

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

1065073

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	API No. 15
Name: Empire Energy E&P, LLC	Spot Description:
Address 1:17 ARENTZEN BLVD, STE 203	S2_S2_N2_Sec. 18_Twp. 11_S. R. 17East West
Address 2:	2310 Feet from V North / South Line of Section
City: CHARLEROL State: PA Zip: 15022 +	
Contact Person: Rob Kramer	Footages Calculated from Nearest Outside Section Corner:
Phone: (316) 712-2345	☑ne □nw □se □sw
CONTRACTOR: License # 33493	County: Ellis
Name: American Eagle Drilling LLC	Lease Name: Well #:
Wellsite Geologist: James Musgrove	Field Name: Bemis - Shutts
Purchaser: Coffeyville Resources	Producing Formation: Arbuckle
Designate Type of Completion:	Elevation: Ground: 1880 Kelly Bushing: 1887
✓ New Well Re-Entry Workover	Total Depth: 3538 Plug Back Total Depth: 3483
✓ Oil	Amount of Surface Pipe Set and Cemented at: 1142 Feet
Gas D&A DENHR DIGW	Multiple Stage Cementing Collar Used? ☐ Yes ✓ No
☐ OG ☐ GSW ☐ Temp. Abd.	If yes, show depth set:Feet
CM (Coal Bed Methane)	If Alternate II completion, cement circulated from:
Cathodic Other (Core, Expl., etc.):	feet depth to:w/sx cmt.
If Workover/Re-entry: Old Well Info as follows:	
Operator:	Drilling Fluid Management Plan
Well Name:	(Data must be collected from the Reserve Pit)
Original Comp. Date: Original Total Depth:	Chloride content: 16000 ppm Fluid volume: 220 bbls
☐ Deepening ☐ Re-perf. ☐ Conv. to ENHR ☐ Conv. to SWD	Dewatering method used: Evaporated
Conv. to GSW	·
Plug Back: Plug Back Total Depth	Location of fluid disposal if hauled offsite:
☐ Commingled Permit #:	Operator Name:
SWD Permit #:	Lease Name: License #:
ENHR Permit #:	Quarter Sec TwpS. R
GSW Permit #:	County: Permit #:
07/01/2011 07/18/2011 08/01/2011	
Spud Date or Date Reached TD Completion Date or Recompletion Date	, '

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 VI III Approved by: Deanne Gerrisor Date: 10/14/2011

Side Two



Operator Name: Em	pire Energy E&P	, LLC	Lease	Name: _	CARMICHAEL-K	OLLMAN W. UNI	T_Well#: _4_	
Sec. 18 Twp. 11	s. R. <u>17</u>	☐ East 🗸 West	County	: Ellis				
INSTRUCTIONS: Sh time tool open and clo recovery, and flow rate line Logs surveyed. A	osed, flowing and shu es if gas to surface te	it-in pressures, wheth est, along with final cl	her shut-in pres	sure rea	ched static level	, hydrostatic pre	ssures, bottom l	
Drill Stem Tests Taken		Yes V	0	V L	og Formatio	on (Top), Depth	and Datum	Sample
Samples Sent to Geo	logical Survey	☐ Yes 🗸 N	0	Nam Attach	Name		Top Attached	Datum Attached
Cores Taken Electric Log Run Electric Log Submitter (If no, Submit Copy		Yes V N Yes N Yes N	0	Attaci			Allaorica	, masiliss
List All E. Logs Run: Attached								
			SING RECORD s set-conductor, si	✓ Ne	ew Used ermediate, produc	tion, etc.		197,
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Wei Lbs.	ght	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
Surface	12.25	8.625	23		1142	common	450	3% CaCl2, 2% gel
Production	7.875	5.5	14		3532	common	225	10% NaCl, 2% gel, 5#/sk gilsonite, 1/4 #
		<u></u>			··			
		ADDITIO	ONAL CEMENTI	NG / SQI	JEEZE RECORD) 	·	
Purpose: —— Perforate —— Protect Casing	Depth Top Bottom	Type of Cement # Sacks		s Used	Jsed Type and Percent Additives			•
Plug Off Zone	-					···-		
Shots Per Foot		ION RECORD - Bridge Footage of Each Interven				acture, Shot, Ceme Amount and Kind of	ent Squeeze Reco Material Used)	rd Depth
4	3434-3435					*		
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	· .		- Na 40.0 . 1	······································				
						•		
TUBING RECORD:	Size: 2.875	Set At: · 3483	Packer A	At:	Liner Run:	☐ Yes 🕡 I	No	
Date of First, Resumed 08/03/2011		NHR. Producing	g Method:	ng [Gas Lift	Other (Explain)		
Estimated Production Per 24 Hours	Oil 7	Bbls. Gas	Mcf	Wat	ter £	3bls.	Gas-Oil Ratio	Gravity 31
DISDOSITI	ON OF GAS:		METHOD OF	F COMPL	FTION:		PRODUCTI	ON INTERVAL:
Vented Solo		Open Hole	Perf.		y Comp. 🔲 Co	ommingled bmit ACO-4)	3434	
(If vented, Su	bmit ACO-18.)	Othor (Sasa	A.A	, 5651111	1001	.,	3435	

Form	ACO1 - Well Completion
Operator	Empire Energy E&P, LLC
Well Name	CARMICHAEL-KOLLMAN W. UNIT 4
Doc ID	1065073

All Electric Logs Run

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Form	ACO1 - Well Completion
Operator	Empire Energy E&P, LLC
Well Name	CARMICHAEL-KOLLMAN W. UNIT 4
Doc ID	1065073

Tops

Name	VQ)	Datum
Anhydrite	1131	756
Base Anhydrite	1167	720
Topeka	2827	-940
Heebner	3054	-1167
Toronto	3076	-1189
Lansing	3098	-1211
Base Kansas City	3332	-1445
1st Simpson	3350	-1463
2nd Simpson	3365	-1478
Arbuckle	3386	-1499



PO BOX 31 Russell, KS 67665

INVOICE

Invoice Number: 128006

Invoice Date: Jul 19, 2011

Page:

1

Voice: Fax: (785) 483-3887 (785) 483-5566

Bill To:

Empire Energy c/o Randy Weigel P O Box 187 Plainville, KS 67663

Customer ID Well Name# or Customer P.O. Payment Terms					
EmpiEne	CrmchlKlimnWUn#4 AFE	Net 30	Days		
Job Location	Camp Location	Service Date	Due Date		
KS2-01	Russell	Jul 14, 2011	8/18/11		

Quantity	Item	Description	Unit Price	Amount
270.00	MAT	Class A Common	16.25	4,387.50
180.00	MAT	Pozmix	8.50	1,530.00
7.00	MAT	Gel	21.25	148.75
14.00	MAT	Chloride	58.20	814.80
471.00	SER	Handling	2.25	1,059.75
30.00	SER	Mileage 471 sx @.11 per sk per mi	51.81	1,554.30
1.00	SER	Surface	1,925.00	1,925.00
60.00	SER	Pump truck Mileage	7.00	420.00
60.00	SER	Light Vehicle Mileage	4.00	240.00
1.00	EQP	8.5/8 Baffle Plate	84.00	84.00
1.00	EQP	8.5/8 Solid Rubber Plug	79.00	79.00
1.00	CEMENTER	Shane Poche		
1.00	CEMENTER	Heath Long 0.9 2011		
1.00	CEMENTER	Heath Long Glenn Ginther Woody C'Neil APPROVED AUG 0 8 2011		
1.00	OPER ASSIST	Woody O'Neil		
1.00	EQUIP OPER	Ron Bennett , , /		
1.00	OPER ASSIST	Walter Keith Juliaget		
		Karag		
		C		
		ask and		
		Ron Bennett Walter Keith Randy Weigel RSN 9208		
		L L		

ALL PRICES ARE NET, PAYABLE 30 DAYS FOLLOWING DATE OF INVOICE. 1 1/2% CHARGED THEREAFTER. IF ACCOUNT IS CURRENT, TAKE DISCOUNT OF

\$ 3/12.9/

ONLY IF PAID ON OR BEFORE
Aug 13, 2011

 Subtotal
 12,243.10

 Sales Tax
 443.78

 Total Invoice Amount
 12,686.88

 Payment/Credit Applied
 12,686.88

ALLIED CEMENTING CO., LLC. 039660

REMIT TO P.O. BOX 31		SERV	ICE POINT:	•
RUSSELL, KANSAS 67665	,		PUSSE	LKSZ
			7	
n in 17 1/1 0 1/1 10 1 1	ALLED OUT	ON LOCATION	JOB START	JOB FINISH
DATE Y-14-2011 18 115 1703 CARMICHAEL WEST UNITE			7:00	7:30 PM
CARMICHAEL WEST UNITE LOCATION Hay & K	s. N. TO R	ue PD.	COUNTY Ellis	STATE
OLD OR VEW (Circle one)			6/1/5	
SIZE	2 S INTO	<u> </u>		
CONTRACTOR AMERICAN FOCLE RIGHT	OWNER			
TYPE OF JOB LONG SURFACE	OWNER	<u>-</u>		
HOLE SIZE /2 /4 T.D. 1145	CEMENT		10	
CASING SIZE & 5/8 NOW DEPTH 1142	AMOUNT ORD	_{roen} 450		32cc_
TUBING SIZE #GG, DEPTH	AMOUNT ORD	EKED 1	SX 70	Socc_
DRILL PIPE DEPTH			GeL	
TOOL BAFFLO PLATE DEPTHE 1/00				
PRES. MAX MINIMUM	COMMON	270	a 11 2cm	- // 20.20
MEAS. LINE 2. SHOE JOINT 42.31	COMMON	180		1530,00
CEMENT LEFT IN CSG. 42, 3	POZMIX	177	@ P.50	198,75
PERFS.	GEL		@21,25	
DICDI ACEMENT	CHLORIDE	. //	@ <u>-58, 20</u>	814.50
	ASC	<u> </u>	.@	
EQUIPMENT	4.9		.@	
Share Heach		799	.@	
PUMP TRUCK CEMENTER GIENAL				
# 4/7 HELPER Weedy			<u>@</u>	
BULK TRUCK	-	•	. @	
# 423 DRIVER ROW - WALTOR			.@	
BULK TRUCK			.@	
# DRIVER		(1-)	.@	
	HANDLING	4//	@ 27,25	1059,75
	MILEAGE	USIC forte	4	1559,36
REMARKS:			TOTAL	9495715
RON 17 TT'S New 23 # 85/8 CSG,				
Set @ 1/42 Recieved Circulation.		SERVIC	Œ	
+ M. XeD 450 5x 1 32 CC 22 Gel		· ····	***************************************	
Release TRP. & Displace, 70 BRI/ H, 0	DEPTH OF JOB			•
LAND Plun @ 1,000 HE & ShuT IN	PUMP TRUCK			1925,00
	EXTRA FOOTA	GE	@	
ement DD CACULATE TO SURFACE	MILEAGE		@ 7/0.	42010
THANK'S	MANIFOLD_		@ .	(
	CUL	60	@ 4100	280
			@	
CHARGETO: EMPIRE ENFREY EXP, UC				
CHAROCTO. ZAPIKE ZIVEKEL EVE, LIC	•		TOTAL	2585100
STREET			IOIAL	2, 20
CITYSTATEZIP				
CITISTATEZIP	P.	LUG & FLOAT	EOUIPMEN	T '
	10 78 BAF	FLE FIATE		700
		FLE Plate O Rubbar Ply	f.@	79103
To Allied Cementing Co., LLC.	1		_@	
You are hereby requested to rent cementing equipment	*			
and furnish cementer and helper(s) to assist owner or			_@	
contractor to do work as is listed. The above work was				
done to satisfaction and supervision of owner agent or			TOTAL	163,00
contractor. I have read and understand the "GENERAL		•		
TERMS AND CONDITIONS" listed on the reverse side.	SALES TAX (If	Any)		
11112 COLIDITION OF MIND OF MIND FORMS SINC.	TOTAL CHARC			
PRINTED NAME	DISCOUNT	50/20	IF PATI	D IN 30 DAYS
Jun Os.		7	AL L(M)	
Tolle. Illing				
SIGNATURE TOME MILL				



PO BOX 31 Russell, KS 67665

INVOICE

Invoice Number: 127938

Invoice Date: Jul 18, 2011

Page:

1

Voice: Fax:

(785) 483-3887 (785) 483-5566

Bill To:

Empire Energy c/o Randy Weigel P O Box 187

Plainville, KS 67663

CustomerID	Well Name# or Customer P.O.	Payment	Terms
EmpiEne	CKWV#4 AFE	Net 30	Days
Job Location	Camp Location	Service Date	Due Date
KS2-02	Russell	Jul 18 2011	8/17/11

Quantity	ltem	Description	Unit Price	Amount
261.00	MAT	Class A Common	16.25	4,241.25
24.00	MAT	Pozmix	8.50	204.00
6.00	MAT	Gel	21.25	127.50
10.00	MAT	Salt .	23.95	239.50
71.00	MAT	Flo Seal	2.70	191.70
1,425.00	MAT	Gilsontie	0.89	1,268.25
331.00	SER	Handling	2.25	744.75
30.00	SER	Mileage 331 sx @.11 per sk per mi	36.41	1,092.30
1.00	SER	Long String	2,125.00	2,125.00
60.00	SER	Pump Truck Mileage Light Vehicle Mileage 5.5 Turbo Centralizer 5.5 Basket	7.00	420.00
60.00	SER	Light Vehicle Mileage	4.00	240.00
10.00	EQP	5.5 Turbo Centralizer	60.00	600.00
2.00	EQP	5.5 Basket	236.00	472.00
1.00	EQP	5.5 Latch Down Plug	194.00	194.00
1.00	EQP	5.5 Float Shoe	245.00	245.00
1.00	CEMENTER	Bill Leikam APPROVED AUG 0 8 2011		
1.00	OPER ASSIST	Mark Radkie		
1.00	OPER ASSIST	Walter Keith Randel Lange &		
1.00	OPER ASSIST	Walter Keith Tony Pfannenstiel Rady Using A		
				•
		•		40,405,05

ALL PRICES ARE NET, PAYABLE 30 DAYS FOLLOWING DATE OF INVOICE. 11/2% CHARGED THEREAFTER. IF ACCOUNT IS CURRENT, TAKE DISCOUNT OF

\$ 2481.05

ONLY IF PAID ON OR BEFORE Aug 12, 2011

	· · · · · · · · · · · · · · · · · · ·	
1	Subtotal	12,405.25
	Sales Tax	490.34
	Total Invoice Amount	12,895.59
	Payment/Credit Applied	
	TOTAL	12,895.59

ALLIED CEMENTING CO., LLC. 039754

REMIT TO P.O. BOX 31 RUSSELL, KANSAS 67665 SERVICE POINT:							
						1) 00	
DATE 778-11	SEC. TWP.	RANGE	CALL	ED OUT	ON LOCATION	JOB START	JOBANNISH JUSAN
LEASE CKWU	WELL# 1.27	LOCATION A	By	2N 3	F	COUNTY	STATE
OLD OR NEW (Cir		μ <u></u>					1
	1			i			
CONTRACTOR	Imexican	Fingle	0	WNER			
TYPE OF JOB Le	ng Stange			EMENT			-
CASING SIZE S		HPE HPE	777		RDERED		
TUBING SIZE		PTH .		book 6	440 476 bel		
DRILL PIPE		PTH CONTRACT		23 eli	Com 10% Sel	2581 2%	cal to #As
TOOL		PTH			2/1	- 11 1	4241.25
PRES. MAX MEAS. LINE		NIMUM OE JOINT		OMMON_ OZMIX	_361	_@ <i>_14.23</i> _@_ <i>8.50</i>	
CEMENT LEFT IN				EL _		@ <i>21,25</i>	¥27.50
PERFS.				HLORIDE			
DISPLACEMENT	\$5.25	66/5	A	sç		_@	
	EQUIPMENT	•	~	Salt	_10	_@ <i>_23,95</i>	
					wite 1425/1	@ <i>X.70</i>	191,70
	CEMENTER 5			121120	OITC / 425 /	~~ <u>@</u> ~~~~	7400122
	HELPER TOO	del tws					
BULK TRUCK # 4.73 1	DRIVER /))	EAK R, -u	10/4ca		•	@	
BULK TRUCK	J121210 771	2000 / 41 00	-			_@	
	DRIVER TO	14		IANDLING	: 32/	@ 	744.75
			, ,	MILEAGE	33/ x. //x 30	0	1092,30
	REMARKS:					TOTAL	8109.25
						101,51	
Diperat	e 3538				SERV	ICE	
Shoels	,,,,	73 101		····			
Thisent 6	3,499 o she 69401		, ,	DEPTH OF			2125.00
till Eluvo	11/22/11/2	25 ph Con 10,		UMPTRU XTRA FO	CK CHARGE		2123.
5 #3il. 2%	The state of the	25,222		MILEAGE	,	_ @ <u></u>	42000
pump plug	4854 bbby	Juste 1500		MANIFOLI)	@	
30 th Katho	10. Danop	1096 1000	-	<u> </u>	M 60	@ <i>_4;00</i> _	24000
		_	-				017335
CHARGE TO:E	impire F	Dergy ESF	1116				27850
STREET		<u> </u>				TOTAL	4702
CITY	· STATE	710					
C11 1		UII			PLUG & FLOA	AT EQUIPME	NT
			10-	Turbal	entedizen a	J @ 600	0 6000
				BASKe		_ @_23b,c	
To Allied Cement	ting Co., LLC.		/-,	latchdo		@ <i>194,00</i>	19400
	equested to rent ce	menting equipme	ent /-/	Most sh	oe w	<u> </u>	0 245
and furnish ceme						@	
contractor to do v							15/1,00
done to satisfaction						TOTAL	1911, -
contractor. I have				SALES TA	X (If Any)		
TERMS AND CO	ולאני "NOITIUNS" liste	ea on the reverse	siue.	•	• • •		•
				TOTAL CF		·····	
PRINTED NAME	·//			DISCOUN	T	IF PA	ID IN 30 DAYS
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SIGNATURE7	July Try	ns		1 .			
	' 17	/	-				
	'	:	•	٠ - ي		•	
	•				•		

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 Carmichael-Kollman W Unit #4 S/2-S/2-N/2, 2310' FNL & 2640' FEL Section 18-11s-17w Ellis County, Kansas Page 1

5 1/2" Production Casing Set

Contractor:

American Eagle Drilling Company (Rig #3)

Commenced:

July 12, 2011

Completed:

July 18, 2011

Elevation:

1887' K.B; 1885 D.F; 1880' G.L.

Casing program:

Surface; 8 5/8" @ 1140'

Production; 5 1/2" @ 3549'

Sample:

Samples saved and examined 2800' to the Rotary Total Depth.

Drilling time:

One (1) foot drilling time recorded and kept 2800 ft to the Rotary Total

Depth.

Measurements:

All depths measured from the Kelly Bushing.

Drill Stem Tests:

None.

Electric Log:

By Log Tech; Dual Induction, Dual Compensated Porosity Log, Micro and

Sonic Log.

<u>Formation</u>	<u>Log Depth</u>	<u>Sub-Sea Datum</u>
Anhydrite .	1131	+756
Base Anhydrite	1167	ŧ720
Topeka	2827	-940
Heebner	3054	-1167
Toronto	3076	-1189
Lansing	3098	-1211
Base Kansas City	3332	-1445
1 st Simpson Dolomite	3350	-1463
2 nd Simpson Dolomite	3365	-1478
Arbuckle	3386	-1499
Rotary Total Depth	3540	-1653
Log Total Depth	3538	-1651

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

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

TOPEKA SECTION

3011-3026'

Limestone; gray, white and tan, finely crystalline, fossiliferous, chalky, fair porosity, brown and light brown stain, trace of free oil

and questionable odor in fresh samples.

Empire Energy E & P, LLC Carmichael-Kollman W Unit #4 S/2-S/2-N/2, 2310' FNL & 2640' FEL Section 18-11s-17w Ellis County, Kansas Page 2

TORONTO SECTION

3076-3086

Limestone; cream, tan, finely crystalline, chalky, poor visible porosity, trace poor stain, no show of free oil, trace iron pyrite, plus gray chert.

LANSING SECTION

3098-3112'	Limestone; gray and white, chalky, poor porosity, trace spotty stain, no show of free oil and no odor in fresh samples.
3128-3144'	Limestone; white, cream, oolitic, fossiliferous, chalky, poor to fair porosity, brown stain, show of free oil and faint odor in fresh samples.
3150-3160'	Limestone; white/gray, fossiliferous, chalky, spotty brown and black stain, no show of free oil and no odor in fresh samples.
3174-3180'	Limestone; white, gray, finely crystalline, fossiliferous in part, trace stain, no show of free oil and no odor in fresh samples.
3188-3196'	Limestone; white, cream, finely crystalline, oomoldic, fair porosity, brown and dark brown stain, trace of free oil and faint odor samples broken.
3230-3240'	Limestone; gray, white, finely crystalline, poor visible porosity, chalky in part.
3255-3267'	Limestone; tan, finely crystalline, oolitic, few fossiliferous to sub oomoldic, poor visible porosity, trace stain, trace of free oil and no odor in fresh samples.
3271-3280'	Limestone; white/cream, tan, finely crystalline, chalky, few granular, poorly developed porosity, no shows.
3298-3314'	Limestone; gray, oolitic, chalky, no shows.

SIMPSON SECTION

3350-3355'

Dolomite; yellow and tan, fine to medium crystalline, poor visible porosity, no shows.

2ND SIMPSON DOLOMITE SECTION

3365-3371

Dolomite; yellow and green tinted, finely crystalline, sucrosic, no shows.

ARBUCKLE SECTION

3386-3390'	Dolomite; tan, sucrosic, fair porosity, brown stain, show of free oil and odor in fresh samples.
3390-3400	Dolomite; as above.
3400-3410'	Dolomite; brown, finely crystalline, few medium crystalline, sucrosic, good brown stain and saturation, fair to good show of free oil and good odor in fresh samples.
3410-3420'	Dolomite; as above, few with good vuggy porosity.

Empire Energy E & P, LLC Carmichael-Kollman W Unit #4 S/2-S/2-N/2, 2310' FNL & 2640' FEL Section 18-11s-17w Ellis County, Kansas Page 3

3420-3430'	Dolomite; cream and gray, finely crystalline, sucrosic, fair porosity, fair stain and saturation, show of free oil and fair odor in fresh samples.
3430-3446'	Dolomite; tan/brown, fine and medium crystalline, few oomoldic, fair porosity, brown stain, show of free oil and fair to good odor in fresh samples.
3450-3470'	Dolomite; as above, decreasing stain, trace of free oil (black), plus white chert.
3470-3500'	Dolomite; cream, white, finely crystalline, slightly cherty, poor stain, (black and gray) plus dolomite, white, fine and medium crystalline, fair porosity, no show.
3500-3520'	Dolomite; as above, gray, pink slightly cherty, plus white chert.
3520-3540'	Dolomite; as above, plus white chalk.

Rotary Total Depth Log Total Depth

3540 3538

Recommendations:

5 1/2" production casing was set and cemented at 3539'.

Respectfully submitted;

James C Musgrove and Kurt Taibott,

Petroleum Geologists