



KANSAS CORPORATION COMMISSION 1082362
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: 380 SOUTHPOINTE BLVD #130

Address 2: _____

City: CANONSBURG State: PA Zip: 15917 + 0561

Contact Person: Rob Kramer

Phone: (316) 313-4395

CONTRACTOR: License # 33493

Name: American Eagle Drilling LLC

Wellsite Geologist: James Musgrove

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 #: _____

<u>9/21/2011</u>	<u>9/26/2011</u>	<u>9/27/2011</u>
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-167-23734-00-00

Spot Description: _____

SE NW NE NW Sec. 31 Twp. 15 S. R. 11 East West

360 Feet from North / South Line of Section

1667 Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE NW SE SW

County: Russell

Lease Name: Joe Driscoll Well #: 31-8

Field Name: _____

Producing Formation: Arbuckle

Elevation: Ground: 1828 Kelly Bushing: 1832

Total Depth: 3400 Plug Back Total Depth: 3400

Amount of Surface Pipe Set and Cemented at: 680 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: 11000 ppm Fluid volume: 600 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: Deanna Gerritt Date: 05/25/2012



1082362

Operator Name: Empire Energy E&P, LLC Lease Name: Joe Driscoll Well #: 31-8
 Sec. 31 Twp. 15 S. R. 11 East West County: Russell

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 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	680	common	300	3% CC, 2% gel, 1/4 #/sk flocc

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 (Amount and Kind of Material Used)	Depth
		25 sks 60/40 poz, 4% gel, 1/4 #/sk flocc	3283
		100 sks 60/40 poz, 4% gel, 1/4 #/sk flocc	730
		10 sks 60/40 poz, 4% gel, 1/4 #/sk flocc	40

TUBING RECORD: Size: _____ Set At: _____ Packer At: _____		Liner Run: <input type="checkbox"/> Yes <input type="checkbox"/> No	
Date of First, Resumed Production, SWD or ENHR. _____		Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain) _____	
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls. Gas-Oil Ratio Gravity

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> <i>(Submit ACO-4)</i> <input type="checkbox"/> Other (Specify) _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Empire Energy E&P, LLC
Well Name	Joe Driscoll 31-8
Doc ID	1082362

All Electric Logs Run

Sonic
Micro
Dual Induction
Compensated Density
Neutron Porosity

Form	ACO1 - Well Completion
Operator	Empire Energy E&P, LLC
Well Name	Joe Driscoll 31-8
Doc ID	1082362

Tops

anhydrite	677	1156
base anhydrite	706	1127
topeka	2607	-774
heebner	2892	-1059
toronto	2908	-1075
lansing	2999	-1166
conglomerate	3286	-1453
arbucke	3313	-1480

QUALITY OILWELL CEMENTING, INC.

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

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

No. 5169

Date	9-22-11	Sec.	31	Twp.	15	Range	11	County	Russell	State	KS	On Location	Finish	3:45 pm	
Lease	Joe Driscoll			Well No.	31-8			Location	Russell, KS - S to Michael's Rd, 14E						
Contractor	American Eagle #2							Owner	S/S						
Type Job	Surface							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	12 1/4"		T.D.	683'			Charge To	Empire Energy							
Csg.	8 5/8"		Depth	682'			Street								
Tbg. Size			Depth				City	State							
Tool			Depth				The above was done to satisfaction and supervision of owner agent or contractor.								
Cement Left In Csg.	44.62'		Shoe Joint	44.62'			Cement Amount Ordered	300 Six Common 3%CC							
Meas Line			Displace	40 BLS											

EQUIPMENT

Pumptrk	1	No.	Cement	Cisco		2% Gel	
			Helper			Common	300
Bulktrk	10	No.	Driver	Brian S.		Poz. Mix	
			Driver			Gel.	6
Bulktrk	pu.	No.	Driver	Rick		Calcium	10
			Driver			Hulls	

JOB SERVICES & REMARKS

Remarks:	Cement did Circulate.					
Rat Hole	Salt					
Mouse Hole	Flowseal					
Centralizers	Kol-Seal					
Baskets	Mud CLR 48					
D/V or Port Collar	CFL-117 or CD110 CAF 38					
	Sand					
	Handling 3/6					
	Mileage					

FLOAT EQUIPMENT

	Guide Shoe					
	Centralizer					
	Baskets					
	AFU Inserts					
	Float Shoe					
	Latch Down					
	1- Baffle plate					
	1- Rubber plug					
	Pumptrk Charge Long Surface					
	Mileage 27					

Todd E. Muen
Signature

Tax	
Discount	
Total Charge	

QUALITY OILWELL CEMENTING, INC.

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

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

No. 5208

Date	9/27/11	Sec.	31	Twp.	15	Range	11	County	Russell	State	KS	On Location	Finish	9:30 AM
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Lease Joe Driscoll Well No. 31-8 Location Hwy 281 + Michalec Rd., SE, Sinto

Contractor <u>American Eagle Rig #2</u>	Owner
Type Job <u>PTA</u>	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 <u>2 7/8"</u>	T.D. <u>3400'</u>
Csg.	Depth
Tbg. Size	Depth
Tool	Depth
Cement Left In Csg.	Shoe Joint
Meas Line	Displace
Charge To <u>Empire Energy</u>	
Street	
City State	
The above was done to satisfaction and supervision of owner agent or contractor.	
Cement Amount Ordered <u>16 Sx 60/40 4 1/2 gel 4 1/2 Flow</u>	

EQUIPMENT

Pumptrk	9	No.	Cement Helper <u>Paul</u>	Common	99
Bulktrk	13	No.	Driver <u>Matt</u>	Poz. Mix	66
Bulktrk	AV	No.	Driver <u>Doug</u>	Gel.	6

JOB SERVICES & REMARKS

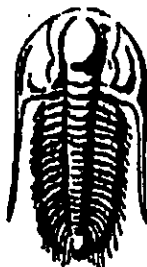
Remarks:	Hulls
Rat Hole <u>305x</u>	Salt
Mouse Hole	Flowseal <u>41#</u>
Centralizers	Kol-Seal
Baskets	Mud CLR 48
D/V or Port Collar	CFL-117 or CD110 CAF 38
<u>3283' - 255x</u>	Sand
<u>730' - 1005x</u>	Handling <u>177</u>
<u>40' - 105x</u>	Mileage

FLOAT EQUIPMENT

	Guide Shoe
	Centralizer
	Baskets <u>5 1/8" wiper plug</u>
	AFU Inserts
	Float Shoe
	Latch Down
	Pumptrk Charge <u>plug</u>
	Mileage <u>27</u>

	Tax	
	Discount	
	Total Charge	

Thank You!!
Todd E. Anna
Signature



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

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

17 Arentzen Blvd, Ste 203
Charleroi, PA 15022

ATTN: Jim Musgrove

Joe Driscoll #31-8

31-15s-11w Russell,KS

Start Date: 2011.09.26 @ 04:05:16

End Date: 2011.09.26 @ 11:42:46

Job Ticket #: 44618 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2011.09.28 @ 14:40:04

Empire Energy E&P, LLC

31-15s-11w Russell,KS

Joe Driscoll #31-8

DST # 1

Arbuckle

2011.09.26



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Empire Energy E&P, LLC
17 Arentzen Blvd, Ste 203
Charlertol, PA 15022
ATTN: Jim Musgrove

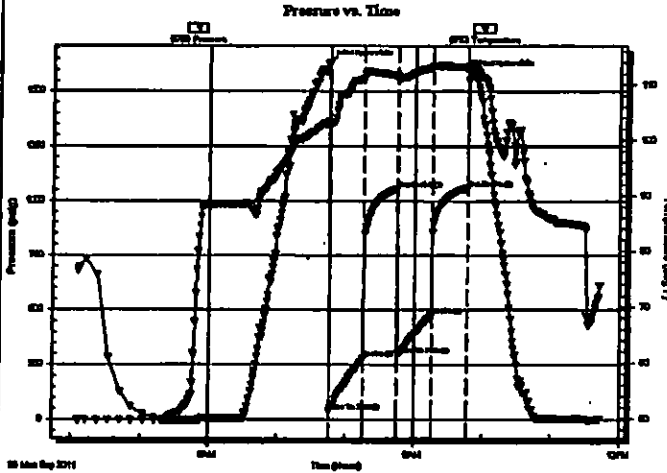
31-15s-11w Russell, KS
Joe Driscoll #31-8
Job Ticket: 44618 DST#: 1
Test Start: 2011.09.28 @ 04:05:16

GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: **No Whipstock** ft (KB)
Time Tool Opened: **07:45:46**
Time Test Ended: **11:42:48**
Interval: **3257.00 ft (KB) To 3331.00 ft (KB) (TVD)**
Total Depth: **3331.00 ft (KB) (TVD)**
Hole Diameter: **7.88 inches** Hole Condition: **Fair**
Test Type: **Conventional Bottom Hole (Initial)**
Tester: **Brett Dickinson**
Unit No: **47**
Reference Elevations: **1835.00 ft (KB)**
1828.00 ft (CF)
KB to GR/CF: **7.00 ft**

Serial #: **6753** inside
Press@RunDepth: **476.18 psig @ 3258.00 ft (KB)**
Start Date: **2011.09.26** End Date: **2011.09.26**
Start Time: **04:05:21** End Time: **11:42:45**
Capacity: **8000.00 psig**
Last Calib.: **2011.09.26**
Time On Btm: **2011.09.26 @ 07:43:46**
Time Off Btm: **2011.09.26 @ 09:48:46**

TEST COMMENT: IF-BOB in 4 min
ISI-No blow
FF-BOB in 4.5 min
ISI-No blow



PRESSURE SUMMARY

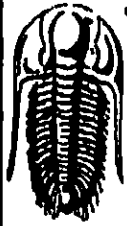
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1629.43	102.94	Initial Hydro-static
2	39.35	102.87	Open To Flow (1)
32	278.89	111.04	Shut-in(1)
61	1054.50	111.68	End Shut-in(1)
62	289.48	111.42	Open To Flow (2)
92	476.18	113.09	Shut-in(2)
123	1058.84	113.02	End Shut-in(2)
125	1582.52	113.62	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
45.00	V50WCM 2%O 10%W 88%M	0.63
360.00	WCM 40%W 60%M	5.05
625.00	Water	8.77

Gas Rates

	Choke (Inches)	Pressure (psig)	Gas Rate (Mcfd)



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Empire Energy E&P, LLC
17 Arentzen Blvd, Ste 203
Charleroi, PA 15022
ATTN: Jim Musgrove

31-16s-11w Russell, KS
Joe Driscoll #31-8
Job Ticket: 44618 DST#: 1
Test Start: 2011.09.28 @ 04:05:16

Tool Information

Drill Pipe:	Length: 3252.00 ft	Diameter: 3.80 inches	Volume: 45.62 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: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 56000.00 lb
			Total Volume: 45.62 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	16.00 ft			String Weight: Initial 53000.00 lb
Depth to Top Packer:	3257.00 ft			Final 56000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	74.00 ft			
Tool Length:	95.00 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			3237.00	
Shut In Tool	5.00			3242.00	
Hydraulic tool	5.00			3247.00	
Packer	5.00			3252.00	21.00 Bottom Of Top Packer
Packer	5.00			3257.00	
Stubb	1.00			3258.00	
Recorder	0.00	6753	Inside	3258.00	
Recorder	0.00	8319	Outside	3258.00	
Perforations	5.00			3263.00	
Change Over Sub	1.00			3264.00	
Drill Pipe	61.00			3325.00	
Change Over Sub	1.00			3326.00	
Perforations	2.00			3328.00	
Bullnose	3.00			3331.00	74.00 Bottom Packers & Anchor

Total Tool Length: 95.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Empire Energy E&P, LLC

31-16s-11w Russell, KS

17 Arentzen Blvd, Ste 203
Charleroi, PA 15022

Joe Driscoll #31-8

Job Ticket: 44618

DST#: 1

ATTN: Jim Musgrove

Test Start: 2011.09.26 @ 04:05:16

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

18000 ppm

Viscosity: 48.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.19 in³

Gas Cushion Type:

Resistivity: ohm m

Gas Cushion Pressure:

psig

Salinity: 3000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
45.00	VSONOM 2%O 10%W 88%M	0.631
360.00	WOM 40%W 60%M	5.050
625.00	Water	8.767

Total Length: 1030.00 ft

Total Volume: 14.448 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: F&W 4

