



KANSAS CORPORATION COMMISSION 1093840
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 # 34506
Name: Empire Energy E&P, LLC
Address 1: 1900 N. Amidon, Ste 210
Address 2: _____
City: WICHITA State: KS Zip: 67203 + _____
Contact Person: Rob Kramer
Phone: (316) 313-4394
CONTRACTOR: License # 34541
Name: Ninnescah Drilling LLC
Wellsite Geologist: James Musgrove
Purchaser: Coffeyville Resources

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 #: _____

<u>04/30/2012</u>	<u>05/07/2012</u>	<u>06/14/2012</u>
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-185-23745-00-00
Spot Description: _____
 - NW NW NE Sec. 5 Twp. 22 S. R. 13 East West
330 Feet from North / South Line of Section
2310 Feet from East / West Line of Section
Footages Calculated from Nearest Outside Section Corner:
 NE NW SE SW
County: Stafford
Lease Name: KIRKMAN Well #: 2
Field Name: _____
Producing Formation: Arbuckle
Elevation: Ground: 1901 Kelly Bushing: 1914
Total Depth: 4304 Plug Back Total Depth: 3854
Amount of Surface Pipe Set and Cemented at: 778 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: 4300 ppm Fluid volume: 666 bbls
Dewatering method used: Evaporated
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: Deanne Gertler Date: 10/01/2012



1093840

Operator Name: Empire Energy E&P, LLC Lease Name: KIRKMAN Well #: 2
 Sec. 5 Twp. 22 S. R. 13 East West County: Stafford

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 Wireline Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Electric Log Run <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Submitted Electronically <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(If no, Submit Copy)</i> List All E. Logs Run: Attached	<input checked="" type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum Attached Attached Attached
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CASING RECORD <input checked="" 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
Surface	12.25	8.625	23	778	common	400	2% gel, 3% CaCl ₂ , 1/2 Bk. Blow-see
Production	7.875	5.5	14	3905	AA-2	200	10% gel, 3% CFR, 25% oilbase, 8%

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
4		4" expendable gun	3789-3790
		CIBP	3785
4		4" expendable gun	3760-3761

TUBING RECORD: Size: <u>2.875</u> Set At: <u>3749</u> Packer At: <u> </u> Liner Run: <input type="checkbox"/> Yes <input type="checkbox"/> No

Date of First, Resumed Production, SWD or ENHR: <u>06/14/2012</u>	Producing Method: <input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain) <u> </u>
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Estimated Production Per 24 Hours	Oil Bbls. <u>1</u>	Gas Mcf <u> </u>	Water Bbls. <u>310</u>	Gas-Oil Ratio <u> </u>	Gravity <u>40</u>
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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 checked="" 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 (Specify) <u> </u>	PRODUCTION INTERVAL: <u>3760</u> <u>3761</u>
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Form	ACO1 - Well Completion
Operator	Empire Energy E&P, LLC
Well Name	KIRKMAN 2
Doc ID	1093840

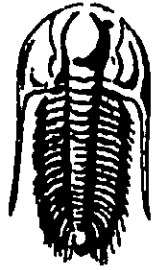
All Electric Logs Run

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

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

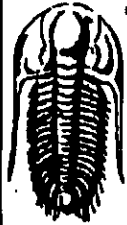
PO Box 362 Hays, KS 67601

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.
380 Southpointe Blvd. #130
Canonburg, PA 15917
ATTN: Josh Austin

5-22s-13w Stafford,KS
Kirkman #2
Job Ticket: 47226 DST#: 1
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
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				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Empire Energy E&P, LLC.
380 Southpointe Blvd. #130
Canonburg, PA 15917
ATTN: Josh Austin

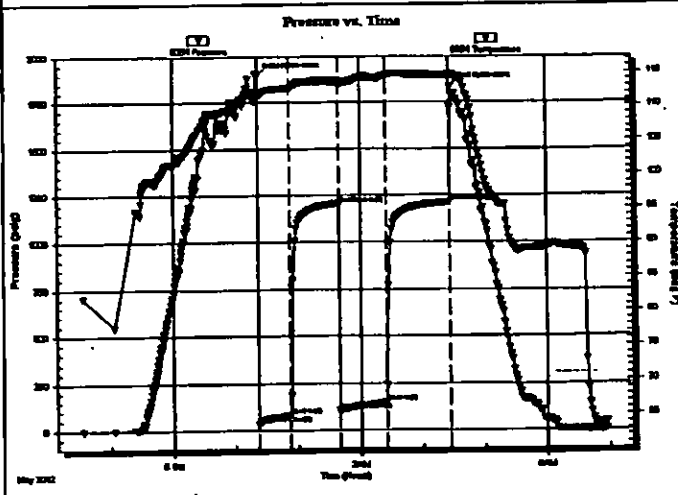
5-22s-13w Stafford, KS
Kirkman #2
Job Ticket: 47226 DST#: 1
Test Start: 2012.05.04 @ 22:23:15

GENERAL INFORMATION:

Formation: Arbuckle
Deviated: No Whipstock ft (KB)
Time Tool Opened: 01:22:15
Time Test Ended: 06:57:15
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
Test Type: Conventional Bottom Hole (Initial)
Tester: Dustin Rash
Unit No: 38
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: 2012.05.05
Start Time: 22:33:15 End Time: 08:57:15
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

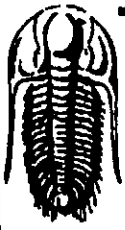
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1895.28	112.26	Initial Hydro-static
1	36.75	111.80	Open To Flow (1)
31	82.34	112.80	Shut-in(1)
78	1204.46	113.79	End Shut-in(1)
78	106.77	113.55	Open To Flow (2)
123	151.81	114.51	Shut-in(2)
185	1212.61	114.48	End Shut-in(2)
186	1833.22	114.68	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
124.00	70%Water/30%Mud	1.74
124.00	10%OW/15%Water/75%Mud	1.74
45.00	10%Gas/15%OW/75%Mud	0.63
30.00	20%Gas/80%Oil	0.42
0.00	12H' GEL	0.00

Gas Rates

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



**TRIOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Empire Energy E&P, LLC.
380 Southpointe Blvd. #130
Canonburg, PA 15917
ATTN: Josh Austin

5-22s-13w Stafford,KS
Kirkman #2
Job Ticket: 47226 DST#: 1
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

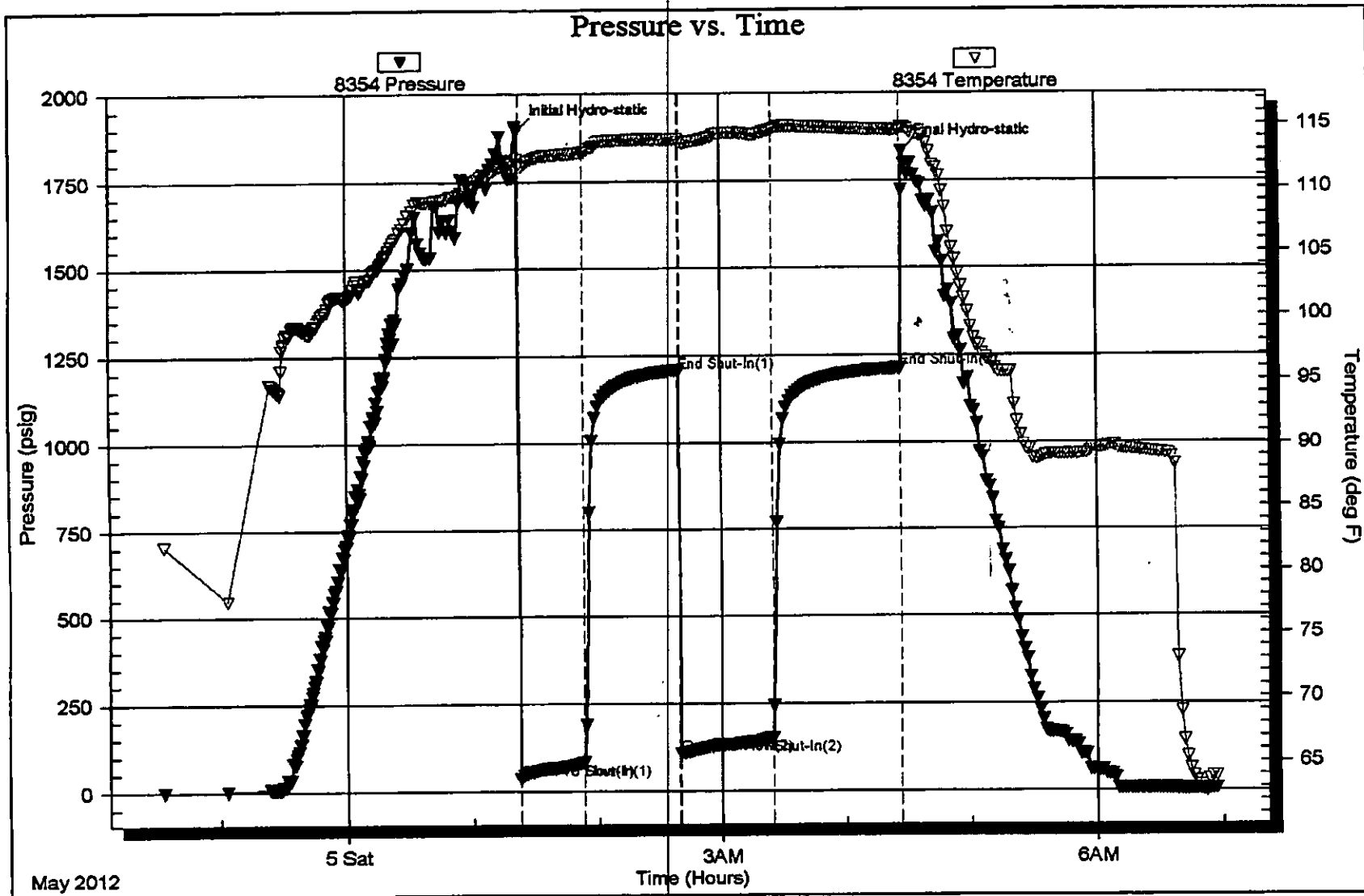
Total Length: 323.00 ft Total Volume: 4.530 bbl
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

Serial #: 8354

Inside Empire Energy E&P, LLC.

Kirkman #2

DST Test Number: 1



QUALITY OILWELL CEMENTING, INC.

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 Reed 12:45 AM

Lease	Well No.	Location
Kirkman	2	281 Hwy + K-19 Hwy Jct, 1/2 to 150 Rd

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

Type Job	To Quality Oilwell Cementing, Inc.	
Surface	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.	Charge To
12 1/4"	782'	Empire Energy

Csg.	Depth	Street
8 5/8"	778'	

Tbg. Size	Depth	City
		State

Tool	Depth	The above was done to satisfaction and supervision of owner agent or contractor.

Cement Left in Csg.	Shoe Joint	Cement Amount Ordered
36'	36'	400 sx Common 3% CC

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

EQUIPMENT

Pumptrk	No.	Cementer/Helper	2% Gel	1/2 B Flo-seal
9		Matt	Common	400
Bulktrk	No.	Driver	Poz. Mix	
12		Nick	Gel.	8
Bulktrk	No.	Driver	Calcium	14
12		Rick		

JOB SERVICES & REMARKS

Remarks	Hulls
Cement did Circulate.	
Rat Hole	Salt
Mouse Hole	Flowseal 100#
Centralizers	Kol-Seal
Baskets	Mud CLR 48
DV or Port Collar	CFL-117 or CD110 CAF 38
	Sand
	Handling 422
	Mileage

FLOAT EQUIPMENT

Guide Shoe	1 - Rubber Plug
Centralizer	1 - Baffle plate
Baskets	Pumptrk Charge Long Surface
AFU Inserts	Mileage 19
Float Shoe	
Latch Down	

<p style="font-size: 1.2em; font-family: cursive;">Richard A. Roney</p> <p>X Signature</p>	Tax Discount Total Charge
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BASIC

energy services, L.P.

TREATMENT REPORT

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>4205</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	Tubing Size	Shots/Ft		Acid	RATE	PRESS	ISIP	
<i>5 1/2</i>								
Depth <i>3092</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>Brian Pope</i>	Station Manager <i>David Scott</i>	Treater <i>Joe Melson</i>
Service Units <i>27403</i>	<i>Phye</i>	<i>37100</i>
Driver Names <i>W11967</i>	<i>11960</i>	<i>19915</i>
	<i>19915</i>	<i>Melson</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 Spins</i>
					<i>Turbolizer on</i>
					<i>1, 2, 4, 6, 8, 9, 10, 11, 12, 13, 15,</i>
					<i>17, 19, 21</i>
					<i>Proact on 1, 2, 13</i>
<i>5:00</i>					<i>Casing on Bottom Needs up 16.5 in.</i>
<i>5:45</i>			<i>6</i>	<i>4</i>	<i>Run 2550 AA2 S/Bauger</i>
			<i>4444</i>	<i>6.50</i>	<i>2005h AA2 15.3</i>
					<i>Wash Pumping</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>