV MILEAGE 50	@ 4.40	n/c
Smudge	@ 225.00	n/c
	@	

TOTAL 4027.46

DISCOUNT 48 % 1933.18

CHARGE TO: Berexco

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.

SALES TAX (If Any) 419.68

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

PRINTED NAME Gilbert Davila Jr

SIGNATURE

ALLIED OIL & GAS SERVICES, LLC

CEMENTING LOG

STAGE NO.

Date 2/11/15 District Russell Ticket No. 067272
Company Berexco Rig Beredco 10
Lease Owens Well No. 2-19
County Cheyenne State KS
Location _____ Field _____

CASING DATA: Conductor ☐ PTA ☐ Squeeze ☐ Misc ☐
Surface ☒ Intermediate ☐ Production ☐ Liner ☐
Size 8 5/8 Type New Weight 24 Collar _____

Casing Depths: Top KB Bottom 248'

Drill Pipe: Size 4 1/2 Weight _____ Collars _____
Open Hole: Size 12 1/4 T.D. _____ ft. P.B. to _____ ft.

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. _____

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

LEAD: Pump Time _____ hrs. Type Com 3%CC 2%gel
Excess _____
Amt 285 Sks Yield 1.24 ft³/sk Density 15.2 PPG
TAIL: Pump Time _____ hrs. Type _____
Excess _____
Amt. _____ Sks Yield _____ ft³/sk Density _____ PPG
WATER: Lead 6.5 gals/sk Tail _____ gals/sk Total _____ Bbls.

Pump Trucks Used 431
Bulk Equip. 894

Float Equip: Manufacturer _____
Shoe: Type _____ Depth _____
Float: Type _____ Depth _____
Centralizers: Quantity _____ Plugs Top _____ Btm. _____
Stage Collars _____
Special Equip. _____
Disp. Fluid Type H2O Amt. 18.15 Bbls. Weight 8.34 PPG
Mud Type _____ Weight _____ PPG

COMPANY REPRESENTATIVE _____ CEMENTER _____

TIME AM/PM	PRESSURES PSI DRILL PIPE CASING	ANNULUS	FLUID PUMPED DATA TOTAL FLUID	Pumped Per Time Period	RATE Bbls Min.	REMARKS
2:00						On location Safety mtg Set up
						Run Csg, Circulate
	200			37.0	3½	Mix Cement
	0			18.15	4½	Displace Cement
						Shut in
4:00						Job Complete

FINAL DISP. PRESS: _____ PSI BUMP PLUG TO _____ PSI BLEEDBACK _____ BBLS. THANK YOU

MILLER PRINTERS, INC. - Great Bend, KS

DRILL STEM TEST REPORT

Berexco LLC

2020 N Bramblew ood
Wichita KS 67202

ATTN: Bryan Bynog

19 1S 37W Rawlins KS

Owens 3-19

Job Ticket: 65073 **DST#: 1**

Test Start: 2015.07.14 @ 13:50:00

GENERAL INFORMATION:

Formation: **Oread**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 16:18:00
Time Test Ended: 22:04:00

Test Type: Conventional Bottom Hole (Initial)
Tester: Robert Zodrow
Unit No: 66

Interval: 4025.00 ft (KB) To 4085.00 ft (KB) (TVD)
Total Depth: 4085.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

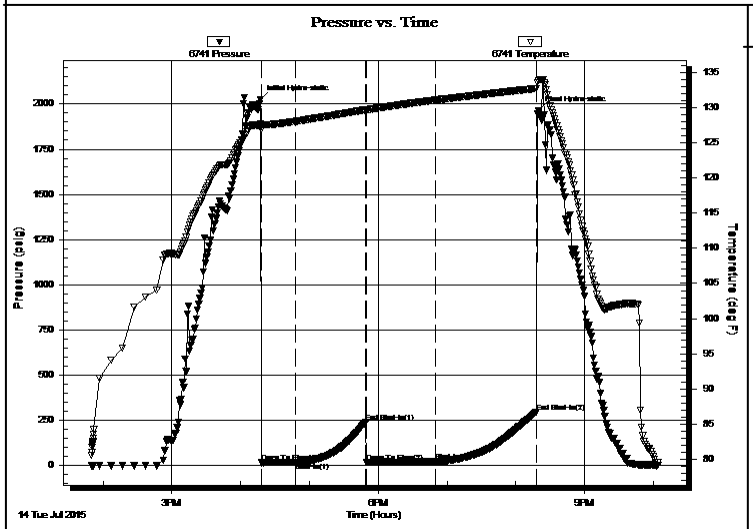
Reference Elevations: 3196.00 ft (KB)
3185.00 ft (CF)
KB to GR/CF: 11.00 ft

Serial #: 6741 **Inside**

Press@RunDepth: 19.51 psig @ 4026.00 ft (KB)
Start Date: 2015.07.14 End Date: 2015.07.14
Start Time: 13:50:05 End Time: 22:03:59

Capacity: 8000.00 psig
Last Calib.: 2015.07.14
Time On Btm: 2015.07.14 @ 16:17:30
Time Off Btm: 2015.07.14 @ 20:19:30

TEST COMMENT: 30-IF- Surface blow died in 6 mins
60-ISI- No return
60-FF- No blow
90-FSI- No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2023.30	127.64	Initial Hydro-static
1	13.91	126.87	Open To Flow (1)
31	14.94	128.06	Shut-In(1)
92	237.57	129.71	End Shut-In(1)
92	15.40	129.64	Open To Flow (2)
152	19.51	131.07	Shut-In(2)
240	293.57	132.74	End Shut-In(2)
242	1961.33	133.90	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
2.00	MUD 100%M	0.01

Gas Rates

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

DRILL STEM TEST REPORT

Berexco LLC

2020 N Bramblew ood
Wichita KS 67202

ATTN: Bryan Bynog

19 1S 37W Rawlins KS

Owens 3-19

Job Ticket: 65073 **DST#: 1**

Test Start: 2015.07.14 @ 13:50:00

GENERAL INFORMATION:

Formation: **Oread**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 16:18:00
Time Test Ended: 22:04:00

Test Type: Conventional Bottom Hole (Initial)
Tester: Robert Zodrow
Unit No: 66

Interval: 4025.00 ft (KB) To 4085.00 ft (KB) (TVD)
Total Depth: 4085.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

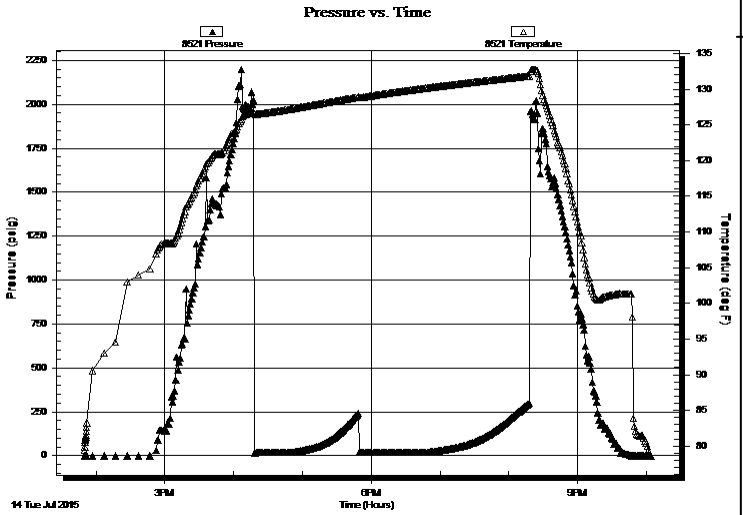
Reference Elevations: 3196.00 ft (KB)
3185.00 ft (CF)
KB to GR/CF: 11.00 ft

Serial #: 8521 **Outside**

Press@RunDepth: psig @ 4026.00 ft (KB)
Start Date: 2015.07.14 End Date: 2015.07.14
Start Time: 13:50:05 End Time: 22:03:59

Capacity: 8000.00 psig
Last Calib.: 2015.07.14
Time On Btm:
Time Off Btm:

TEST COMMENT: 30-IF- Surface blow died in 6 mins
60-ISI- No return
60-FF- No blow
90-FSI- No return



PRESSURE SUMMARY

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

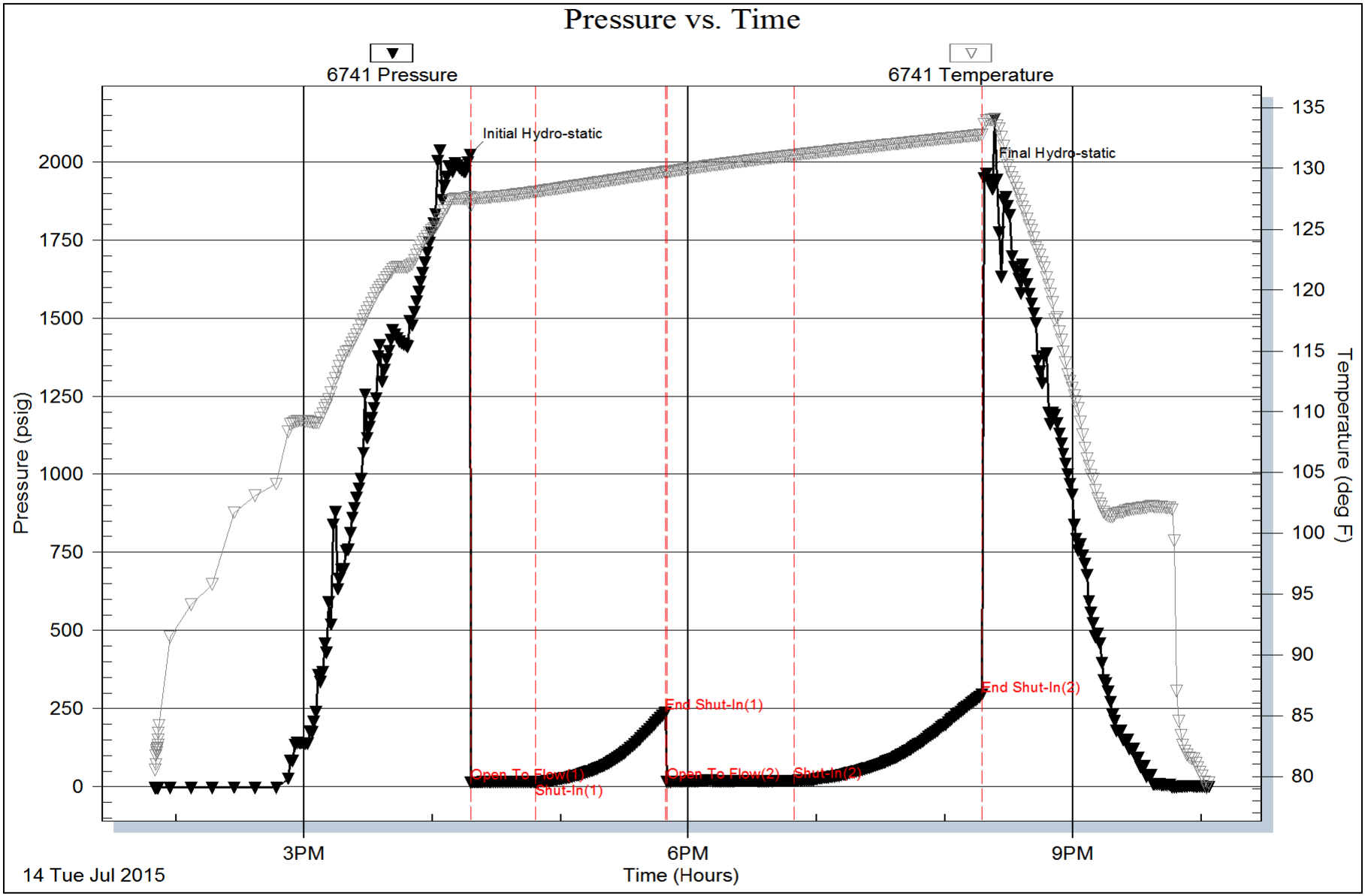
Recovery

Length (ft)	Description	Volume (bbl)
2.00	MUD 100%M	0.01

Gas Rates

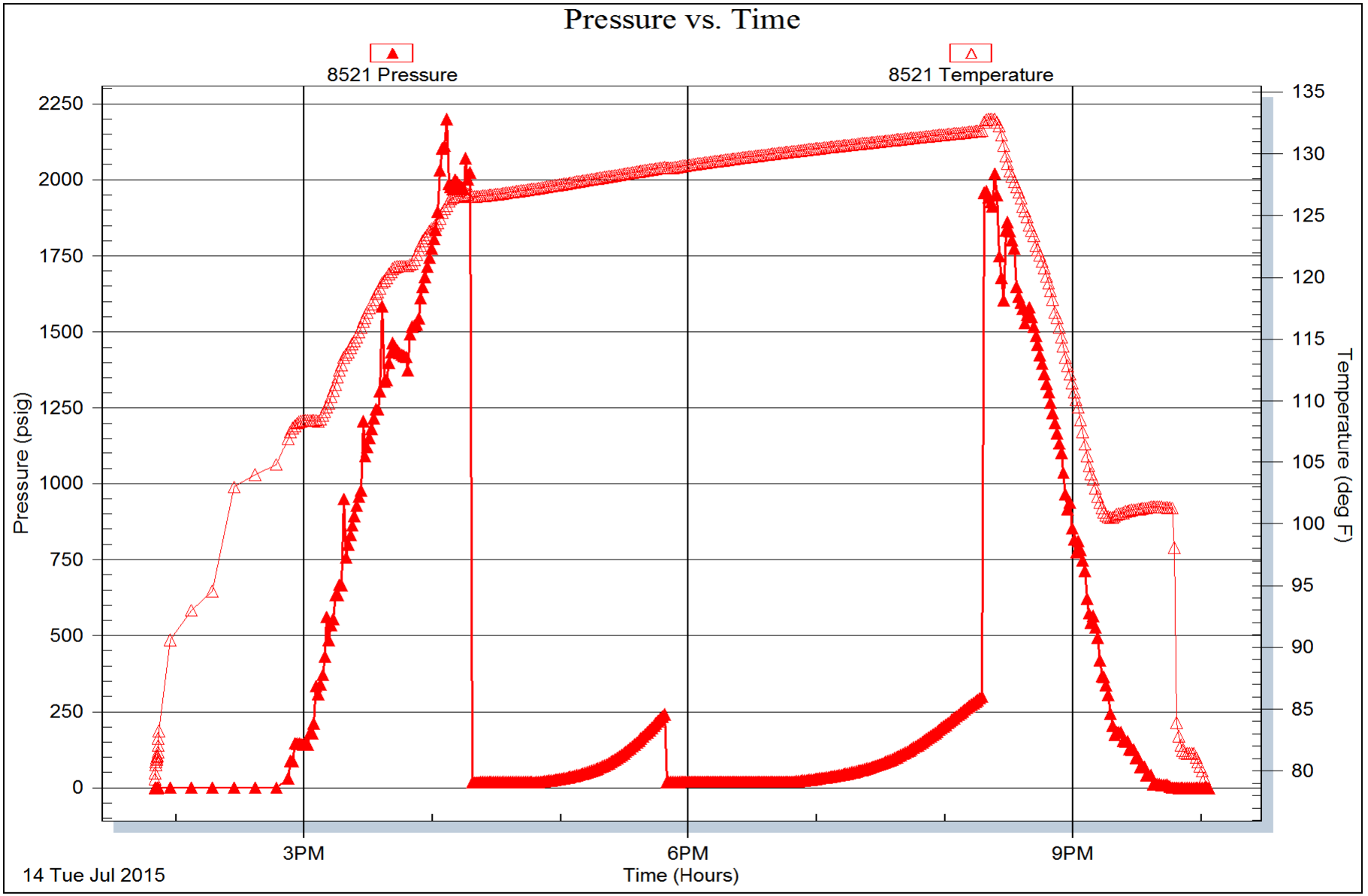
	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)

Serial #: 6741 **Inside** Berexco LLC Owens 3-19 DST Test Number: 1



Trilobite Testing, Inc Ref. No: 65073 Printed: 2015.07.15 @ 05:29:47

Serial #: 8521 **Outside** Berexco LLC Owens 3-19 DST Test Number: 1



Trilobite Testing, Inc Ref. No: 65073 Printed: 2015.07.15 @ 05:29:47

DRILL STEM TEST REPORT

Berexco LLC

2020 N Bramblew ood
Wichita KS 67202

ATTN: Bryan Bynog

19 1S 37W Cheyenne KS

Owens 3-19

Job Ticket: 65074 **DST#: 2**

Test Start: 2015.07.15 @ 18:40:00

GENERAL INFORMATION:

Formation: **LKC "B"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 20:53:00
Time Test Ended: 04:13:00

Test Type: Conventional Bottom Hole (Reset)
Tester: Robert Zodrow
Unit No: 66

Interval: 4160.00 ft (KB) To 4250.00 ft (KB) (TVD)
Total Depth: 4250.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

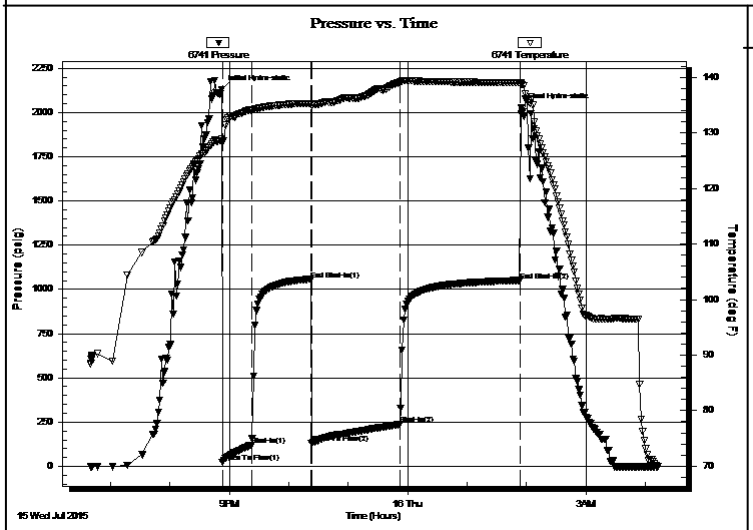
Reference Elevations: 3196.00 ft (KB)
3185.00 ft (CF)
KB to GR/CF: 11.00 ft

Serial #: 6741 **Inside**

Press@RunDepth: 237.31 psig @ 4161.00 ft (KB)
Start Date: 2015.07.15 End Date: 2015.07.16
Start Time: 18:40:05 End Time: 04:13:00

Capacity: 8000.00 psig
Last Calib.: 2015.07.16
Time On Btm: 2015.07.15 @ 20:52:30
Time Off Btm: 2015.07.16 @ 01:55:00

TEST COMMENT: 30-IF- Bob in 24 mins
60-ISI- Surface blow on return died in 54 mins
90-FF- Bob in 33 mins
120-FSI- Return built to 8 1/4"



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2130.43	128.98	Initial Hydro-static
1	23.30	128.41	Open To Flow (1)
30	120.23	134.08	Shut-In(1)
90	1051.98	135.35	End Shut-In(1)
91	131.72	135.01	Open To Flow (2)
180	237.31	139.13	Shut-In(2)
301	1050.86	139.06	End Shut-In(2)
303	2025.77	138.83	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
230.00	GMCO 10%G 40%M 50%O	1.13
360.00	GO 20%G 80%O	3.59
0.00	GIP 380'	0.00

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

FLUID SUMMARY

Berexco LLC

2020 N Bramblew ood
Wichita KS 67202

ATTN: Bryan Bynog

19 1S 37W Cheyenne KS

Owens 3-19

Job Ticket: 65074 **DST#: 2**

Test Start: 2015.07.15 @ 18:40:00

Mud and Cushion Information

Mud Type:	Gel Chem	Cushion Type:		Oil API:	28 deg API
Mud Weight:	9.00 lb/gal	Cushion Length:	ft	Water Salinity:	ppm
Viscosity:	58.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	6.40 in³	Gas Cushion Type:			
Resistivity:	0.00 ohm.m	Gas Cushion Pressure:	psig		
Salinity:	800.00 ppm				
Filter Cake:	2.00 inches				

Recovery Information

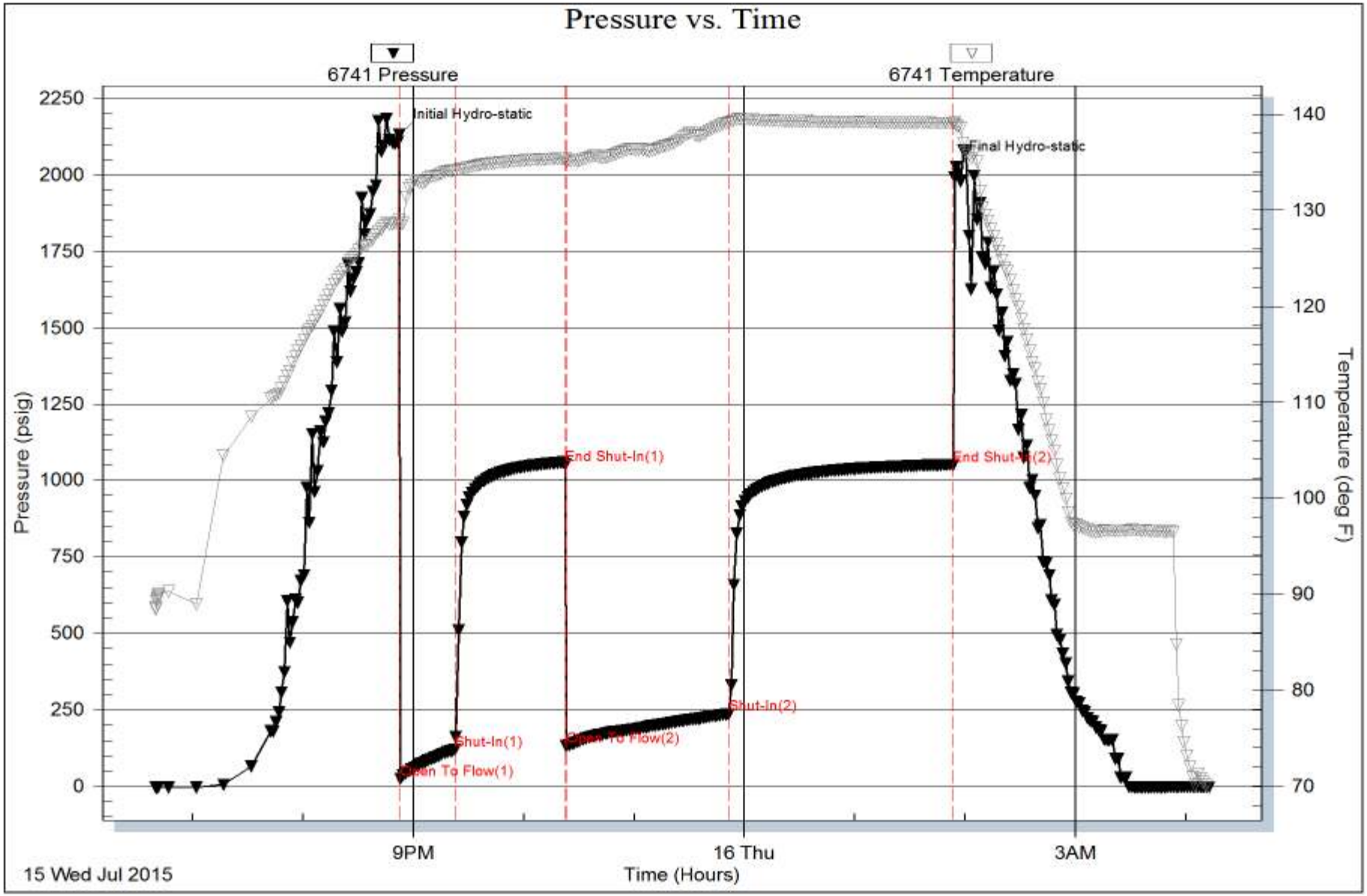
Recovery Table

Length ft	Description	Volume bbl
230.00	GMCO 10%G 40%M 50%O	1.131
360.00	GO 20%G 80%O	3.586
0.00	GIP 380'	0.000

Total Length: 590.00 ft Total Volume: 4.717 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

Serial #: 6741 **Inside** Berexco LLC Owens 3-19 DST Test Number: 2



Trilobite Testing, Inc Ref. No: 65074 Printed: 2015.07.16 @ 07:51:08

DRILL STEM TEST REPORT

Berexco LLC

2020 N Bramblew ood
Wichita KS 67202

ATTN: Bryan Bynog

19 1S 37W Cheyenne KS

Owens 3-19

Job Ticket: 65075 **DST#: 3**

Test Start: 2015.07.16 @ 16:40:00

GENERAL INFORMATION:

Formation: **LKC "C&D"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 19:12:00
Time Test Ended: 00:57:00

Test Type: Conventional Bottom Hole (Reset)
Tester: Robert Zodrow
Unit No: 66

Interval: 4236.00 ft (KB) To 4320.00 ft (KB) (TVD)
Total Depth: 4320.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

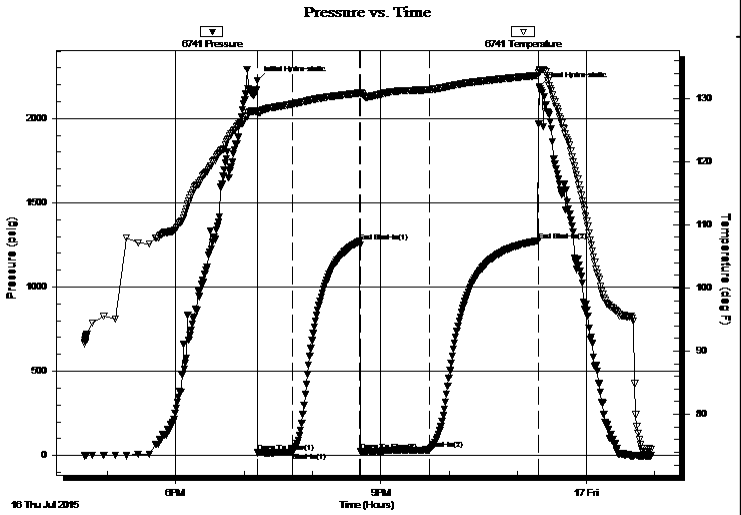
Reference Elevations: 3196.00 ft (KB)
3185.00 ft (CF)
KB to GR/CF: 11.00 ft

Serial #: 6741 **Inside**

Press@RunDepth: 34.00 psig @ 4237.00 ft (KB)
Start Date: 2015.07.16 End Date: 2015.07.17
Start Time: 16:40:05 End Time: 00:56:59

Capacity: 8000.00 psig
Last Calib.: 2015.07.17
Time On Btm: 2015.07.16 @ 19:11:30
Time Off Btm: 2015.07.16 @ 23:19:00

TEST COMMENT: 30-IF- Blow built to 1"
60-ISI- No return
60-FF- No blow
90-FSI- No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2226.32	128.03	Initial Hydro-static
1	16.77	127.70	Open To Flow (1)
31	20.28	129.07	Shut-In(1)
90	1270.56	130.86	End Shut-In(1)
91	24.33	130.82	Open To Flow (2)
151	34.00	131.39	Shut-In(2)
247	1275.80	133.63	End Shut-In(2)
248	2188.95	134.39	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
4.00	OCM 25%O 75%M	0.02
1.00	GO 5%G 95%O	0.00

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

FLUID SUMMARY

Berexco LLC

2020 N Bramblew ood
Wichita KS 67202

ATTN: Bryan Bynog

19 1S 37W Cheyenne KS

Owens 3-19

Job Ticket: 65075 **DST#: 3**

Test Start: 2015.07.16 @ 16:40:00

Mud and Cushion Information

Mud Type:	Gel Chem	Cushion Type:		Oil API:	27 deg API
Mud Weight:	9.00 lb/gal	Cushion Length:	ft	Water Salinity:	ppm
Viscosity:	73.00 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

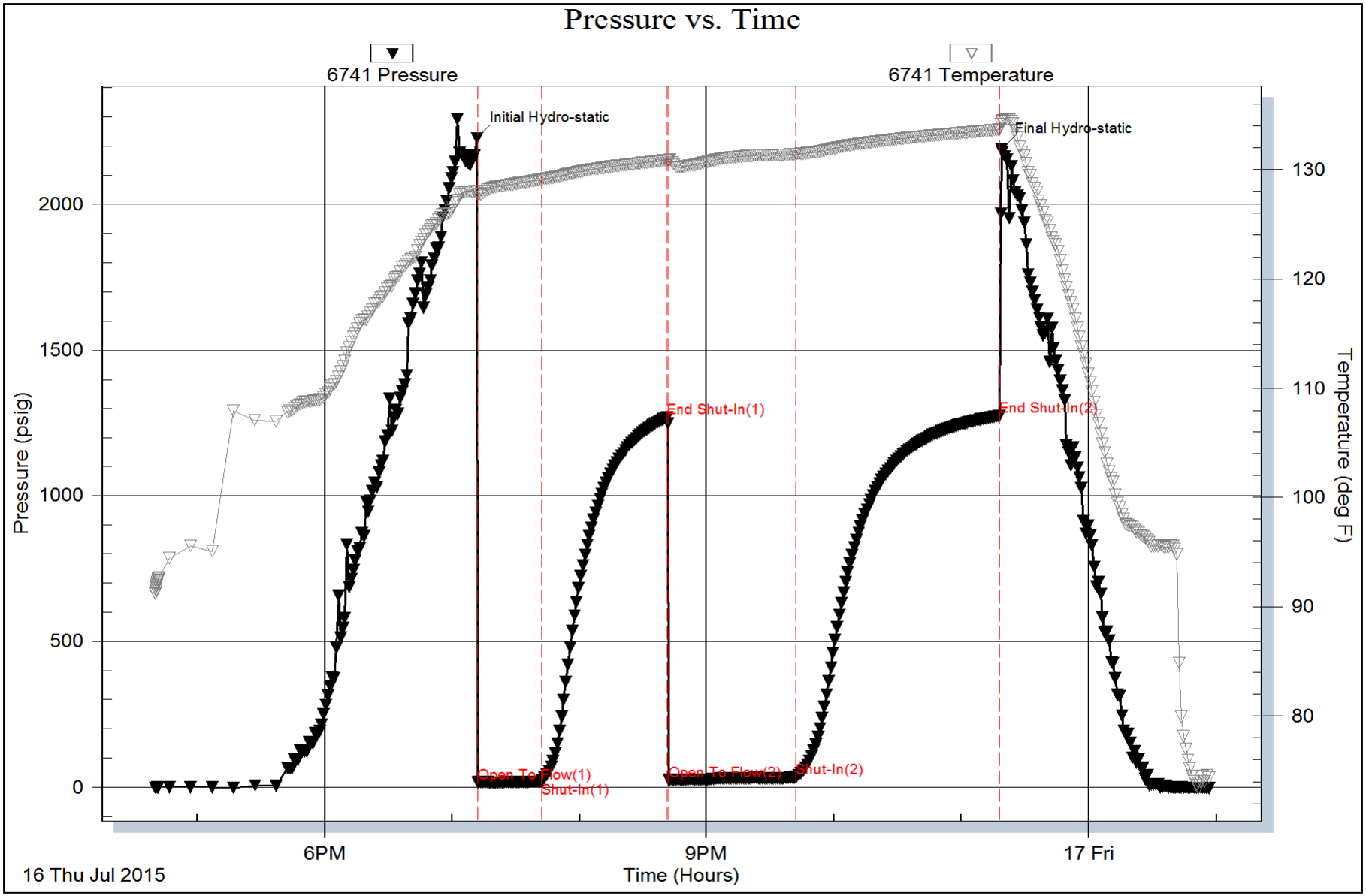
Recovery Table

Length ft	Description	Volume bbl
4.00	OCM 25%O 75%M	0.020
1.00	GO 5%G 95%O	0.005

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:

Serial #: 6741 **Inside** Berexco LLC Owens 3-19 DST Test Number: 3



Trilobite Testing, Inc Ref. No: 65075 Printed: 2015.07.17 @ 06:35:07

DRILL STEM TEST REPORT

Berexco LLC

2020 N Bramblew ood
Wichita KS 67202

ATTN: Bryan Bynog

19 1S 37W Cheyenne KS

Owens 3-19

Job Ticket: 62801 **DST#: 4**

Test Start: 2015.07.17 @ 11:55:00

GENERAL INFORMATION:

Formation: **LKC "E"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 14:32:00
Time Test Ended: 20:24:00

Test Type: Conventional Bottom Hole (Reset)
Tester: Robert Zodrow
Unit No: 66

Interval: 4312.00 ft (KB) To 4375.00 ft (KB) (TVD)
Total Depth: 4375.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

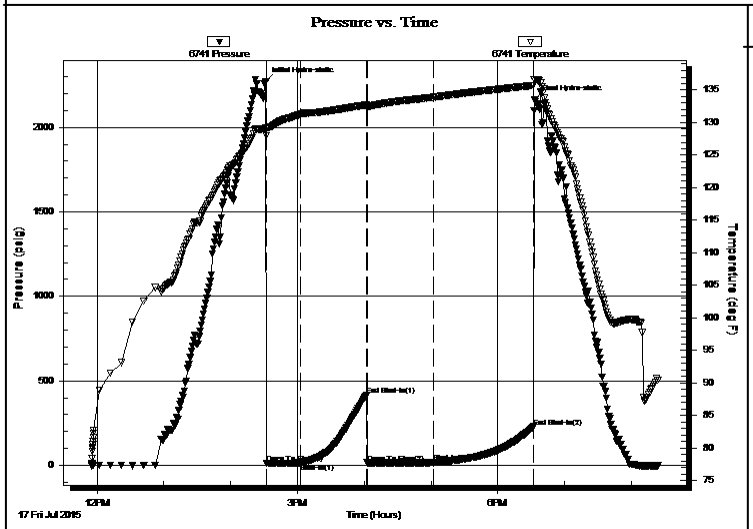
Reference Elevations: 3196.00 ft (KB)
3185.00 ft (CF)
KB to GR/CF: 11.00 ft

Serial #: 6741 **Inside**

Press@RunDepth: 15.51 psig @ 4313.00 ft (KB)
Start Date: 2015.07.17 End Date: 2015.07.17
Start Time: 11:55:05 End Time: 20:23:59

Capacity: 8000.00 psig
Last Calib.: 2015.07.17
Time On Btm: 2015.07.17 @ 14:31:30
Time Off Btm: 2015.07.17 @ 18:33:00

TEST COMMENT: 30-IF- Surface blow died in 11 mins
60-ISI- No return
60-FF- No blow
90- FSI- No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2270.73	129.16	Initial Hydro-static
1	11.06	128.01	Open To Flow (1)
31	13.85	131.32	Shut-In(1)
91	414.99	132.73	End Shut-In(1)
91	14.06	132.56	Open To Flow (2)
151	15.51	133.90	Shut-In(2)
241	228.36	135.71	End Shut-In(2)
242	2163.42	136.64	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
2.00	Mud 100%M	0.01

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

FLUID SUMMARY

Berexco LLC

2020 N Bramblew ood
Wichita KS 67202

ATTN: Bryan Bynog

19 1S 37W Cheyenne KS

Owens 3-19

Job Ticket: 62801 **DST#: 4**

Test Start: 2015.07.17 @ 11:55:00

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:	64.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	7.20 in³	Gas Cushion Type:			
Resistivity:	0.00 ohm.m	Gas Cushion Pressure:	psig		
Salinity:	1000.00 ppm				
Filter Cake:	2.00 inches				

Recovery Information

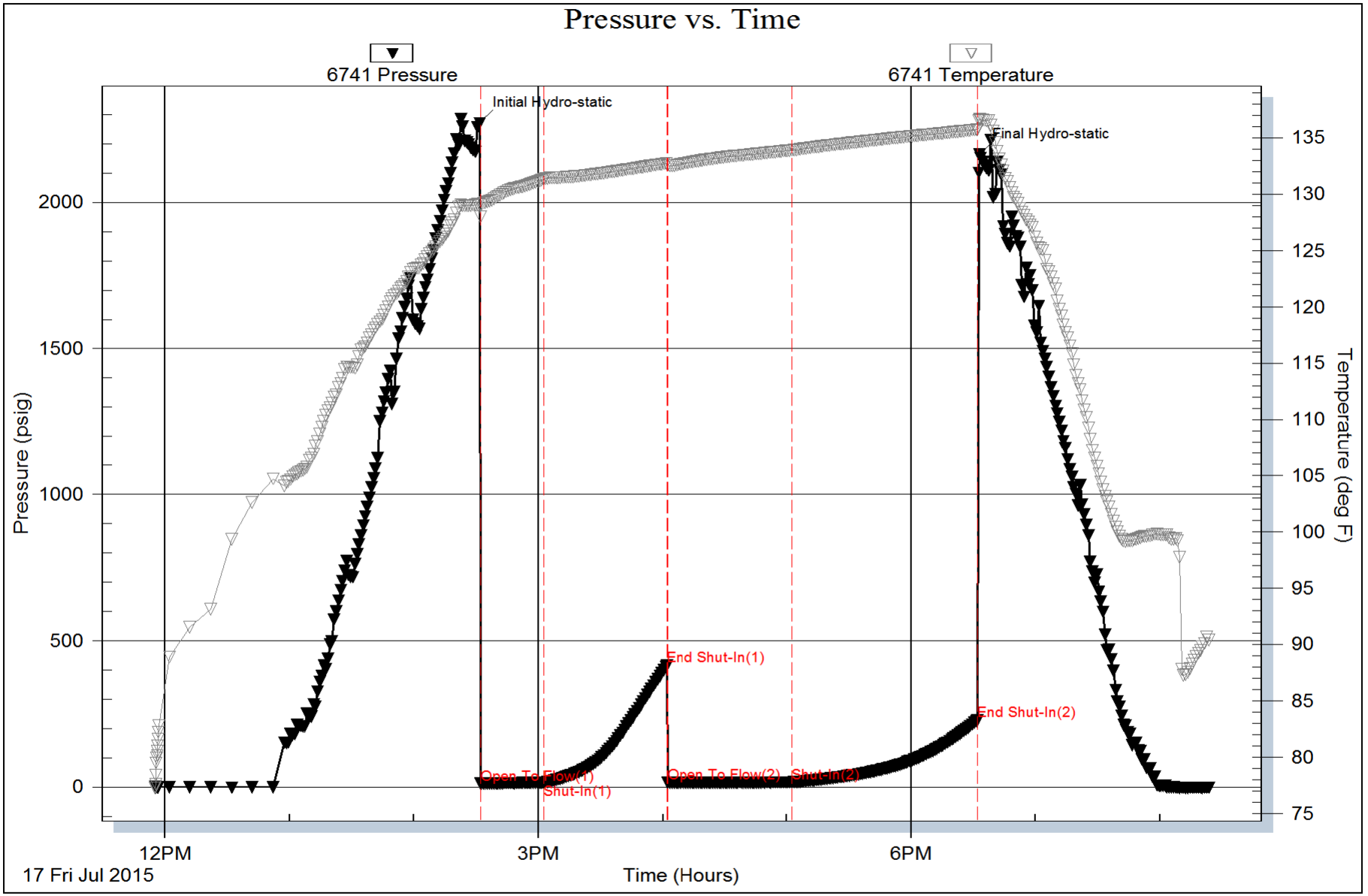
Recovery Table

Length ft	Description	Volume bbl
2.00	Mud 100%M	0.010

Total Length: 2.00 ft Total Volume: 0.010 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

Serial #: 6741 **Inside** Berexco LLC Owens 3-19 DST Test Number: 4



Trilobite Testing, Inc Ref. No: 62801 Printed: 2015.07.17 @ 23:25:48

DRILL STEM TEST REPORT

Berexco LLC

2020 N Bramblew ood
Wichita KS 67202

ATTN: Bryan Bynog

19 1S 37W Cheyenne KS

Owens 3-19

Job Ticket: 62802 **DST#: 5**

Test Start: 2015.07.18 @ 17:05:00

GENERAL INFORMATION:

Formation: **Pawnee**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 19:45:00
Time Test Ended: 01:39:30

Test Type: Conventional Bottom Hole (Reset)
Tester: Robert Zodrow
Unit No: 66

Interval: 4524.00 ft (KB) To 4560.00 ft (KB) (TVD)
Total Depth: 4560.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

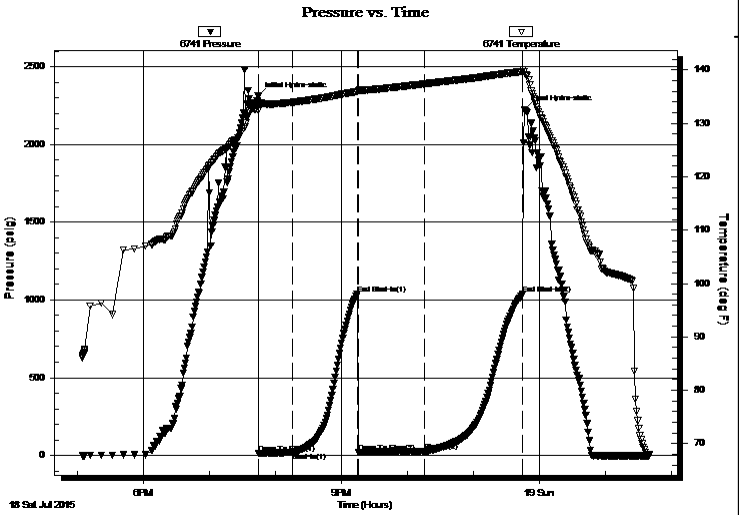
Reference Elevations: 3196.00 ft (KB)
3185.00 ft (CF)
KB to GR/CF: 11.00 ft

Serial #: 6741 **Inside**

Press@RunDepth: 25.57 psig @ 4525.00 ft (KB)
Start Date: 2015.07.18 End Date: 2015.07.19
Start Time: 17:05:05 End Time: 01:39:30

Capacity: 8000.00 psig
Last Calib.: 2015.07.19
Time On Btm: 2015.07.18 @ 19:44:30
Time Off Btm: 2015.07.18 @ 23:46:30

TEST COMMENT: 30-IF- Blow built to 1/4" died in 28 mins
60-ISI- No return
60-FF- No blow
90-FSI- No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2311.82	133.25	Initial Hydro-static
1	13.59	132.45	Open To Flow (1)
31	18.88	133.95	Shut-In(1)
90	1037.73	135.96	End Shut-In(1)
91	19.10	136.21	Open To Flow (2)
151	25.57	137.40	Shut-In(2)
241	1037.82	139.73	End Shut-In(2)
242	2226.17	139.72	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	OCM 30%O 70%M	0.02

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

FLUID SUMMARY

Berexco LLC

2020 N Bramblew ood
Wichita KS 67202

ATTN: Bryan Bynog

19 1S 37W Cheyenne KS

Owens 3-19

Job Ticket: 62802 **DST#: 5**

Test Start: 2015.07.18 @ 17:05:00

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:	60.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	6.80 in³	Gas Cushion Type:			
Resistivity:	0.00 ohm.m	Gas Cushion Pressure:	psig		
Salinity:	1000.00 ppm				
Filter Cake:	2.00 inches				

Recovery Information

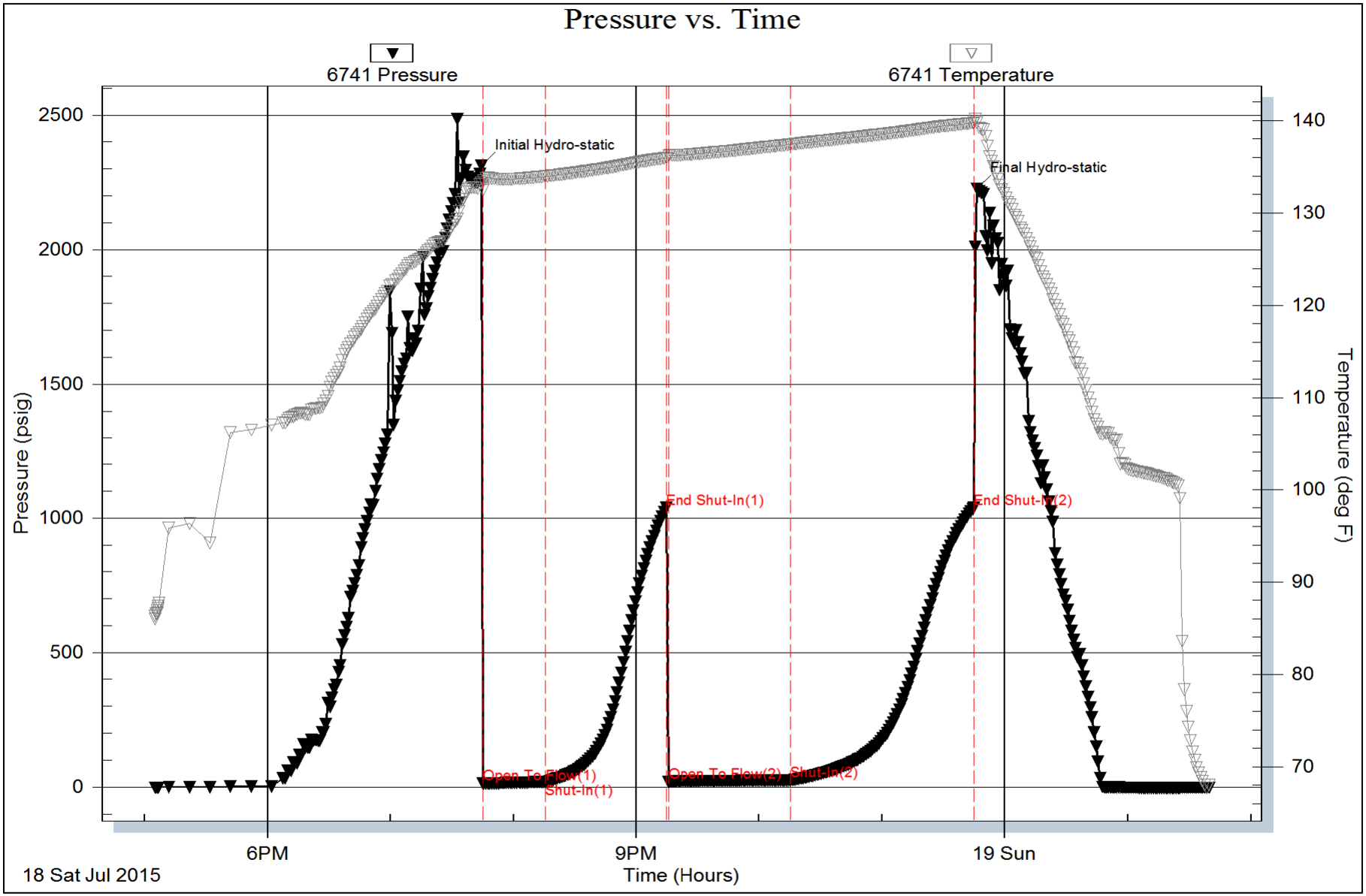
Recovery Table

Length ft	Description	Volume bbl
5.00	OCM 30%O 70%M	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:

Serial #: 6741 **Inside** Berexco LLC Owens 3-19 DST Test Number: 5



Trilobite Testing, Inc Ref. No: 62802 Printed: 2015.07.19 @ 06:11:06

ALLIED OIL & GAS SERVICES, LLC

WELL F

Federal Tax I.D. #20-5975804

067638

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

SERVICE POINT: Oakley

DATE 7-20-15	SEC 19	TWP. 1	RANGE 37	CALLED OUT	ON LOCATION	JOB START 10:30a.m.	JOB FINISH 11:30a.m.
LEASE Owens	WELL # 3-19		LOCATION Benkelman 5 TO 202 2E			COUNTY Cheyenne	STATE KS
OLD OR NEW (Circle one)			3S to N-W-S E into				

CONTRACTOR Beredco 10
TYPE OF JOB Production
HOLE SIZE 7 7/8 T.D. 4725'
CASING SIZE 5 1/2 DEPTH 4730'
TUBING SIZE DEPTH
DRILL PIPE DEPTH
TOOL DEPTH
PRES. MAX MINIMUM
MEAS. LINE SHOE JOINT 42
CEMENT LEFT IN CSG. 42'
PERFS.
DISPLACEMENT 111.57 BBL

OWNER same

EQUIPMENT

PUMP TRUCK #431 CEMENTER Andrew Forslund
HELPER Paul Beaver
BULK TRUCK #890 DRIVER Wayne McKnight
BULK TRUCK #373 DRIVER Cory Brown

CEMENT

AMOUNT ORDERED 300 sks com 10% salt 5# Gilsonite 2% gel
500 sks Lite 3/4 Flo-seal

COMMON 300 sks	@	12.90	5320.00
POZMIX	@		
GEL 56.4#	@	.50	282.00
CHLORIDE	@		
ASC	@		
	@		
Lite 500 sks	@	19.89	9945.00
	@		
Flo-seal 375#	@	2.97	1113.75
Gilsonite 1500#	@	.98	1470.00
Salt 1400#	@	.68	952.00
	@		
	@		
TOTAL			19,139.75
DISCOUNT 48 %			9183.72

REMARKS:

Plug mousehole 10 sks Rat hole 15 sks, mix 500 sks Lite Followed by 300 sks com down 5 1/2 casing. Wash Pump and Line clean. Displace Plug. 1100# Lift 2200# land plug. Cement Did circulate.

Thank you

SERVICE

HANDLING 941.44 cu/ft	@	2.48	2334.77
MILEAGE 2.25 Ton/mile 39.23 Ton			5394.12
DEPTH OF JOB 4700'			
PUMP TRUCK CHARGE			2745.25
EXTRA FOOTAGE	@		
HV MILEAGE 50 miles	@	2.70	385.00
LV MILEAGE	@		
	@		
	@		
TOTAL			10,879.14
DISCOUNT 48 %			5221.98

CHARGE TO: Beredco
STREET
CITY STATE ZIP

PLUG & FLOAT EQUIPMENT

5 1/2

1 Alu Float Shoe	@		000.00
1 latchdown plug ASSY	@		410.00
13 Centralizers	@	57.00	741.00
26 scratchers	@	89.00	2314.00
	@		
TOTAL			4,351.00
DISCOUNT 48 %			2088.48

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 AWAIS GUL

SIGNATURE

SALES TAX (If Any)
TOTAL CHARGES 34,362.89
DISCOUNT 16,494.18 (48%) IF PAID IN 30 DAYS
NET TOTAL 17,868.70 IF PAID IN 30 DAYS

ALLIED
OIL & GAS SERVICES, LLC

CEMENTING LOG

STAGE NO.

Date 2-20-15 District Oakley Ticket No. 062638
Company Berexco Rig Beredco 10
Lease Owens Well No. 3-19
County Cheyenne State KS
Location 19 1 37 Field
Benkelman s 36 rd 2 8 5 ... w

CASING DATA: Conductor ☐ PTA ☐ Squeeze ☐ Misc ☐
Surface ☐ Intermediate ☐ Production ☒ Liner ☐
Size 5½ Type [illegible] Weight 15.5 Collar

Casing Depths: Top KB Bottom 4230'

Drill Pipe: Size Weight Collars
Open Hole: Size 7 7/8 T.D. 4235 ft. P.B. to ft.

CAPACITY FACTORS:
Casing: Bbls/Lin. ft. .0238 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.

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

LEAD: Pump Time hrs. Type Lite 3% Flo-seal
Excess
Amt. 500 Sks Yield 1.9 ft³/sk Density 12.3 PPG
TAIL: Pump Time hrs. Type Com 10% salt
5# Gilsonite 1/4 gel Excess
Amt. 300 Sks Yield 1.49 ft³/sk Density 14.56 PPG
WATER: Lead gals/sk Tail gals/sk Total Bbls.

Pump Trucks Used 431
Bulk Equip. 890
323

Float Equip: Manufacturer Weather Ford
Shoe: Type AFU Depth 4230'
Float: Type Latch down Depth
Centralizers: Quantity 13 Plugs Top Btm.
Stage Collars
Special Equip. Scratchers
Disp. Fluid Type Water Amt. 111.5 Bbls. Weight PPG
Mud Type Weight PPG

COMPANY REPRESENTATIVE
CEMENTER Andrew

TIME AM/PM	PRESSURES PSI DRILL PIPE CASING	ANNULUS	FLUID PUMPED DATA TOTAL FLUID	Pumped Per Time Period	RATE Bbls Min.	REMARKS
10:30						
						Plug mouse hole
						Plug Rat hole
						start mixing cement down 5½
						Cement mixed
						wash pump and line clean
						Release plug start Displace
	400			10		
				10		
				10		
				10		
				10		
				10		
	1200			10		
				10		
				10		
				10		
	1600			10		
	1600			2		
	2200					Plug landed
						Float held
11:30						Cement Did circulate

FINAL DISP. PRESS: 1600 PSI BUMP PLUG TO 2200 PSI BLEEDBACK 1 BBLS. THANK YOU

MILLER PRINTERS, INC. - Great Bend, KS

BEREXCO, LLC.
OWENS #3-19
SENW SECTION 19 1S-37W
CHEYENNE COUNTY, KANSAS

GEOLOGIST
WILLIAM B. BYNOG

RESUME

OPERATOR:	BEREXCO, LLC.
WELL NAME & NUMBER:	OWENS #3-19
LOCATION:	SENW SECTION 19 1S-37W
COUNTY:	CHEYENNE
STATE:	KANSAS
SPUD DATE: 7-10-2015	COMPLETION DATE: 7-20-2015
ELEVATIONS:	GL: 3174 KB: 3185
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 4025-4085, DST#2 4160-4250, DST#34236-4320, DST#4 4312-4375, DST#5 4524-4560
WELL STATUS:	SET PRODUCTION CASING

DISCUSSION

Owens #3-19 1S-37W was drilled a total depth of 4725 feet testing the Lansing Kansas City and Pawnee formations in Cheyenne County, Kansas. This well was drilled with the help of seismic data and well control, just southwest of East Fork field.

Structurally, Owens #3-19 came in flat to the prognosis and other productive wells in the area.

The Oread zone was the first live oil shows encountered in a fossiliferous Limestone and was tested on drill stem test #1 recovering only 2 feet of drilling mud with low depleted pressures. The B zone turns out to be the best zone, associated with a good drilling break, fair to good porosity development and good live sample shows in a fossiliferous Grainstone. This zone was tested on drill stem test #2 recovering 380 feet of gas in pipe and 590 feet of total fluid, 360 feet of gassy oil and 230 feet of gassy mud cut oil (50% oil). Drilling continued to the D zone encountering good live oil shows. The C and D zones were tested together on drill stem test #3 recovering only 1 foot of free oil and 4 feet of oil cut mud (25% oil). The E zone had a good oil show and was tested on drill stem test #4 recovering only 2 feet of mud. The Pawnee also had good oil shows and was tested on drill stem test #5, recovering 5 feet of oil cut mud (30% oil).

Logs agreed with sample evaluation recording poor to fair porosity development. The Lansing B zone is the best producer with a good drill stem test recovery. Other zones will contribute to production but may have to be treated.

A decision was made to run 5 ½ production casing based on the favorable oil and gas recoveries on drill stem tests and favorable log calculations.

Owens #3-19 Sample Descriptions

3700-20 SHALE red,soft,argillaceous

FORAKER

3720-36 LIMESTONE buff,hard,blocky,dense,poor porosity,no shows abundant Chert orange

3736-50 SHALE gray,gray green,firm,silty,fossils,calcareous with thin LIMESTONE as above

3750-66 SANDSTONE buff,firm,very fine grained,rounded,wsrtd,calcareous cement,poor porosity,no shows

3766-74 SHALE as above silty,fossils with thin LIMESTONE as above

3774-3820 SHALE orange,soft,silty

3820-3849 SHALE as above with thin LIMESTONE buff,pale gray,very hard,dense, some fossils in part,poor porosity,no shows

3849-80 LIMESTONE buff,pale yell,very hard,dense,crptoxln to very fnly microcrystalline,fossils, in part,poor porosity,no shows with thin SHALE as above

3880-3910 LIMESTONE buff,firm,chalky in part,some sandy in part,poor vis porosity,no shows

3910-3947 SHALE red,soft,silty with thin LIMESTONE as above

TOPEKA

3947-64 LIMESTONE white,hard,microcrystalline,fossils,poor porosity,no shows with thin SHALE as above

3964-86 LIMESTONE white,buff,very hard,very dense,crptoxln,blocky,poor porosity,no shows with thin SHALE as above

3986-3992 LIMESTONE white,firm,slightly chalky,fossils,sandy in part,poor to fair intergranular porosity,no shows

3992-4010 LIMESTONE white,pale gray brown,very hard,very dense,blocky, crptoxln,no shows

4010-20 SHALE as above

4020-30 LIMESTONE pale gray,very hard,dense,blocky,crtoxln,no shows

4030-54 SHALE red,firm,very silty

4054-73 LIMESTONE buff,hard,blocky,dense,poor porosity with one piece with very faint stain,poor cut, interbedded SHALE as above

OREAD

4073-82 GRAINSTONE white,firm,chalky in part,oolic,fair intergranular and vuggy porosity,spotty live thick stain,very good cut,poor show free oil

4082-4126 LIMESTONE pale gray,very hard,very dense,blocky,crptoxln,no shows

4126-40 SHALE gray black,firm,fissile,slightly carbonaceous

4140-49 SHALE red,soft,very argillaceous

LANSING A

4149-70 LIMESTONE gray brown,very hard,very dense,crptoxln,no shows

4170-74 SANDSTONE white,firm,very fine grained,chalky,poor porosity,very spotty black dead stain,no free oil

4174-4210 SHALE red,soft,very argillaceous

B

4210-16 GRAINSTONE white,firm,slightly chalky,fossils,fair intergranular and vuggy porosity,spotty live brown stain,very good cut,good show free oil

4216-20 LIMESTONE buff,very hard,dense,crptoxln,no shows

4220-30 SANDSTONE white,friable,very fine grained,wsrtd,chalky,fair intergranular porosity,spotty to even live black stain,very good cut,fair show free abundant pyrite,with SHALE as above

4230-40 LIMESTONE gray brown,very hard,dense,crptoxln,no shows

4240-62 SHALE red,soft,silty

C

4262-68 LIMESTONE, white,slightly hard,slightly fossils,chalky,poor pinpoint vuggy porosity,spotty dead black tar stain,fair cut,no free oil

4268-76 LIMESTONE pale gray,very hard,dense,crptoxln to very fnly microcrystalline,poor porosity,no shows

4276-4300 SHALE red,green,firm,silty

D

4300-06 LIMESTONE pale gray,very hard,very dense,crptoxln,no shows

4306-14 LIMESTONE buff,off white,slightly hard,chalky in part,slightly fossils,poor to fair pinpoint vuggy porosity,spotty live brown stain,fair cut,no free oil

4314- 54 SHALE red,green,gray,firm,fissile

E

4354-60 GRAINSTONE white,firm,oolic,chalky in part,poor to fair intergranular porosity,spotty to even live brown stain,good cut,fair show free oil

4360-68 LIMESTONE white,slightly hard,fossils,becoming very chalky,poor to fair vis porosity,very spotty live brown stain,fair cut,no free oil

4366-70 LIMESTONE buff,very hard,dense,blocky,crptoxln,no shows

4370-94 SHALE red,green,firm,fissile,silty in part

F

4394-4420 LIMESTONE buff,pale gray,very hard,very dense,crptoxln,no shows with thin SHALE as above

4420-42 SHALE and LIMESTONE as above becoming slightly fossils,dense,no shows

4442-54 LIMESTONE buff,very hard,dense,slightly fossils,poor porosity,no shows

4454-60 SHALE red,gray,firm,britt,fissile

4460-66 LIMESTONE white,pale gray,firm to hard,chalky to dense porosity,no shows

4466-4510 SHALE as above becoming very silty

4510-28 LIMESTONE pale gray,very hard,slightly fossils,dense matrix,no shows

4528-48 SHALE gray,green,red,firm,silty some black slightly carbonaceous

PAWNEE

4548-56 GRAINSTONE white,slightly hard,very oolitic,poor to fair intergranular and moldic porosity,spotty to even light live brown stain,very good cut,good show free oil

4556-70 LIMESTONE buff, pale gray,very hard,dense,crptoxln,no shows

4570-84 SHALE red,green,some black,firm,fissile

4584-4600 LIMESTONE pale gray,buff,very hard,dense,crptoxln,no shows

4600-12 SHALE as above

4612-28 LIMESTONE pale gray,gray brown,very hard,very dense,crptoxln, some chalky in part,no shows

4628-42 SHALE as above

4642-62 LIMESTONE buff,b hard,dense as above with thin LIMESTONE white,slightly hard,very sandy,very fine to fine good,chalky,poor porosity,no shows

4662-72 SHALE as above

4672-80 SANDSTONE translucent,hard,very fine to fine good,calcareous cement,poor porosity,no shows

4680-4702 SHALE as above green,red,firm,fissile

4702-25 SANDSTONE red,firm,fine to m grained,poor sortd,rounded,poor vis porosity,no shows with thin SHALE as above

RTD 4725'

LTD 4727'