



KANSAS CORPORATION COMMISSION 1087945  
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 ) 313-4394  
CONTRACTOR: License # 34541  
Name: Ninnescah Drilling LLC  
Wellsite Geologist: James Musgrove  
Purchaser: \_\_\_\_\_

Designate Type of Completion:

- New Well     Re-Entry     Workover
- Oil     WSW     SWD     SLOW  
 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>03/21/2012</u>	<u>03/26/2012</u>	<u>04/06/2012</u>
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-185-23742-00-00

Spot Description: \_\_\_\_\_

NW NE SE SW Sec. 19 Twp. 22 S. R. 12  East  West  
1074 Feet from  North /  South Line of Section  
653 Feet from  East /  West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE     NW     SE     SW

County: Stafford

Lease Name: KRANKENBERG WEST Well #: 8-19

Field Name: \_\_\_\_\_

Producing Formation: Arbuckle

Elevation: Ground: 1870 Kelly Bushing: 1883

Total Depth: 3900 Plug Back Total Depth: 3846

Amount of Surface Pipe Set and Cemented at: 694 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: 4200 ppm Fluid volume: 950 bbls

Dewatering method used: Hauled to Disposal

Location of fluid disposal if hauled offsite:

Operator Name: Empire Energy

Lease Name: Krankenber East License #: 34506

Quarter NW Sec. 20 Twp. 22 S. R. 12  East  West

County: Stafford Permit #: 1518522889

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 Garrisor Date: 07/27/2012



1087945

Operator Name: Empire Energy E&P, LLC Lease Name: KRANKENBERG WEST Well #: 8-19  
 Sec. 19 Twp. 22 S. R. 12  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 Wire-line Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken <input type="checkbox"/> Yes <input checked="" 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: <b>Attached</b>	<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	24	694	common	400	2% gel, 3% CaCl <sub>2</sub> , 1/2 #/bk flow sea
Production	7.875	5.5	14	3892	AA-2	175	10% NaCl, .3% CFR, .25% Detramer, 0

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
4	3753-3754	150 gals. 7.5% MCA	

TUBING RECORD: Size: <u>2.875</u> Set At: <u>3782</u> Packer At: <u> </u> Liner Run: <input type="checkbox"/> Yes <input type="checkbox"/> No
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Date of First, Resumed Production, SWD or ENHR. <u>04/20/2012</u>	Producing Method: <input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain) _____
Estimated Production Per 24 Hours	Oil Bbls. <u>8.2</u> Gas Mcf <u> </u> Water Bbls. <u>180</u> Gas-Oil Ratio <u> </u> Gravity <u>40</u>

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> <input type="checkbox"/> Other (Specify) _____	PRODUCTION INTERVAL: <u>3753-3754</u>
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Form	ACO1 - Well Completion
Operator	Empire Energy E&P, LLC
Well Name	KRANKENBERG WEST 8-19
Doc ID	1087945

All Electric Logs Run

Compensated Neutron
Density
PE
Dual Induction
Sonic
Micro

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Tops

Name	Top	Depth
anhydrite	679	1203
heebner	3193	-1311
toronto	3209	-1327
douglas	3225	-1343
lansing	3349	-1467
conglomerate	3621	-1739
viola	3638	-1756
arbuckle	3751	-1869

# QUALITY OILWELL CEMENTING, INC.

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

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

No. 5477

Date	3-21-12	Sec.	19	Twp.	22	Range	12	County	Stafford	State	Ks	On Location		Finish	5:00 PM
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Lease See Below Well No. Location 281 + K-19 Sect, 4 W to 40 Ave, 2 1/2 S

Contractor	Ninnescah #101	Owner	W/into
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.	697'
Csg.	8 3/8"	Depth	697'
Tbg. Size		Depth	
Tool		Depth	
Cement Left in Csg.	42.60'	Shoe Joint	42.60'
Meas Line		Displace	4 1/2 BLS
		Charge To	Empire Energy
		Street	
		City	State
The above was done to satisfaction and supervision of owner agent or contractor.			
		Cement Amount Ordered	400 sx Common 3% CC

EQUIPMENT			
Pumptrk	15	No.	Cementer Helper Cisto
Bulktrk	13	No.	Driver Levy
Bulktrk	p.u.	No.	Driver Rick

JOB SERVICES & REMARKS	
Remarks:	Krankenber West #8-19
Rat Hole	
Mouse Hole	
Centralizers	
Baskets	
D/V or Port Collar	
Cement did	Circulate.

FLOAT EQUIPMENT	
Guide Shoe	
Centralizer	
Baskets	
AFU Inserts	
Float Shoe	
Latch Down	
1- Baffle plate	
1- Rubber plug	
Pumptrk Charge	Long Surface
Mileage	21

X Signature <i>[Signature]</i>	Tax	
	Discount	
	Total Charge	

# BASIC

energy services, L.P.

## TREATMENT REPORT

Customer Empire Energy STP LLC	Lease No.	Date
Lease KAWKewberg WEST	Well # H8-19	3-26-12
Field Order # 05614A	Station Pratt KS	Casing 5/2"
Type Job 5/2" L.S.	Depth 3892	County Stafford
Formation CNW	Legal Description T03900'	State KS

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME	
Casing Size 5/2"	Tubing Size	Shots/Ft		Acid 20 BBL KCL	2%	RATE	PRESS
Depth 3892	Depth	From	To	Pre-Pad 12 BBL mud flush			ISIP
Volume 94	Volume	From	To	Pad 175 SKS AA2C	15.3 #/GAL		5 Min.
Max Press 1500*	Max Press	From	To	Frac 20 SKS R.H. 60/40 Poz			10 Min.
Well Connection PC	Annulus Vol.	From	To	20 SKS m.H. 60/40 Poz			15 Min.
Plug Depth 3850	Packer Depth	From	To	Flush Disp 2% KCL			Annulus Pressure
					Gas Volume		Total Load

Customer Representative Rick Papp	Station Manager scotty	Treater Allen
Service Units 28443 19903 19905 19960 19918 19877		
Driver Names Allen Eric wright Dale Phye James Anthony		

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
945 PM 3-25-12					on loc. Discuss Safety, Setup Plan Job Rig lay down Drill Collars. Lay down Kelly. & m.H. Rig up to Run csg
1200 AM 3-26-12					start 5/2" csg. Shoe Joint 42.10' w/Float Shoe L.O. Baffle in collar. cent 1-3-5-7-9-11-13-15-17-19 (14" csg) Basket Pin # 14
230					Tas bottom @ 3900 Pick up to 3892 & CIR.
335	200*		20	5	Pump 20 BBLs H <sub>2</sub> O 2% KCL
			12	5	Pump 12 BBLs mud flush
				5	Pump 3 BBLs N <sub>2</sub> O spacer
			42		mix + Pump 175 SKS AA2C 15.3 #
400				5/2	Finish mix wash out Pump + Line Drop L.O. Plug, start Disp: Rotate
	500*			5	caught Lift @ 70 BBLs Pipe
415	1500*		94	4	Plug down Release PSI - 0*
	0*		7		Plug R.H. w/ 30 SKS 60/40 Poz
			5		Plug m.H. w/ 20 SKS 60/40 Poz wash up + Rack up Equip
530					Job complete thanks Allen, James, Eric, Dale