



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
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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: _____



1059805

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)</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	Boxberger Solomon 14
Doc ID	1059805

All Electric Logs Run

Dual Induction
Compensated Neutron/Density
Micro
Sonic

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Tops

Name	Top	Datum
Anhydrite	831	+1014
Grand Haven	2366	-521
1st Tarkio Sand	2377	-532
2nd Tarkio Sand	2403	-558
Topeka	2699	-854
Heebner	2931	-1086
Toronto	2950	-1105
Lansing	2991	-1146
Base Kansas City	3194	-1349
Reagan Sand	3251	-1406
Granite Wash	3311	-1466

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Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
3	2991-2992, 2995-2996, 2998-3000	200 gals. acid, 80 sks. cement	2991-3000
4	3015-3017	100 gals. acid	3015-3017
5	3031-3038, 3042-3048	1100 gals. acid	3031-3048
5	3078-3080	550 gals. acid	3078-3080
5	3088-3096, 3110-3112, 3120-3124	600 gals. acid	3088-3124
5	3139-3141	550 gals. acid	3139-3141
5	3155-3157, 3161-3163	450 gals. acid	3155-3163
5	3172-3173, 3178-3182	450 gals. acid	3172-3182
3	3252-3258, Set CIBP		3245

JAMES C. MUSGROVE
Petroleum Geologist
212 Main Street
P.O. Box 215
Claflin, KS 67525

Office (620) 588-4250

Res. Claflin (620) 587-3444

Empire Energy E & P, LLC
Solomon Boxberger #14
1669' FNL & 980' FWL
Section 10-14s-14w
Russell County, Kansas
Page 1

5 1/2" Production Casing Set

Contractor: American Eagle Drilling Company (Rig #3)

Commenced: June 2, 2011

Completed: June 7, 2011

Elevation: 1845' K.B; 1843 D.F; 1840' G.L.

Casing program: Surface; 8 5/8" @ 867'
Production; 5 1/2" @ 3349'

Sample: Samples saved and examined 2300' to the Rotary Total Depth.

Drilling time: One (1) foot drilling time recorded and kept 2300 ft to the Rotary Total Depth.

Measurements: All depths measured from the Kelly Bushing.

Drill Stem Tests: None.

Electric Log: By Superior Well Services; Dual Induction, Compensated Neutron/Density, Micro and Sonic Log.

<u>Formation</u>	<u>Log Depth</u>	<u>Sub-Sea Datum</u>
Anhydrite	831	+1014
Grand Haven	2366	-521
1 st Tarkio Sand	2377	-532
Dover	2393	-548
2 nd Tarkio Sand	2403	-558
Tarkio Lime	2437	-592
Willard Shale	2457	-612
Elmont	2497	-652
Scranton Shale	2575	-730
Howard	2639	-794
Severy Shale	2681	-836
Topeka	2699	-854
Heebner	2931	-1086
Toronto	2950	-1105
Lansing	2991	-1146
Base Kansas City	3194	-1349
Reagan Sand	3251	-1406
Granite Wash	3311	-1466
Rotary Total Depth	3350	-1505
Log Total Depth	3344	-1499

(All tops and zones corrected to Electric Log measurements).

SAMPLE ANALYSIS, SHOWS OF OIL, TESTING DATA, ETC.

TOPEKA SECTION

- 2736-2742' Limestone; gray, chalky, trace black stain, no show of free oil and no odor in fresh samples.
- 2828-2846' Limestone; white, granular, scattered pinpoint porosity, golden brown stain, trace of free oil and no odor in fresh samples.
- 2853-2870' Limestone; gray, white, fossiliferous/oolitic, fair porosity, golden brown and brown stain, trace free oil and faint odor in fresh samples.
- 2880-2908' Limestone; as above, granular, chalky, spotty brown stain, trace of free oil and questionable odor in fresh samples.

TORONTO SECTION

- 2950-2964' Limestone; gray and cream, finely crystalline, scattered porosity, pinpoint, light brown stain, trace of free oil and no odor in fresh samples.

LANSING SECTION

- 2991-3002' Limestone; white, cream, slightly fossiliferous, scattered porosity, brown stain/saturation, show of free oil and questionable odor in fresh samples.
- 3012-3018' Limestone; white, finely crystalline, finely oolitic, chalky, brown stain, weak show of free oil and no odor in fresh samples.
- 3030-3048' Limestone; gray, brown, sub oomoldic, fossiliferous, dark brown stain, trace of free oil and faint odor in fresh samples.
- 3062-3068' Limestone; white, fossiliferous, chalky, poor visible porosity, questionable stain, no show of free oil and no odor in fresh samples.
- 3075-3083' Limestone; gray/tan, oolitic, sub oomoldic, chalky, trace stain, poor show of free oil and no odor in fresh samples.
- 3087-3106' Limestone; cream, oolitic, oomoldic, good oomoldic and vuggy type porosity, fair stain, show of free oil and odor in fresh samples.
- 3137-3148' Limestone; white, gray, sub oomoldic, fossiliferous, porosity, poor stain.
- 3151-3168' Limestone; white, highly oolitic, chalky, fair porosity, golden brown stain, show of free oil and faint odor in fresh samples.
- 3176-3182' Limestone; gray and white, oolitic, sub oomoldic, chalky increasingly cherty, poor visible porosity, fair stain and saturation, show of free oil and odor in fresh samples.

MARMATON SECTION

- 3210-3224' Limestone; gray and white, finely crystalline, fossiliferous, chalky, cherty, poor visible porosity, no shows.

REAGAN SECTION

3251-3266' Sand; white, clear, very fine grained, sub rounded, good sorting, friable, fair to good intergranular porosity, golden brown stain and saturation, show of free oil and fair odor in fresh samples.

3266-3294' Sand; clear, pink, very fine grained, sub rounded, friable, fair porosity, trace stain, show of free oil and questionable odor in fresh samples.

3294-3311' Sand; as above, fair to good porosity, few medium and coarse grained, gray and brown stain, show of free oil and strong odor in fresh samples.

GRANITE WASH SECTION

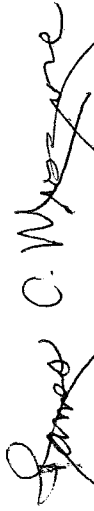
3311-3350' Granite; pink and red, gray and white to clear angular quartz, sub rounded, loose quartz grains and varied colored micas.

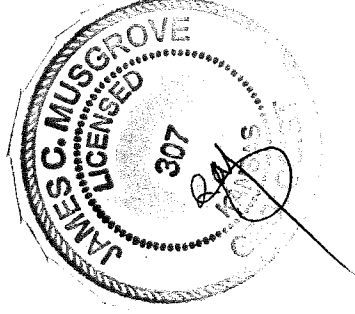
Rotary Total Depth 3350 (-1505)
Log Total Depth 3344 (-1499)

Recommendations:

5 1/2" production casing was set and cemented at 3349'.

Respectfully submitted;


James C. Musgrove,
Petroleum Geologist



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. 5018

Date	6/3/11	Sec.	10	Twp.	M	Range	14	County	Russell	State	KS	On Location		Finish	6:00 AM	
Lease	Boxberger Solompa			Well No.	14			Location	Russell, 1 S, 3/4 W, Sinto							
Contractor	American Edge Drilling Rgt #3							Owner	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.							
Type Job	Surface							Charge To	Empire Energy							
Hole Size	12 1/4"			T.D.	868'			Depth	867'							
Csg.	8 5/8" 24#			Depth												
Tbg. Size									Street							
Tool									City	State						
Cement Left in Csg.	32'			Shoe Joint	32'			The above was done to satisfaction and supervision of owner agent or contractor.								
Meas Line				Displace	53 Bbls.			Cement Amount Ordered	320 sxc Com 30/cc 2/gel							

EQUIPMENT

Pumptrk	9	No.	Cement Helper	Paul	Common	320
Bulktrk	12	No.	Driver	Neale	Poz. Mix	
Bulktrk	PV	No.	Driver	Rocky	Gel.	6
			Driver		Calcium	11

JOB SERVICES & REMARKS

Remarks:	Hulls
Rat Hole	Salt
Mouse Hole	Flowseal
Centralizers	Kol-Seal
Baskets	Mud CLR 48
D/V or Port Collar	CFL-117 or CD110 CAF 38
Est. Circ.	Sand
Mix 320 sxc	Handling 551
Displace	Mileage 11
Land Plug	8 7/8
Cement Circulated	FLOAT EQUIPMENT
	Guide Shoe
	Centralizer
	Baskets
	AFU Inserts
	Float Shoe
	Latch Down
	1 Baffle Plate, Rubber Plug Head + Manifold
	Pumptrk Charge Long Surface
	Mileage 2

Thank You!!!

X Signature

Bradford Richer

Tax
Discount
Total Charge

BASIC

energy services, L.P.

TREATMENT REPORT

Customer Empire Energy ELP		Lease No.		Date 6-8-11	
Lease Boyerberger-Solomon		Well # 14			
Field Order # 0391164	Station Pratt	Casing 5 1/2"	Depth 3348	County Russell	State KS
Type Job 5 1/2" Long String		Formation CNU		Legal Description 10-14-14	

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size 5 1/2"	Tubing Size	Shots/Ft		Acid		RATE	PRESS	ISIP
Depth 3348	Depth	From	To	Pre Pad		Max		5 Min.
Volume 1 1/2	Volume	From	To	Pad	20 20 SKS NA-2 @ 15.3 #/gal	Min		10 Min.
Max Press 1500 #	Max Press	From	To	Frac	30 SKS 60/40	Avg		15 Min.
Well Connection PC	Annulus Vol.	From	To		20 SKS 60/40 Poz	HHP Used		Annulus Pressure
Plug Depth 3306	Packer Depth	From	To	Flush	Disc 20% KCL	Gas Volume		Total Load

Customer Representative Rick Boor	Station Manager Scotty	Treater Allen
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Service Units	28443	19889	19842	19832	19862					
Driver Names	Allen	Keenan	Lesly	JR	Hunter					

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
4:50 AM					Service Log A E # 3 w/loc. Discuss Safety Setup Plan Job Laying down collars
6:00					out of Hole Lay down Kelly. Rig up to Row 5 1/2" casing
7:20					1783.98 of 14 1/2, 1917.98 15.5 # Shoe Joint 41.00' w/ auto fill. Flent Shoe, + L.D. Baffle in collar Cent-1-3-5-7-9-11-13-15-17-19 Basket Pin #4 Pin #10
9:00					circ down to 3348. -10' up.
10:15	300 #		5	4	circ w/ Rig. + Rotate. start mix 20 SKS 60/40 Poz 2% gel @ 12.5 # w/ Bleach water.
			48	5	start mix 200 SKS NA 2 @ 15.3 # Finish mix cont. washout P.L.
	200 #			6	Drop L.D. Plug. start Disp.
	500 #				Caught Lift w/ 40 Bbls out
	800 #			5	some plugging action during Disp.
11:00	1500 #		79	4 1/2	Plug Down Release - OK
12:30	0 #				Plug Rat hole w/ 30 SKS 60/40 Poz

10244 NE Hiway 61 • P.O. Box 8613 • Pratt, KS 67124-8613 • (620) 672-1201 • Fax (620) 672-5383