



KANSAS CORPORATION COMMISSION 1172476
 OIL & GAS CONSERVATION DIVISION

Form ACO-1
 August 2013

Form must be Typed
 Form must be Signed
 All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

Confidentiality Requested:

Yes No

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

- New Well Re-Entry Workover
- Oil WSW SWD SIOW
- Gas D&A ENHR SIGW
- OG GSW Temp. Abd.
- CM (Coal Bed Methane)
- Cathodic Other (Core, Expl., etc.): _____

If Workover/Re-entry: Old Well Info as follows:

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

- Deepening Re-perf. Conv. to ENHR Conv. to SWD
- Plug Back Conv. to GSW Conv. to Producer
- Commingled Permit #: _____
- Dual Completion Permit #: _____
- SWD Permit #: _____
- ENHR Permit #: _____
- GSW Permit #: _____

Spud Date or Recompletion Date Date Reached TD Completion Date or Recompletion Date

API No. 15 - _____

Spot Description: _____

_____ - _____ - _____ Sec. _____ Twp. _____ S. R. _____ East West

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE NW SE SW

GPS Location: Lat: _____, Long: _____
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite:

Operator Name: _____

Lease Name: _____ License #: _____

Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West

County: _____ Permit #: _____

AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

KCC Office Use ONLY

- Confidentiality Requested
 Date: _____
- Confidential Release Date: _____
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT I II III Approved by: _____ Date: _____

1172476

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 <i>(Attach Additional Sheets)</i>	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top	Datum
Cores Taken	<input type="checkbox"/> Yes <input type="checkbox"/> No			
Electric Log Run	<input type="checkbox"/> Yes <input type="checkbox"/> No			
List All E. Logs Run:				

CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate				
<input type="checkbox"/> Protect Casing				
<input type="checkbox"/> Plug Back TD				
<input type="checkbox"/> Plug Off Zone				

Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*

Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? Yes No *(If No, fill out Page Three of the ACO-1)*

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth

TUBING RECORD: Size: _____ Set At: _____ Packer At: _____ Liner Run: Yes No

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

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	F. G. Holl Company L.L.C.
Well Name	PANNING 'A' 1-17
Doc ID	1172476

All Electric Logs Run

CDL/CNL
DIL
BHCS
Microresistivity
CPI
Frac finder

Form	ACO1 - Well Completion
Operator	F. G. Holl Company L.L.C.
Well Name	PANNING 'A' 1-17
Doc ID	1172476

Tops

Name	Top	Datum
Herrington	1703	+176
Winfield	1758	+121
Towanda	1823	+56
Fort Riley	1851	+28
B/Florence	1968	-89
Kinney Ls	1982	-103
Wrefold	2015	-136
Council Grove	2038	-159
Crouse	2066	-187
Neva	2199	-320
Red Eagle	2262	-383
Onaga Shale	2420	-541
Wabaunsee	2444	-565
Root Shale	2500	-621
Stotler	2566	-687
Tarkio	2626	-747
Howard	2766	-887
Severy Shale	2823	-944
Topeka	2845	-966
Heebner	3111	-1232
Toronto	3133	-1254
Douglas Shale	3148	-1269
Brown Lime	3225	-1346
LKC	3236	-1357

Form	ACO1 - Well Completion
Operator	F. G. Holl Company L.L.C.
Well Name	PANNING 'A' 1-17
Doc ID	1172476

Tops

Name	Top	Datum
Drum	3368	-1489
BKC	3462	-1583
Arbuckle	3511	-1632
RTD	3650	-1771

Mud-Co / Service Mud Inc.

Operator **FG Holl** County **Barton** State **Kansas** Pump **6** X **14** X **60** SPM Casing Program **8 5/8" @ 765** ft.
 Well **Panning A #1-17** Location _____ GPM **7.75** BPM _____ " @ _____ ft.
 Contractor **Duke #2** Sec **17** TWP **20S** RNG **13W** D.P. **4.5** in. **191** FT/MIN R.A. _____ " @ _____ ft.
 Stockpoint **Pratt, Ks.** Date **11/14/2013** Engineer **Rick Hughes** Collar **6.25** in. **495** ft. **348** FT/MIN R.A. Total Depth **3650** ft.

DATE	DEPTH feet	WEIGHT lb/gal	VISCOSITY			GELS 10 sec / 10 min.	pH Strip_ Meter_	FILTRATION/ILTRATION ANALYSIS					SAND %	RETORT			L.C.M.	Pump Press. PSI	CUMULATIVE COST	REMARKS AND TREATMENT
			Sec API @_F	PV @_F	Yp			ml API	Cake 32nds	Pres. #/BBL	Cl ppm	Ca ppm		Solids %	Oil %	Water %				
11/14	0																			0 RURT Steel pits with centrifugal
11/15	765																			Run SP transfer pump
11/16	1705	8.8	67	10	35	30/45	7.0	8.4	2		24m	Hvy	2.2		97.8					Drlg. Displace starch @ 1610
11/17	2127	9.6	41	7	18	20/31	7.0	14.6	4		52m	Hvy	6.2		93.8					Drlg. Displace chem @ 2486
11/18	2709	9.0	55	14	15	12/34	11.0	7.2	1		4,400		4.4		95.6					Pump repairs
11/19	3275	9.6	45	12	11	18/66	9.5	10.0	2		7,000	20	8.8		91.2					Drlg. DST #1 @ 3280
11/20	3318	9.5	52	13	17	26/80	10.5	9.6	1		8,100	40	7.7		92.3					SCH f/DST #2 DST #3 @ 3390
11/21	3390	9.1	46	11	11	16/25	10.0	8.8	1		7,300	20	5.3		94.7					TI w/Bit DST #4 @ 3414
11/22	3505	9.6	44	11	12	22/55	9.0	11.2	2		9,200	100	8.7		91.3					Drlg. DST #5 @ 3510
11/23	3525	9.4	50	12	13	23/46	11.0	10.2	1		9,500	40	7.2		92.8					TI w/DST #6 DST #6 @ 3525
11/24	3577	9.2	54	11	27	35/63	11.0	9.6	1		12m	40	5.7		94.3					Drlg. DST #7 @ 3535
11/25	3650																			Final: LTD - 3653'. 7 DST's. Run Casing.
																			Reserve Pit, Chl content ppm: 47,000	
																			Estimated Volume: < 200 bbls of free fluids	

MUD-CO / SERVICE MUD INC.

100 S. Main Suite #310
 Wichita, Ks. 67202
 316/264-2814 Fax: 316/264-5024

DRILLING MUD RECAP

Materials	Sacks	Amount	Materials	Sacks	Amount		Amount
C/S HULLS	36		SUPER LIG	13	371.80		
CAUSTIC SODA	21						
DESCO	1						
DRILL PAK	7						
LIME	2						
MIL-GUARD	1						
PREMIUM GEL	320						
SALT CLAY	10						
SODA ASH	19						
STARCH	5						
						Total Mud Cost	
						Trucking Cost	
						Trucking Surcharge	
						Taxes	
						TOTAL COST	



DRILL STEM TEST REPORT

Prepared For: **F.G Holl Company L.L.C**

9431 E Central Ste 100 Wichita KS
67206+2563

ATTN: Ryan Greenbaum

Panning "A" #1-17

17-20s-13w Barton

Start Date: 2013.11.19 @ 17:05:00

End Date: 2013.11.19 @ 23:47:30

Job Ticket #: 18521 DST #: 1

Superior Testers Enterprises LLC
PO Box 138 Great Bend KS 67530
1-800-792-6902

Printed: 2013.11.20 @ 00:04:17

F.G Holl Company L.L.C
17-20s-13w Barton
Panning "A" #1-17
DST # 1
LKC "A" #1-17
2013.11.19



DRILL STEM TEST REPORT

F.G Holl Company L.L.C

17-20s-13w Barton

9431 E Central Ste 100 Wichita KS 67206+2563

Panning "A" #1-17

ATTN: Ryan Greenbaum

Job Ticket: 18521

DST#: 1

Test Start: 2013.11.19 @ 17:05:00

GENERAL INFORMATION:

Formation: **LKC "A" #1-17**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 18:47:00

Time Test Ended: 23:47:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Jared Scheck

Unit No: 3330-10-Great Bend

Interval: 3229.00 ft (KB) To 3280.00 ft (KB) (TVD)

Reference Elevations: 1879.00 ft (KB)

Total Depth: 3280.00 ft (KB) (TVD)

1871.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 6663

Press @ RunDepth: 106.52 psia @ ft (KB)

Capacity: 5000.00 psia

Start Date: 2013.11.19

End Date: 2013.11.19

Last Calib.: 2013.11.20

Start Time: 17:05:00

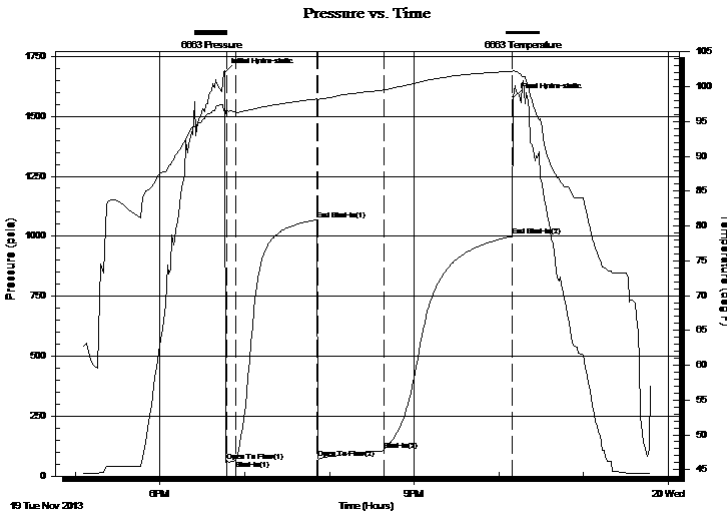
End Time: 23:47:30

Time On Btm: 2013.11.19 @ 18:46:00

Time Off Btm: 2013.11.19 @ 22:10:30

TEST COMMENT: 1st Opening 5 Minutes-Strong blow built bottom of bucket in 5 minutes
 1st Shut-in 60 Minutes-No blow back
 2nd Opening 45 Minutes-Strong blow built bottom of bucket in 1 minute
 2nd Shut-in 90 Minutes-Very weak blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1683.65	96.51	Initial Hydro-static
1	60.11	96.58	Open To Flow (1)
8	64.07	96.33	Shut-In(1)
65	1068.27	98.25	End Shut-In(1)
66	72.71	98.15	Open To Flow (2)
113	106.52	99.54	Shut-In(2)
204	999.94	102.22	End Shut-In(2)
205	1578.51	102.34	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	spot oil cut mud 1%oil 99%mud	1.68
0.00	480 feet gas in pipe	0.00

Gas Rates

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



DRILL STEM TEST REPORT

F.G Holl Company L.L.C

17-20s-13w Barton

9431 E Central Ste 100 Wichita KS 67206+2563

Panning "A" #1-17

ATTN: Ryan Greenbaum

Job Ticket: 18521

DST#: 1

Test Start: 2013.11.19 @ 17:05:00

GENERAL INFORMATION:

Formation: **LKC "A" #1-17**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 18:47:00

Time Test Ended: 23:47:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Jared Scheck

Unit No: 3330-10-Great Bend

Interval: 3229.00 ft (KB) To 3280.00 ft (KB) (TVD)

Reference Elevations: 1879.00 ft (KB)

Total Depth: 3280.00 ft (KB) (TVD)

1871.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 6748

Press @ RunDepth: 1006.25 psia @ ft (KB)

Capacity: 5000.00 psia

Start Date: 2013.11.19

End Date: 2013.11.19

Last Calib.: 2013.11.20

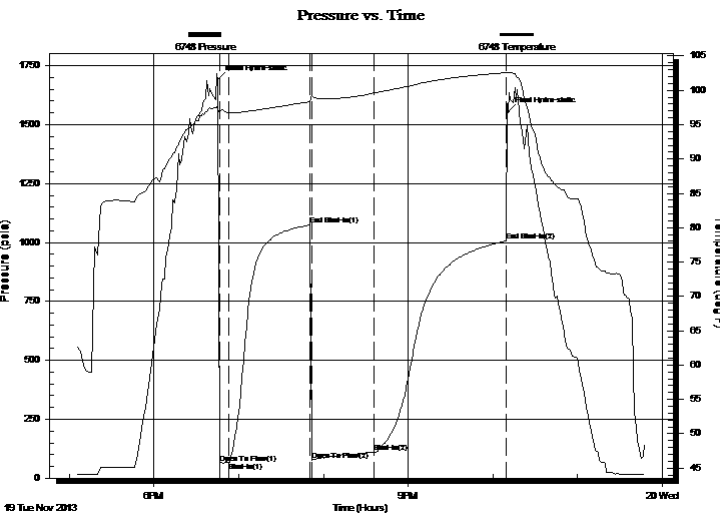
Start Time: 17:05:00

End Time: 23:47:30

Time On Btm: 2013.11.19 @ 18:45:30

Time Off Btm: 2013.11.19 @ 22:11:00

TEST COMMENT: 1st Opening 5 Minutes-Strong blow built bottom of bucket in 5 minutes
 1st Shut-in 60 Minutes-No blow back
 2nd Opening 45 Minutes-Strong blow built bottom of bucket in 1 minute
 2nd Shut-in 90 Minutes-Very weak blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1693.04	97.23	Initial Hydro-static
1	63.23	96.82	Open To Flow (1)
8	68.17	96.75	Shut-In(1)
65	1073.71	98.32	End Shut-In(1)
67	77.47	99.18	Open To Flow (2)
111	110.55	99.63	Shut-In(2)
204	1006.25	102.55	End Shut-In(2)
206	1554.07	102.55	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	spot oil cut mud 1%oil 99%mud	1.68
0.00	480 feet gas in pipe	0.00

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

F.G Holl Company L.L.C

17-20s-13w Barton

9431 E Central Ste 100 Wichita KS 67206+2563

Panning "A" #1-17

Job Ticket: 18521

DST#: 1

ATTN: Ryan Greenbaum

Test Start: 2013.11.19 @ 17:05:00

Tool Information

Drill Pipe:	Length: 3216.00 ft	Diameter: 3.80 inches	Volume: 45.11 bbl	Tool Weight: 1000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 80.00 lb
			<u>Total Volume: 45.11 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	16.00 ft			String Weight: Initial 47000.00 lb
Depth to Top Packer:	3229.00 ft			Final 47000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	51.00 ft			
Tool Length:	80.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3201.00	
Shut-In Tool	5.00			3206.00	
Hydroic Tool	5.00			3211.00	
Jars	6.00			3217.00	
Safety Joint	2.00			3219.00	
Packer	5.00			3224.00	29.00 Bottom Of Top Packer
Packer	5.00			3229.00	
Perforations	46.00			3275.00	
Recorder	1.00	6333	Inside	3276.00	
Recorder	1.00	6748	Outside	3277.00	
Bullnose	3.00			3280.00	51.00 Bottom Packers & Anchor

Total Tool Length: 80.00



DRILL STEM TEST REPORT

FLUID SUMMARY

F.G Holl Company L.L.C

17-20s-13w Barton

9431 E Central Ste 100 Wichita KS 67206+2563

Panning "A" #1-17

Job Ticket: 18521

DST#: 1

ATTN: Ryan Greenbaum

Test Start: 2013.11.19 @ 17:05:00

Mud and Cushion Information

Mud Type: Gel Chem
 Mud Weight: 10.00 lb/gal
 Viscosity: 45.00 sec/qt
 Water Loss: 10.00 in³
 Resistivity: ohm.m
 Salinity: 7000.00 ppm
 Filter Cake: 1.00 inches

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

Oil API: deg API
 Water Salinity: ppm

Recovery Information

Recovery Table

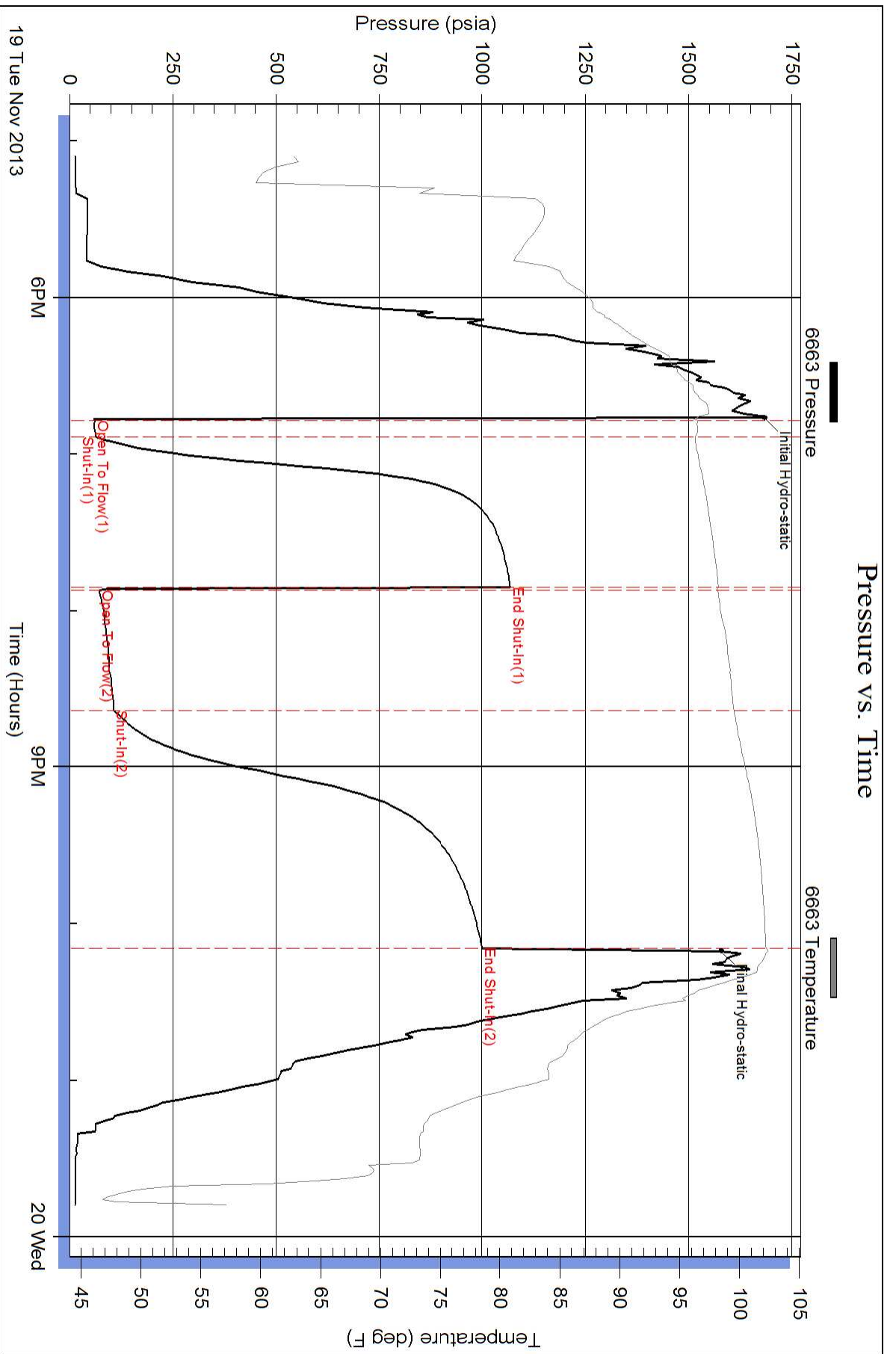
Length ft	Description	Volume bbl
120.00	spot oil cut mud 1%oil 99%mud	1.683
0.00	480 feet gas in pipe	0.000

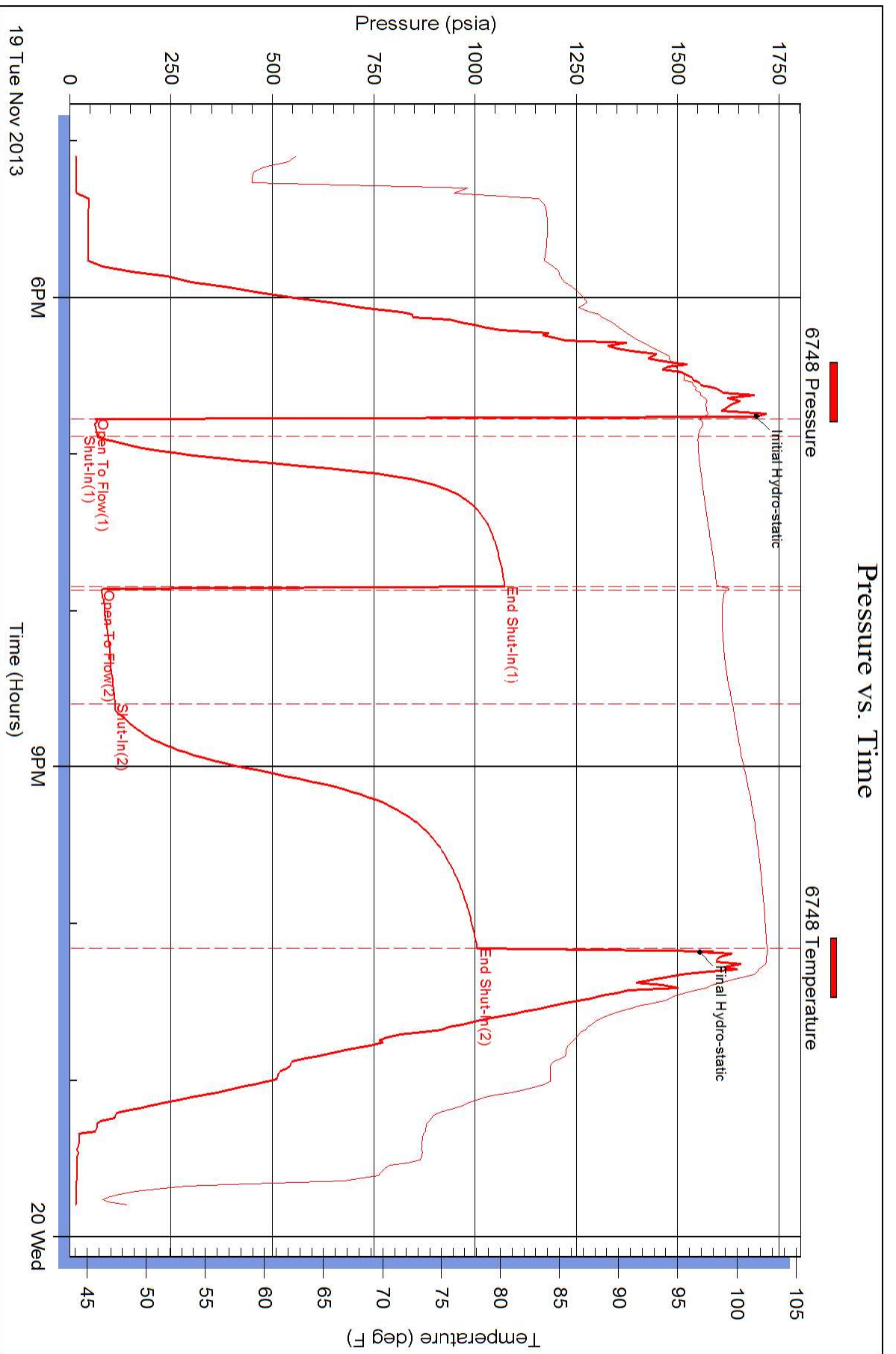
Total Length: 120.00 ft Total Volume: 1.683 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:







DRILL STEM TEST REPORT

Prepared For: **F.G Holl Company L.L.C**

9431 E Central Ste 100 Wichita KS
67206+2563

ATTN: Ryan Greenbaum

Panning "A" #1-17

17-20s-13w Barton

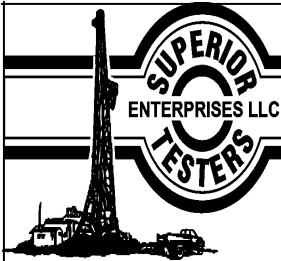
Start Date: 2013.11.20 @ 09:20:00

End Date: 2013.11.20 @ 13:14:30

Job Ticket #: 18522 DST #: 2

Superior Testers Enterprises LLC
PO Box 138 Great Bend KS 67530
1-800-792-6902

Printed: 2013.11.20 @ 13:23:02



DRILL STEM TEST REPORT

F.G Holl Company L.L.C

17-20s-13w Barton

9431 E Central Ste 100 Wichita KS 67206+2563

Panning "A" #1-17

ATTN: Ryan Greenbaum

Job Ticket: 18522

DST#: 2

Test Start: 2013.11.20 @ 09:20:00

GENERAL INFORMATION:

Formation: **LKC D,E,F**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 10:28:00

Time Test Ended: 13:14:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Jared Scheck

Unit No: 3330-Great Bend- 10

Interval: 3285.00 ft (KB) To 3318.00 ft (KB) (TVD)

Reference Elevations: 1879.00 ft (KB)

Total Depth: 3318.00 ft (KB) (TVD)

1871.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 6663

Press @ RunDepth: 53.55 psia @ ft (KB)

Capacity: 5000.00 psia

Start Date: 2013.11.20

End Date: 2013.11.20

Last Calib.: 2013.11.20

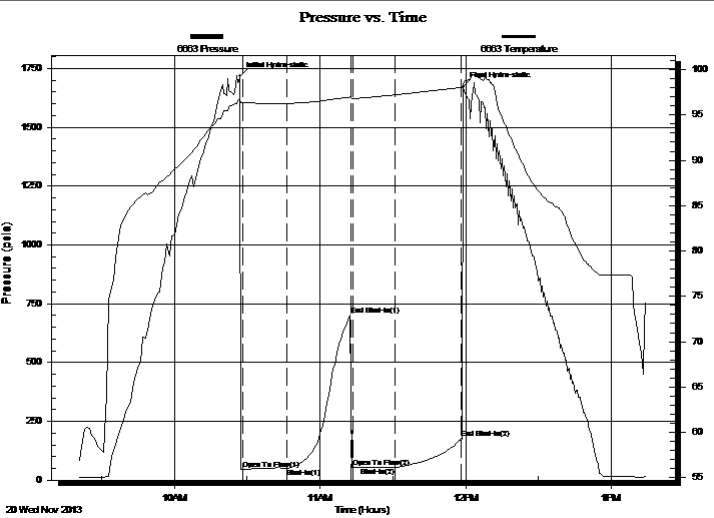
Start Time: 09:20:00

End Time: 13:14:30

Time On Btm: 2013.11.20 @ 10:27:00

Time Off Btm: 2013.11.20 @ 11:59:00

TEST COMMENT: 1st Opening 15 Minutes-Weak Blow built 3/4 inch into bucket w ater in 15 minutes
 1st Shut-in 30 Minutes-No blow back
 2nd Opening 15 Minutes-Weak blow built 3/4 inch into bucket w ater in 15 minutes
 2nd Shut-in 30 Minutes-No blow back



PRESSURE SUMMARY

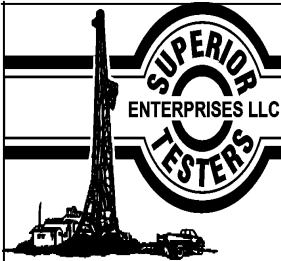
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1717.43	96.72	Initial Hydro-static
1	45.70	96.37	Open To Flow (1)
20	51.11	96.28	Shut-In(1)
46	701.40	96.98	End Shut-In(1)
47	53.99	96.83	Open To Flow (2)
64	53.55	97.23	Shut-In(2)
91	176.31	98.04	End Shut-In(2)
92	1671.95	98.36	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
25.00	mud	0.35

Gas Rates

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



DRILL STEM TEST REPORT

F.G Holl Company L.L.C

17-20s-13w Barton

9431 E Central Ste 100 Wichita KS 67206+2563

Panning "A" #1-17

ATTN: Ryan Greenbaum

Job Ticket: 18522

DST#: 2

Test Start: 2013.11.20 @ 09:20:00

GENERAL INFORMATION:

Formation: **LKC D,E,F**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 10:28:00

Time Test Ended: 13:14:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Jared Scheck

Unit No: 3330-Great Bend- 10

Interval: 3285.00 ft (KB) To 3318.00 ft (KB) (TVD)

Reference Elevations: 1879.00 ft (KB)

Total Depth: 3318.00 ft (KB) (TVD)

1871.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 6748

Press @ RunDepth: 182.24 psia @ ft (KB)

Capacity: 5000.00 psia

Start Date: 2013.11.20 End Date: 2013.11.20

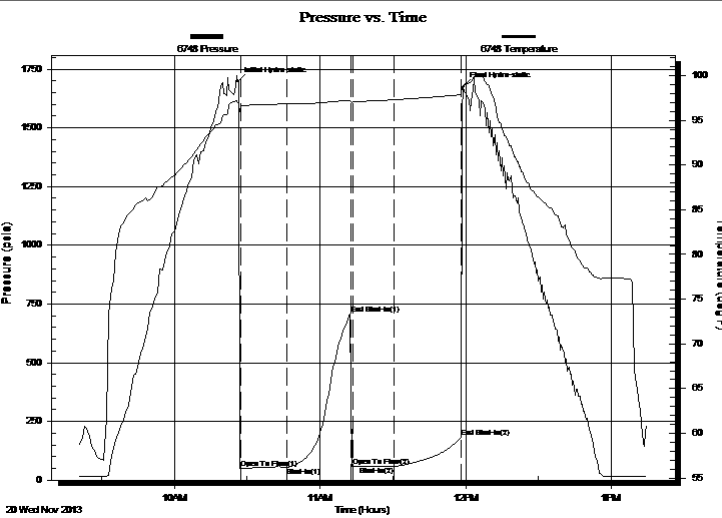
Last Calib.: 2013.11.20

Start Time: 09:20:00 End Time: 13:14:30

Time On Btm: 2013.11.20 @ 10:26:00

Time Off Btm: 2013.11.20 @ 11:59:00

TEST COMMENT: 1st Opening 15 Minutes-Weak Blow built 3/4 inch into bucket w ater in 15 minutes
 1st Shut-in 30 Minutes-No blow back
 2nd Opening 15 Minutes-Weak blow built 3/4 inch into bucket w ater in 15 minutes
 2nd Shut-in 30 Minutes-No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1697.32	96.99	Initial Hydro-static
2	48.94	96.62	Open To Flow (1)
21	55.25	96.82	Shut-In(1)
47	707.48	97.23	End Shut-In(1)
48	58.53	97.09	Open To Flow (2)
65	58.35	97.30	Shut-In(2)
92	182.24	97.86	End Shut-In(2)
93	1675.49	98.59	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
25.00	mud	0.35

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

F.G Holl Company L.L.C

17-20s-13w Barton

9431 E Central Ste 100 Wichita KS 67206+2563

Panning "A" #1-17

Job Ticket: 18522

DST#: 2

ATTN: Ryan Greenbaum

Test Start: 2013.11.20 @ 09:20:00

Tool Information

Drill Pipe:	Length: 3279.00 ft	Diameter: 3.80 inches	Volume: 46.00 bbl	Tool Weight:	1000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose:	55000.00 lb
			<u>Total Volume: 46.00 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	23.00 ft			String Weight: Initial	44000.00 lb
Depth to Top Packer:	3285.00 ft			Final	44000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	33.00 ft				
Tool Length:	62.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3257.00	
Shut-In Tool	5.00			3262.00	
Hydroic Tool	5.00			3267.00	
Jars	6.00			3273.00	
Safety Joint	2.00			3275.00	
Packer	5.00			3280.00	29.00 Bottom Of Top Packer
Packer	5.00			3285.00	
Perforations	28.00			3313.00	
Recorder	1.00	6663	Inside	3314.00	
Recorder	1.00	6748	Outside	3315.00	
Bullnose	3.00			3318.00	33.00 Bottom Packers & Anchor

Total Tool Length: 62.00



DRILL STEM TEST REPORT

FLUID SUMMARY

F.G Holl Company L.L.C

17-20s-13w Barton

9431 E Central Ste 100 Wichita KS 67206+2563

Panning "A" #1-17

Job Ticket: 18522

DST#: 2

ATTN: Ryan Greenbaum

Test Start: 2013.11.20 @ 09:20:00

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: 9.60 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psia

Salinity: 8100.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
25.00	mud	0.351

Total Length: 25.00 ft Total Volume: 0.351 bbl

Num Fluid Samples: 0

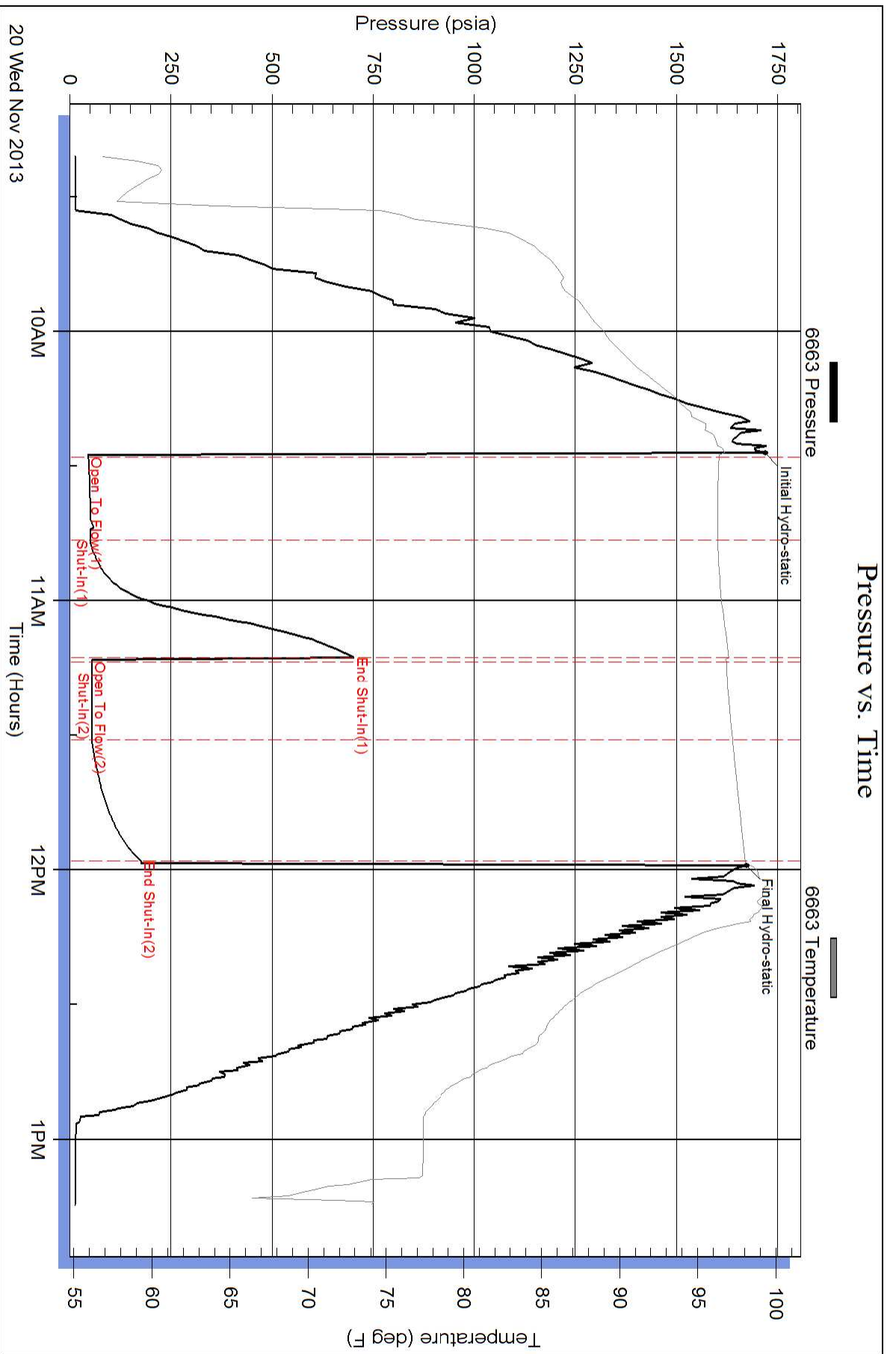
Num Gas Bombs: 0

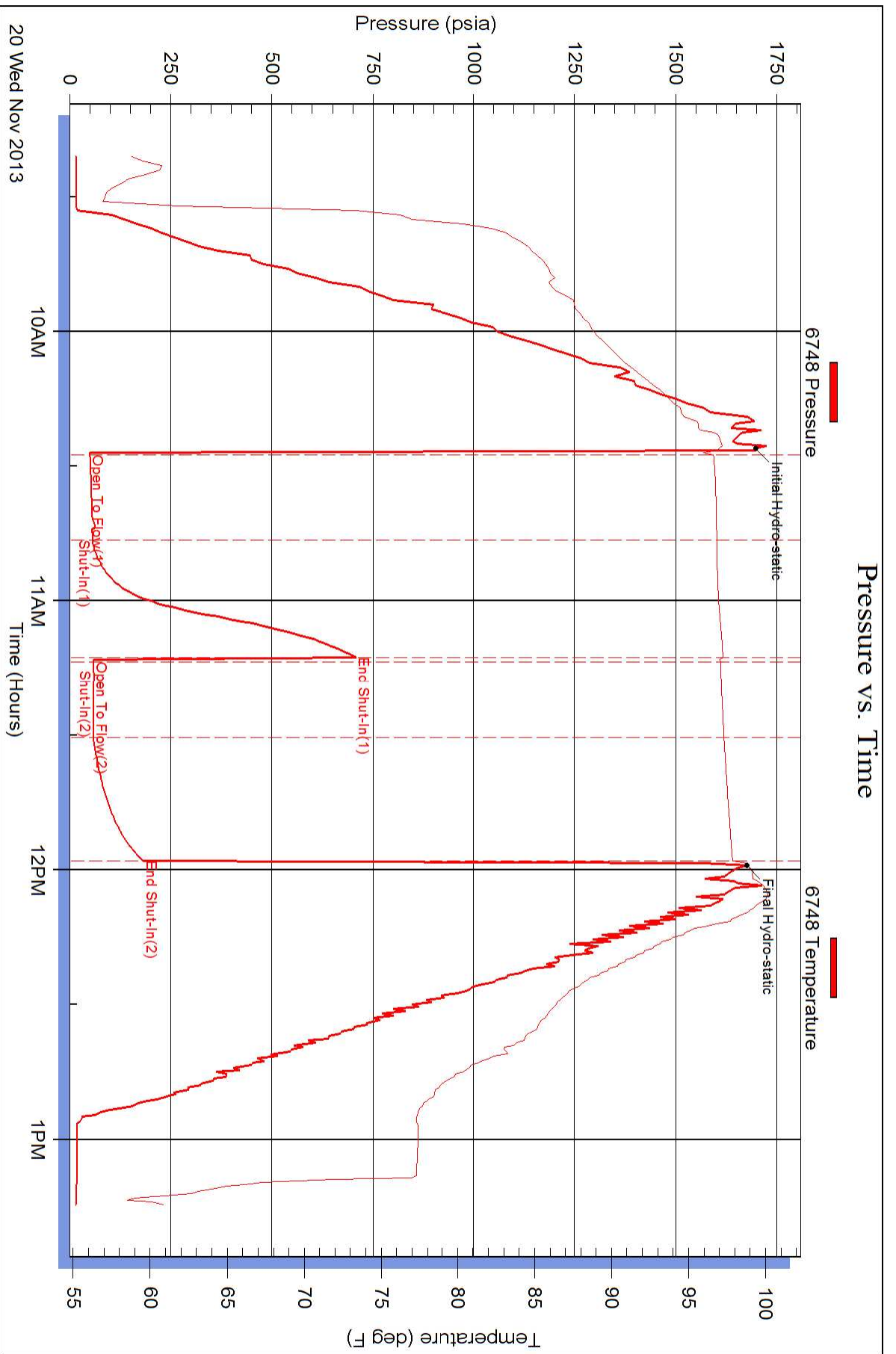
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







DRILL STEM TEST REPORT

Prepared For: **F.G Holl Company L.L.C**

9431 E Central Ste 100 Wichita KS
67206+2563

ATTN: Ryan Greenbaum

Panning "A" #1-17

17-20s-13w Barton

Start Date: 2013.11.21 @ 02:19:00

End Date: 2013.11.21 @ 06:46:00

Job Ticket #: 18523 DST #: 3

Superior Testers Enterprises LLC
PO Box 138 Great Bend KS 67530
1-800-792-6902

Printed: 2013.11.21 @ 06:58:34



DRILL STEM TEST REPORT

F.G Holl Company L.L.C

17-20s-13w Barton

9431 E Central Ste 100 Wichita KS 67206+2563

Panning "A" #1-17

ATTN: Ryan Greenbaum

Job Ticket: 18523

DST#: 3

Test Start: 2013.11.21 @ 02:19:00

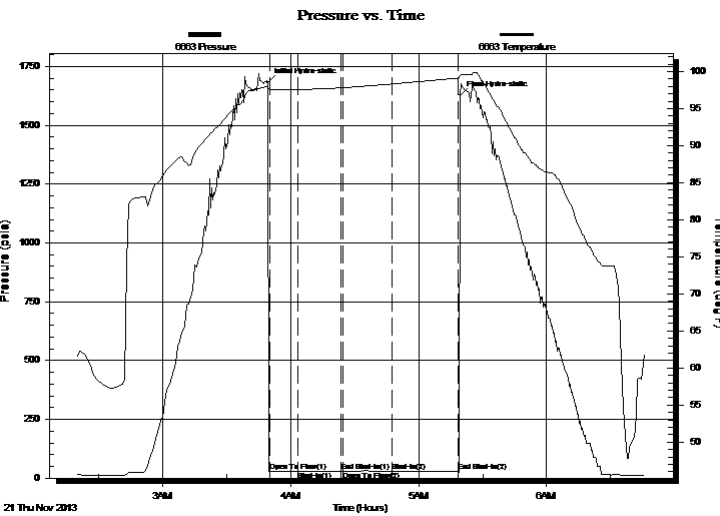
GENERAL INFORMATION:

Formation: **LKC "J"**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 03:50:00
 Tester: Jared Scheck
 Time Test Ended: 06:46:00
 Unit No: 3330-Grat Bend -10
 Interval: **3382.00 ft (KB) To 3390.00 ft (KB) (TVD)**
 Reference Elevations: 1879.00 ft (KB)
 Total Depth: 3390.00 ft (KB) (TVD)
 1871.00 ft (CF)
 Hole Diameter: 7.88 inches
 Hole Condition: Fair
 KB to GR/CF: 8.00 ft

Serial #: 6663

Press @ RunDepth: 30.38 psia @ ft (KB) Capacity: 5000.00 psia
 Start Date: 2013.11.21 End Date: 2013.11.21 Last Calib.: 2013.11.21
 Start Time: 02:19:00 End Time: 06:46:00 Time On Btm: 2013.11.21 @ 03:49:00
 Time Off Btm: 2013.11.21 @ 05:19:30

TEST COMMENT: 1st Opening 15 Minutes-Very weak blow built 1/4 inch into water in 15 minutes
 1st Shut-in 30 Minutes-No blow back
 2nd Opening 15 Minutes-Very weak surge did not build
 2nd Shut-in 30 Minutes-No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1683.53	97.94	Initial Hydro-static
1	29.86	97.60	Open To Flow (1)
15	30.55	97.57	Shut-In(1)
35	30.67	97.80	End Shut-In(1)
36	30.69	97.82	Open To Flow (2)
59	30.38	98.33	Shut-In(2)
90	30.33	99.12	End Shut-In(2)
91	1626.50	99.49	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1.00	mud	0.01

Gas Rates

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



DRILL STEM TEST REPORT

F.G Holl Company L.L.C

17-20s-13w Barton

9431 E Central Ste 100 Wichita KS 67206+2563

Panning "A" #1-17

ATTN: Ryan Greenbaum

Job Ticket: 18523

DST#: 3

Test Start: 2013.11.21 @ 02:19:00

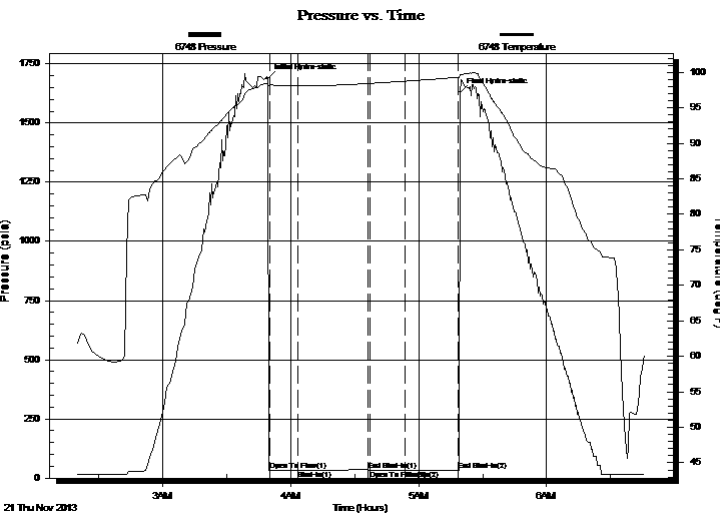
GENERAL INFORMATION:

Formation: **LKC "J"**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 03:50:00
 Tester: Jared Scheck
 Time Test Ended: 06:46:00
 Unit No: 3330-Grat Bend -10
 Interval: **3382.00 ft (KB) To 3390.00 ft (KB) (TVD)**
 Reference Elevations: 1879.00 ft (KB)
 Total Depth: 3390.00 ft (KB) (TVD)
 1871.00 ft (CF)
 Hole Diameter: 7.88 inches
 Hole Condition: Fair
 KB to GR/CF: 8.00 ft

Serial #: 6748

Press @ RunDepth: 34.80 psia @ ft (KB) Capacity: 5000.00 psia
 Start Date: 2013.11.21 End Date: 2013.11.21 Last Calib.: 2013.11.21
 Start Time: 02:19:00 End Time: 06:46:00 Time On Btm: 2013.11.21 @ 03:49:00
 Time Off Btm: 2013.11.21 @ 05:19:30

TEST COMMENT: 1st Opening 15 Minutes-Very weak blow built 1/4 inch into water in 15 minutes
 1st Shut-in 30 Minutes-No blow back
 2nd Opening 15 Minutes-Very weak surge did not build
 2nd Shut-in 30 Minutes-No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1688.74	98.43	Initial Hydro-static
1	34.18	98.27	Open To Flow (1)
15	34.53	98.10	Shut-In(1)
47	35.31	98.43	End Shut-In(1)
48	34.47	98.45	Open To Flow (2)
65	34.48	98.76	Shut-In(2)
90	34.80	99.30	End Shut-In(2)
91	1629.95	99.69	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1.00	mud	0.01

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

F.G Holl Company L.L.C

17-20s-13w Barton

9431 E Central Ste 100 Wichita KS 67206+2563

Panning "A" #1-17

Job Ticket: 18523

DST#: 3

ATTN: Ryan Greenbaum

Test Start: 2013.11.21 @ 02:19:00

Tool Information

Drill Pipe:	Length: 3368.00 ft	Diameter: 3.80 inches	Volume: 47.24 bbl	Tool Weight: 1000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 55000.00 lb
			<u>Total Volume: 47.24 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial 44000.00 lb
Depth to Top Packer:	3382.00 ft			Final 44000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	8.00 ft			
Tool Length:	37.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3354.00	
Shut-In Tool	5.00			3359.00	
Hydroic Tool	5.00			3364.00	
Jars	6.00			3370.00	
Safety Joint	2.00			3372.00	
Packer	5.00			3377.00	29.00 Bottom Of Top Packer
Packer	5.00			3382.00	
Perforations	3.00			3385.00	
Recorder	1.00	6663	Inside	3386.00	
Recorder	1.00	6748	Outside	3387.00	
Bullnose	3.00			3390.00	8.00 Bottom Packers & Anchor

Total Tool Length: 37.00



DRILL STEM TEST REPORT

FLUID SUMMARY

F.G Holl Company L.L.C

17-20s-13w Barton

9431 E Central Ste 100 Wichita KS 67206+2563

Panning "A" #1-17

Job Ticket: 18523

DST#: 3

ATTN: Ryan Greenbaum

Test Start: 2013.11.21 @ 02:19:00

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: 9.60 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psia

Salinity: 8100.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1.00	mud	0.014

Total Length: 1.00 ft Total Volume: 0.014 bbl

Num Fluid Samples: 0

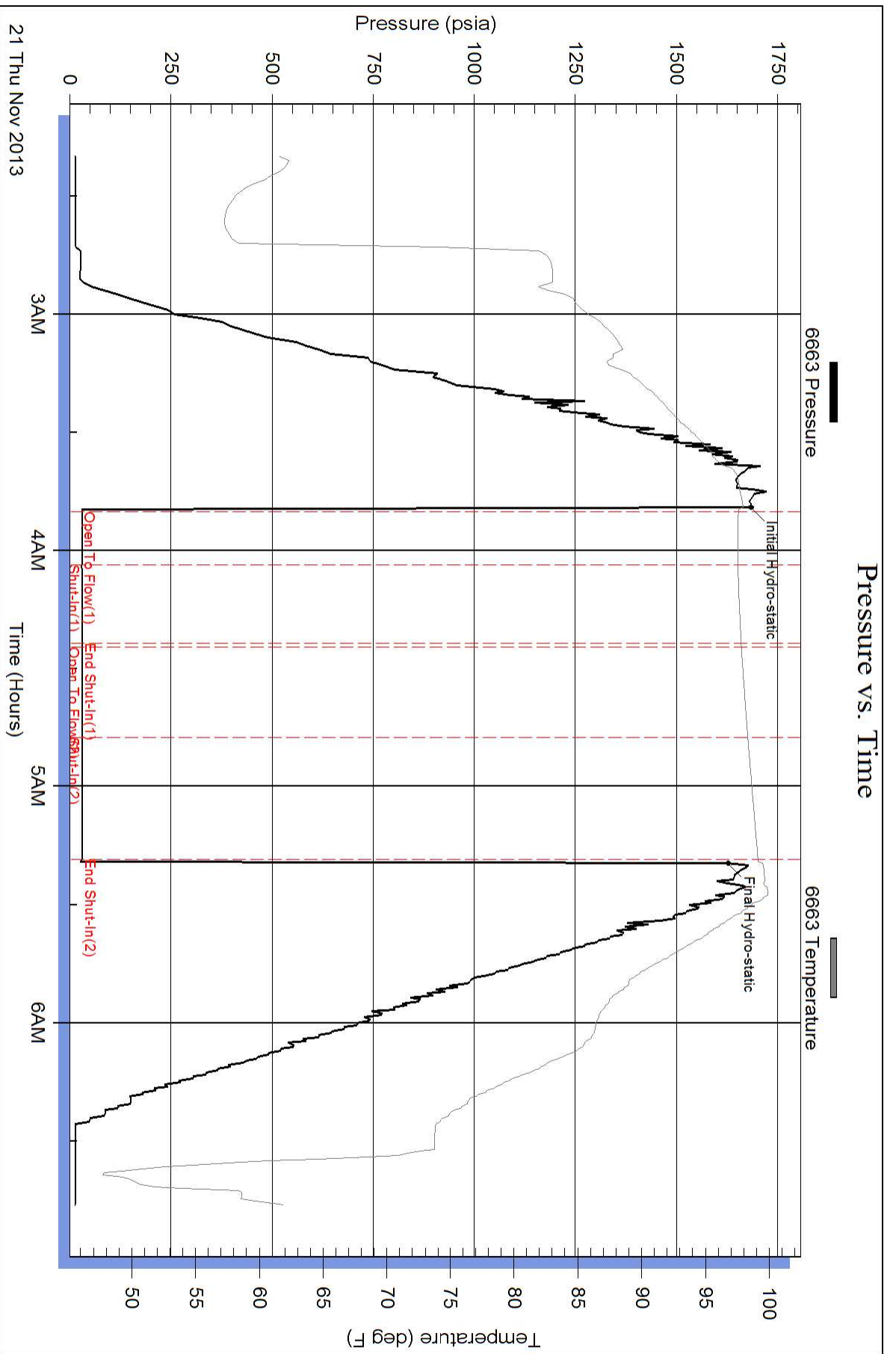
Num Gas Bombs: 0

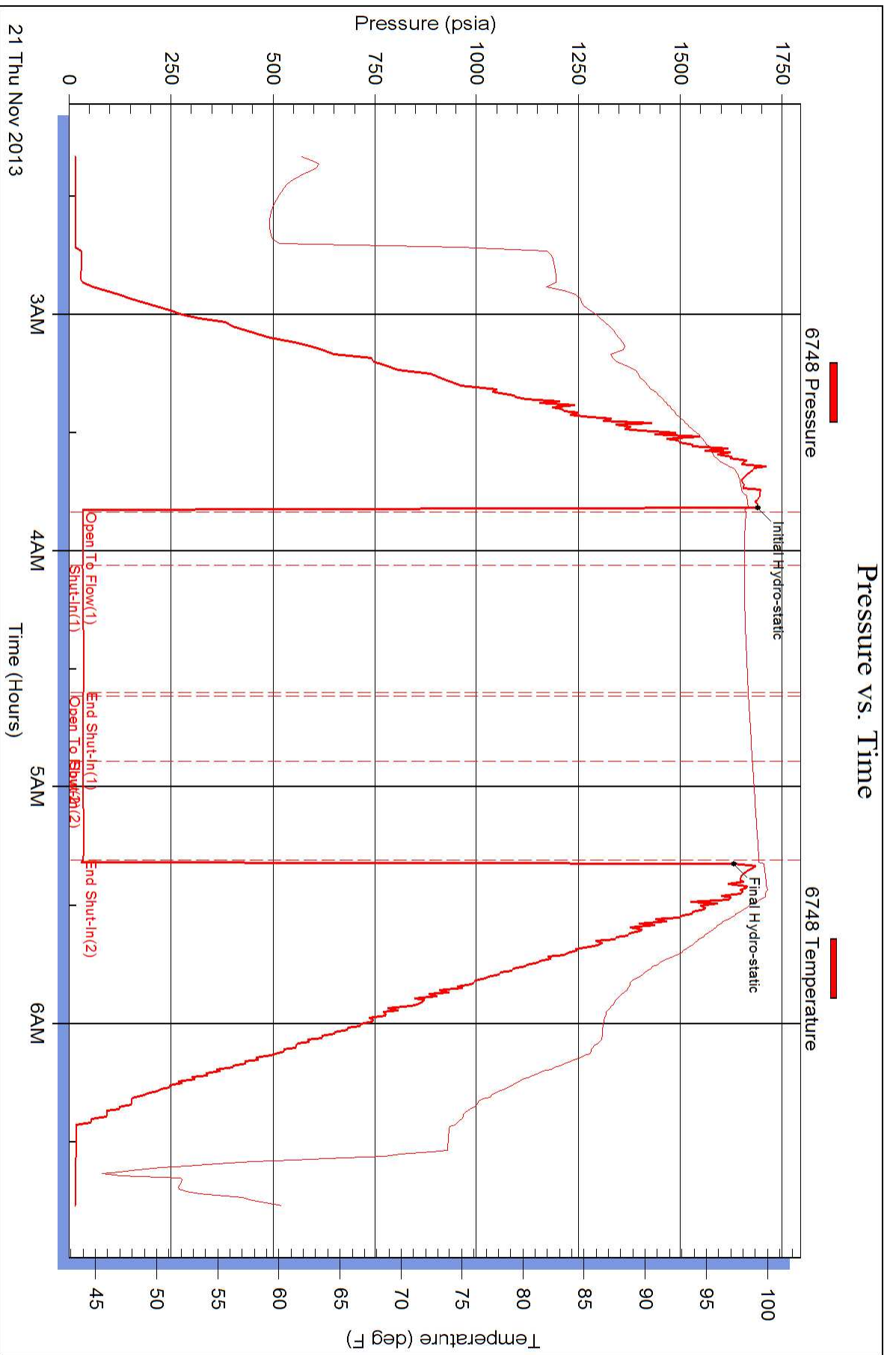
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







DRILL STEM TEST REPORT

Prepared For: **F.G Holl Company L.L.C**

9431 E Central Ste 100 Wichita KS
67206+2563

ATTN: Ryan Greenbaum

Panning "A" #1-17

17-20s-13w Barton

Start Date: 2013.11.21 @ 15:20:00

End Date: 2013.11.21 @ 21:38:00

Job Ticket #: 18524 DST #: 4

Superior Testers Enterprises LLC
PO Box 138 Great Bend KS 67530
1-800-792-6902

Printed: 2013.11.21 @ 22:31:58



DRILL STEM TEST REPORT

F.G Holl Company L.L.C

17-20s-13w Barton

9431 E Central Ste 100 Wichita KS 67206+2563

Panning "A" #1-17

ATTN: Ryan Greenbaum

Job Ticket: 18524

DST#: 4

Test Start: 2013.11.21 @ 15:20:00

GENERAL INFORMATION:

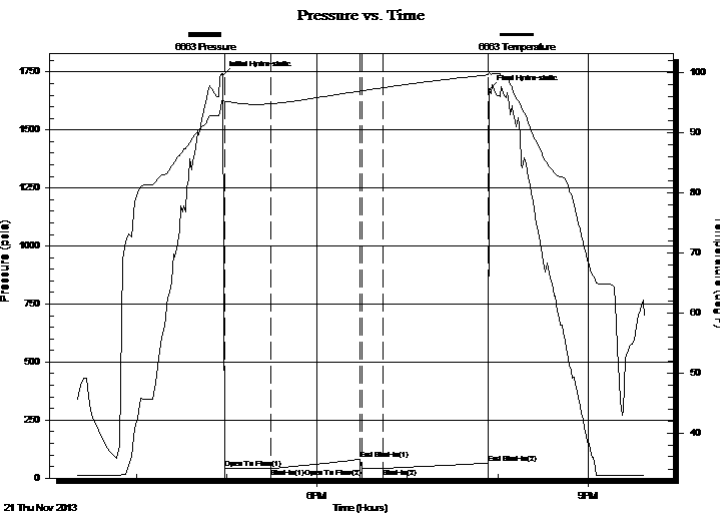
Formation: **LKC " J "**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 16:58:30
 Time Test Ended: 21:38:00
 Interval: **3390.00 ft (KB) To 3414.00 ft (KB) (TVD)**
 Total Depth: 3414.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Jared Scheck
 Unit No: 3330-10-Great Bend
 Reference Elevations: 1879.00 ft (KB)
 1871.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 6663

Inside

Press @ RunDepth: 43.80 psia @ 3410.00 ft (KB) Capacity: 5000.00 psia
 Start Date: 2013.11.21 End Date: 2013.11.21 Last Calib.: 2013.11.21
 Start Time: 15:20:00 End Time: 21:38:00 Time On Btm: 2013.11.21 @ 16:57:30
 Time Off Btm: 2013.11.21 @ 19:54:30

TEST COMMENT: 1st OPeing 30 Minutes-Weak blow built 1/2 inch into bucket in 30 minutes
 1st Shut-in 60 Minutes-No blow back
 2nd Opening 15 Minutes-Weak surge did not build
 2nd Shut-in 60 Minutes-No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1735.94	95.47	Initial Hydro-static
1	41.20	95.27	Open To Flow (1)
32	43.29	94.82	Shut-In(1)
91	81.98	96.95	End Shut-In(1)
92	43.82	96.98	Open To Flow (2)
106	43.80	97.49	Shut-In(2)
176	65.18	99.65	End Shut-In(2)
177	1673.66	100.05	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	oil cut mud 5%oil 95% mud	0.07

Gas Rates

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



DRILL STEM TEST REPORT

F.G Holl Company L.L.C

17-20s-13w Barton

9431 E Central Ste 100 Wichita KS 67206+2563

Panning "A" #1-17

ATTN: Ryan Greenbaum

Job Ticket: 18524

DST#: 4

Test Start: 2013.11.21 @ 15:20:00

GENERAL INFORMATION:

Formation: **LKC " J "**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:58:30

Time Test Ended: 21:38:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Jared Scheck

Unit No: 3330-10-Great Bend

Interval: 3390.00 ft (KB) To 3414.00 ft (KB) (TVD)

Reference Elevations: 1879.00 ft (KB)

Total Depth: 3414.00 ft (KB) (TVD)

1871.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 6748 Outside

Press @ RunDepth: 70.22 psia @ 3411.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2013.11.21

End Date:

2013.11.21

Last Calib.:

2013.11.21

Start Time: 15:20:00

End Time:

21:38:30

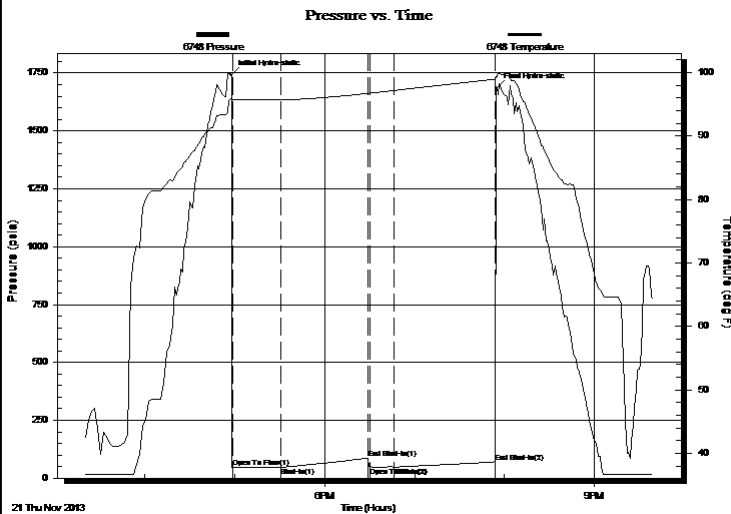
Time On Btm:

2013.11.21 @ 16:58:00

Time Off Btm:

2013.11.21 @ 19:55:00

TEST COMMENT: 1st OPeing 30 Minutes-Weak blow built 1/2 inch into bucket in 30 minutes
 1st Shut-in 60 Minutes-No blow back
 2nd Opening 15 Minutes-Weak surge did not build
 2nd Shut-in 60 Minutes-No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1742.43	95.96	Initial Hydro-static
1	45.48	95.73	Open To Flow (1)
33	47.44	95.70	Shut-In(1)
91	86.64	96.73	End Shut-In(1)
93	48.63	96.76	Open To Flow (2)
109	48.54	97.18	Shut-In(2)
176	70.22	98.96	End Shut-In(2)
177	1687.14	99.35	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	oil cut mud 5%oil 95%mud	0.07

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

F.G Holl Company L.L.C

17-20s-13w Barton

9431 E Central Ste 100 Wichita KS 67206+2563

Panning "A" #1-17

Job Ticket: 18524

DST#: 4

ATTN: Ryan Greenbaum

Test Start: 2013.11.21 @ 15:20:00

Tool Information

Drill Pipe:	Length: 3371.00 ft	Diameter: 3.80 inches	Volume: 47.29 bbl	Tool Weight:	1000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose:	67000.00 lb
			<u>Total Volume: 47.29 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial	47000.00 lb
Depth to Top Packer:	3390.00 ft			Final	47000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	24.00 ft				
Tool Length:	53.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3362.00	
Shut-In Tool	5.00			3367.00	
Hydroic Tool	5.00			3372.00	
Jars	6.00			3378.00	
Safety Joint	2.00			3380.00	
Packer	5.00			3385.00	29.00 Bottom Of Top Packer
Packer	5.00			3390.00	
Perforations	19.00			3409.00	
Recorder	1.00	6663	Inside	3410.00	
Recorder	1.00	6748	Outside	3411.00	
Bullnose	3.00			3414.00	24.00 Bottom Packers & Anchor

Total Tool Length: 53.00



DRILL STEM TEST REPORT

FLUID SUMMARY

F.G Holl Company L.L.C

17-20s-13w Barton

9431 E Central Ste 100 Wichita KS 67206+2563

Panning "A" #1-17

Job Ticket: 18524

DST#: 4

ATTN: Ryan Greenbaum

Test Start: 2013.11.21 @ 15:20:00

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: 46.00 sec/qt

Cushion Volume:

bbf

Water Loss: 8.80 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psia

Salinity: 7300.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
5.00	oil cut mud 5%oil 95%mud	0.070

Total Length: 5.00 ft Total Volume: 0.070 bbf

Num Fluid Samples: 0

Num Gas Bombs: 0

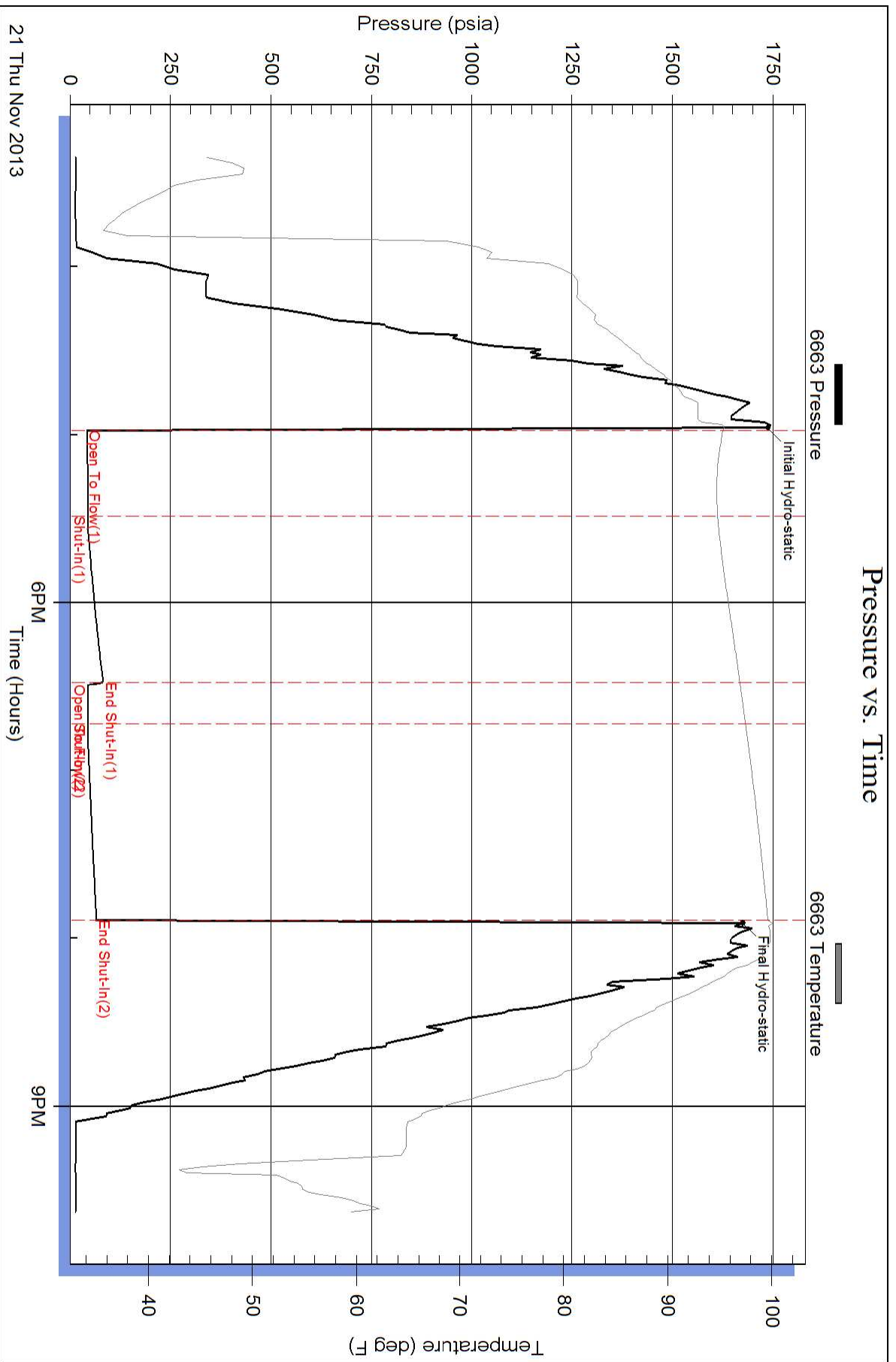
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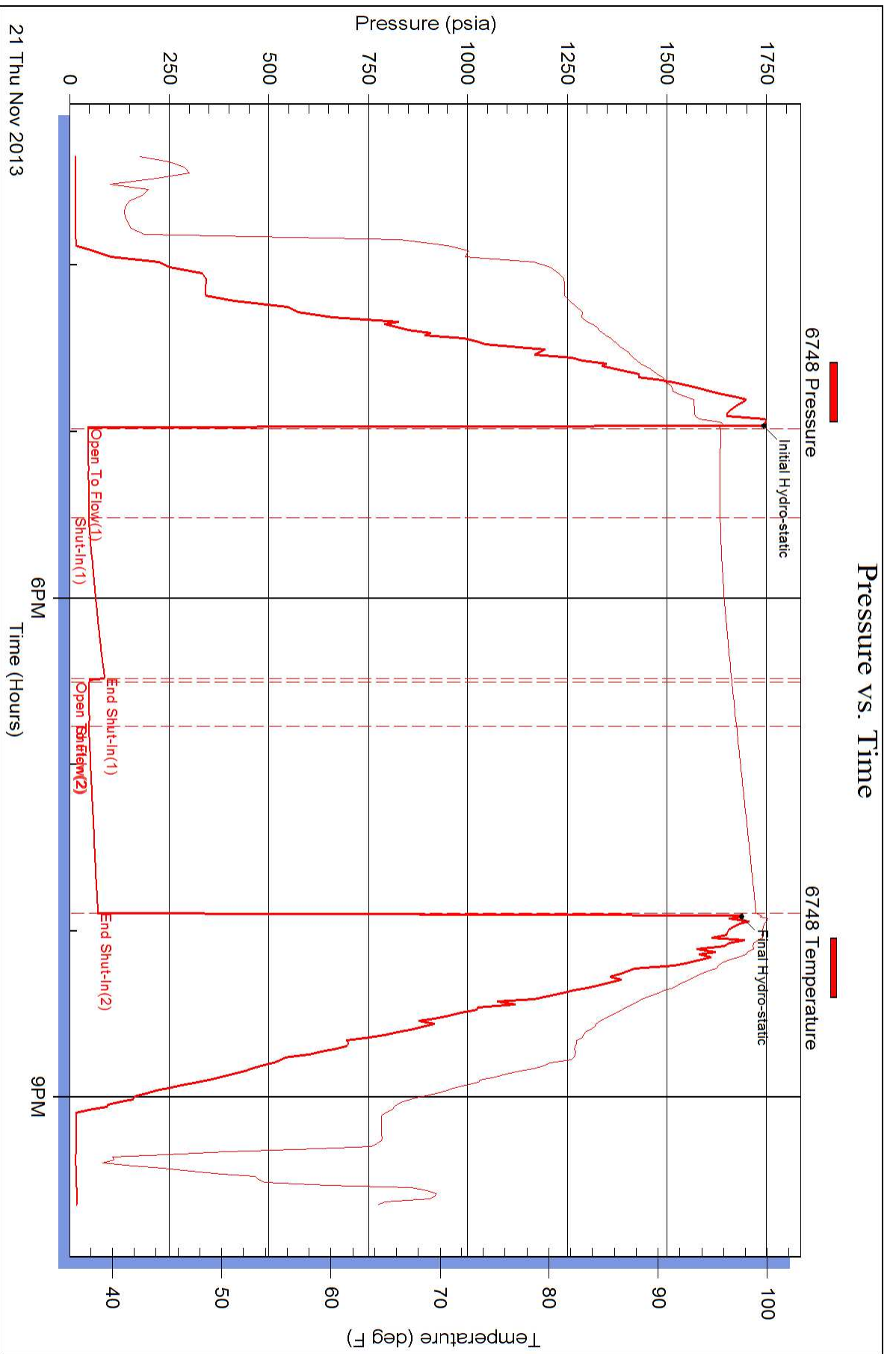
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time







DRILL STEM TEST REPORT

Prepared For: **F.G Holl Company L.L.C**

9431 E Central Ste 100 Wichita KS
67206+2563

ATTN: Ryan Greenbaum

Panning "A" #1-17

17-20s-13w Barton

Start Date: 2013.11.22 @ 13:38:00

End Date: 2013.11.22 @ 20:26:00

Job Ticket #: 18525 DST #: 5

Superior Testers Enterprises LLC
PO Box 138 Great Bend KS 67530
1-800-792-6902

Printed: 2013.11.22 @ 20:43:58



DRILL STEM TEST REPORT

F.G Holl Company L.L.C

17-20s-13w Barton

9431 E Central Ste 100 Wichita KS 67206+2563

Panning "A" #1-17

ATTN: Ryan Greenbaum

Job Ticket: 18525

DST#: 5

Test Start: 2013.11.22 @ 13:38:00

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 15:03:30

Time Test Ended: 20:26:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Jared Scheck

Unit No: 3330-Great Bend-10

Interval: 3415.00 ft (KB) To 3510.00 ft (KB) (TVD)

Reference Elevations: 1879.00 ft (KB)

Total Depth: 3510.00 ft (KB) (TVD)

1871.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 6663

Press @ RunDepth: 93.94 psia @ ft (KB)

Capacity: 5000.00 psia

Start Date: 2013.11.22

End Date: 2013.11.22

Last Calib.: 2013.11.22

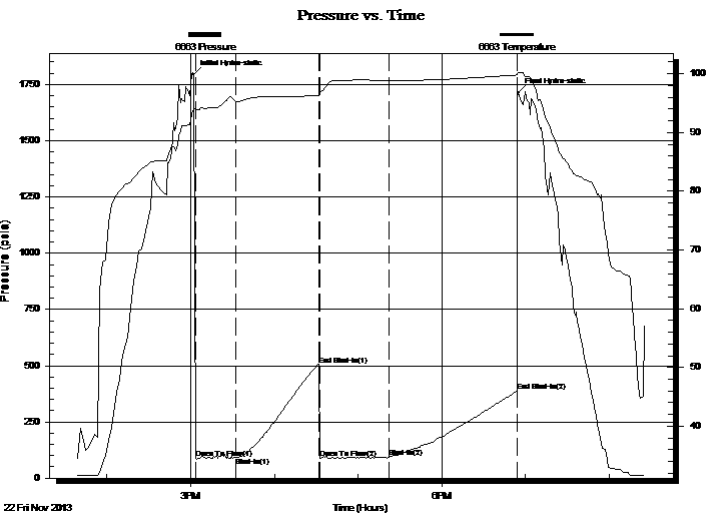
Start Time: 13:38:00

End Time: 20:26:00

Time On Btm: 2013.11.22 @ 15:02:00

Time Off Btm: 2013.11.22 @ 18:55:00

TEST COMMENT: 1st Opening 30 Minutes-Weak blow built 1 3/4 into water in 30 minutes
 1st Shut-in 60 Minutes-No blow back
 2nd Opening 45 Minutes-Weak blow built 3/4 inch into bucket water in 45 minutes
 2nd Shut-in 90 Minutes-No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1794.53	93.91	Initial Hydro-static
2	88.18	93.96	Open To Flow (1)
31	91.42	95.31	Shut-In(1)
90	504.70	96.27	End Shut-In(1)
91	88.74	96.74	Open To Flow (2)
140	93.94	98.84	Shut-In(2)
232	386.21	99.81	End Shut-In(2)
233	1712.70	100.21	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
25.00	mud	0.35

Gas Rates

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



DRILL STEM TEST REPORT

F.G Holl Company L.L.C

17-20s-13w Barton

9431 E Central Ste 100 Wichita KS 67206+2563

Panning "A" #1-17

ATTN: Ryan Greenbaum

Job Ticket: 18525

DST#: 5

Test Start: 2013.11.22 @ 13:38:00

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 15:03:30

Time Test Ended: 20:26:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Jared Scheck

Unit No: 3330-Great Bend-10

Interval: 3415.00 ft (KB) To 3510.00 ft (KB) (TVD)

Reference Elevations: 1879.00 ft (KB)

Total Depth: 3510.00 ft (KB) (TVD)

1871.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 6748

Press @ RunDepth: 390.52 psia @ ft (KB)

Capacity: 5000.00 psia

Start Date: 2013.11.22

End Date: 2013.11.22

Last Calib.: 2013.11.22

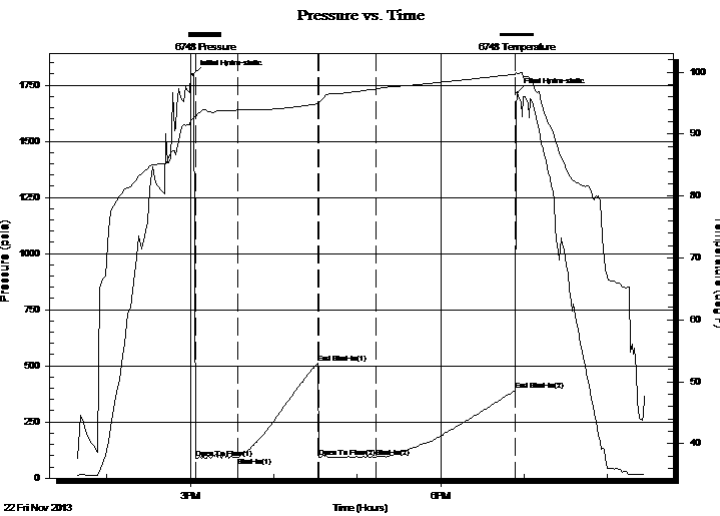
Start Time: 13:38:00

End Time: 20:26:30

Time On Btm: 2013.11.22 @ 15:02:00

Time Off Btm: 2013.11.22 @ 18:55:00

TEST COMMENT: 1st Opening 30 Minutes-Weak blow built 1 3/4 into water in 30 minutes
 1st Shut-in 60 Minutes-No blow back
 2nd Opening 45 Minutes-Weak blow built 3/4 inch into bucket water in 45 minutes
 2nd Shut-in 90 Minutes-No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1796.90	92.53	Initial Hydro-static
2	87.41	92.90	Open To Flow (1)
32	92.28	93.88	Shut-In(1)
90	511.76	94.87	End Shut-In(1)
91	91.30	95.12	Open To Flow (2)
132	94.24	97.27	Shut-In(2)
232	390.52	99.67	End Shut-In(2)
233	1716.19	99.72	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
25.00	mud	0.35

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

F.G Holl Company L.L.C

17-20s-13w Barton

9431 E Central Ste 100 Wichita KS 67206+2563

Panning "A" #1-17

Job Ticket: 18525

DST#: 5

ATTN: Ryan Greenbaum

Test Start: 2013.11.22 @ 13:38:00

Tool Information

Drill Pipe:	Length: 3401.00 ft	Diameter: 3.80 inches	Volume: 47.71 bbl	Tool Weight: 1000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 47.71 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial 49000.00 lb
Depth to Top Packer:	3415.00 ft			Final 49000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	95.00 ft			
Tool Length:	124.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:				

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3387.00	
Shut-In Tool	5.00			3392.00	
Hydroic Tool	5.00			3397.00	
Jars	6.00			3403.00	
Safety Joint	2.00			3405.00	
Packer	5.00			3410.00	29.00 Bottom Of Top Packer
Packer	5.00			3415.00	
Perforations	3.00			3418.00	
Change Over Sub	0.75			3418.75	
Drill Pipe	63.50			3482.25	
Change Over Sub	0.75			3483.00	
Perforations	20.00			3503.00	
Recorder	1.00		Inside	3504.00	
Recorder	1.00		Outside	3505.00	
Bullnose	5.00			3510.00	95.00 Bottom Packers & Anchor

Total Tool Length: 124.00



DRILL STEM TEST REPORT

FLUID SUMMARY

F.G Holl Company L.L.C

17-20s-13w Barton

9431 E Central Ste 100 Wichita KS 67206+2563

Panning "A" #1-17

Job Ticket: 18525

DST#: 5

ATTN: Ryan Greenbaum

Test Start: 2013.11.22 @ 13:38:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 10.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 44.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 11.20 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psia

Salinity: 9200.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
25.00	mud	0.351

Total Length: 25.00 ft Total Volume: 0.351 bbl

Num Fluid Samples: 0

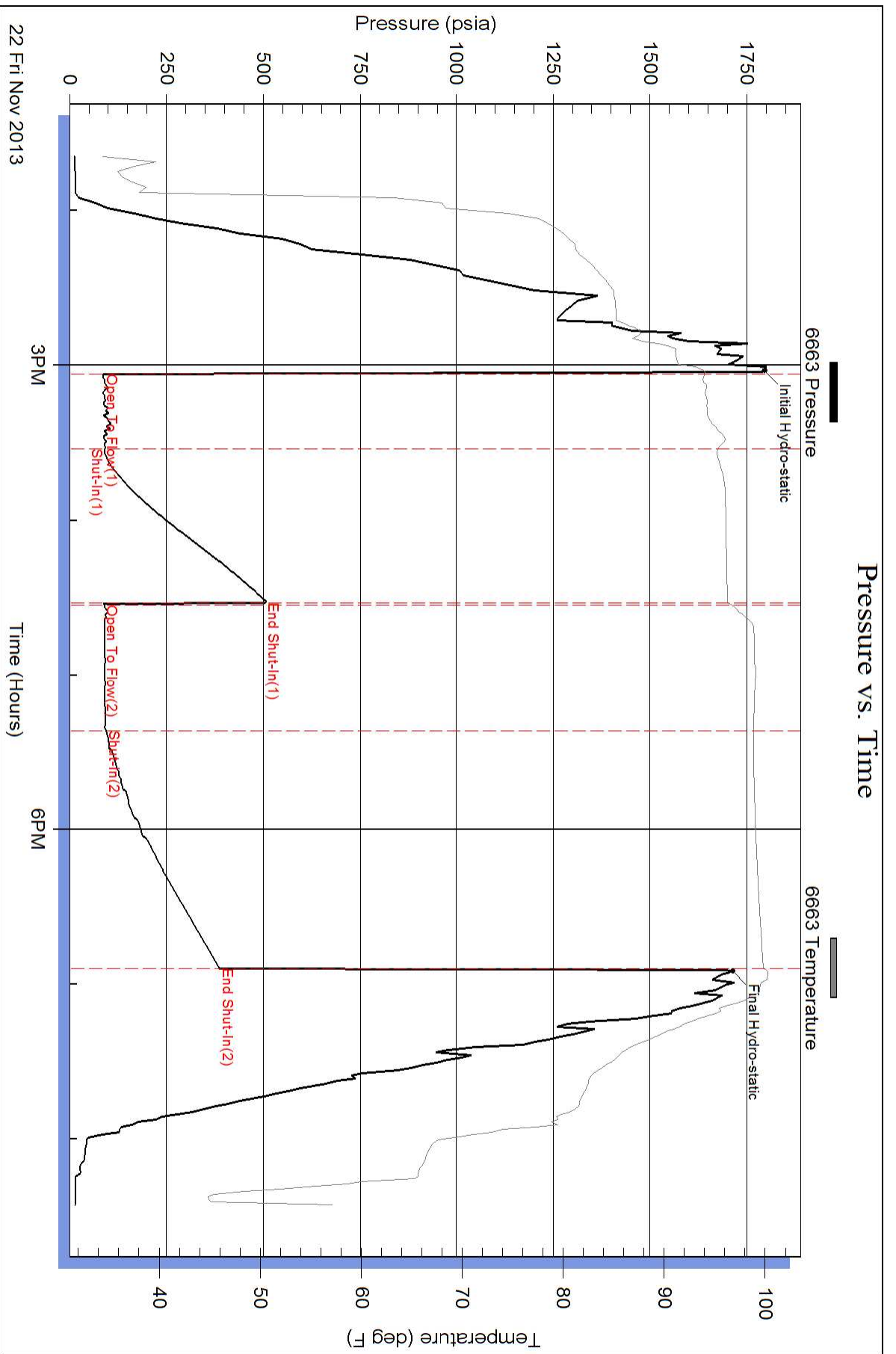
Num Gas Bombs: 0

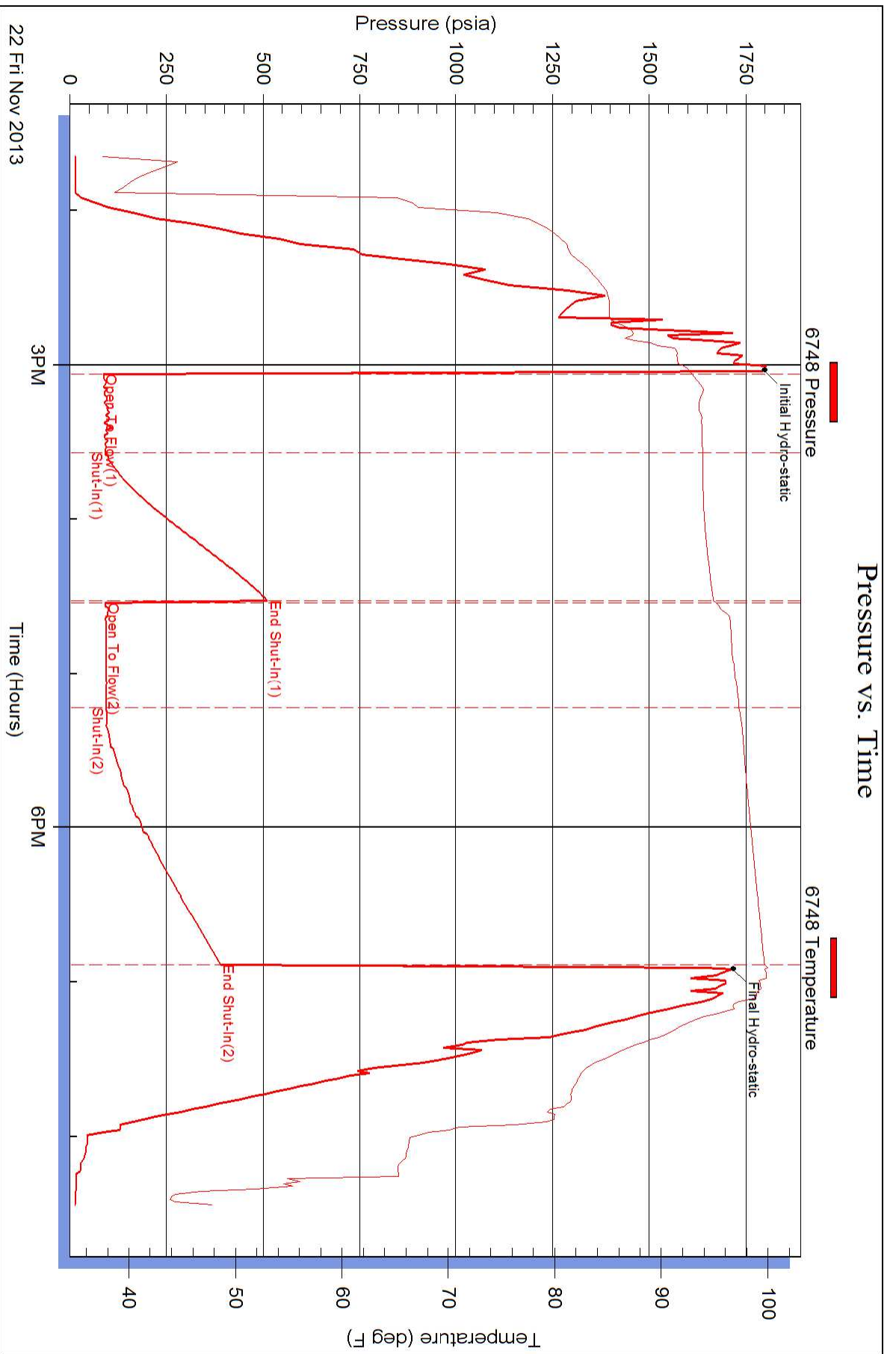
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







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10244 NE Hwy. 61
P.O. Box 8613
Pratt, Kansas 67124
Phone 620-672-1201

FIELD SERVICE TICKET
1718 09374 A

DATE _____ TICKET NO. _____

DATE OF JOB: 11-29-15	DISTRICT: P/100	NEW WELL <input checked="" type="checkbox"/>	OLD WELL <input type="checkbox"/>	PROD <input type="checkbox"/>	INJ <input type="checkbox"/>	WDW <input type="checkbox"/>	CUSTOMER ORDER NO.:			
CUSTOMER: F.G. Hall Co. LLC	LEASE: Panning A	WELL NO. 1-17								
ADDRESS:	COUNTY: Barton	STATE: KS								
CITY:	STATE:	SERVICE CREW: MATT, NATHAN, JASON								
AUTHORIZED BY:	JOB TYPE: CWL LS									
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM	PM	TIME
19889/1989						ARRIVED AT JOB	11-29-15			11:00
						START OPERATION				11:00
						FINISH OPERATION				11:00
						RELEASED				11:40
						MILES FROM STATION TO WELL				5.0

CONTRACT CONDITIONS: (This contract must be signed before the job is commenced or merchandise is delivered).

The undersigned is authorized to execute this contract as an agent of the customer. As such, the undersigned agrees and acknowledges that this contract for services, materials, products, and/or supplies includes all of and only those terms and conditions appearing on the front and back of this document. No additional or substitute terms and/or conditions shall become a part of this contract without the written consent of an officer of Basic Energy Services I.P.

SIGNED: X PIR
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
CF 105	AA-2	50	175		
CF 103	60/40 FAZ	30	75		
CC 102	CELLULOSE	10	40		
CC 101	C-418	10	40		
CC 111	SALT	10	710		
CC 129	FIA-302	10	165		
CC 201	9.15000	10	2125		
CF 600	AA-2	50	175		
CF 1125	AA-2	50	175		
CF 1650	AA-2	50	175		
CF 1700	AA-2	50	175		
CF 200	AA-2	50	175		
CC 158	SALT	500	350		

SUB TOTAL 10

CHEMICAL / ACID DATA:			

SERVICE & EQUIPMENT	%TAX ON \$	
MATERIALS	%TAX ON \$	
TOTAL		

SERVICE REPRESENTATIVE: <u>MATT BARTON</u>	THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: <u>X PIR</u>
--	--

(WELL OWNER OPERATOR CONTRACTOR OR AGENT)

FIELD SERVICE ORDER NO.



10244 NE Hwy. 61
 P.O. Box 8613
 Pratt, Kansas 67124
 Phone 620-672-1201

FIELD SERVICE TICKET

1718 ~~09375~~ A

CONTINUATION OF 09374A

DATE OF JOB 11-25-13	DISTRICT	NEW WELL <input checked="" type="checkbox"/>	OLD WELL <input type="checkbox"/>	PROD <input type="checkbox"/>	INJ <input type="checkbox"/>	WDW <input type="checkbox"/>	CUSTOMER ORDER NO.:
CUSTOMER FG Holl co. LLC	ADDRESS	LEASE PANNING A		WELL NO. 117			
CITY	STATE	COUNTY Barton	STATE KS				
AUTHORIZED BY		SERVICE CREW MATTAI, MAQUET, PIERSON					
EQUIPMENT#		HRS		EQUIPMENT#		HRS	
JOB TYPE: CON LS		TRUCK CALLED		DATE	AM	PM	TIME
		ARRIVED AT JOB			AM	PM	
		START OPERATION			AM	PM	
		FINISH OPERATION			AM	PM	
		RELEASED			AM	PM	
		MILES FROM STATION TO WELL			AM	PM	

CONTRACT CONDITIONS: (This contract must be signed before the job is commenced or merchandise is delivered).
 The undersigned is authorized to execute this contract as an agent of the customer. As such, the undersigned agrees and acknowledges that this contract for services, materials, products, and/or supplies includes all of and only those terms and conditions appearing on the front and back of this document. No additional or substitute terms and/or conditions shall become a part of this contract without the written consent of an officer of Basic Energy Services LP.

SIGNED: V. Rob. [Signature]
 (WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
E 100	P.U. miles				
E 101	Heavy eq. miles	ML	50		
E 113	P.O.P + Bulk Del	ML	100		
CE 204	Depth charge 3001-4000'	FM	675		
CE 240	Bleed + mix charge	4hrs	1		
CE 501	CSNG Swivel rental	SK	250		
CE 504	PIHG CONT. UTILIZATION	PC	1		
S 003	Service Supervisor	ch	1		
		PC	1		

CHEMICAL / ACID DATA:			

SUB TOTAL	
SERVICE & EQUIPMENT	%TAX ON \$
MATERIALS	%TAX ON \$
TC	

SERVICE REPRESENTATIVE Mike Mattai	THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: <u>V. Rob. [Signature]</u> (WELL OWNER OPERATOR CONTRACTOR OR AGENT)
FIELD SERVICE ORDER NO.	

Customer	FG Holl Co. LLC	Lease No.		Date	11-25-13
Lease	Panning A	Well #	1-17		
Field Order #	9374	Station	PRATT	Casing	4 1/2
				Depth	3649
Type Job	CNW L.S.	Formation		County	BARON
				State	MS
				Legal Description	17-20-13

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size	4 1/2	Tubing Size		Acid	175 SK AAR	RATE	PRESS	ISIP
Depth	3649	From	To	Pre Pad	175 AAR 320	Max	10	5 Min.
Volume	58.02	From	To	Pad	75 SK 60/10			10 Min.
Max Press	1500	From	To	Frac		Avg		15 Min.
Well Connection	Annulus Vol.	From	To			HHP Used		Annulus Pressure
Plug Depth	Packer Depth	From	To	Flush		Gas Volume		Total Load

Customer Representative	RW Long	Station Manager	Kevin Goddley	Treater	Mike Martin
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Service Units	37586	19889	19843	19826	73768
Driver Names	MATTI	MARQUEZ		PICCOLO	

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
4:00A					ON LOCATION / SAVING MATERIAL
6:10					RUN 4 1/2 casing, outside of 83
					CONNS. ON 4, 5, 6, 8, 9, 10, 11, 12
8:02					ON LOCATION
8:15					HOWEVER TO CASING / DOWN TO 1000 FT
					CIRCULATION 2 HOURS
10:20	200		5	5	PUMP 5 BBL H2O
10:21	200		12	5	PUMP 12 BBL 500 PPM
10:22	200		5	5	PUMP 5 BBL H2O
10:26	300		5	5	MIX 25 SK SODIUM
10:27	200		43	4	MIX 175 SK AAR
10:37					WASH PUMP 200 PPM PLUG
10:43	300			6	START DISPERSED
10:50	600		48	5	5 BBL @ 600 PSI
10:50	400		45	3	SLOW RATE TO 300 PSI (10 400 PSI 500 1000-12)
10:52	500/1200		58		MIX WITH 500 PSI (10 1200 PSI)
					CALCULATED PLUG PLUG 600
					CALL THEM TO
					JUST COMPLETE
					THANK YOU
					M, W, M, T, W, T



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10244 NE Hwy. 61
P.O. Box 8613
Pratt, Kansas 67124
Phone 620-672-1201

FIELD SERVICE TICKET
1718 09532 A

DATE _____ TICKET NO. _____

17-205-13W

DATE OF JOB: 11-15-13	DISTRICT: Pratt, Kansas	NEW WELL <input checked="" type="checkbox"/>	OLD WELL <input type="checkbox"/>	PROD <input type="checkbox"/>	INJ <input type="checkbox"/>	WDW <input type="checkbox"/>	CUSTOMER ORDER NO.:		
CUSTOMER: F.G. Hall Company, LLC	LEASE: Panning A	WELL NO: 17							
ADDRESS:	COUNTY: Barton	STATE: Kansas							
CITY:	STATE:	SERVICE CREW: C. Messick, M. McGraw, S. Young							
AUTHORIZED BY:	JOB TYPE: C/M/W - Surface								
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM/PM	TIME
37900	.75						11-15-13	AM	7:00
						ARRIVED AT JOB		AM	9:15
7766-19905	.75					START OPERATION		AM	11:15
						FINISH OPERATION		AM	12:00
19831-19862	.75					RELEASED	11-15-13	AM	12:00
						MILES FROM STATION TO WELL			50

CONTRACT CONDITIONS: (This contract must be signed before the job is commenced or merchandise is delivered).

The undersigned is authorized to execute this contract as an agent of the customer. As such, the undersigned agrees and acknowledges that this contract for services, materials, products, and/or supplies includes all of and only those terms and conditions appearing on the front and back of this document. No additional or substitute terms and/or conditions shall become a part of this contract without the written consent of an officer of Basic Energy Services LP.

SIGNED: [Signature]
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
CP101	A Conc Blend Cement	sh	175		
CP100	Common Cement	sh	175		
CC102	Cellulose	Lb	88		
CC109	Calcium Chloride	Lb	825		
CF109	Top Rubber Plug, 8 5/8"	ea	1		
CF1753	Centralizer, 8 5/8"	ea	3		
CC131	Sugar	Lb	100		
E109	Bucket Mileage	m	50		
E101	Heavy Equipment Mileage	m	100		
E113	Bulk Delivery	tm	825		
CE201	Cement Pump: 500 Feet To 1,000 Feet	hrs	4		
CE240	Bleeding and Service	sh	350		
CE504	Plug Container	Job	1		
S003	Service Supervisor	hrs	8		

SUB TOTAL

CHEMICAL / ACID DATA:			

SERVICE & EQUIPMENT	%TAX ON \$		
MATERIALS	%TAX ON \$		
TOTAL			

SERVICE REPRESENTATIVE: <u>[Signature]</u>	THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: <u>[Signature]</u>
FIELD SERVICE ORDER NO. _____	(WELL OWNER OPERATOR CONTRACTOR OR AGENT)



Energy services, L.P.

TREATMENT REPORT

Customer G. Holl Company, LLC	Lease No.	Date 11-15-13
Lease Panning "A"	Well # 1-17	
Field Order # 9532	Station Pratt, Kansas	Casing 8 7/8 23lb
Type Job C.N.W. - Surface	Depth 764 Feet	County Barton
	Formation	State Kansas
		Legal Description 17-205-13W

PIPE DATA		PERFORATING DATA		CEMENT USED		TREATMENT RESUME		
Casing Size 8 7/8 23lb/ft	Tubing Size	Shots/Ft	175 sacks	A-CON with	38 Calcium chloride	RATE	PRESS	ISIP
Depth 764 Feet	Depth	From	To	12 lb/gal	14.49 Gal/st	2.47	5 Min	50 FT/st
Volume 48.6 Bbl	Volume	From	To	175 sacks common with	25 Calcium chloride		10 Min	25 lb/st cell floater
Max Press 3000 PSI	Max Press	From	To	15.6 lb/gal	5.23 Gal/st		15 Min	20 CV FT/st
Well Connection Plug Container	Annulus Vol.	From	To		HHP Used			Annulus Pressure
Plug Depth 764 Feet	Packer Depth	From	To	Flush 47.6 Bbl Fresh water	Gas Volume			Total Load

Customer Representative Dean	Station Manager Kevin Gordley	Treater Clarence R. Messick
---------------------------------	----------------------------------	--------------------------------

Service Units	37,900	77,696	19,905	19,931	19,862
Driver Names	Messick	McGraw	Young		

Time	Am	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
9:15						Trucks on location and hold safety meeting.
10:15						Dutco Drilling start to run 18 joints new 23lb/ft 8 7/8 casing. A Basket was installed above collar # 1, 9, and # 12. A centralizer was installed on
11:10						Casing in well. Circulate for 5 minutes
11:20		250			6	Start Fresh water PreFlush
		250		10	6	Start mixing 175 sacks A-CON Blend cement
		175		87	5	Start mixing 175 sacks common cement
		-0-		124		Stop pumping. Shut in well Release Top Rubber Plug. Open well.
11:46		150			5	Start Fresh water Displacement
11:55		300		47.6		Plug down. Shut in well. Circulated 20 Bbl. cement to the pit. Washup pump truck
12:30						Job complete. Thank You. Clarence, Mitre, Steve