



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: _____



1073152

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	HELMERS UNIT 3
Doc ID	1073152

All Electric Logs Run

Compensated Density/Neutron PE
Compensated Density/Neutron PE (Sandstone Matrix)
Dual Induction
Micro
Sonic
Cement Bond Log

Form	ACO1 - Well Completion
Operator	Empire Energy E&P, LLC
Well Name	HELMERS UNIT 3
Doc ID	1073152

Tops

Name	Top	Datum
Anhydrite	600	1229
Heebner	3078	-1249
Toronto	3095	-1266
Douglas	3109	-1280
Brown Lime	3204	-1375
Lansing	3230	-1401
Base Kansas City	3451	-1622
Viola	3481	-1652
Simpson Shale	3517	-1688
Arbuckle	3564	-1735
TD	3670	-1841

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
Helmets Unit #3
NE-NW-NW-SW; Section 1-22s-12w
Stafford County, Kansas
Page 1

5 1/2" Production Casing Set

Contractor: Ninescah Drilling Company (Rig #10)
Commenced: October 15, 2011
Completed: October 22, 2011
Elevation: 1829' K.B; 1827 D.F; 1816' G.L.
Casing program: Surface; 8 5/8" @ 586'
Production; 5 1/2" @ 3669'
Sample: Samples saved and examined 2700' to the Rotary Total Depth.
Drilling time: One (1) foot drilling time recorded and kept 2700 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 Density/Neutron Porosity Log, Micro Log and Sonic Log.

<u>Formation</u>	<u>Log Depth</u>	<u>Sub-Sea Datum</u>
Anhydrite	600	+1229
Base Anhydrite	606	+1223
Heebner	3078	-1249
Toronto	3095	-1266
Douglas	3109	-1280
Brown Lime	3204	-1375
Lansing	3230	-1401
Base Kansas City	3451	-1622
Viola	3481	-1652
Simpson Shale	3517	-1688
Arbuckle	3564	-1735
Rotary Total Depth	3670	-1841
Log Total Depth	3670	-1841

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

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

TORONTO SECTION

3095-3109' Limestone; tan, cream, finely crystalline, chalky, fair porosity, trace brown stain, no show of free oil and no odor in fresh samples.

LANSING SECTION

3230-3246'	Limestone; cream, gray, finely crystalline, trace vuggy type porosity, brown spotty stain, trace of free oil and very faint odor in fresh samples.
3250-3260'	Limestone; light gray, finely crystalline, cherty, poor porosity, no shows.
3271-3280'	Limestone; cream, tan, fossiliferous, granular, fair porosity, no shows.
3290-3294'	Limestone; gray, tan, granular, fossiliferous, trace brown stain, no show of free oil and no odor in fresh samples.
3302-3312'	Limestone; tan, cream, fine and medium crystalline, slightly oolitic, fair porosity, trace brown stain, trace of free oil and faint odor in fresh samples.
3314-3340'	Limestone; tan, cream, finely crystalline, chalky, plus gray boney chert.
3360-3366'	Limestone; cream, oolitic, oomoldic, fair oomoldic porosity, no shows.
3375-3384'	Limestone; cream, oolitic, fair oomoldic porosity, no shows.
3394-3404'	Limestone; cream, light gray, finely crystalline, slightly oolitic, fair visible porosity, slightly cherty.
3420-3430'	Limestone; cream, tan, finely crystalline, cherty, poor porosity.
3440-3446'	Limestone; cream, medium crystalline, fair, intercrystalline porosity, brown stain, show of free oil and no odor in fresh samples.

VIOLA SECTION

3481-3516'	Chert; white, gray, boney opaque weathered in part, trace black and brown stain, trace free oil and faint odor in fresh samples.
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SIMPSON SECTION

3547-3590'	Sand; tan, medium grained, sub angular, fair intergranular porosity, brown and black stain, show of free oil and faint to fair odor in fresh samples.
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ARBUCKLE SECTION

3564-3570'	Dolomite; tan, finely crystalline, fair intercrystalline porosity, brown and golden brown stain, show of free oil and fair odor in fresh samples.
3570-3590'	Dolomite; cream, tan, fine and medium crystalline, sucrosic in part, few scattered intercrystalline and vuggy type porosity, brown stain, show of free oil and fair odor in fresh samples.
3590-3610'	Dolomite; tan, medium crystalline, good intercrystalline porosity, brown stain, show o free oil and good odor in fresh samples.

3610-3630'	Dolomite; tan, cream, medium crystalline, good intercrystalline and vuggy type porosity, brown stain, show of free oil and fair odor in fresh samples.
3630-3650'	Dolomite; cream, tan, fine and medium crystalline, few granular, poor visible porosity, brown and black stain, trace of free oil and faint odor.
3650-3660'	Dolomite; cream, fine and medium crystalline, good intercrystalline porosity, black stain, no show of free oil and faint odor in fresh samples.
3660-3670'	Dolomite; cream, fine and medium crystalline, slightly sucrosic, trace black stain, trace of white chert.

Rotary Total Depth	3670
Log Total Depth	3670

Recommendations:

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

Respectfully submitted;


Joshua R. Austin,
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. 5022

Date	Sec.	Twp.	Range	County	State	On Location	Finish
10-18-11				Stafford	Kansas		9:15 AM
Lease <i>Holmes Unit</i>	Well No. <i>3</i>		Location <i>K-19 9 Hwy 281 SE 1/4 E1/4</i>				
Contractor <i>Ninnescah</i>				Owner			
Type Job <i>Surface</i>				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 <i>12 1/4</i>	T.D. <i>591</i>		Charge To <i>Empire Energy</i>				
Csg. <i>8 1/2</i>	Depth <i>584</i>		Street				
Tbg. Size	Depth		City				
Tool	Depth		State				
Cement Left in Csg. <i>10-15</i>	Shoe Joint		The above was done to satisfaction and supervision of owner agent or contractor.				
Meas Line	Displace <i>365 Bbl</i>		Cement Amount Ordered <i>350</i> 420 <i>Common</i>				
EQUIPMENT				<i>3 1/2 1/2 Flo Seal</i>			
Pumptrk <i>5</i>	No.	Cement Helper	<i>Steve</i>				
Bulktrk <i>10</i>	No.	Driver	<i>Gray</i>				
Bulktrk	No.	Driver					
JOB SERVICES & REMARKS				Common			
Remarks:				Poz. Mix			
Rat Hole				Gel. <i>7</i>			
Mouse Hole				Calcium <i>13</i>			
Centralizers				Hulls			
Baskets				Salt			
D/V or Port Collar				Flowseal <i>874</i>			
				Kol-Seal			
				Mud CLR 48			
				CFL-117 or CD110 CAF 38			
				Sand			
				Handling <i>370</i>			
				Mileage			
FLOAT EQUIPMENT							
				Guide Shoe			
				Centralizer			
				Baskets			
				AFU Inserts			
				Float Shoe			
				Latch Down			
				<i>Rubber Plug</i>			
				Pumptrk Charge <i>Surface</i>			
				Mileage <i>23</i>			
				Tax			
				Discount			
				Total Charge			
Signature <i>Richard B. Barry</i>							

RECEIVED OCT 28 2011

Customer Empire Energy F+P LLC		Lease No.		Date 10-22-11	
Lease HELMERS		Well # # 3			
Field Order # #04474A	Station Pratt KS	Casing 5 1/2"	Depth 3664	County Stafford	State KS
Type Job 5 1/2" Long String		Formation TD 3670'		Legal Description 7-22-12	

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME	
Casing Size 5 1/2"	Tubing Size	Shots/Ft	175 SKS	Acid AA2 cement	15.3 #	RATE	PRESS
Depth 3664	Depth	From	To	Pre Pad	Max	ISIP	
Volume 88.3001	Volume	From	To	Pad	Min	5 Min. R+H+MH	
Max Press 1500 #	Max Press	From	To	Frac	Avg	10 Min.	
Well Connection PC	Annulus Vol.	From	To		HHP Used	Annulus Pressure	
Plug Depth 3622	Packer Depth	From	To	Flush	Gas Volume	Total Load	

Customer Representative Rick Papp		Station Manager 19960-19918 Scotty		Treater Allen	
Service Units 2844 27403					
Driver Names Allen Brad JR Hunter					

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
230					on Loc. Discuss Safety, Setup Plan To Rig up to Run 5 1/2" casing. 14 #
320					Start 5 1/2" casing. Shoe Jt 42.12 cent-1-3-5-7-9-11-13-15-17-19
					Basket on Pin # 12 - Float Shoe + insert on #1 - Shoe Jt.
					Tag Bottom @ 3670' Pickup To 3664' Hook up + cir. + Rotate Pipe
530			20	5	Pump 20 BBL 2% KCL
630	300 #		12	5	Pump 12 BBL MUD Flush
				5	Pump 3 BBL H ₂ O spacer
			42		mix + pump 175 SKS AA2 @ 15.3 #
					Finish mix wash out Pump + line
645				6 1/2	Drop Latch Down Plug. Start Disp.
				6	caught Lift PST w/ 58 BBL out
700	1500 #		88 1/2	4	Plug down
	OH				Release PST To TRK OK
			7		Plug R.H. w/ 30 SKS 60/40 Poz 2% gel
			5		Plug M.H w/ 20 SKS 60/40 Poz 2% gel
					wash up Equip. + Rack up
					Job complete
					thanks Allen Brad, Hunter