

Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION OIL & GAS CONSERVATION DIVISION 1242180

Form ACO-1
August 2013
Form must be Typed
Form must be Signed
All blanks must be Filled

## WELL COMPLETION FORM WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License #			API No. 15			
Name:			Spot Description:			
Address 1:			Sec	TwpS. R		
Address 2:			Feet	from $\square$ North / $\square$ South Line of Section		
City: St	ate: Ziŗ	D:+	Feet	from East / West Line of Section		
Contact Person:			Footages Calculated from Ne	arest Outside Section Corner:		
Phone: ()			□ NE □ NW	□ SE □ SW		
CONTRACTOR: License #			GPS Location: Lat:	, Long:		
Name:				. xx.xxxxx) (e.gxxx.xxxxx)		
Wellsite Geologist:			Datum: NAD27 NAD27			
Purchaser:			County:			
Designate Type of Completion:			Lease Name:	Well #:		
New Well Re-	·Fntrv	Workover	Field Name:			
	_		Producing Formation:			
☐ Oil ☐ WSW	SWD	SIOW	Elevation: Ground: Kelly Bushing:			
☐ Gas ☐ D&A ☐ OG	☐ ENHR	☐ SIGW ☐ Temp. Abd.	Total Vertical Depth:	Plug Back Total Depth:		
CM (Coal Bed Methane)	G3W	iemp. Abd.	Amount of Surface Pipe Set a	and Cemented at: Feet		
Cathodic Other (Core, Expl., etc.):			Multiple Stage Cementing Co			
If Workover/Re-entry: Old Well Inf				Feet		
Operator:				nent circulated from:		
Well Name:			, ,	w/sx cmt.		
Original Comp. Date:			loot doparto.	W,		
	_	NHR Conv. to SWD				
Deepening Re-perf. Plug Back	Conv. to GS		Drilling Fluid Management F (Data must be collected from the			
Commingled	Permit #:		Chloride content:	ppm Fluid volume: bbls		
Dual Completion	Permit #:		Dewatering method used:			
SWD	Permit #:		Location of fluid disposal if ha	uled offsite:		
☐ ENHR	Permit #:		On and an Name			
GSW Permit #:						
				License #:		
Spud Date or Date Rea	iched TD	Completion Date or		TwpS. R		
Recompletion Date Recompletion D		Recompletion Date	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				
Confidentiality Requested				
Date:				
Confidential Release Date:				
Wireline Log Received				
Geologist Report Received				
UIC Distribution				
ALT I II III Approved by: Date:				

Page Two



Operator Name:			Lease Name: _			Well #:		
Sec Twp	S. R	East West	County:					
open and closed, flow and flow rates if gas t	ving and shut-in presson to surface test, along w	formations penetrated. I ures, whether shut-in pro vith final chart(s). Attach	essure reached stati n extra sheet if more	c level, hydrosta space is neede	itic pressures, bott d.	tom hole tempe	erature, fluid r	recovery,
		otain Geophysical Data a or newer AND an image		egs must be ema	ailed to kcc-well-lo	gs@kcc.ks.gov	v. Digital elec	tronic log
Drill Stem Tests Taken (Attach Additional	•	Yes No		_	on (Top), Depth ar		Samp	
Samples Sent to Geo	ological Survey	☐ Yes ☐ No	Nam	e		Тор	Datur	m
Cores Taken Electric Log Run		☐ Yes ☐ No ☐ Yes ☐ No						
List All E. Logs Run:								
		CASING	RECORD Ne	ew Used				
		Report all strings set-	conductor, surface, inte	ermediate, product	ion, 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 P Additiv	
		ADDITIONAL	OFMENTING / OOL					
Purpose:	Depth		CEMENTING / SQL	JEEZE RECORD		araant Additiraa		
Perforate	Top Bottom	Type of Cement	# Sacks Used	Used Type and Percent Additives				
Protect Casing Plug Back TD								
Plug Off Zone								
Did you perform a hydra	ulic fracturing treatment o	on this well?		Yes	No (If No, ski	p questions 2 ar	nd 3)	
	=	raulic fracturing treatment ex	xceed 350,000 gallons			p question 3)	,	
Was the hydraulic fractu	ring treatment information	n submitted to the chemical	disclosure registry?	Yes	No (If No, fill	out Page Three	of the ACO-1)	
Shots Per Foot		ON RECORD - Bridge Plug Footage of Each Interval Per			cture, Shot, Cement			Depth
	Сроспу Г	octago of Laon morvari of	ioratou	(>1	mount and rand or ma	teriar Good)		<u> Борит</u>
TUBING RECORD:	Size:	Set At:	Packer At:	Liner Run:	Yes No			
Date of First, Resumed	Production, SWD or EN							
Fotimeted Day 1 . C	0" -	Flowing			Other (Explain)	) O" D "		
Estimated Production Per 24 Hours	Oil E	Bbls. Gas	Mcf Wate	er B	bls. G	Gas-Oil Ratio	Gr 	ravity
DISPOSITI	ON OF GAS:	1	METHOD OF COMPLE	ETION:		PRODUCTIO	ON INTERVAL:	
Vented Sold		Open Hole	Perf. Dually	Comp. Con	mmingled			
	bmit ACO-18.)	Other (Specify)	(Submit )	ACO-5) (Sub	omit ACO-4)		-	



271201

LOCATION OF GARA

FOREMAN Alan Moder

PO Box 884, Chanute, KS 66720 620-431-9210 or 800-467-8676

## FIELD TICKET & TREATMENT REPORT CEMENT

DVECTOR PARK KS WAND  DESCRIPTION OF THE CONSTRUCT OF THE STATE OF THE	DATE	CUSTOMER#	WEL	L NAME & NUMI	BER	SECTION	TOWNSHIP	RANGE	COUNTY
USTOMER  KAUNSS RESOURCES EXD  ALINGADORESS  393 W 110 th  TO VELLAGE STATE  OVELLAGE  OVE	3-17-14	4448	Carty	uright	KR.8	NE 23	18	21	M.
9393 W 110 The STATE ZIPCODE TO THE STATE ZIPCODE ZIRCHEMENT SILD MISTER BASES CHEMITER TO LASING SUZE & WEIGHT ZIPCODE TO THE STATE ZIPCODE TO THE STATE ZIPCODE ZIRCHEMENT SILD MISTER BASES CHEMITER TO LASING SUZE & WEIGHT ZIPCODE TO THE STATE ZIPCODE TO THE STATE ZIPCODE ZIP	K CA SC	5 Rosar				TRUCK #	DRIVER	TRUCK #	
9393 W 110 The STATE ZIPCODE TO THE STATE ZIPCODE ZIRCHEMENT SILD MISTER BASES CHEMITER TO LASING SUZE & WEIGHT ZIPCODE TO THE STATE ZIPCODE TO THE STATE ZIPCODE ZIRCHEMENT SILD MISTER BASES CHEMITER TO LASING SUZE & WEIGHT ZIPCODE TO THE STATE ZIPCODE TO THE STATE ZIPCODE ZIP	MAILING ADDRE	SS NEGOC	-//		1		7	1 7 7 1	17.
STATE CIPCODE  Ver and Park  K  K  K  K  K  K  K  K  K  K  K  K  K	9393	W 110t	4				14 111	ogyery.	mee!
DB TYPE lagstria. HOLE SIZE J VB HOLE DEPTH 5BD CASING SIZE & WEIGHT 2 1/8 ASING DEPTH 567.3 DRILL PIPE. TUBING UNITED TOTAL SURRY VOL. WATER BINSK CEMENT LEFT IN CASING ISPLACEMENT 3.1.2 DISPLACEMENT PSI & BD WATER BINSK CEMENT LEFT IN CASING ISPLACEMENT 3.1.2 DISPLACEMENT PSI & BD WATER BINSK CEMENT LEFT IN CASING ISPLACEMENT 3.1.2 DISPLACEMENT PSI & BD WAY PSI & BD MIX PSI & B	ITY	W 170	STATE	ZIP CODE	1	370	1115		
DB TYPE lagstria. HOLE SIZE J VB HOLE DEPTH 5BD CASING SIZE & WEIGHT 2 1/8 ASING DEPTH 567.3 DRILL PIPE. TUBING UNITED TOTAL SURRY VOL. WATER BINSK CEMENT LEFT IN CASING ISPLACEMENT 3.1.2 DISPLACEMENT PSI & BD WATER BINSK CEMENT LEFT IN CASING ISPLACEMENT 3.1.2 DISPLACEMENT PSI & BD WATER BINSK CEMENT LEFT IN CASING ISPLACEMENT 3.1.2 DISPLACEMENT PSI & BD WAY PSI & BD MIX PSI & B	DVerlow	D Park	KS	66210		510	Duckah	<b></b>	
ASING DEPTH 367.3 DRILL PIPE TUBING OTHER 5.32.40  LURRY WEIGHT SLURRY VOL WATER gallak CEMENT LEFT IN CASING  ISPLACEMENT 3.12 DISPLACEMENT PSI & DO RATE 4 & DAMPED  ISPLACEMENT 3.12 DISPLACEMENT PSI & DO RATE 4 & DAMPED  ISPLACEMENT 3.12 DISPLACEMENT PSI & DO RATE 4 & DAMPED  ISPLACEMENT 3.12 DISPLACEMENT PSI & DO RATE 4 & DAMPED  IDD 4 5 el followed by & 4 & 5 & 5 1 7 3 cement 4 45 & 2 2 2 el  IDD 4 5 el followed by & 4 & 5 & 5 1 7 3 cement 4 45 & 2 2 2 el  IDD 4 5 el followed by & 4 & 5 & 5 1 7 3 cement 4 45 & 2 2 2 el  INTERNATION OF SERVICES OF PRODUCT  INTERNATION OF SERVICES OF SERVICES OF P					HOLE DEPTI	50	CASING SIZE & V	NEIGHT 2	7/0
LURRY WEIGHT  SPLACEMENT  3.12 DISPLACEMENT PSI & WATER GAIFER  SPLACEMENT  SPLACEMENT  SLURRY VOL  DISPLACEMENT  SPLACEMENT  SST SCHOOL  SST SCHOOL  SST SCHOOL  SST SCHOOL  ACCOUNT  CODE  QUANITY OF UNITS  DESCRIPTION OF SERVICES OF PRODUCT  DUMP CHARGE  STOP  ST		2001	-			- 500	CASING SIZE &		
DESPLACEMENT 3.12 DISPLACEMENT PSI 800 MIX PSI 300 RATE 4 69M  EMARKS: Held neelly Established rate. Mixed & pumped 100 # 50 followed by 24 # 53 50 concert rate 20 20 100 # 50 followed by 24 # 53 50 concert rate 20 20 20 100 followed by 24 # 53 50 concert rate 20 20 20 100 followed by 24 followed by 24 followed law						ık	CEMENT LEFT in		,,,,
EMARKS: Held neeths Established rate. Mixed & punted 100 # 50 followed by 34 # 5% 50170 cement this 228 gel to # 2 # Phanoseg for sack. Circulated cement Flushed with 10 miles to battle. Wall held 800 PST. Seet Float. Closed value.  29ck Sackman  Account Code Quantity or units Description of services or PRODUCT Unit PRICE TOTAL 5701   PUMP CHARGE 368 1085 PST. Style 20 MILEAGE 368 1085 PST. Style 20 MILEAGE 368 1085 PST. Style 30 MILEAGE 368 1085 PST. Style 367.3 Casins factore \$170 1890 PST. Style 102 Solve 12 BO Vac 370 1890 PST. Solve 1075 Particles of PRODUCT 1075 Particles of PRODUCT 1075 Particles 3000 - 322.72 Particles 3000 - 322.72 Particles 3000 - 322.72 Particles 3000 - 322.72 Particles 3000 PST. Particles		4 0		IT PSI 800		200			
DOD# Sel followed by 84 # \$\$ 50150 sement this 820 gel to 2 the property of the sack Circulated connect flushed with flushed with held book PST.  Lack Sockman Hamped plus to battle. Will held book PST.  Lack Sockman Hamped plus to battle. Will held book PST.  Lack Sockman Hamped plus to battle. Will held book PST.  Lack Sockman Hamped plus to battle.  Lack Sockman Hamped plus to be services or PRODUCT UNIT PRICE TOTAL 10850 plushed by the services of PRODUCT UNIT PRICE TOTAL	EMARKS:	old no	elluc	Fisheb	lished		Mive	0 2 0	insper
ACCOUNT CODE QUANTY OF UNITS DESCRIPTION OF SERVICES OF PRODUCT UNIT PRICE TOTAL  STOI PUMP CHARGE  5402 567.3 Casins for services \$10 1890  5407 1/2min time miles 510 1890  1018 241 4 cel 300  1018 241 4 cel 5302  1018 241 4 cel 5302  1018 241 4 cel 5302  1018 241 4 cel 5300  1018 1018 1018 1018 1018 1018 1018 1		el Follo	wed	24 24/3	# 64	7. ~	ement	145 2	20 30
Pump. Funfed plus to baffle. Will held 800 PST.  2ack Sacknan  ACCOUNT QUANITY or UNITS DESCRIPTION of SERVICES or PRODUCT UNIT PRICE TOTAL  5401   PUMP CHARGE 368 10852  5402   Sb7.3   Casins factore 368   Ry 20  5407   Jamin ton miles 570 1872  5502   12   80 vac 300   1502  124   84   50/50 Cement 9662  1188   241 # gel 53.02  1074   42   Phenoseal 56.70  1075, 72  1402   242/28  1402   242/28	Y 127	Phemo	seal D	dr .590	K	. 1 v	& CPU	ext E	lusters
ACCOUNT QUANITY OF UNITS  DESCRIPTION OF SERVICES OF PRODUCT  UNIT PRICE  TOTAL  10859  PUMP CHARGE  368  10859  STYLE  300  MILEAGE  1402  1507,3  Cas'ns footise 348  570  1840  5002  1840  1880  1980  1	ound.	Pumpe2	Algo 1	v baff	19. 11	sell he	10 RDI	PST.	
ACCOUNT QUANITY OF UNITS  DESCRIPTION OF SERVICES OF PRODUCT  UNIT PRICE  TOTAL  10859  PUMP CHARGE  368  10859  STYLE  300  MILEAGE  1402  1507,3  Cas'ns footise 348  570  1840  5002  1840  1880  1980  1	SP.7	flogt.	CLOSE	d val	ve.		000		
ACCOUNT CODE  QUANITY or UNITS  DESCRIPTION of SERVICES OF PRODUCT  UNIT PRICE  TOTAL  5401  PUMP CHARGE  SL8  842  5402  5402  5403  Casing factore  5404  5507  Casing factore  5400  1892  5502  120  80 UGC  310  130  130  130  130  130  130  13	,,,,,,								
ACCOUNT CODE  QUANITY or UNITS  DESCRIPTION of SERVICES OF PRODUCT  UNIT PRICE  TOTAL  5401  PUMP CHARGE  SL8  842  5402  5402  5403  Casing factore  5404  5507  Casing factore  5400  1892  5502  120  80 UGC  310  130  130  130  130  130  130  13						112.00	Λ	4	•
ACCOUNT CODE  QUANITY or UNITS  DESCRIPTION of SERVICES OF PRODUCT  UNIT PRICE  TOTAL  5401  PUMP CHARGE  SL8  842  5402  5402  5403  Casing factore  5404  5507  Casing factore  5400  1892  5502  120  80 UGC  310  130  130  130  130  130  130  13	2	ack Ja	CKMan				1/ 1/1/	4/	
ACCOUNT CODE  QUANITY or UNITS  DESCRIPTION of SERVICES OF PRODUCT  UNIT PRICE  TOTAL  5401  PUMP CHARGE  SL8  842  5402  5402  5403  Casing factore  5404  5507  Casing factore  5400  1892  5502  120  80 UGC  310  130  130  130  130  130  130  13						11	Moo		
CODE   QUANITY OF UNITS   DESCRIPTION OF SERVICES OF PRODUCT   UNIT PRICE   TOTAL					500	Mean	V		
5401   PUMP CHARGE   368   1085°   5706   3D   MILEAGE   348   84°   5102   5107.3   Casing footage   348   5700   189°   5707   12min   12m   1		QUANITY	or UNITS	DE	SCRIPTION of	SERVICES or PR	ODUCT	UNIT PRICE	TOTAL
5406 30 MILEAGE 5402 567.3 Casins Footage 368 5407 Vanin ton wiles 510 55026 12 80 vac 370 15026  124 84 50/50 Cement 966 53.02 107A 42 Thenoseal 56.70  Material syb 1075.72  Material total 753 22  Material	-	1		PUMP CHARG	F		3/2		108500
5707	- /	2	D .				31.8		8400
5707 Vanin tion miles 510 1892 55026 1/2 80 VGC 370 1502 124 84 50/50 Cement 9662 1188 2414 gel 53,02 107A 42 Thenoseal 56,70 Material syb 1075,72 Mess 3090 - 322.72 Mess 3090 - 322.72 Mess 3090 - 322.72 Mess 3090 - 322.72	1402	56	7.3	(16'	· For	stace	3/-8		01-
124 84 50/50 Cement 966 2 188 2414 gel 53,02 1 1074 42 Thenoseal 54 1075,72 hess 30% - 322.72 natural total 7532 1402 122/21/48 SALESTAY 59871	5407	1/2	m in	+20	100 100	730	DIO		19400
124 84 50/50 Cement 966 - 1188 2414 ggl 53,02 1 107A 42 thenoseal 36.70 1 Material syb 1075,72 1 hess 30% - 322.72 1 Material total 753 - Material total 753 - Material 199.50	15021	1	12	801	10.1		270		100
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1188 2414 gel 53.02 107A 42 thenoseal 36.700 Material syb 1075,72 hess 30% - 322.72 material total 75300 1402 2420/48 292.52									
1188 2414 gel 53.02 107A 42 thenoseal 36.700 Material syb 1075,72 hess 30% - 322.72 material total 75300 1402 2420/48 292.52	124	84		50/57	1 ( p.	nent		9460	
Material 346 1075,72  hess 30% - 322.72  naterial total 7532  2/20/45 2921  SALESTAN 5987	1188	24	I #			TVL		F7.02	
Material 346 1075,72  hess 30% - 322.72  naterial total 7532  2/20/45 2921  SALESTAN 5987	1107A	6) (		1/10	20-1			77 784	
1402 12/20/48 2/20/20/20/20/20/20/20/20/20/20/20/20/20	10 10 1	12		MEN	JSEGI	X /	0, 1	1575	
1402 12/20/48 2/20/20/20/20/20/20/20/20/20/20/20/20/20					Me	1 - CC	2000	322 70	
24.52 2692.11 SALES TAX 5987					-		700-	DAZ. 12	7000
2692.11 SALES TAX 59 871	14102			2/201	. k	n.	, Itoria	10161	703
SALES TAY 59 871	100		[4		Total	8			17.50
SALES TAY 59 871							2211		
SALES TAY 59 871					1	10	74.11		
SALES TAX 59.84  SALES TAX 59.84  ESTIMATED TOTAL 2345.34						1			
n 3737 NO COMPANY VER ESTIMATED TOTAL 2345.35		11						SALESTAV	59 01
TOTAL 2345.34	in 3737	Nocon	Many 1	rep					1.09
	THORIZTION_	T	Die	,					2345.34

### Jackman Oilfield Services 1 West Mulberry St. Colony, KS 66015 620-852-3350

# WELL LOG Kansas Resource Exploration & Development, LLC Cartwright KR-8

#### September 15, 2014

_	Thickness of Strata	<u>Formation</u>	<u>Total</u>	
	19.00	soil/clay	19.00	
	21.00	lime	40.00	
	19.00	shale	59.00	
	4.00	lime	63.00	
	42.00	shale	105.00	
	15.00	lime	120.00	
	8.00	shale	128.00	
	29.00	lime	157.00	
	9.00	shale	166.00	
	26.00	lime	192.00	
	4.00	shale	196.00	
	13.00	lime	209.00	
	138.00	shale	347.00	
	1.00	lime	348.00	
	8.00	sandy shale	356.00	
	16.00	shale	372.00	
	14.00	lime	386.00	
	2.00	sandy shale	388.00	
	2.00	grey sand	390.00	light gas smell; very light bleed
	8.00	grey sand	398.00	0 0 man, 10 mg.
	22.00	shale	420.00	
	3.00	coal	423.00	
	4.00	shale	427.00	
	7.00	lime	434.00	
	12.00	shale	446.00	
	3.00	lime	449.00	
	2.00	coal	451.00	
	12.00	shale	463.00	
	9.00	lime	472.00	
	15.00	shale	487.00	
	2.00	lime	489.00	
	2.50	shale	491.50	

4.50	lime	496.00	
7.00	shale	503.00	
1.50	broken sand	504.50	light bleed
3.00	oil sand	507.50	good med.bleed
2.00	broken sand	509.50	no bleed
1.00	70% shale/brokens and	510.50	light bleed
1.50	90% shale/brokens and	512.00	no bleed
68.00	shale	580.00	TD

Drilled a 9 7/8" hole to 19'7" Drilled a 5 7/8" hole to 580'

Set 20' of 7" surface casing cemented with 5 sacks of portland cement Set 567.30' of 2 7/8" round upset tubing. Baffle @ 536.40'

Cartwright KR-8