



**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: \_\_\_\_\_



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 Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
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<b>DISPOSITION OF GAS:</b> <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	<b>METHOD OF COMPLETION:</b> <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> _____ <input type="checkbox"/> Other <i>(Specify)</i> _____	<b>PRODUCTION INTERVAL:</b> _____ _____
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## DRILL STEM TEST REPORT

Prepared For: **Mid-Con Operating**

2431 E. 61stST  
Ste850  
Tulsa, Ok 74136-1236

ATTN: Ryan Logsdon

### **Hagerman #13-10**

#### **10-20s-19w Pawnee**

Start Date: 2012.10.22 @ 08:20:20

End Date: 2012.10.22 @ 21:38:45

Job Ticket #: 48580                      DST #: 1

Trilobite Testing, Inc  
PO Box 362 Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620

Printed: 2013.03.14 @ 13:43:44

Mid-Con Operating  
10-20s-19w Pawnee  
Hagerman #13-10  
DST # 1  
SOOY Sand  
2012.10.22



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Mid-Con Operating  
2431 E. 61stST  
Ste850  
Tulsa, Ok 74136-1236  
ATTN: Ryan Logsdon

**10-20s-19w Pawnee**  
**Hagerman #13-10**  
Job Ticket: 48580      **DST#: 1**  
Test Start: 2012.10.22 @ 08:20:20

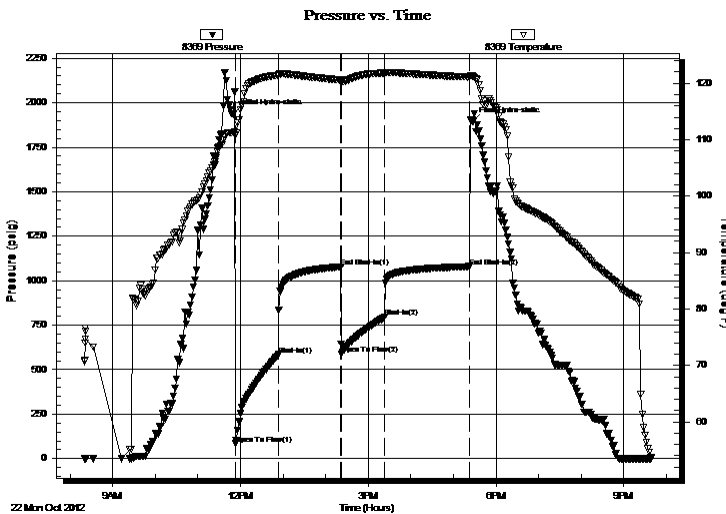
## GENERAL INFORMATION:

Formation: **SOOY Sand**  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 11:52:45  
Time Test Ended: 21:38:45  
Interval: **4147.00 ft (KB) To 4189.00 ft (KB) (TVD)**  
Total Depth: 4189.00 ft (KB) (TVD)  
Hole Diameter: 7.85 inches Hole Condition: Fair  
Reference Elevations: 2244.00 ft (KB)  
2231.00 ft (CF)  
KB to GR/CF: 13.00 ft  
Test Type: Conventional Bottom Hole (Initial)  
Tester: Ray Schwager  
Unit No: 42

**Serial #: 8369      Inside**  
Press @ Run Depth: 794.16 psig @ 4154.00 ft (KB)      Capacity: 8000.00 psig  
Start Date: 2012.10.22      End Date: 2012.10.22      Last Calib.: 2012.10.22  
Start Time: 08:20:20      End Time: 21:38:45      Time On Btm: 2012.10.22 @ 11:49:15  
Time Off Btm: 2012.10.22 @ 17:26:45

**TEST COMMENT:** 60-IFP-strg bl in 3 min  
90-ISIP-no bl bk  
60-FFP-strg bl in 5min  
120FSIP-2 1/2"bl bk

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1936.36	111.28	Initial Hydro-static
4	83.18	110.96	Open To Flow (1)
64	584.10	121.45	Shut-In(1)
152	1077.98	120.57	End Shut-In(1)
153	589.24	120.39	Open To Flow (2)
214	794.16	121.85	Shut-In(2)
334	1079.54	121.13	End Shut-In(2)
338	1895.55	121.28	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
0.00	930'GIP	0.00
279.00	CO	1.37
372.00	GMMWCO 30%G10%W20%M40%O	2.37
1302.00	Water	18.26

## Gas Rates

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





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Mid-Con Operating

**10-20s-19w Pawnee**

2431 E. 61stST  
Ste850  
Tulsa, Ok 74136-1236  
ATTN: Ryan Logsdon

**Hagerman #13-10**

Job Ticket: 48580

**DST#: 1**

Test Start: 2012.10.22 @ 08:20:20

## Tool Information

Drill Pipe:	Length: 3552.00 ft	Diameter: 3.80 inches	Volume: 49.83 bbl	Tool Weight: 2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 592.00 ft	Diameter: 2.25 inches	Volume: 2.91 bbl	Weight to Pull Loose: 125000.0 lb
			Total Volume: 52.74 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial 96000.00 lb
Depth to Top Packer:	4147.00 ft			Final 106000.0 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	42.00 ft			
Tool Length:	70.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Change Over Sub	1.00			4120.00	
Shut In Tool	5.00			4125.00	
Hydraulic tool	5.00			4130.00	
Jars	5.00			4135.00	
Safety Joint	2.00			4137.00	
Packer	5.00			4142.00	28.00 Bottom Of Top Packer
Packer	5.00			4147.00	
Stubb	1.00			4148.00	
Perforations	6.00			4154.00	
Recorder	0.00	8369	Inside	4154.00	
Recorder	0.00	8700	Outside	4154.00	
Blank Spacing	32.00			4186.00	
Bullnose	3.00			4189.00	42.00 Bottom Packers & Anchor

**Total Tool Length: 70.00**



**TRILOBITE**  
**TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Mid-Con Operating

**10-20s-19w Pawnee**

2431 E. 61stST  
Ste850  
Tulsa, Ok 74136-1236  
ATTN: Ryan Logsdon

**Hagerman #13-10**

Job Ticket: 48580      **DST#: 1**  
Test Start: 2012.10.22 @ 08:20:20

## Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API: 37 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: 32000 ppm
Viscosity: 50.00 sec/qt	Cushion Volume: bbl	
Water Loss: 7.96 in <sup>3</sup>	Gas Cushion Type:	
Resistivity: ohm.m	Gas Cushion Pressure: psig	
Salinity: 3000.00 ppm		
Filter Cake: 1.00 inches		

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	930'GIP	0.000
279.00	CO	1.372
372.00	GMWCO 30%G10%W20%M40%O	2.367
1302.00	Water	18.264

Total Length: 1953.00 ft      Total Volume: 22.003 bbl

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

Laboratory Name:      Laboratory Location:

Recovery Comments: RW .22@70F



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**GAS RATES**

Mid-Con Operating

**10-20s-19w Pawnee**

2431 E. 61stST  
Ste850  
Tulsa, Ok 74136-1236  
ATTN: Ryan Logsdon

**Hagerman #13-10**

Job Ticket: 48580

**DST#: 1**

Test Start: 2012.10.22 @ 08:20:20

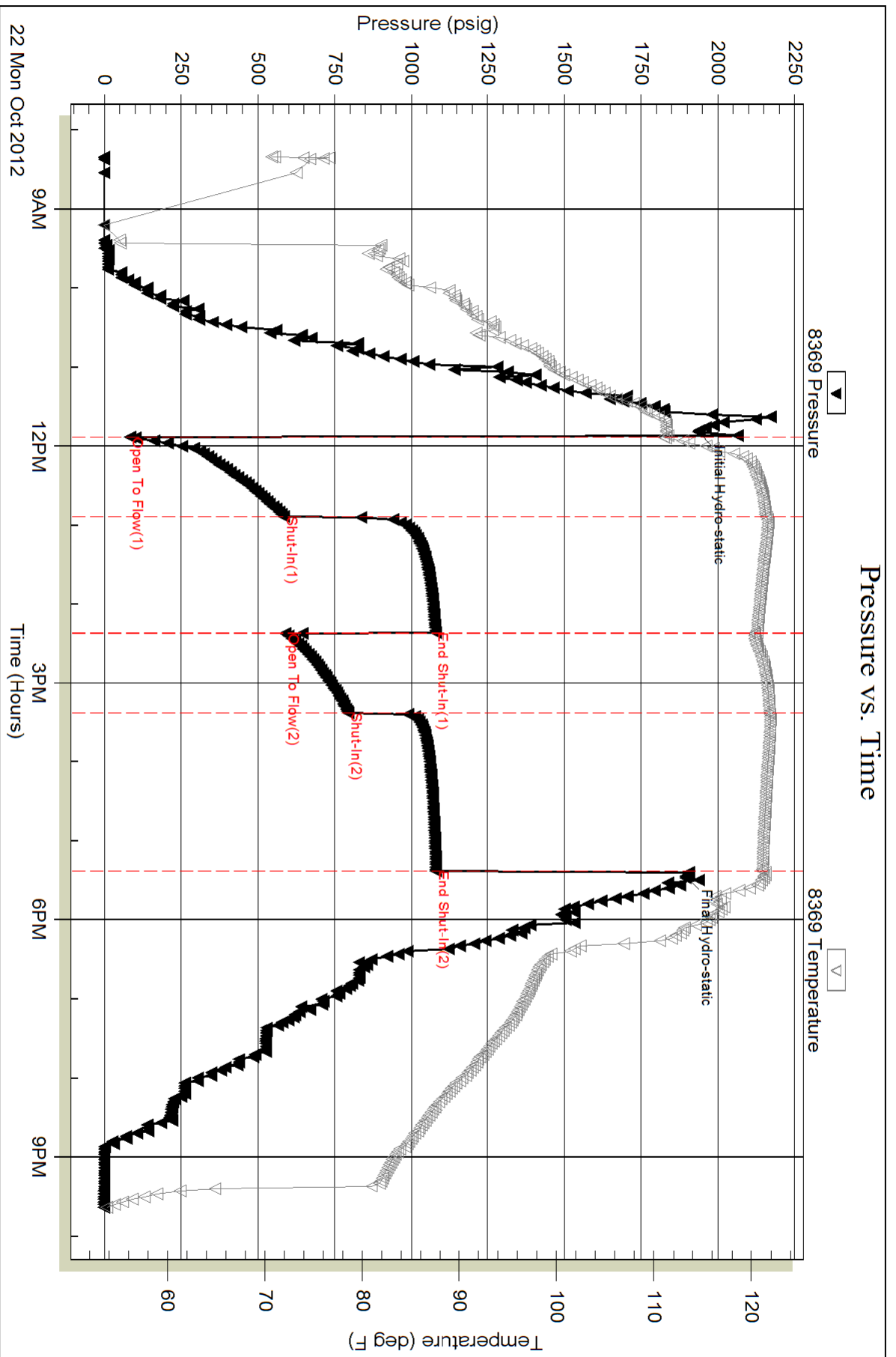
### Gas Rates Information

Temperature: 59 (deg F)  
Relative Density: 0.65  
Z Factor: 0.8

Gas Rates Table

Flow Period	Elapsed Time	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
		0.00	0.00	0.00



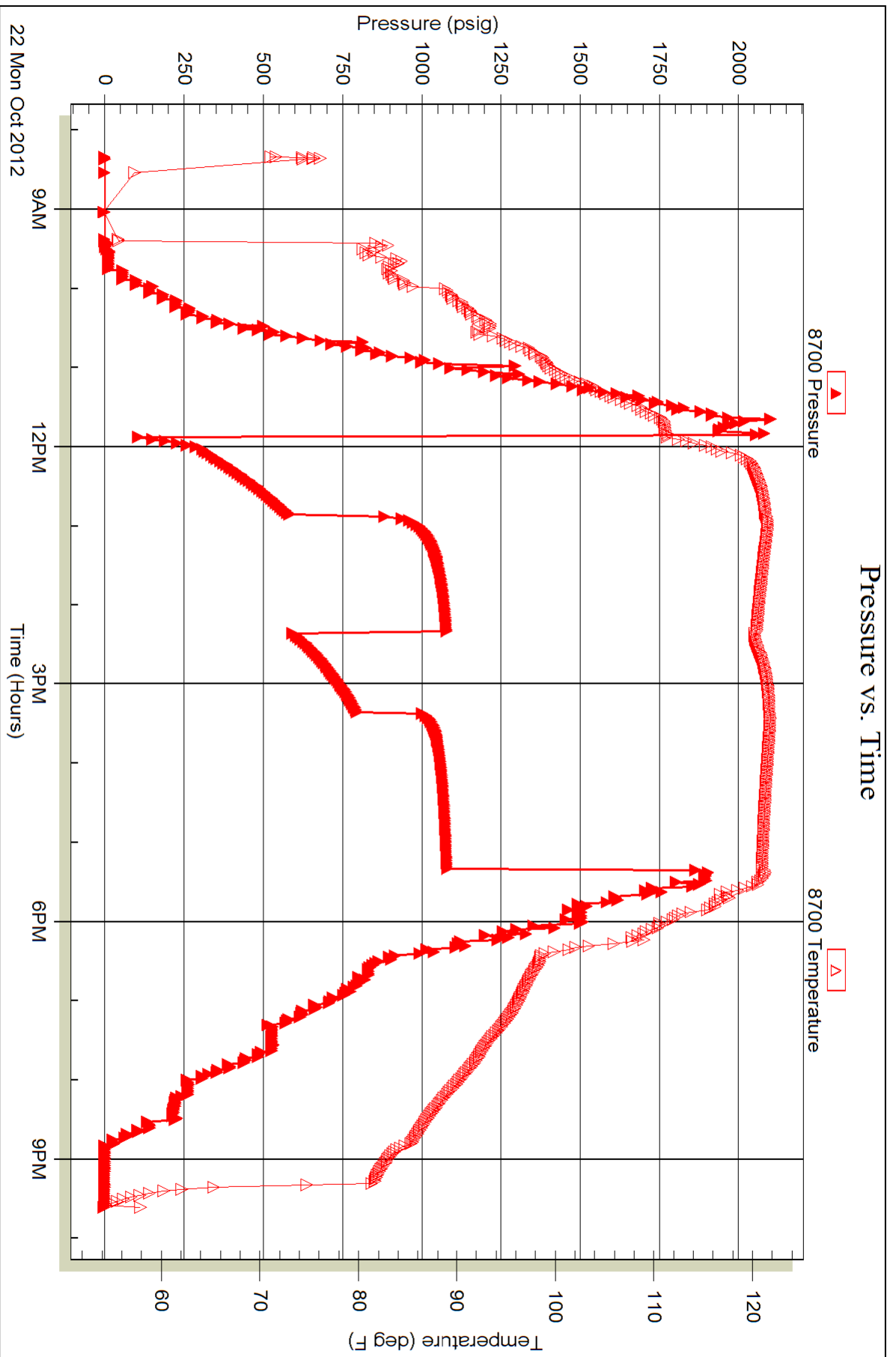


Serial #: 8700

Outside Mid-Con Operating

Hagerman #13-10

DST Test Number: 1



# ALLIED OIL & GAS SERVICES, LLC 059042

Federal Tax I.D.# 20-5975804

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

SERVICE POINT:  
Credit Bend, KS

DATE <u>10-24-12</u>	SEC. <u>10</u>	TWP. <u>205</u>	RANGE <u>19W</u>	CALLED OUT	ON LOCATION <u>2:40 PM</u>	JOB START <u>12:00 AM</u>	JOB FINISH <u>1:00 AM</u>
LEASE <u>Hogman</u>		WELL # <u>13-10</u>		LOCATION <u> Hwy 96W to Wash Center, turn South on 183,000 county line &amp; turn West on 1st (not 2nd)</u>		COUNTY <u>Prumer</u>	STATE <u>KS</u>
OLD OR NEW (Circle one)				For 6 miles, turn North on rd 290 for 4 miles, East into location			

CONTRACTOR Trinidad 215  
 TYPE OF JOB PTA  
 HOLE SIZE 7-7/8" T.D. 4509 FT  
 CASING SIZE 8-5/8" 24" DEPTH 507 FT  
 TUBING SIZE DEPTH  
 DRILL PIPE 4 1/2" 16.6" DEPTH 1432 FT  
 TOOL DEPTH  
 PRES. MAX MINIMUM  
 MEAS. LINE SHOE JOINT  
 CEMENT LEFT IN CSG.  
 PERFS.  
 DISPLACEMENT  
 EQUIPMENT  
 PUMP TRUCK CEMENTER Charles E King  
 # 724 HELPER Josh Isaac & Vori Klumbar  
 BULK TRUCK  
 # 544/198 DRIVER Den Casper  
 BULK TRUCK  
 # DRIVER

OWNER Mid Con  
 CEMENT  
 AMOUNT ORDERED 170 sy 60/40 + 4% Gel  
1.25 75% Flo Seal  
 COMMON 102 @ 17.90 1.825. 80  
 POZMIX 68 @ 9.35 635. 80  
 GEL 6 @ 23.40 140. 40  
 CHLORIDE @  
 ASC @  
1/2 seal 27 @ 2.97 80.19  
 @  
 @  
 @  
 @  
 @  
 @  
 @  
 @  
 @  
 HANDLING 181.8 @ 2.48 450. 80  
 MILEAGE 7.62 x 46 2.60 911. 35  
 TOTAL 4044. 40

REMARKS:  
Plug 1 @ 1432 ft: 6 FW, 12.5 (50 sy) cement, 2 FW  
Plug 2 @ 524 ft: 6 FW, 12.5 (50 sy) cement, 4 FW  
Plug 3 @ 20 ft: 5 FW (20 sy) cement, 1 FW  
Plug Rat Hole with 7.5 bbls (30 sy) cement  
Plug Mouse Hole with 5 bbls (20 sy) cement

SERVICE  
 DEPTH OF JOB 1432  
 PUMP TRUCK CHARGE 2249. 84  
 EXTRA FOOTAGE @  
 MILEAGE Hum 46 @ 7.70 354. 30  
 MANIFOLD @  
Hum 46 @ 4.40 202. 40  
wait time 2 hrs @ 450. 00 900. 00

CHARGE TO: Mid Con  
 STREET \_\_\_\_\_  
 CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

TOTAL 3706. 44

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.

PLUG & FLOAT EQUIPMENT  
 @ \_\_\_\_\_  
 @ \_\_\_\_\_  
 @ \_\_\_\_\_  
 @ \_\_\_\_\_  
 @ \_\_\_\_\_  
 TOTAL \_\_\_\_\_

PRINTED NAME Charles Armer  
 SIGNATURE Charles Armer

SALES TAX (If Any) \_\_\_\_\_  
 TOTAL CHARGES 7.750. 84  
25% 1.937. 21  
 DISCOUNT \_\_\_\_\_ IF PAID IN 30 DAYS  
5.813. 13

Date 10-24-12 District Great Bend Ticket No. 054042  
 Company Mid Con Rig Trinidad 215  
 Lease Hagerman Well No. 13-10  
 County Powder State KS  
 Location South of R. Rush Center Field \_\_\_\_\_

CEMENT DATA:  
 Spacer Type: Fresh Water  
 Amt. 8 bbls Sk's Yield \_\_\_\_\_ ft<sup>3</sup>/sk Density 8.54 PPG

CASING DATA: Conductor  PTA  Squeeze  Misc   
 Surface  Intermediate  Production  Liner   
 Size 8 5/8" Type \_\_\_\_\_ Weight 24 Collar \_\_\_\_\_

LEAD: Pump Time \_\_\_\_\_ hrs. Type 60/40 + 4% cut  
7.75 1/2" Flo-seal Excess \_\_\_\_\_  
 Amt. 170 Sk's Yield 1,40 ft<sup>3</sup>/sk Density 14.5 PPG  
 TAIL: Pump Time \_\_\_\_\_ hrs. Type 60/40 +  
 Excess \_\_\_\_\_  
 Amt. \_\_\_\_\_ Sk's Yield \_\_\_\_\_ ft<sup>3</sup>/sk Density \_\_\_\_\_ PPG  
 WATER: Lead 6.51 gals/sk Tail \_\_\_\_\_ gals/sk Total 26.5 Bbls.

Casing Depths: Top 0 Bottom 507

Pump Trucks Used 224  
 Bulk Equip. 544/198

Drill Pipe: Size 4 1/2" Weight 16.60 Collars \_\_\_\_\_  
 Open Hole: Size 7 7/8" T.D. 4509 ft. P.B. to \_\_\_\_\_ ft.

Float Equip: Manufacturer \_\_\_\_\_  
 Shoe: Type \_\_\_\_\_ Depth \_\_\_\_\_  
 Float: Type \_\_\_\_\_ Depth \_\_\_\_\_  
 Centralizers: Quantity \_\_\_\_\_ Plugs Top \_\_\_\_\_ Btm. \_\_\_\_\_  
 Stage Collars \_\_\_\_\_  
 Special Equip. \_\_\_\_\_  
 Disp. Fluid Type WBM + FW Amt. \_\_\_\_\_ Bbls. Weight 92,83 PPG  
 Mud Type WBM Weight 4.2 PPG

CAPACITY FACTORS:  
 Casing: Bbls/Lin. ft. .0636 Lin. ft./Bbl. 15.70  
 Open Holes: Bbls/Lin. ft. .0602 Lin. ft./Bbl. 16.5993  
 Drill Pipe: Bbls/Lin. ft. .01422 Lin. ft./Bbl. 70.32  
 Annulus: OH Bbls/Lin. ft. .0406 Lin. ft./Bbl. 24.6474  
CS Bbls/Lin. ft. .0440 Lin. ft./Bbl. 22.72  
 Perforations: From \_\_\_\_\_ ft. to \_\_\_\_\_ ft. Amt. \_\_\_\_\_

COMPANY REPRESENTATIVE Charles Duma

CEMENTER Chad E. Smith

TIME	PRESSURES PSI		FLUID PUMPED DATA			REMARKS
	AM/PM	DRILL PIPE CASING	ANNULUS	TOTAL FLUID	Pumped Per Time Period	
2:40 PM						Arrive on Location
10:36 PM		50		6	6	Fresh Water Ahead
10:39 PM		50		18.5	12.5	Plug 1 Cement
10:43 PM		50		20.5	2	Fresh Water Behind
10:44 PM		50		34.5	14	Displace
10:51 PM						POOH
11:40 PM		50		40.5	6	Fresh Water Ahead
11:43 PM		50		53	12.5	Plug 2 Cement
11:48 PM		50		57	4	Displace
11:51 PM						POOH
12:19 AM		50		62	5	Plug 3 Cement
12:21 AM		50		63	1	Displace
12:51 AM		50		70.5	7.5	Plug Rat Hole
12:57 AM		50		75.5	5	Plug Mouse Hole
1:00 AM						wash up + Rig Down
1:30 AM						leave Location





Date 10-17-12 District Great Bend, KS Ticket No. 53571  
 Company Midcon Rig Tipichid #215  
 Lease Hagerman Well No. 17-12  
 County Lawrence State KS  
 Location Rush center, 756W Field \_\_\_\_\_  
 (2N E 27W)

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

Casing Depths: Top KB Bottom 521, 71

Drill Pipe: Size 4 1/2 Weight 166 Collars Whole  
 Open Hole: Size 12 1/4 T.D. \_\_\_\_\_ ft. P.B. to \_\_\_\_\_ ft.

CAPACITY FACTORS:  
 Casing: Bbbls/Lin. ft. 0.637 Lin. ft./Bbl. 15.70  
 Open Holes: Bbbls/Lin. ft. 0.454 Lin. ft./Bbl. 0.85  
 Drill Pipe: Bbbls/Lin. ft. 0.142 Lin. ft./Bbl. 70.32  
 Annulus: Bbbls/Lin. ft. 0.735 Lin. ft./Bbl. 13.60  
 Bbbls/Lin. ft. \_\_\_\_\_ Lin. ft./Bbl. \_\_\_\_\_  
 Perforations: From \_\_\_\_\_ ft. to \_\_\_\_\_ ft. Amt. \_\_\_\_\_

CEMENT DATA:  
 Spacer Type: Freshwater  
 Amt. 5 bbls Skys Yield \_\_\_\_\_ ft<sup>3</sup>/sk Density 9.34 PPG

LEAD: Pump Time \_\_\_\_\_ hrs. Type \_\_\_\_\_  
 Excess \_\_\_\_\_

Amt. \_\_\_\_\_ Skys Yield \_\_\_\_\_ ft<sup>3</sup>/sk Density \_\_\_\_\_ PPG

TAIL: Pump Time Thicken time hrs. Type Class A 34cc  
2.4 gal Excess \_\_\_\_\_

Amt. 325 Skys Yield 1.34 ft<sup>3</sup>/sk Density 15.2 PPG

WATER: Lead \_\_\_\_\_ gals/sk Tail \_\_\_\_\_ gals/sk Total \_\_\_\_\_ Bbbls.

Pump Trucks Used 366 - Irving H  
 Bulk Equip. 544-195 Kewanee

Float Equip: Manufacturer \_\_\_\_\_  
 Shoe: Type \_\_\_\_\_ Depth \_\_\_\_\_

Float: Type \_\_\_\_\_ Depth \_\_\_\_\_  
 Centralizers: Quantity 2 Plugs Top Rubber Btm. \_\_\_\_\_

Stage Collars \_\_\_\_\_  
 Special Equip. Ingrs & Ball

Disp. Fluid Type Freshwater Amt. \_\_\_\_\_ Bbbls. Weight 9.34 PPG  
 Mud Type Water Weight 9.1 PPG

COMPANY REPRESENTATIVE \_\_\_\_\_

CEMENTER Justin C

TIME	PRESSURES PSI		FLUID PUMPED DATA			REMARKS
	DRILL PIPE CASING	ANNULUS	TOTAL FLUID	Pumped Per Time Period	RATE Bbbls Min.	
						ON location - Rig up Had 400gals mixing
						Run 4 1/2 casing Break circulation with Pig mud Hook up cement pump
				5663		Pump 5663 freshwater ahead
			55.37	50.37		Mix 325 sks Class A 34cc 2.4 gal Shut Pump & Release plug
			65.91	30.54		Displace 30.54 bbls freshwater
						land plug pressure - 600 #
						Cement del circulation
						Plug down - 9:00 AM
						Pig down -
						landed plug went to floor toolpusher was there pipe went up about 5 ft Because they didn't clean it down plug pushed, it back down