



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: _____



1093840

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
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> 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)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____ <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Empire Energy E&P, LLC
Well Name	KIRKMAN 2
Doc ID	1093840

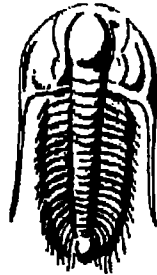
All Electric Logs Run

Micro
Sonic
Dual Induction
Compensated Density
Compensated Neutron
PE

Form	ACO1 - Well Completion
Operator	Empire Energy E&P, LLC
Well Name	KIRKMAN 2
Doc ID	1093840

Tops

Name	Top	Datum
Topeka	2870	-956
Heebner	3248	-1334
Toronto	3268	-1354
Douglas	3283	-1369
Brown Lime	3276	-1362
Lansing	3387	-1473
Base KC	3616	-1702
Viola	3659	-1745
Simpson	3710	-1796
Arbuckle	3760	-1846
TD	4304	-2390



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Empire Energy E&P, LLC.**

380 Southpointe Blvd. #130
Canonburg, PA 15917

ATTN: Josh Austin

Kirkman #2

5-22s-13w Stafford,KS

Start Date: 2012.05.04 @ 22:23:15

End Date: 2012.05.05 @ 06:57:15

Job Ticket #: 47226 DST #: 1

Trilobite Testing, Inc

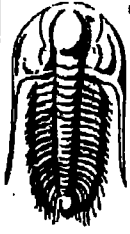
PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

ORIGINAL

Printed: 2012.05.08 @ 15:19:15

Empire Energy E&P, LLC. 5-22s-13w Stafford,KS Kirkman #2 DST # 1 Arbuckle 2012.05.04



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Empire Energy E&P, LLC.

5-22s-13w Stafford,KS

380 Southpointe Blvd. #130
Canonburg, PA 15917

Kirkman #2

Job Ticket: 47226

DST#: 1

ATTN: Josh Austin

Test Start: 2012.05.04 @ 22:23:15

Tool Information

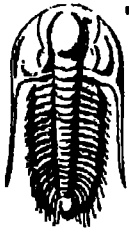
Drill Pipe:	Length: 3691.00 ft	Diameter: 3.80 inches	Volume: 51.78 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 28000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 4000.00 lb
			<u>Total Volume: 51.78 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	5.00 ft			String Weight: Initial 59000.00 lb
Depth to Top Packer:	3706.00 ft			Final 61000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	64.00 ft			
Tool Length:	84.00 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			3687.00	
Shut In Tool	5.00			3692.00	
Hydraulic tool	5.00			3697.00	
Packer	5.00			3702.00	20.00 Bottom Of Top Packer
Packer	4.00			3706.00	
Stubb	1.00			3707.00	
Perforations	5.00			3712.00	
Change Over Sub	1.00			3713.00	
Drill Pipe	31.00			3744.00	
Change Over Sub	1.00			3745.00	
Recorder	0.00	8354	Inside	3745.00	
Recorder	0.00	8520	Outside	3745.00	
Perforations	22.00			3767.00	
Bullnose	3.00			3770.00	64.00 Bottom Packers & Anchor

Total Tool Length: 84.00



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TESTING, INC**

DRILL STEM TEST REPORT

Empire Energy E&P, LLC.

5-22s-13w Stafford, KS

380 Southpointe Blvd. #130
Canonburg, PA 15917

Kirkman #2

Job Ticket: 47226

DST#: 1

ATTN: Josh Austin

Test Start: 2012.05.04 @ 22:23:15

GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 01:22:15
 Time Test Ended: 06:57:15

Test Type: Conventional Bottom Hole (Initial)
 Tester: Dustin Rash
 Unit No: 38

Interval: 3706.00 ft (KB) To 3770.00 ft (KB) (TVD)
 Total Depth: 3770.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1914.00 ft (KB)
 1901.00 ft (CF)
 KB to GR/CF: 13.00 ft

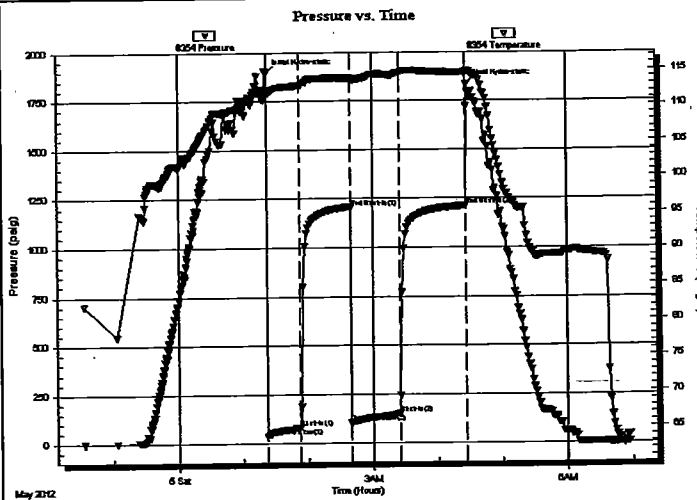
Serial #: 8354

Inside

Press@RunDepth: 151.81 psig @ 3745.00 ft (KB)
 Start Date: 2012.05.04 End Date:
 Start Time: 22:33:15 End Time:

Capacity: 8000.00 psig
 Last Calib.: 2012.05.05
 Time On Btm: 2012.05.05 @ 01:21:45
 Time Off Btm: 2012.05.05 @ 04:27:15

TEST COMMENT: IF-Fair building blow . BOB in 18 minutes.
 IS-No Return.
 FF-Weak building blow . BOB in 33 minutes.
 FS-No Return.



PRESSURE SUMMARY

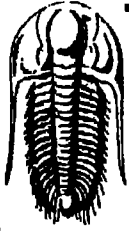
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1895.28	112.26	Initial Hydro-static
1	36.75	111.80	Open To Flow (1)
31	82.34	112.80	Shut-In(1)
78	1204.46	113.79	End Shut-In(1)
78	106.77	113.55	Open To Flow (2)
123	151.81	114.51	Shut-In(2)
185	1212.91	114.48	End Shut-In(2)
186	1833.22	114.68	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
124.00	70%Water/30%Mud	1.74
124.00	10%Oil/15%Water/75%Mud	1.74
45.00	10%Gas/15%Oil/75%Mud	0.63
30.00	20%Gas/80%Oil	0.42
0.00	124' GEL	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Empire Energy E&P, LLC.

5-22s-13w Stafford,KS

380 Southpointe Blvd. #130
Canonburg, PA 15917

Kirkman #2

Job Ticket: 47226

DST#: 1

ATTN: Josh Austin

Test Start: 2012.05.04 @ 22:23:15

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 44.00 sec/qt
Water Loss: 8.78 in³
Resistivity: 0.35 ohm.m
Salinity: 4000.00 ppm
Filter Cake: inches

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

Oil API: 31 deg API
Water Salinity: 22000 ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
124.00	70%Water/30%Mud	1.739
124.00	10%Oil/15%Water/75%Mud	1.739
45.00	10%Gas/15%Oil/75%Mud	0.631
30.00	20%Gas/80%Oil	0.421
0.00	124' G.I.P.	0.000

Total Length: 323.00 ft Total Volume: 4.530 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8354

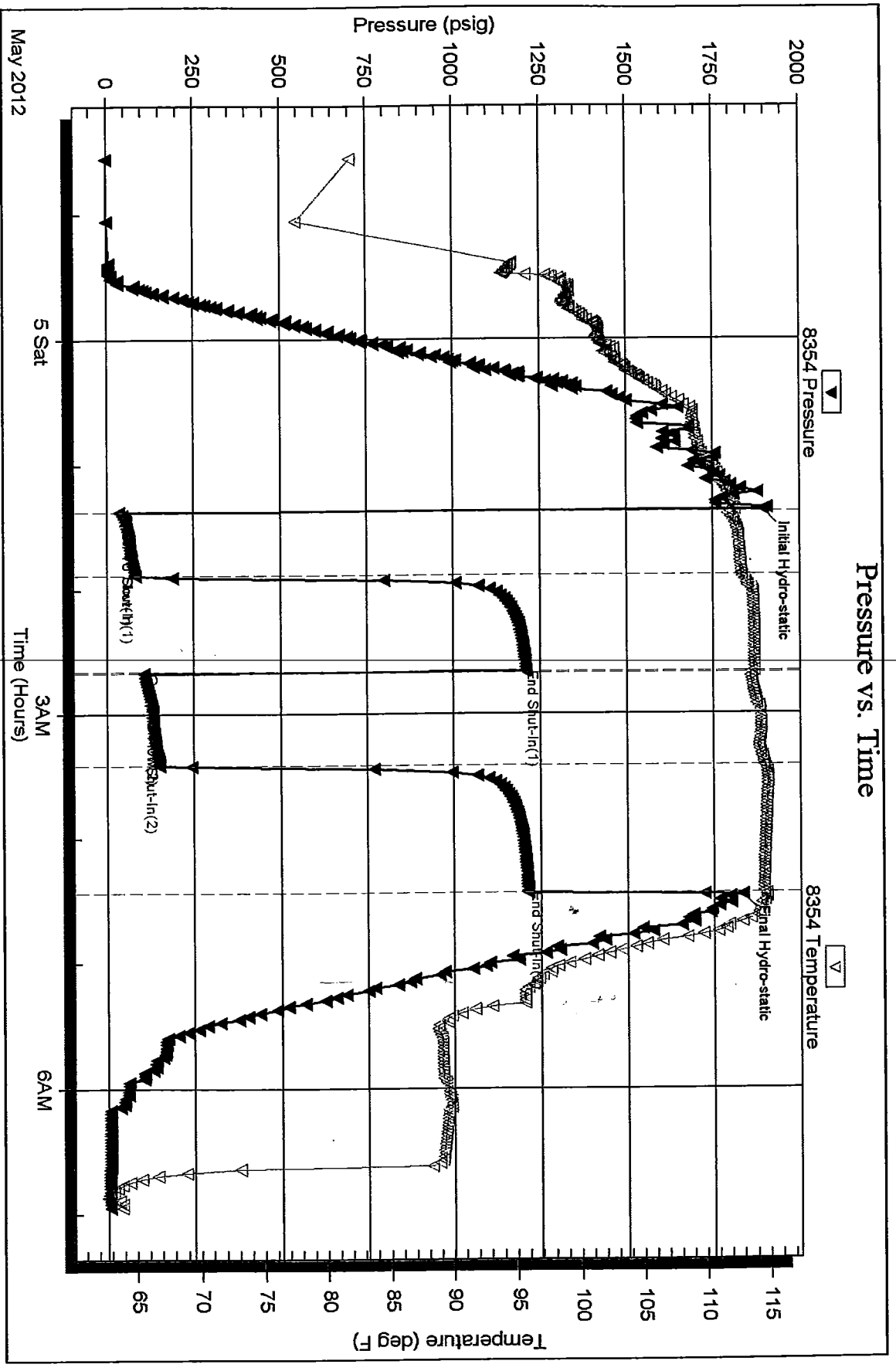
Inside

Empire Energy E&P, LLC.

Kirkman #2

DST Test Number: 1

Pressure vs. Time



Triobite Testing, Inc

Ref. No: 47226

Printed: 2012.05.08 @ 15:19:17

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. 405

Date	Sec.	Twp.	Range	County	State	On Location	Finish
4-30-12	5	22	13	Stafford	Ks		5-1-12 12:45 AM

Lease	Well No.	Location
Kirkman	2	281 Hwy + K-19 Hwy Jct, 110 to 150 Rd

Contractor	Owner
Ninnescah #101	1 1/2 W, S 1 Into

Type Job	To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.		
Hole Size	T.D.		
12 1/4"	782'		

Csg.	Depth	Charge To
8 5/8"	778'	Empire Energy

Tbg. Size	Depth	Street

Tool	Depth	City	State

Cement Left in Csg.	Shoe Joint	The above was done to satisfaction and supervision of owner agent or contractor.	
36'	36'		

Meas Line	Displace	Cement Amount Ordered
	47 1/4 BLS	400 sx Common 3% CC

EQUIPMENT

Pumptrk	No.	Cementor	Helper	2% Gel	1/2 H Flo-seal
9		Math		Common	400
Bulktrk	No.	Driver	Driver	Poz. Mix	
12		Nick		Gel.	8
Bulktrk	No.	Driver	Driver	Calcium	14
pm		Rick		Hulls	

JOB SERVICES & REMARKS

Remarks	Cement did Circulate.	Salt

Rat Hole	Flowseal
	100#

Mouse Hole	Kol-Seal

Centralizers	Mud CLR 48

Baskets	CFL-117 or CD110 CAF 38

D/V or Port Collar	Sand

	Handling
	422

	Mileage

FLOAT EQUIPMENT

	Guide Shoe

	Centralizer

	Baskets

	AFU Inserts

	Float Shoe

	Latch Down
	1- Rubber plug
	1- Baffle plate

	Pumptrk Charge
	Long Surface

	Mileage
	19

	Tax

	Discount

	Total Charge

Richard A. Rany
Signature

Customer <i>Empire Energy</i>	Lease No.	Date <i>5-7-2012</i>
Lease <i>Kirkman</i>	Well # <i>2</i>	
Field Order # <i>6402</i>	Station <i>Pratt</i>	Casing <i>5 1/2</i>
		Depth <i>4305</i>
Type Job <i>cnw 5 1/2 LS</i>	Formation	County <i>Stafford</i>
		State <i>KS</i>
		Legal Description <i>5-22-13</i>

PIPE DATA		PERFORATING DATA		FLUID USED	TREATMENT RESUME		
Casing Size <i>5 1/2</i>	Tubing Size	Shots/Ft		Acid	RATE	PRESS	ISIP
Depth <i>3892</i>	Depth	From	To	Pre Pad	Max		5 Min.
Volume <i>94</i>	Volume	From	To	Pad	Min		10 Min.
Max Press <i>1500</i>	Max Press	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 <i>Bill Padue</i>	Station Manager <i>David Scott</i>	Treater <i>Joe Merson</i>
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Service Units <i>27413</i>	<i>Phye</i>	<i>37400</i>							
Driver Names <i>W11967</i>	<i>14960</i>	<i>14918</i>	<i>W101507</i>						

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
<i>3:30</i>					<i>on line safety meeting</i>
<i>3:45</i>					<i>Start Pumping casing 93 joints Turbolizer on 1, 3, 4, 6, 8, 9, 10, 11, 12, 13, 15, 17, 19, 21 Basket on 1, 3, 13</i>
<i>5:00</i>					<i>Casing on Bottom Needs up 26 joints</i>
<i>5:45</i>			<i>6</i>	<i>4</i>	<i>Run 2550 AA2 5/8 quenger</i>
			<i>44 48</i>	<i>6.50</i>	<i>20050 AA2 15-3 Wash Pump Line</i>
			<i>94</i>	<i>6.50</i>	<i>Disp 94 BBL</i>
<i>6:25</i>					<i>Plug Down</i>
					<i>JOB COMPLETE</i>
					<i>Thank you [Signature]</i>