



KANSAS CORPORATION COMMISSION 1108977  
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: \_\_\_\_\_



1108977

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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DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5) (Submit ACO-4)</i> <input type="checkbox"/> Other (Specify) _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Zenergy Operating Company, LLC
Well Name	Jost #1 SWD
Doc ID	1108977

All Electric Logs Run

Platform Express
Spectral Gamma Ray
Array Induction
Borehole Compensated Sonic
DTM
Hole and Cement Volume

Form	ACO1 - Well Completion
Operator	Zenergy Operating Company, LLC
Well Name	Jost #1 SWD
Doc ID	1108977

Tops

Name	Top	Datum
Lansing	2119	
Kansas City "B"	2475	
Cherokee Shale	2659	
Mississippian	2685	
Kinderhook	2898	
Chatanooga Shale	2906	
Hunton	2970	
Viola LS	3115	
Simpson SS	3208	
Arbuckle	3335	

PO Box 93999  
Southlake, TX 76092

Voice: (817) 546-7282  
Fax: (817) 246-3361

# INVOICE

Invoice Number: 134321  
Invoice Date: Jan 1, 2013  
Page: 1

*6001-55  
8/1.75*

Now Includes:



Bill To:
Zenergy Operating Company, LLC 6100 S Yale Avenue, Suite 1700 Tulsa, OK 74136

Customer ID	Well Name# or Customer P.O.	Payment Terms	
Zener	Jost #1 SWD	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS2-01	Great Bend	Jan 1, 2013	1/31/13

Quantity	Item	Description	Unit Price	Amount
210.00	MAT	Class A Common	17.90	3,759.00
4.00	MAT	Gel	23.40	93.60
7.00	MAT	Chloride	64.00	448.00
226.60	SER	Cubic Feet	2.48	561.97
515.00	SER	Ton Mileage	2.60	1,339.00
1.00	SER	Surface	1,512.25	1,512.25
50.00	SER	Pump Truck Mileage	7.70	385.00
50.00	SER	Light Vehicle Mileage	4.40	220.00
1.00	EQP	9.5/8 Guide Shoe	553.41	553.41
1.00	EQP	9.5/8 Float Collar	1,344.33	1,344.33
6.00	EQP	9.5/8 Centralizer	87.75	526.50
1.00	EQP	9.5/8 Rubber Plug	184.86	184.86
1.00	CEMENTER	Tim Dickson		
1.00	EQUIP OPER	Trint Hall		
1.00	EQUIP OPER	Daniel Casper		
1.00	OPER ASSIST	Charles Kinyon		

*ZENERGY INC.*  
*JAN 27 2013*  
*Account No.*  
*Pay Date: 3/13*  
*Version: 920450*  
*ARE*  
*Approved:*

ALL PRICES ARE NET, PAYABLE  
30 DAYS FOLLOWING DATE OF  
INVOICE. 1 1/2% CHARGED  
THEREAFTER. IF ACCOUNT IS  
CURRENT, TAKE DISCOUNT OF

**\$3059.80**

ONLY IF PAID ON OR BEFORE  
**Jan 26, 2013**

Subtotal	10,927.92
Sales Tax	
Total Invoice Amount	10,927.92
Payment/Credit Applied	
<b>TOTAL</b>	<b>10,927.92</b>

# ALLIED OIL & GAS SERVICES, LLC 059171

Federal Tax I.D.# 20-5975804

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

SERVICE POINT: Mason Bend Kc

DATE <u>1-1-13</u>	SEC. <u>30</u>	TWP. <u>19</u>	RANGE <u>2</u>	12-31-12	1-1-13	JOB START <u>8:30 AM</u>	JOB FINISH <u>9:30 AM</u>
LEASE <u>Just</u> WELL #1 <u>(500)</u>				LOCATION <u>McPherson E-35-20 East</u>	COUNTY <u>Marion</u>	STATE <u>OK</u>	
OLD OR NEW (Circle one)				to Falcon Rd, 1 North, 3/4 East			

CONTRACTOR Duke #20 OWNER Samuel

TYPE OF JOB Surface

HOLE SIZE <u>12 1/4"</u>	T.D. <u>4105'</u>
CASING SIZE <u>9 5/8"</u>	DEPTH <u>457.20</u>
TUBING SIZE	DEPTH
DRILL PIPE	DEPTH
TOOL	DEPTH
PRES. MAX <u>800#</u>	MINIMUM <u>300#</u>
MEAS. LINE	SHOE JOINT <u>410.35'</u>
CEMENT LEFT IN CSG. <u>410.35'</u>	
PERFS.	
DISPLACEMENT <u>31.79 bbls</u>	

CEMENT  
AMOUNT ORDERED 210 lbs clay & 370 calcium, 270 gal.

COMMON	210	@ 17.90	3,759.00
POZMIX		@	
GEL	4	@ 23.40	93.60
CHLORIDE	7	@ 64.00	448.00
ASC		@	
HANDLING <u>324.00</u> @ 2.48 <u>541.92</u>			
MILEAGE <u>515</u> @ 2.66 <u>1,339.90</u>			
TOTAL			<u>6,201.52</u>

EQUIPMENT

PUMP TRUCK	CEMENTER <u>Tom Dethman</u>	1
#398	HELPER <u>Tony Hill</u>	2
BULK TRUCK		
#610-112	DRIVER <u>Don Cooper</u>	2
BULK TRUCK		
#	DRIVER <u>Charles Kenyon</u>	3

REMARKS:  
Run 457.20' of 9 5/8" cas. Bore  
Circulation. Mixed 210 lbs clay  
& 390cc, 270 gal. Released plug  
Replaced with fresh H<sub>2</sub>O, headed  
plug at #, Released and float  
set held. Pumped 15 bbls cement to  
Pit  
Cement did circulate.

CHARGE TO: Zenergy Operations, Co, LLC  
STREET 6100 S. Yale Ave, Ste 1700  
CITY Tulsa STATE OKla ZIP 74136

SERVICE

DEPTH OF JOB <u>457.20'</u>	
PUMP TRUCK CHARGE	<u>1512.35</u>
EXTRA FOOTAGE	@
MILEAGE <u>Hum 50</u>	@ 7.70 <u>385.00</u>
MANIFOLD	@
<u>Hum 50</u>	@ 4.40 <u>220.00</u>
TOTAL <u>2,117.25</u>	

PLUG & FLOAT EQUIPMENT

1- 9 5/8" Guide shoe	@ 1	# 553.41
1- 9 5/8" Float collar	@ 1	# 244.33
1- 9 5/8" Centralizer	@ 1	# 576.58
1- 9 5/8" Riches Plug	@ 1	# 184.86
TOTAL <u>\$2,009.10</u>		

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 James Moore  
SIGNATURE James Moore

SALES TAX (If Any) 538.95  
TOTAL CHARGES 10,927.92  
DISCOUNT 3,059.80 IF PAID IN 30 DAYS  
7,868.12

# ALLIED

OIL & GAS SERVICES, LLC

PO Box 93999  
Southlake, TX 76092

Voice: (817) 546-7282  
Fax: (817) 246-3361

JAN 22 2013  
Zenergy, Inc

# INVOICE

Invoice Number: 134394  
Invoice Date: Jan 9, 2013  
Page: 1

**Bill To:**

Zenergy Operating Company, LLC  
6100 S Yale Avenue, Suite 1700  
Tulsa, OK 74136

Now Includes:



Customer ID	Well Name# or Customer P.O.	Payment Terms	
Zener	Jost #1 SWD	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS2-02	Great Bend	Jan 9, 2013	2/8/13

Quantity	Item	Description	Unit Price	Amount
325.00	MAT	Class A Common	17.90	5,817.50
200.00	MAT	ASC	23.40	4,680.00
4.00	MAT	Salt	26.35	105.40
246.00	MAT	FL-160	18.90	4,649.40
123.00	MAT	Defoamer	9.80	1,205.40
682.00	MAT	Sodium Metasilicate	3.30	2,250.60
1,000.00	MAT	Gilsonite	0.98	980.00
619.41	SER	Cubic Feet	2.48	1,536.14
1,378.45	SER	Ton Mielage	2.60	3,583.97
1.00	SER	Production Casing	2,558.75	2,558.75
1.00	SER	Manifold & Head Rental	275.00	275.00
50.00	SER	Pump Truck Mileage	7.70	385.00
50.00	SER	Light Vehicle Mileage	4.40	220.00
1.00	EQP	7" Guide Shoe	314.73	314.73
1.00	EQP	7" Float Collar	886.86	886.86
10.00	EQP	7" Centralizer	65.52	655.20
4.00	EQP	7" Basket	464.15	1,856.60
1.00	EQP	7" Rubber Plug	99.45	99.45
1.00	CEMENTER	Tim Dickson		
1.00	CEMENTER	Wayne Davis		
1.00	OPER ASSIST	Jake Heard		

6001-55  
@ 1.25

Zenergy, Inc.  
Account No. \_\_\_\_\_  
Pay Date: 3/13

JAN 22 2013

Voucher \_\_\_\_\_  
APR \_\_\_\_\_  
APPROVED \_\_\_\_\_

ALL PRICES ARE NET, PAYABLE  
30 DAYS FOLLOWING DATE OF  
INVOICE. 1 1/2% CHARGED  
THEREAFTER. IF ACCOUNT IS  
CURRENT, TAKE DISCOUNT OF

\$ See next

ONLY IF PAID ON OR BEFORE  
Feb 3, 2013

Subtotal	Continued
Sales Tax	Continued
Total Invoice Amount	Continued
Payment/Credit Applied	
<b>TOTAL</b>	<b>Continued</b>

PO Box 93999  
Southlake, TX 76092

Voice: (817) 546-7282  
Fax: (817) 246-3361

# INVOICE

Invoice Number: 134394

Invoice Date: Jan 9, 2013

Page: 2

**Bill To:**

Zenergy Operating Company, LLC  
6100 S Yale Avenue, Suite 1700  
Tulsa, OK 74136

Now Includes:



Customer ID	Well Name# or Customer P.O.	Payment Terms	
Zener	Jost #1 SWD	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS2-02	Great Bend	Jan 9, 2013	2/8/13

Quantity	Item	Description	Unit Price	Amount
1.00	EQUIP OPER	Kevin Eddy		
1.00	EQUIP OPER	Joel Monahan		
1.00	CEMENTER	Pat Helgerson		
1.00	OPER ASSIST	Kevin Weighous		

ALL PRICES ARE NET, PAYABLE  
30 DAYS FOLLOWING DATE OF  
INVOICE. 1 1/2% CHARGED  
THEREAFTER. IF ACCOUNT IS  
CURRENT, TAKE DISCOUNT OF

**\$8976.80**

ONLY IF PAID ON OR BEFORE

**Feb 3, 2013**

Subtotal	32,060.00
Sales Tax	
Total Invoice Amount	32,060.00
Payment/Credit Applied	
<b>TOTAL</b>	<b>32,060.00</b>



# ALLIED OIL & GAS SERVICES, LLC 059174

Federal Tax I.D.# 20-5975804

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

SERVICE POINT: West Bend Va  
1-9-13 1-10-13

DATE <u>1-9-13</u>	SEC <u>30</u>	TWP <u>19</u>	RANGE <u>2 E</u>	CALLED OUT <u>10:00 AM</u>	ON LOCATION <u>3:00 PM</u>	JOB START <u>11:00 PM</u>	JOB FINISH <u>1:30 AM</u>
LEASE <u>Just</u>	WELL # <u>1</u>	<u>(SW)</u>	LOCATION <u>M=Prison, 20 Feet to Falcu</u>	COUNTY <u>Murray</u>	STATE <u>Ky</u>		
OLD OR <u>(NEW)</u> (Circle one)			Road, 1 month, 3/4 East, South side		Murray		

CONTRACTOR Duke #20 OWNER Same

TYPE OF JOB <u>Production</u>	HOLE SIZE <u>8 1/2"</u>	T.D. <u>3385'</u>
CASING SIZE <u>7"</u>	DEPTH <u>3382.71'</u>	
TUBING SIZE	DEPTH	
DRILL PIPE	DEPTH	
TOOL	DEPTH	
PRES. MAX <u>1200#</u>	MINIMUM <u>750#</u>	
MEAS. LINE	SHOE JOINT <u>43.12'</u>	
CEMENT LEFT IN CSG. <u>43.12'</u>		
PERFS.		
DISPLACEMENT <u>127.9 bbls</u>		

CEMENT	AMOUNT ORDERED <u>325 lbs. class A 270 gpm</u>	
	<u>2% Soda, 5% Fl 160, 25 Delomer, 25 Fluor</u>	
	<u>20% class A, 2% salt, 10% salt, 5% Gelsite</u>	
	<u>5% Fl 160, 25 Delomer</u>	
COMMON	<u>325</u>	@ <u>17.90</u> <u>5812.50</u>
POZMIX		@
GEL		@
CHLORIDE		@
ASC	<u>200</u>	@ <u>23.40</u> <u>4680.00</u>
Salt	<u>400</u>	@ <u>26.35</u> <u>10540.00</u>
FL-160	<u>200</u>	@ <u>18.90</u> <u>3780.00</u>
PAEF (Delomer)	<u>100</u>	@ <u>9.80</u> <u>980.00</u>
NAMS Sodium Metasilicate	<u>3.30</u>	@ <u>22.50</u> <u>74.25</u>
Gelsite	<u>100</u>	@ <u>9.80</u> <u>980.00</u>

EQUIPMENT

PUMP TRUCK	CEMENTER <u>Kevin Adams</u>
# <u>518-5</u>	HELPER <u>John Hand</u>
BULK TRUCK	
# <u>410-241</u>	DRIVER <u>Joel Monahan</u>
BULK TRUCK	
# <u>547-193</u>	DRIVER <u>Pat Halgerson</u>

HANDLING	<u>1619.41</u>	@ <u>2.45</u> <u>3967.59</u>
MILEAGE	<u>1328.45</u>	@ <u>2.60</u> <u>3453.97</u>
TOTAL	<u>13178.45</u>	<u>24808.41</u>

REMARKS:  
Run 3382.71' of 7" cty. Holed up and  
Boiled circulation with Reg Pump. Mixed  
325 lbs class A, 2% soda, 20% class A, 5% Fl 160  
25 Delomer, 25 Fluor, followed by  
20% class A, 2% salt, 10% salt, 5% Gelsite  
5% Fl 160, 25 Delomer. Washed pipe clean  
of cement, Delomer plug. Displaced with  
fresh H<sub>2</sub>O. Landed plug at 1200 ft. Released  
and float H<sub>2</sub>O.  
Cement did circulate 35 bbls to Pat

CHARGE TO: Zenergy Operating Co LLC  
STREET \_\_\_\_\_  
CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

SERVICE

DEPTH OF JOB	<u>3382.71'</u>	
PUMP TRUCK CHARGE		<u>42558.75</u>
EXTRA FOOTAGE	@	
MILEAGE	@	
MANIFOLD + Hand	@ <u>275.00</u>	<u>275.00</u>
MLLV	@ <u>4.40</u>	<u>220.00</u>
MLHV	@ <u>7.20</u>	<u>388.00</u>
TOTAL		<u>3438.75</u>

Top of Test cement  
1015'

PLUG & FLOAT EQUIPMENT

1-7" Benderhoe	@ <u>314.73</u>	<u>314.73</u>
1-7" float collar	@ <u>896.86</u>	<u>896.86</u>
10-7" Centralizer	@ <u>655.20</u>	<u>655.20</u>
4-7" Benders	@ <u>464.15</u>	<u>1856.60</u>
1-7" Rubber Plug	@ <u>99.45</u>	<u>99.45</u>
TOTAL		<u>3812.84</u>

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)	<u>-0-</u>
TOTAL CHARGES	<u>32060.00</u>
DISCOUNT	<u>2876.80</u> 8976.80 IF PAID IN 30 DAYS

PRINTED NAME X HARVEY MOORE  
SIGNATURE X Harvey Moore

23,083.20 Desc 8976.80



## DRILL STEM TEST REPORT

Prepared For: **Zenergy Operating Company L.L.C.**

6100 South Yale Avenue Suite 1700  
Tulsa ,Oklahoma 74136

ATTN: Harvey Moore

### **Jost #1 SWD**

### **30-19s-2w Marion**

Start Date: 2013.01.09 @ 00:00:00

End Date: 2013.01.09 @ 00:00:00

Job Ticket #: 17774                      DST #: 1

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

Printed: 2013.01.09 @ 09:59:56



# DRILL STEM TEST REPORT

Zenergy Operating Company L.L.C.

**30-19s-2w Marion**

6100 South Yale Avenue Suite 1700  
Tulsa ,Oklahoma 74136

**Jost #1 SWD**

Job Ticket: 17774

**DST#: 1**

ATTN: Harvey Moore

Test Start: 2013.01.09 @ 00:00:00

## GENERAL INFORMATION:

Formation: **Simpson**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:00:00

Time Test Ended: 00:00:00

Test Type: Conventional Straddle (Initial)

Tester: Gene Budig

Unit No: 3335

**Interval: 3241.00 ft (KB) To 3313.00 ft (KB) (TVD)**

Reference Elevations: 1452.00 ft (KB)

Total Depth: 3385.00 ft (KB) (TVD)

1440.00 ft (CF)

Hole Diameter: 8.75 inches Hole Condition: Fair

KB to GR/CF: 12.00 ft

**Serial #: 6806 Outside**

Press @ RunDepth: 1195.66 psia @ 3385.63 ft (KB)

Capacity: 5000.00 psia

Start Date: 2013.01.08

End Date: 2013.01.08

Last Calib.: 2013.01.09

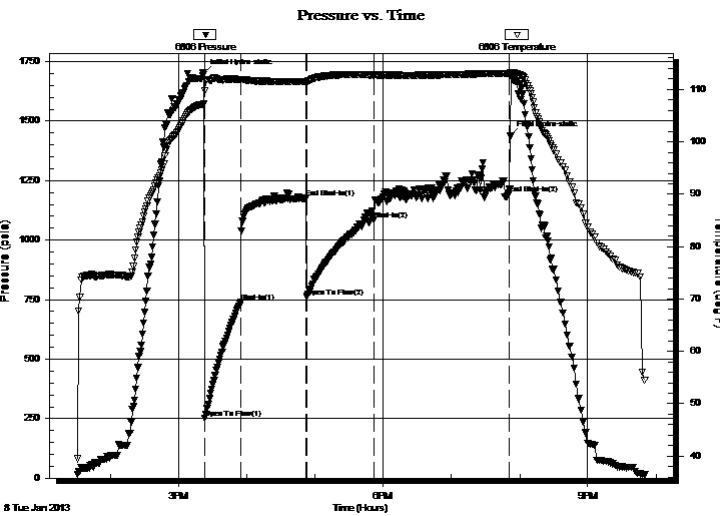
Start Time: 09:30:00

End Time: 21:50:00

Time On Btm: 2013.01.08 @ 15:21:30

Time Off Btm: 2013.01.08 @ 19:52:00

**TEST COMMENT:** 1st Opening 30 Minutes-Good blow built to the bottom of a 5 gallon bucket in 1 minute  
1st Shut-In 60 Minutes-No blow back  
2nd Opening 60 Minutes-Good blow built to the bottom of a 5 gallon bucket in 2 minutes  
2nd Shut-In 120 Minutes-No blow back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1701.35	107.16	Initial Hydro-static
2	251.07	109.68	Open To Flow (1)
33	740.86	111.85	Shut-In(1)
91	1175.92	111.56	End Shut-In(1)
91	761.79	111.47	Open To Flow (2)
151	1085.85	112.76	Shut-In(2)
269	1195.66	113.04	End Shut-In(2)
271	1437.05	113.12	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
280.00	Mud 90%Mud 10%Water	1.92
280.00	Mud 85%Mud 15%Water	2.07
280.00	Water Mud 80%Mud 20%Water	2.07
280.00	Muddy Water 60%Mud 40%Water	2.07
372.00	Muddy Water25%Mud 75%Water	2.75
372.00	Slightly muddy w ater 15%Mud 85%Water	2.75

## Gas Rates

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



# DRILL STEM TEST REPORT

Zenergy Operating Company L.L.C.

**30-19s-2w Marion**

6100 South Yale Avenue Suite 1700  
Tulsa ,Oklahoma 74136

**Jost #1 SWD**

Job Ticket: 17774

**DST#: 1**

ATTN: Harvey Moore

Test Start: 2013.01.09 @ 00:00:00

## GENERAL INFORMATION:

Formation: **Simpson**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:00:00

Time Test Ended: 00:00:00

Test Type: Conventional Straddle (Initial)

Tester: Gene Budig

Unit No: 3335

**Interval: 3241.00 ft (KB) To 3313.00 ft (KB) (TVD)**

Reference Elevations: 1452.00 ft (KB)

Total Depth: 3385.00 ft (KB) (TVD)

1440.00 ft (CF)

Hole Diameter: 8.75 inches Hole Condition: Fair

KB to GR/CF: 12.00 ft

**Serial #: 8624 Inside**

Press @ RunDepth: 1054.50 psia @ 3311.50 ft (KB)

Capacity: 5000.00 psia

Start Date: 2013.01.08

End Date: 2013.01.08

Last Calib.: 2013.01.09

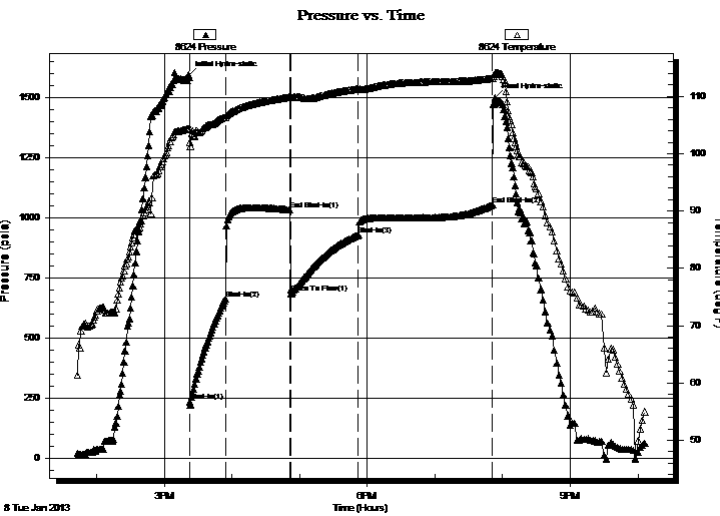
Start Time: 09:30:00

End Time: 22:07:00

Time On Btm: 2013.01.08 @ 15:21:30

Time Off Btm: 2013.01.08 @ 19:53:30

**TEST COMMENT:** 1st Opening 30 Minutes-Good blow built to the bottom of a 5 gallon bucket in 1 minute  
1st Shut-In 60 Minutes-No blow back  
2nd Opening 60 Minutes-Good blow built to the bottom of a 5 gallon bucket in 2 minutes  
2nd Shut-In 120 Minutes-No blow back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1591.82	104.39	Initial Hydro-static
1	237.03	102.02	Shut-In(1)
33	664.28	106.40	Shut-In(2)
90	1035.05	109.89	End Shut-In(1)
91	686.93	109.76	Open To Flow (1)
151	929.30	111.32	Shut-In(3)
270	1054.50	113.11	End Shut-In(2)
272	1500.07	114.07	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
280.00	Mud 90%Mud 10%Water	1.92
280.00	Mud 85%Mud 15%Water	2.07
280.00	Water Mud 80%Mud 20%Water	2.07
280.00	Muddy Water 60%Mud 40%Water	2.07
372.00	Muddy Water25%Mud 75%Water	2.75
372.00	Slightly muddy w ater 15%Mud 85%Water	2.75

## Gas Rates

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



# DRILL STEM TEST REPORT

Zenergy Operating Company L.L.C.

**30-19s-2w Marion**

6100 South Yale Avenue Suite 1700  
Tulsa ,Oklahoma 74136

**Jost #1 SWD**

Job Ticket: 17774

**DST#: 1**

ATTN: Harvey Moore

Test Start: 2013.01.09 @ 00:00:00

## GENERAL INFORMATION:

Formation: **Simpson**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:00:00

Time Test Ended: 00:00:00

Test Type: Conventional Straddle (Initial)

Tester: Gene Budig

Unit No: 3335

**Interval: 3241.00 ft (KB) To 3313.00 ft (KB) (TVD)**

Reference Elevations: 1452.00 ft (KB)

Total Depth: 3385.00 ft (KB) (TVD)

1440.00 ft (CF)

Hole Diameter: 8.75 inches Hole Condition: Fair

KB to GR/CF: 12.00 ft

**Serial #: 6663 Outside**

Press @ RunDepth: 1140.34 psia @ 3312.50 ft (KB)

Capacity: 5000.00 psia

Start Date: 2013.01.08

End Date: 2013.01.08

Last Calib.: 2013.01.09

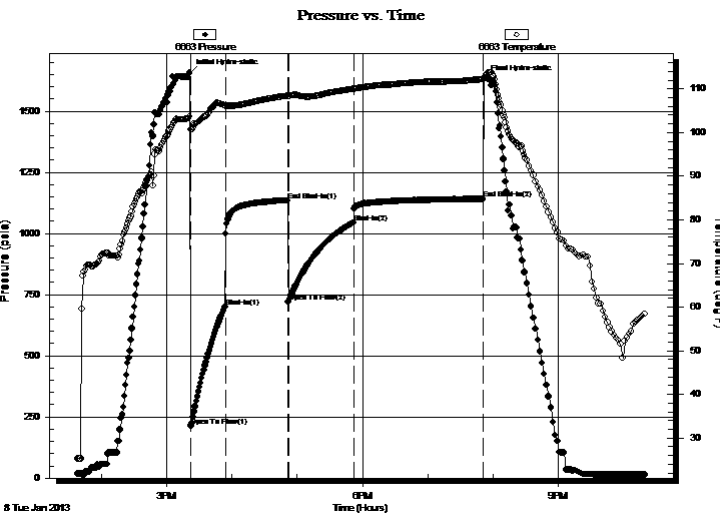
Start Time: 09:30:00

End Time: 22:19:00

Time On Btm: 2013.01.08 @ 15:21:30

Time Off Btm: 2013.01.08 @ 19:51:30

**TEST COMMENT:** 1st Opening 30 Minutes-Good blow built to the bottom of a 5 gallon bucket in 1 minute  
1st Shut-In 60 Minutes-No blow back  
2nd Opening 60 Minutes-Good blow built to the bottom of a 5 gallon bucket in 2 minutes  
2nd Shut-In 120 Minutes-No blow back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1655.49	103.58	Initial Hydro-static
1	214.08	100.72	Open To Flow (1)
33	700.38	106.03	Shut-In(1)
90	1135.09	108.39	End Shut-In(1)
91	720.43	108.31	Open To Flow (2)
151	1044.14	109.94	Shut-In(2)
269	1140.34	112.12	End Shut-In(2)
270	1631.47	112.45	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
280.00	Mud 90%Mud 10%Water	1.92
280.00	Mud 85%Mud 15%Water	2.07
280.00	Water Mud 80%Mud 20%Water	2.07
280.00	Muddy Water 60%Mud 40%Water	2.07
372.00	Muddy Water25%Mud 75%Water	2.75
372.00	Slightly muddy w ater 15%Mud 85%Water	2.75

## Gas Rates

Choke (inches)	Pressure (psia)	Gas Rate (Mcf/d)
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# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Zenergy Operating Company L.L.C.

**30-19s-2w Marion**

6100 South Yale Avenue Suite 1700  
Tulsa ,Oklahoma 74136

**Jost #1 SWD**

Job Ticket: 17774

**DST#: 1**

ATTN: Harvey Moore

Test Start: 2013.01.09 @ 00:00:00

## Tool Information

Drill Pipe:	Length: 3156.00 ft	Diameter: 2.76 inches	Volume: 23.35 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.60 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 63.00 ft	Diameter: 2.25 inches	Volume: 0.31 bbl	Weight to Pull Loose: 65000.00 lb
			<u>Total Volume: 23.66 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	7.00 ft			String Weight: Initial 48000.00 lb
Depth to Top Packer:	3241.00 ft			Final 54000.00 lb
Depth to Bottom Packer:	3313.25 ft			
Interval between Packers:	72.25 ft			
Tool Length:	177.63 ft			
Number of Packers:	3	Diameter: 7.50 inches		
Tool Comments:				

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3213.00	
Shut-In Tool	5.00			3218.00	
Hydroic Tool	5.00			3223.00	
Jars	6.00			3229.00	
Safety Joint	2.00			3231.00	
Top Packer	5.00			3236.00	
Packer	5.00			3241.00	29.00 Bottom Of Top Packer
Perforations	5.00			3246.00	
Change Over Sub	0.75			3246.75	
Drill Pipe	31.00			3277.75	
Change Over Sub	0.75			3278.50	
Perforations	32.00			3310.50	
Recorder	1.00	8624	Inside	3311.50	
Recorder	1.00	6663	Outside	3312.50	
Blank Off Sub	0.75			3313.25	72.25 Tool Interval
Packer	5.00			3318.25	
C.O. Sub	0.75			3319.00	
Drill Pipe	61.88			3380.88	
C.O. Sub	0.75			3381.63	
Anchor	3.00			3384.63	
Recorder	1.00	6806	Outside	3385.63	
Bullnose	4.00			3389.63	76.38 Bottom Packers & Anchor

**Total Tool Length: 177.63**



# DRILL STEM TEST REPORT

## FLUID SUMMARY

Zenergy Operating Company L.L.C.

**30-19s-2w Marion**

6100 South Yale Avenue Suite 1700  
Tulsa ,Oklahoma 74136

**Jost #1 SWD**

Job Ticket: 17774

**DST#: 1**

ATTN: Harvey Moore

Test Start: 2013.01.09 @ 00:00:00

### Mud and Cushion Information

Mud Type: Gel Chem  
Mud Weight: 10.00 lb/gal  
Viscosity: 54.00 sec/qt  
Water Loss: 8.99 in<sup>3</sup>  
Resistivity: ohm.m  
Salinity: 1100.00 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

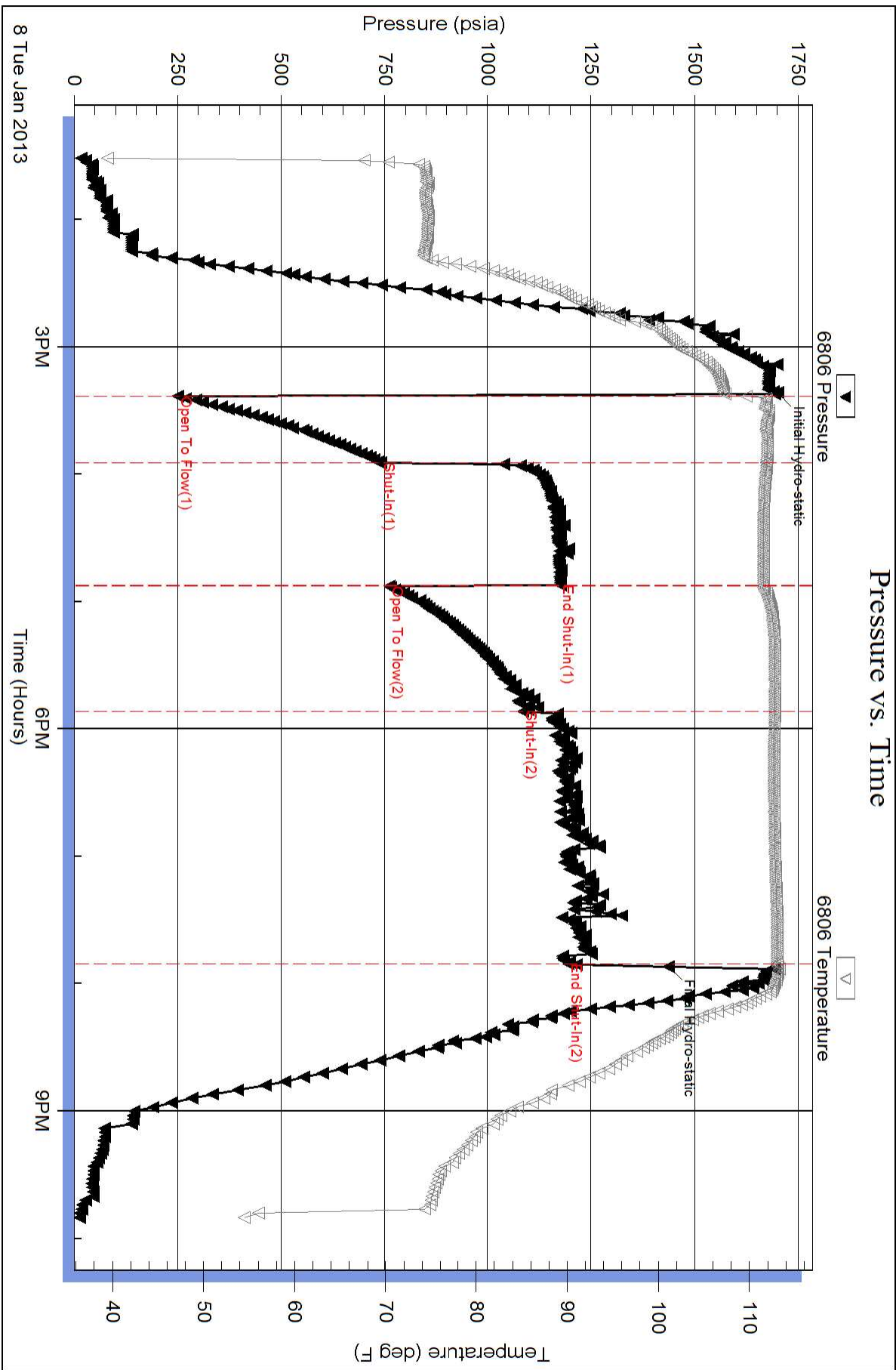
Length ft	Description	Volume bbl
280.00	Mud 90%Mud 10%Water	1.916
280.00	Mud 85%Mud 15%Water	2.072
280.00	Water Mud 80%Mud 20%Water	2.072
280.00	Muddy Water 60%Mud 40%Water	2.072
372.00	Muddy Water25%Mud 75%Water	2.753
372.00	Slightly muddy w ater 15%Mud 85%Water	2.753
372.00	Slightly muddy w ater 5%Mud 95%Water	2.753
0.00	Chlorides 8,500	0.000

Total Length: 2236.00 ft      Total Volume: 16.391 bbl

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

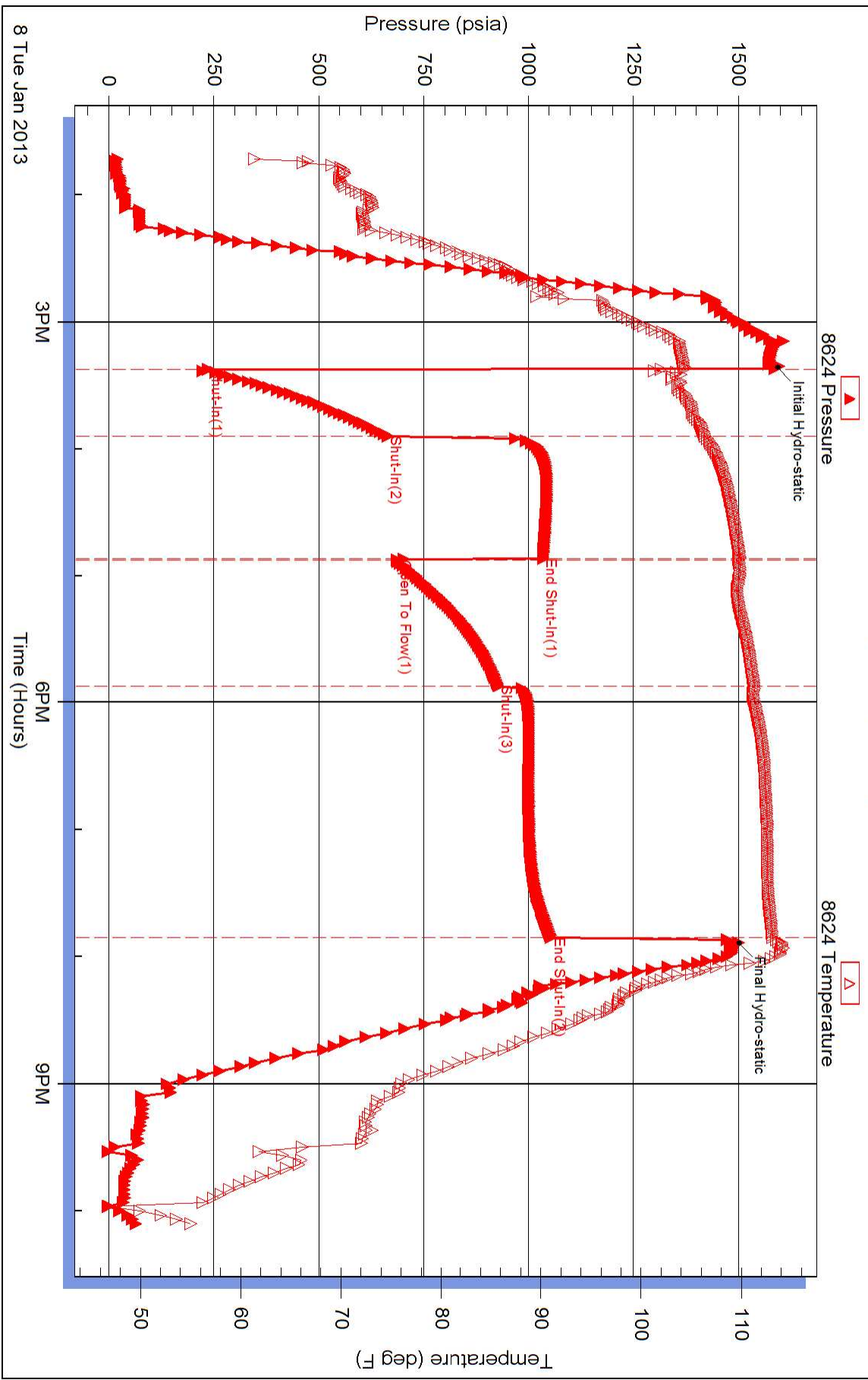
Laboratory Name:      Laboratory Location:

Recovery Comments:





### Pressure vs. Time



### Pressure vs. Time

