

Confidentiality Requested:

KANSAS CORPORATION COMMISSION OIL & GAS CONSERVATION DIVISION

1070407

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:	
Address 2:	Feet from Dorth / South Line of Section
City: State: Zip:+	Feet from East / West Line of Section
Contact Person:	Footages Calculated from Nearest Outside Section Corner:
Phone: ()	
CONTRACTOR: License #	GPS Location: Lat:, Long:, (e.gxxx.xxxxx)
Name:	
Wellsite Geologist:	Datum: NAD27 NAD83 WGS84
Purchaser:	County:
Designate Type of Completion:	Lease Name: Well #:
New Well Re-Entry Workover	Field Name:
	Producing Formation:
☐ Oil ☐ WSW ☐ SWD ☐ SIOW □ Gas □ D&A □ ENHR □ SIGW	Elevation: Ground: Kelly Bushing:
OG GSW Temp. Abd.	Total Vertical Depth: Plug Back Total Depth:
CM (Coal Bed Methane)	Amount of Surface Pipe Set and Cemented at: Feet
Cathodic Other (Core, Expl., etc.):	Multiple Stage Cementing Collar Used? Yes No
If Workover/Re-entry: Old Well Info as follows:	If yes, show depth set: Feet
Operator:	If Alternate II completion, cement circulated from:
Well Name:	feet depth to:w/sx cmt.
Original Comp. Date: Original Total Depth:	
Deepening Re-perf. Conv. to ENHR Conv. to SWD	Drilling Fluid Management Plan
Plug Back Conv. to GSW Conv. to Producer	(Data must be collected from the Reserve Pit)
Commingled Permit #:	Chloride content: ppm Fluid volume: bbls
Dual Completion Permit #:	Dewatering method used:
SWD Permit #:	Location of fluid disposal if hauled offsite:
ENHR Permit #:	
GSW Permit #:	Operator Name:
	Lease Name: License #:
Spud Date or Date Reached TD Completion Date or	Quarter Sec TwpS. R East West
Recompletion Date 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 Approved by: Date:

	Page Iwo	1070407
Operator Name:	Lease Name:	Well #:
Sec TwpS. R East _ West	County:	
INCTRUCTIONS. Chave important tang of formations panatrated	Datail all aaraa Danart all fi	nal capica of drill stame toots siving interval tootad, time tool

INSTRUCTIONS: Show important tops 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.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken (Attach Additional Sho	eets)	Yes No		-	on (Top), Depth a		Sample
Samples Sent to Geolog	gical Survey	Yes No	Nam	e		Тор	Datum
Cores Taken Electric Log Run		☐ Yes ☐ No ☐ Yes ☐ No					
List All E. Logs Run:							
		CASING Report all strings set-o	RECORD Ne		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 Percent Additives
		ADDITIONAL	CEMENTING / SQU	EEZE RECORD			
Purpose:	Depth				T 15		

Purpose: Perforate	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
Protect Casing				
Plug Back TD				
Plug Off Zone				

No

Did you perform a hydraulic fracturing treatment on this well?	Yes
Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons?	Yes
Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry?	Yes

No	(If No, skip questions 2 and 3)
No	(If No, skip question 3)

(If No, fill out Page Three of the ACO-1)

Shots Per Foot		PERFORATION Specify Foot		RD - Bridge P Each Interval F		e		Acid, Fracture, Shot, Ce (Amount and Kind	ement Squeeze Record of Material Used)	Depth
TUBING RECORD:	Siz	re:	Set At:		Packer	r At:	Liner R	un:	No	
Date of First, Resumed	Producti	on, SWD or ENHR.		Producing M	lethod:	ping	Gas Lift	Other (Explain)		
Estimated Production Per 24 Hours		Oil Bbls	5.	Gas	Mcf	Wate	er	Bbls.	Gas-Oil Ratio	Gravity
DISPOSITI	ON OF G	AS:							PRODUCTION IN	TERVAL:
Vented Solo (If vented, Sul		Jsed on Lease -18.)		Open Hole Other <i>(Specify)</i>	Perf.	Uually (Submit)	,	Commingled (Submit ACO-4)		

Conservation Division Finney State Office Building 130 S. Market, Rm. 2078 Wichita, KS 67202-3802



Phone: 316-337-6200 Fax: 316-337-6211 http://kcc.ks.gov/

Mark Sievers, Chairman Ward Loyd, Commissioner Thomas E. Wright, Commissioner Sam Brownback, Governor

December 21, 2011

DEAN PATTISSON Woolsey Operating Company, LLC 125 N MARKET STE 1000 WICHITA, KS 67202-1729

Re: ACO1 API 15-007-23751-00-00 SUMMERS 4 SW/4 Sec.17-34S-11W Barber County, Kansas

Dear Production Department:

We are herewith requesting that the Well Completion Form ACO-1 and attached information for the subject well be held confidential for a period of two years.

Should you have any questions or need additional information regarding subject well, please contact our office.

Respectfully, DEAN PATTISSON

ALLIED CEME Federal Tax	NTING	CO., L	LC.	N/10760
Federal Tax REMIT TO P.O. BOX 31 RUSSELL, KANSAS 67665	i l.D.# 20-5975804		VICE POINT:	hadseled
DATE 8-23-11 SEC. TWP. RANGE	CALLED OUT	ON LOCATION	JOB START	JOB FINISH
LEASE Smars WELL # 4 LOCATION 28(+	S. Alexa R	1.20	COUNTY	STATE
OLD OR NEW (Circle one)	shand and	o 2Ep	Borber	168
CONTRACTOR H-2 R13#3				
TYPE OF JOB Sur a-Ce	OWNER W	colser 0 pero	eting	
HOLE SIZE 14 3/4 T.D. 225'	CEMENT		0	
CASING SIZE /03/4 DEPTH 223'			, ,	
TUBING SIZE DEPTH		RDERED <u>240</u>	k classA	+3% act 2% e
DRILL PIPE DEPTH				
TOOL DEPTH PRES. MAX 30000 MINIMUM				
MEAC I INC	COMMON	4 240 SK	@ 16.25	2000 -5
CEMENT LEFT IN CSG.24	_ POZMIX 🔤		_@ <u>70:C></u> @	- 2700-00
PEDRO	GEL	S SK	@21.25	106 25
DISPLACEMENT 19/2 66/5H20	CHLORIDE	9 SK		523.80
and the second	_ ASC	······································	r@rr T	
EQUIPMENT		<u> Hill</u>	_@	
PUMPTRUCK CEMENTER Mattal	- 00	gulatory Com	espondenc	0
			- W arkova	· · · · · · · · · · · · · · · · · · ·
# 369/265 HELPER Josep Threesed	<u> </u>	sts / Meters	- Oneration	is <u> </u>
# 363/290 DRIVER Edde / Adam	18	SIS / WIGLEIS		
BULK TRUCK			_@	
# DRIVER			_@	
	HANDLING	254	@2.25	571.50
REMARKS:	MILEAGE	254/15/01	11	419-10
			TOTAL	5520.65
Bik on with frock pump 3 bbb Hap a here			IUIAL	<u>~~~</u>
MTR 240 SK Cement	•	SERVI	CF	
dip. 19 12 bbls H26 Shown				
Cement did wire by	DEPTH OF J	DB 223 '		
	PUMP TRUC	K CHARGE //	25.00	
	EXTRA FOO		@	
	MILEAGE		@ 7.00	20.00
	MANIFOLD	10 200	@	
	piger ven	UE DU	@ 4.00	120.00
CHARGE TO: 4000/say Operaling			_@	
STREET_				110000
			TOTAL	1455-60
CITYSTATEZIP				
		PLUG & FLOAT	EQUIPMEN	Т
				-
			@	
			@	
To Allied Cementing Co., LLC.			@	
You are hereby requested to rent cementing equipment			@	
and furnish cementer and helper(s) to assist owner or			@	

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 contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

PRINTED NAME MAKE THARP SIGNATURE

SALES TAX (IF Any) ______ TOTAL CHARGES ______6.975.6SDISCOUNT ____207 _____ IF PAID IN 30 DAYS N24 5580.52

TOTAL

ALLIED CEMEN	ITING CO., LLC. 037725
REMIT TO P.O. BOX 31 RUSSELL, KANSAS 67665	SERVICE POINT:
DATE $8-3/-1/$ SEC. TWP. RANGE C	CALLED OUT ON LOCATION JOB START JOB FINISH
LEASE SUMMON WELL # 4 LOCATION 281 450	
	Al, weather to
/	rg, west into
CONTRACTOR H-2 RA#3 TYPE OF JOB Production	OWNER Water opening
HOLE SIZE 2% T.D. \$2201	
CASING SIZE 5% DEPTH 5070'	CEMENT
TUBING SIZE DEPTH	AMOUNT ORDERED 755× 60:40:4200 (1503× class H 56 gypsed + 10715014
DRILL PIPE DEPTH	+6# Klosen + 18% F1-160 + 14# F10 sent
TOOL DEPTH	· · · · · · · · · · · · · · · · · · ·
PRES. MAX / 700 SI MINIMUM MEAS. LINE SHOE DOINT //2	COMMON <u>Class A 45 5x @ 1625 131.25</u>
<u>MEAS. LINE</u> SHOE JOINT 42.	POZMIX 30 5x @ 8.50 255.00
PERFS.	GEL <u>3 sx @ 21.25 63.75</u> CHLORIDE @
DISPLACEMENT / 21 66/2 2%44	CHLORIDE@ ASC @
EQUIPMENT	Class # 150 sx @ 19.25 2887.50
	GYASEG(14 SX @ 34.20 478-80
PUMPTRUCK CEMENTER Mott Thrmesch	<u>Salt 17 sx @23.95 407.15</u>
# 369/265 HELPER Jasen Threach	Kolseac 900 # @, 89 801.00
BULK TRUCK	F1-160 112 # @ 17.20 1926.40 F16 seac 37 # @ 2-70 99.90
# 364 DRIVER Adam BULK TRUCK	<u>- FIGSEAC 37 @2-70 99.90</u> <u>Clapro 12 Gals</u> @31.25 .375.00
# DRIVER	
DRIVER	HANDLING 276 @ 2.25 621.00
	MILEAGE
REMARKS:	TOTAL 9107 15
Bill are with RB any toll through	
MTR 50 ok scorriger compert	SERVICE
MTR 150 SK cement shutdown	DEPTH OF IOP 5475
wash pinpt mes Release phy	PUMP TRUCK CHARGE 2695
- 415p. 121 66/5 2%64CL	EXTRA FOOTAGE@
	MILEAGE 30 @ 7.00 210-00
phy we.	MANIFOLD Head Karta C. @ 200.00
	Light Vehicle 30 @ 4.00 120.00
CHARGE TO: 65/50, Oper Am	@
STREET	
alaa 7 sekasilinni, mila seka sekas sekasil siin sekas	TOTAL. <u>5225</u>
CITYSTATEZIP	OCT 0 6 2011
Regulatory Correspondence	51/2 PLUG & FLOAT EQUIPMENT
Drlg /(Comp Workovers	1-AFU. grideshee 349-00
Tests / Meters Operations	1-Lotch down pluy Asser @ 277.00
To Allied Cementing Co., LLC.	26-scatchers @ 76 - 880.0
You are hereby requested to rent cementing equipment	<u> 1520</u>
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 3026.0
contractor. I have read and understand the "GENERAL	
TERMS AND CONDITIONS" listed on the reverse side.	SALES TAX (If Any)
	TOTAL CHARGES /S, 353. /S
	and a second



Scale 1:240 (5"=100') Imperial

Well Name: SUMMERS #4 Location: Section 17 - Township 34 South - Range 11 West Licence Number: 15-007-23,751.0000 Region: Barber County, KS. Spud Date: 23 August 2011 Drilling Completed: 30 August 2011 Surface Coordinates: 1.160' FSL & 330' FWL (NW SW SW) **Bottom Hole**

Coordinates: Ground Elevation (ft): 1,409' Logged Interval (ft): 4,400'

K.B. Elevation (ft): 1,418' To: 5,220' Total Depth (ft): 5,220' Formation: Kansas City Group -----> Wilcox Sandstone

Type of Drilling Fluid: Chemical; Low Solids (non-dispersed)

Printed by MUD.LOG from WellSight Systems 1-800-447-1534 www.WellSight.com

OPERATOR

Company: WOOLSEY OPERATING COMPANY, LLC Address: 125 North Water, Suite 1000 Wichita, Kansas 67202 (316) 267-4379

Geologist: Marc Summervill

GEOLOGIST

Name: Curtis Covey **Company: COVEY - The Well Watchers** Address: 6548 Bedford Circle Derby, Kansas 67037 Office: (316) 776 - 0367

Cell: (316) 258-9976

FORMATION TOPS

Formation

Stark SH

Hushpucknev SH

B / KC

Pawnee LS

Cherokee Gp

Mississippian Chert

Kinderhook Sh

Woodford Sh

Viola Wilcox SS

Rotary Sample Depth (Datum)

4,395' (-2,977')	 4,394' (-2,976')
4,469' (-3,051')	
, , ,	 , , , ,
, , ,	
4,870' (-3,452')	 4,869' (-3,451')
4,950' (-3,532')	 4,950' (-3,532')
, , , ,	

RTD: 5,220' LTD: 5,222' ATD: 5,222' E-log is 0' - 2' low to rotary sample depth.

Loggers:

Superior Well Services Hays, Kansas

E-log Depth (Datum)

143.4 Hole 17.6 Hole 17.6 Hole 23 August Spud @ 3pm. Drill to 225: Run 10-3/4" casing. 24 Aug Under surface casing @ 4am. Tam @ 4,630'. 30 7am @ 4,630'. 30 7am @ 4,991'. RTD (5,220) @ 9:20pm. Set casing @ 223'. Cemented wi 240 sx Class A 25 7am @ 2,860'. Tam @ 3,650'. 31 Logging truck broke down (fan bett) enroute. Replacement truck arrived. (2% Gel + 3% CC). [Allied] Cement did circulate. Plug down @ 7pm. WOC. 28 7am @ 4,180'. Tam @ 3,650'. 31 Logging truck broke down (fan bett) enroute. Replacement truck arrived. E-Log. [Superior Well Services] HOLE DEVIATION (225' - 5,220') DEPTH / TVD INCLINATION AZIMUTH NORTH SOUTH EAST WEST DOGLEG deg/100' 225 / - 1.25 (Surafce Casing) 1,227 / - 0.50 2,262 / - 1.00 2,262 / - 1.00 2,262 / - 1.00 2,763 / - 0.50 33,640' / - 0.50 3,264 / - 0.50 3,640' / - 1.50 3,264 / - 0.50 3,640' / - 0.50 3,264 / - 0.50 3,640' / - 0.50 3,264 / - 0.50 3,640' / - 0.50 3,262 / - 1.50 (RTD)	14-9	3/4" Hole	27 (12)	DRILLING STA	-7/8" Hole		7.7/9'	" Hole	
DEPTH / TVD INCLINATION AZIMUTH NORTH SOUTH EAST WEST DOGLEG deg/100' 225' / 1.25 (Surafce Casing) 1,227' / 0.75 1,761' / 0.50 2,262' / 1.00 2,763' / 0.50 3,264' / 0.50 3,640' / 0.50 4,049' / 0.50 4,143' / 0.50 4,707' / 0.50	23 August Spud Dril Rur Set Cen (2% Ge Cen Plu	I @ 3pm. I to 225'. 1 10-3/4" casing. casing @ 223'. nented w/ 240 sx I + 3% CC). [Allie nent did circulate g down @ 7pm.	Class A ed]	24 Aug Under 7am (25 7am (26 7am (27 Displa 7am (surface casing @ 2 445'. 2 2,041'. 2 2,860'. ced Mud @ 3,400'. 2 3,650'.	30	 7am @ 4, 7am @ 4, RTD (5,22 Logging t down (1 Replacen E-Log. 	630'. 991'. 20') @ 9:20pm. truck broke fan belt) enroute. nent truck arrived.	
				_					

H2 Drilling --- Rig #3

10,500 E. Berkeley Square Parkway, Suite 1000 Wichita, Kansas 67230 Office: (316) 636-2090

Rig #3 - (620) 388-1903

Toolpusher: James Schultz - (620) 290-5912

WOB 35M (39.9M corrected) @ 80 RPM while drilling main hole.

6" x 14" @ 60 SPM.

1,200 PSI @ Standpipe.

Pump: EMSCO D-375

Drill Collars: 6.25" x 2.25" --- 559'. (91#/ft) Dry Collar Weight: 50,864# (@ 9.2 ppg / Buoyancy Factor 0.860) Bouyancy Collar Weight: 43,747# Design Factor: 15%, therefore: available WOB is 37,185# Drill Pipe: 4-1/2"XH. (16.6#/ft - new)

BIT RECORD											
DATE	SIZE	TYPE	JET SIZE	DEPTH IN / OUT	CUM. FT.	HOURS	ROP				
23 Aug 2011	14-3/4"	VAREL L-117	14 - 15 - 14	0' / 225'	225'	3.00	59.5				
24 Aug 2011	7-7/8''	VAREL Hp-21	14 - 15 - 14	225' / 5,220'	4,995'	144.00	34.7				

ROCK TYPES										
POROSITY E Earthy □ Fenest F Fracture × Inter ✓ Moldic ○ Organic P Pinpoint ✓ Vuggy LITHOLOGY Anhy ■ Bent □ ○ ▲ △ Cht Clyst □ Coal Granite wat ○ A △ Silty dol	Calc dol Dol 2 Dol Gyp Igne Lmst 2 Lmst 2 Lmst 3 Shale	MINERAL□Mica□Anhy□Arggrn□Arg□Arg□Bent□Bit③Brecfrag□Calc■Calc■Calc■Chtlk△Chtlt□Feldspar●Ferrpel□Ferr○GlauNGyp■HvyminKKaol□Marl	Image: Minxl Minxl Image: Minxl Nodule Image: Minxl Phos Image: Phos Pyr Image: Phos Pyr Image: Salt Salt Image: Strain and the salt Salt Image: Strain and the salt Calc dol Image: Strain and the salt Salt Image: Strain and the salt Calc dol Image: Strain and the salt Salt Image: Str	SHOW Oil						
		ACCESSORIES								
FOSSILImageImag	 Oolite Ostra Pelec Pellet Pisolite Plant Strom MINERAL MINERAL Arggrn Arggrn Arggrn Arg Bent Bit Brecfrag 	 ▲ Calc ▲ Carb ▲ Chtdk △ Chtlt △ Dol ↓ Feldspar ● Ferrpel ▲ Ferr △ Glau ℕ Gyp ■ Hvymin ₭ Kaol ↑ Marl ♥ Minxl ● Nodule ♥ Phos 	 Pyr Salt Sandy Silt Sil Sulphur Tuff Copper Ooliticastic Ooloid Oolite Sucrosic Dark specks STRINGER Calc dol	Silty dol Anhy Arg Bent Coal Dol Gyp Ls TT Mrst Calc dol Sitstrg Ssstrg Chalk New symbol						
ACTIVITY		OTHER SYMBOLS amEVENT Connection Rft	Sidewall							

	Curve Track 1 ROP (min/ft)	Depth	/ Type	Porosity	ws	Lithology	Geological Descriptions	C C	G (Ur 1 (un 2 (un 3 (un	<mark>its)</mark> its)	Т	G, C	:1-C	5			-
	Depth			_24% _18% Porc 6%	Shows			C	4 (un 5 (un	its)					•••		-
	ROP (min/ft) 10	40	Η	0 7 7 5				0				TG, C	1-C5				100
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