



KANSAS CORPORATION COMMISSION 1151450
OIL & GAS CONSERVATION DIVISION

Form ACO-1

June 2009

Form Must Be Typed

Form must be Signed

All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

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

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

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

- Deepening Re-perf. Conv. to ENHR Conv. to SWD
- Conv. to GSW
- Plug Back: _____ Plug Back Total Depth _____
- 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

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total 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

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

1151450



Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. R. _____ East West County: _____

INSTRUCTIONS: Show important tops and base 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. Attach complete copy of all Electric Wire-line Logs surveyed. Attach final geological well site report.

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 Electric Log Submitted Electronically <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(If no, Submit Copy)</i> List All E. Logs Run:	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum
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CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
_____ Perforate _____ Protect Casing _____ Plug Back TD _____ Plug Off Zone				

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 Bbbs.	Gas Mcf	Water Bbbs.	Gas-Oil Ratio	Gravity
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DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____ <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Pickrell Drilling Company, Inc.
Well Name	Popp 'G' 1
Doc ID	1151450

Tops

Name	Top	Datum
T/Anh	1798	+ 679
B/Anh	1828	+ 649
Heebner	3774	-1297
Lansing	3814	-1337
Stark	4054	-1577
Pawnee	4244	-1767
Fort Scott	4310	-1833
Cherokee Shale	4334	-1857
Mississippi	4406	-1929
Misasissippi Porosity	4430	-1953
LTD	4499	



DRILL STEM TEST REPORT

Prepared For: **Pickrell Drilling Company Inc.**

100 South Main Ste.505
Wichita Kansas 67202

ATTN: Jerry Smith

Popp G #1

30-17s-25w-Ness

Start Date: 2013.06.29 @ 11:01:00

End Date: 2013.06.29 @ 19:14:30

Job Ticket #: 17527 DST #: 4

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

Printed: 2013.06.29 @ 17:37:15



DRILL STEM TEST REPORT

Pickrell Drilling Company Inc.

30-17s-25w-Ness

100 South Main Ste.505
Wichita Kansas 67202

Popp G #1

Job Ticket: 17527

DST#: 4

ATTN: Jerry Smith

Test Start: 2013.06.29 @ 11:01:00

GENERAL INFORMATION:

Formation: **Mississippian**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 12:36:00

Time Test Ended: 19:14:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Dustin Ellis

Unit No: 3315-Scott City-110

Interval: 4448.00 ft (KB) To 4461.00 ft (KB) (TVD)

Reference Elevations: 2484.00 ft (KB)

Total Depth: 4461.00 ft (KB) (TVD)

2477.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 7.00 ft

Serial #: 6806 Outside

Press @ Run Depth: 93.73 psia @ 4458.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2013.06.29

End Date:

2013.06.29

Last Calib.:

2013.06.29

Start Time:

11:01:00

End Time:

19:14:30

Time On Btm:

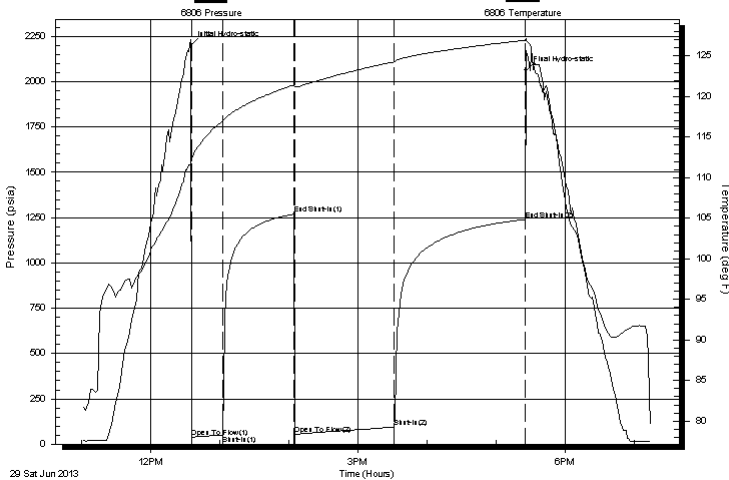
2013.06.29 @ 12:35:00

Time Off Btm:

2013.06.29 @ 17:26:00

TEST COMMENT: 1st Open 30 minutes Fair building blow built to 3 inches.
1st Shut in 60 minutes No blow back.
2nd Open 90 minutes Fair building blow built to 5 inches into a 5 gallon bucket of water.
2nd Shut in 90 minutes No blow back

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	2199.65	112.15	Initial Hydro-static
1	39.03	112.33	Open To Flow (1)
28	51.31	116.91	Shut-In(1)
90	1269.97	121.46	End Shut-In(1)
91	55.72	121.19	Open To Flow (2)
178	93.73	124.28	Shut-In(2)
291	1240.12	126.93	End Shut-In(2)
291	2062.80	127.16	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
90.00	Water 100%	1.26
30.00	Mud 100%	0.42
0.00	Chlorides 22,000 .3ohms @56degrees	0.00

Gas Rates

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



DRILL STEM TEST REPORT

Pickrell Drilling Company Inc.

30-17s-25w-Ness

100 South Main Ste.505
Wichita Kansas 67202

Popp G #1

Job Ticket: 17527

DST#: 4

ATTN: Jerry Smith

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GENERAL INFORMATION:

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Time Test Ended: 19:14:30

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Tester: Dustin Ellis

Unit No: 3315-Scott City-110

Interval: 4448.00 ft (KB) To 4461.00 ft (KB) (TVD)

Reference Elevations: 2484.00 ft (KB)

Total Depth: 4461.00 ft (KB) (TVD)

2477.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 7.00 ft

Serial #: 6839 Inside

Press @ Run Depth: 1240.16 psia @ 4457.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2013.06.29

End Date: 2013.06.29

Last Calib.: 2013.06.29

Start Time: 11:01:00

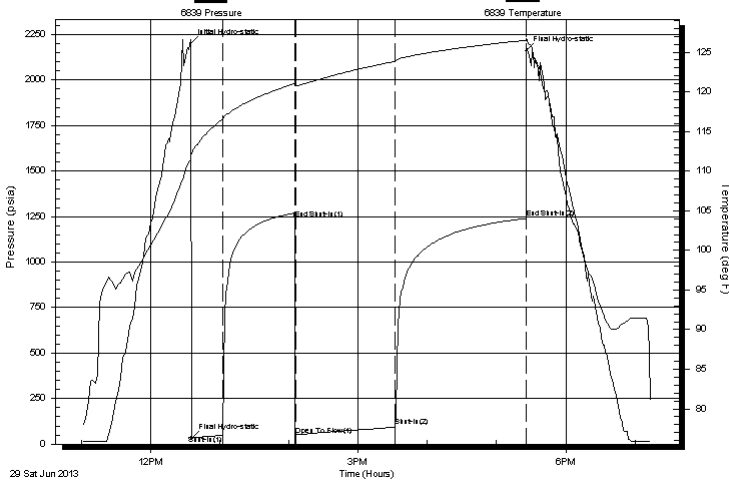
End Time: 19:14:00

Time On Btm: 2013.06.29 @ 12:35:00

Time Off Btm: 2013.06.29 @ 12:35:30

TEST COMMENT: 1st Open 30 minutes Fair building blow built to 3 inches.
1st Shut in 60 minutes No blow back.
2nd Open 90 minutes Fair building blow built to 5 inches into a 5 gallon bucket of water.
2nd Shut in 90 minutes No blow back

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	2201.39	112.28	Initial Hydro-static
1	33.57	112.15	Final Hydro-static
28	48.94	116.53	Shut-In(1)
90	1237.98	121.04	End Shut-In(1)
91	50.97	120.75	Open To Flow (1)
177	97.62	123.85	Shut-In(2)
291	1240.16	126.51	End Shut-In(2)
291	2159.17	126.74	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
90.00	Water 100%	1.26
30.00	Mud 100%	0.42
0.00	Chlorides 22,000 .3ohms @56degrees	0.00

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

Pickrell Drilling Company Inc.

30-17s-25w-Ness

100 South Main Ste.505
Wichita Kansas 67202

Popp G #1

Job Ticket: 17527

DST#: 4

ATTN: Jerry Smith

Test Start: 2013.06.29 @ 11:01:00

Tool Information

Drill Pipe:	Length: 4428.00 ft	Diameter: 3.80 inches	Volume: 62.11 bbl	Tool Weight: 2000.00 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: 75000.00 lb
			<u>Total Volume: 62.11 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	8.00 ft			String Weight: Initial 65000.00 lb
Depth to Top Packer:	4448.00 ft			Final 65000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	13.00 ft			
Tool Length:	41.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut-In Tool	5.00			4425.00	
Hydraulic Tool	5.00			4430.00	
Jars	6.00			4436.00	
Safety Joint	2.00			4438.00	
Packer	5.00			4443.00	28.00 Bottom Of Top Packer
Packer	5.00			4448.00	
Anchor	8.00			4456.00	
Recorder	1.00	6839	Inside	4457.00	
Recorder	1.00	6806	Outside	4458.00	
Bull Plug	3.00			4461.00	13.00 Bottom Packers & Anchor
Total Tool Length:	41.00				



DRILL STEM TEST REPORT

FLUID SUMMARY

Pickrell Drilling Company Inc.

30-17s-25w-Ness

100 South Main Ste.505
Wichita Kansas 67202

Popp G #1

Job Ticket: 17527

DST#: 4

ATTN: Jerry Smith

Test Start: 2013.06.29 @ 11:01:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 50.00 sec/qt
Water Loss: 8.79 in³
Resistivity: ohm.m
Salinity: 2000.00 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
90.00	Water 100%	1.262
30.00	Mud 100%	0.421
0.00	Chlorides 22,000 .3ohms @56degrees	0.000

Total Length: 120.00 ft Total Volume: 1.683 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

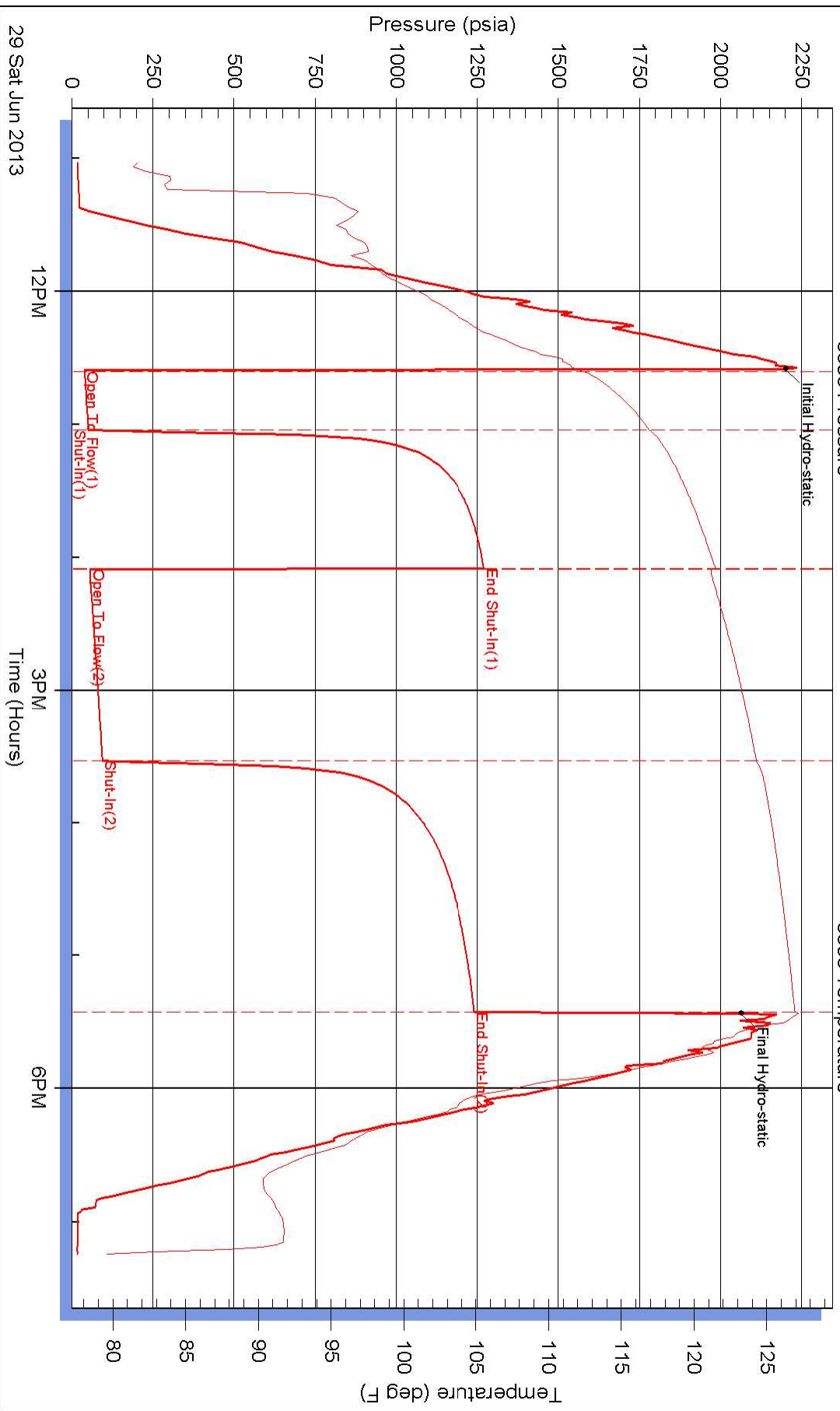
Serial #:

Laboratory Name:

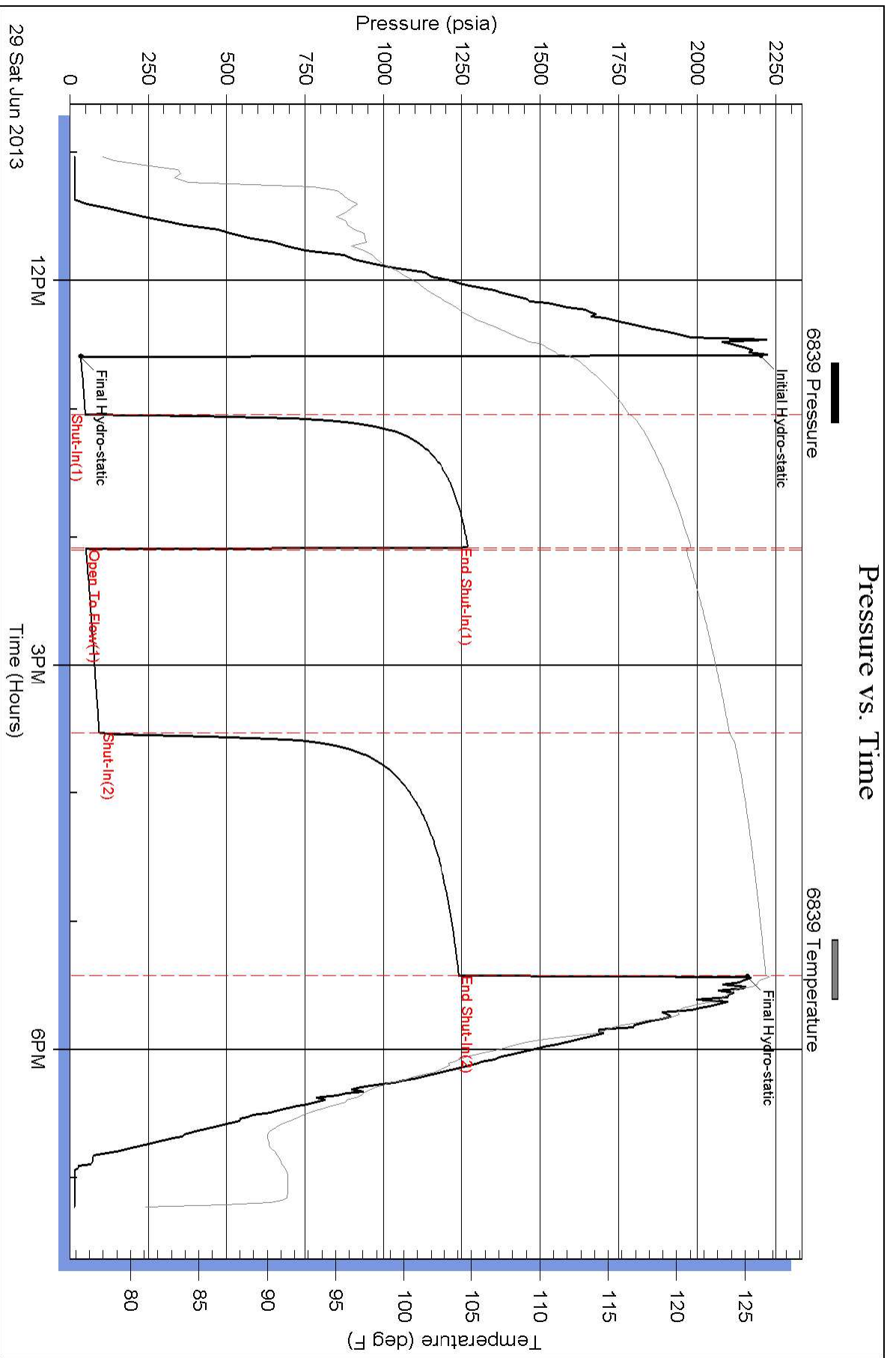
Laboratory Location:

Recovery Comments:

Pressure vs. Time



Pressure vs. Time



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

SERVICE POINT: West Bend Kc

DATE <u>6-20-13</u>	SEC. <u>30</u>	TWP. <u>17</u>	RANGE <u>25</u>	CALLLED OUT	ON LOCATION <u>10-19-13</u> <u>9:30 AM</u>	JOB START <u>7:00 AM</u>	JOB FINISH <u>7:30 AM</u>
LEASE <u>POPP</u>	WELL <u>"6" #1</u>	LOCATION <u>land 1/2 sec to H. Rd.</u>	COUNTY <u>Wash</u>	STATE <u>Kc</u>			
OLD OR NEW (Circle one)		<u>7 south to 200 N, 1/2 west S/4</u>					

CONTRACTOR Piedrell OWNER Same 1-01 6.3

TYPE OF JOB Surface

HOLE SIZE <u>12 1/4"</u>	I.D. <u>225'</u>
CASING SIZE <u>8 3/8"</u>	DEPTH <u>220'</u>
TUBING SIZE	DEPTH
DRILL PIPE	DEPTH
TOOL	DEPTH
PRES. MAX	MINIMUM
MEAS. LINE	SHOE JOINT
CEMENT LEFT IN CSG. <u>15</u>	
PERFS.	
DISPLACEMENT	

CEMENT AMOUNT ORDERED 150 lbs Class A
32cc 25 ml

EQUIPMENT

PUMP TRUCK # <u>57</u>	CEMENTER <u>Tom Richard</u>
	HELPER <u>Kevin Edgley</u>
BULK TRUCK # <u>57-198</u>	DRIVER <u>David Lopez</u>
BULK TRUCK #	DRIVER

COMMON	<u>150</u>	@ <u>17.90</u>	<u>2,685.00</u>
POZMIX		@	
GEL	<u>3</u>	@ <u>23.40</u>	<u>70.20</u>
CHLORIDE	<u>5</u>	@ <u>64.00</u>	<u>320.00</u>
ASC		@	
HANDLING	<u>162.09</u>	@ <u>2.48</u>	<u>401.98</u>
MILEAGE	<u>7.4 x 19 x</u>	<u>2.40</u>	<u>365.56</u>
			TOTAL <u>3,842.74</u>

REMARKS:
Ran 220' of 8 3/8 casing. Made line
mixed 150 lb class A cement 32cc 25 ml
Displaced with H₂O.

140.60 SERVICE

DEPTH OF JOB <u>220'</u>	
PUMP TRUCK CHARGE	<u>1512.25</u>
EXTRA FOOTAGE	@
MILEAGE <u>Hour 19</u>	@ <u>7.70</u> <u>146.30</u>
MANIFOLD <u>Hour 19</u>	@ <u>4.40</u> <u>83.60</u>
TOTAL <u>1,742.15</u>	

Cement did circulate
1 hour

CHARGE TO: Piedrell

STREET _____

CITY _____ STATE _____ ZIP _____

PLUG & FLOAT EQUIPMENT

_____	@	_____
_____	@	_____
_____	@	_____
_____	@	_____
_____	@	_____
_____	@	_____

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.

TOTAL _____

SALES TAX (If Any) 193.73

TOTAL CHARGES 5,584.82

DISCOUNT 1,396.22 IF PAID IN 30 DAYS

4,188.60

PRINTED NAME X Mike Kohn

SIGNATURE X [Signature]

ALLIED OIL & GAS SERVICES, LLC 060521

Federal Tax I.D. # 20-8651475

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

SERVICE POINT: Grant Bend

DATE <u>6-30-13</u>	SEC <u>30</u>	TWP <u>17</u>	RANGE <u>25</u>	CALLED OUT	ON LOCATION	JOB START	JOB FINISH
LEASE <u>POPP 6</u>	WELL # <u>i</u>	LOCATION <u>Laird to west to HRd 7N</u>			COUNTY <u>Mass</u>	STATE <u>OK</u>	
OLD OR NEW (Circle one)		<u>1 1/2 W South into</u>					

CONTRACTOR Pickrell

TYPE OF JOB Rotary plug

HOLE SIZE 12 1/4 T.D.

CASING SIZE 8 5/8 DEPTH

TUBING SIZE DEPTH

DRILL PIPE 4 1/2 DEPTH 13 60

TOOL DEPTH

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT

CEMENT LEFT IN CSG. All

PERFS.

DISPLACEMENT fresh water

EQUIPMENT

PUMP TRUCK CEMENTER John Lewis

398 HELPER Charles Kingon

BULK TRUCK

3044-170 DRIVER Ben Newell

BULK TRUCK

DRIVER

OWNER

CEMENT

AMOUNT ORDERED 230 sks 60% 40%
4 1/2 gal by flo

COMMON	<u>138</u>	@	<u>17.90</u>	<u>2,470.20</u>
POZMIX	<u>92</u>	@	<u>9.35</u>	<u>860.20</u>
GEL	<u>8</u>	@	<u>23.40</u>	<u>187.20</u>
CHLORIDE		@		
ASC		@		
<u>Hoseal</u>	<u>58</u>	@	<u>2.97</u>	<u>172.26</u>
		@		
		@		
		@		
		@		
		@		
		@		
HANDLING	<u>473.03</u>	@	<u>2.48</u>	<u>1,173.05</u>
MILEAGE	<u>10.31 x 19</u>		<u>2.60</u>	<u>509.21</u>
TOTAL				<u>5,373.02</u>

REMARKS:

Fill hole with big mud

#1 18 60 - 50 SK

#2 10 70 ft - 80 SK

#3 250 ft - 50 SK

#4 60 - 20

PH 30 SK

Log down

SERVICE

DEPTH OF JOB	<u>1860</u>			
PUMP TRUCK CHARGE	<u>2249.84</u>			
EXTRA FOOTAGE	@			
MILEAGE <u>Hum 19</u>	@	<u>7.70</u>	<u>146.30</u>	
MANIFOLD	@			
<u>hum 19</u>	@	<u>4.40</u>	<u>83.60</u>	
	@			
TOTAL				<u>2,479.74</u>

CHARGE TO: Pickrell

STREET _____

CITY _____ STATE _____ ZIP _____

PLUG & FLOAT EQUIPMENT

_____	@	_____
_____	@	_____
_____	@	_____
_____	@	_____
_____	@	_____
TOTAL _____		

To: Allied Oil & Gas Services, LLC.

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PRINTED NAME x Bill Skeen

SIGNATURE x Bill Skeen

Thank you

SALES TAX (If Any) _____

TOTAL CHARGES 7,852.76

DISCOUNT 1,963.19

IF PAID IN 30 DAYS

5,889.57