Confidentiality Requested: Yes No

### KANSAS CORPORATION COMMISSION **OIL & GAS CONSERVATION DIVISION**

1184970

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:				
Name:					
Wellsite Geologist:					
Purchaser:	County:				
Designate Type of Completion:	Lease Name: Well #:				
New Well Re-Entry Workover	Field Name:				
	Producing Formation:				
	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?				
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 Twp S. 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 III Approved by: Date:

	Page Iwo	1184970		
Operator Name:	_ Lease Name:	Well #:		
Sec TwpS. R East _ West	County:			
INCTRUCTIONS. Chow important tang of formations papatrated D	atail all aaraa Bapart all final	conice of drill stome tests giving interval tested, time test		

**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 Sheets) Samples Sent to Geological Survey		Yes No	L	og Formatio	n (Top), Depth an	d Datum	Sample
		Yes No	Nam	e		Тор	Datum
Cores Taken Electric Log Run		Yes No					
List All E. Logs Run:							
		CASING	RECORD Ne	w Used			
		Report all strings set-c	conductor, surface, inte	ermediate, producti	on, 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 / SQL	JEEZE RECORD			
Purpose: Perforate	Depth Top Bottom	Type of Cement	# Sacks Used		Type and Pe	ercent Additives	
Protect Casing Plug Back TD							
Plug Off Zone							

Did you perform a hydraulic fracturing treatment on this well?	Yes	No	(
Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons?	Yes	No	(
Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry?	Yes	No	(

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

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

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated			Å	Acid, Fracture, Shot, Ce (Amount and Kind	ement Squeeze Record of Material Used)	Depth		
TUBING BECOBD	Siz	e: Se	et At	Packer	r At·	Liner Bı	un.		
	0.2					Linor ra	Yes	No	
Date of First, Resumed	Production	on, SWD or ENHR.	Producing	Method: g Dum	ping	Gas Lift	Other (Explain)		
Estimated Production Per 24 Hours		Oil Bbls.	Gas	Mcf	Wate	er	Bbls.	Gas-Oil Ratio	Gravity
DISPOSITION OF GAS: METHOD					TION:		PRODUCTION IN	TERVAL:	
Vented Solo	1 _ L	lsed on Lease	Open Hole	Perf.	Dually	Comp. 4 <i>CO-5</i> )	Commingled		
(If vented, Su	bmit ACO	-18.)	Other (Specif	fy)	(2001111)				

Mail to: KCC - Conservation Division, 130 S. Market - Room 2078, Wichita, Kansas 67202

Form	ACO1 - Well Completion
Operator	Woolsey Operating Company, LLC
Well Name	NUSSER 4
Doc ID	1184970

## Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement	Number of Sacks Used	Type and Percent Additives
SURFACE	17.5	13.375	48	217	CLASS A	130	SEE ATTACH ED
PRODUC TION	7.875	5.5	15.5	5325	60/40 POZ	50	SEE ATTACH ED
PRODUC TION	7.875	5.5	15.5	5325	CLASS H	125	SEE ATTACH ED

# ALLIED OIL & GAS SERVICES, LLC 059830

Federal Tax I.D	0.# 20-5975804	
REMIT TO P.O. BOX 93999 SOUTHLAKE, TEXAS 76092	SERVI	CEPOINT: Maderia Liberts
		TTELICIAL AGE
DATE -13 11 353 12 W	500 PM 630 PM	1:30 Am 2:30 Am
LEASE NUSSER WELL # 4 LOCATION Handrey	on the East to Roundurg	COUNTY STATE
OLD OBNEW (Circle one) RI // S. E.A.	the part of the pa	Dogwood 1
CONTRACTOR Aliman		
TYPE OF JOB Surface	OWNER Woolsey	
HOLE SIZE 17/2 T.D. 222	CEMENT	A A 70/ 1
CASING SIZE / 3 1/8 - DEPTH 202+15 8 1/1	AMOUNT ORDERED <u>2005</u>	X CLASSH + 5 BECT
DRILL PIPE DEPTH	21092	
TOOL DEPTH	236	1760 1/1/760
MEAS LINE SHOE JOINT ALA	COMMON <u>AUC SX</u>	@ 1770 9777.00
CEMENT LEFT IN CSG. 20'	GEL <u>5</u>	@23.40 117.00
PERFS.	CHLORIDE _ S	@ 64.00 512.00
DISPLACEMENT ~ 174 D65 FResh H ()	ASC	@ @
EQUIPMENT	·····	@
PUMPTRUCK CEMENTER D.Fe/10		@
# 471-265 HELPER JUSH'A BONK		@
#381- DRIVER J. Thingsd		@
BULK TRUCK		@
# DRIVER	HANDLING 248,78	@ 2.48 616.97
	MILEAGE //-35/25/2	<u>.60 7.37.75</u>
$\mathbf{R} \in \mathbf{R} \in \mathbf{R} \times \mathbf{R}$	. /	TOTAL 6100-72
test lines MX 2305x A 322 con it Start	SERVIC	17
Disp. w/ Fresh H D, Wash up truck See Steady		
incheuse in PSI, Slow Rate, Stop Punp at	DEPTH OF JOB	<u> </u>
alty DED Visp., Stot in, Contest Vice you.	EXTRA FOOTAGE	@
	MILEAGE 25	@ 7.70 192.50
	MANIFOLD	@ NK HO DO
5	- Wantvenice 23	@ <i></i>
CHARGE TO: Woolsey		101170
STREET	10 - 11 - 11 - 11	TOTAL 1814.15
CITY STATE ZIP	8 2013	
	PLUG & FLOAT	EQUIPMENT
	/	@
		@
To: Allied Oil & Gas Services, LLC.	-100-	@ @
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
contractor. I have read and understand the "GENERAL	SALES TAX (If Any)	
TERMS AND CONDITIONS listed on the reverse side.	TOTAL CHARGES 791	R.47
PRINTED NAME MIKE THARP	DISCOUNT	IF PAID IN 30 DAYS
	A) Et choi	
SIGNATURE MALE THE	530	
	τ	RIJ. FILR
	VV	
	Reg	Comp Workeyers
	Tests	s / Meters Operations

1

# ALLIED OIL & GAS SERVICES, LLC 059954 Federal Tax 1.D.# 20-5975804

REMIT TO P.O. BOX 93999 SOUTHLAKE, TEXAS 76092	SERVICE POINT:
DATE 10-10-13 11 355 12W	ALLED OUT CATION JOB START JOB FINISH 5:30 7:00 4:154m 6:30
LEASE ALLEGA WELL # 44 LOCATION 2014	D O DI ULL COUNTY STATE
OLD OPATEW (Circle and)	Doundup Rd, 143, sparber KS
OLD OR NEW (Circle one)	
CONTRACTOR Minnesch	OWNER Woolsey Operating
TYPE OF JOB Production	
HOLE SIZE 7 1/8 T.D. 54 YO	CEMENT
TUDING SIZE J / Z DEPTH S SZS	AMOUNT ORDERED 705x 60:40:47 Jac
DEPTH	125x H +10% ogy A + 10% Salt +6 Kolsea
TOOL DEPTH	T. 810 F/-160+ 1/4 + 10 Sea
DES MAY MINIMUM	annon 11. A alor 1780 911.60
MEAS LINE SHOE JOINT days	COMMON <u>ULASS 11 5458@ 1,40 160.</u>
CEMENTLEETINCSC 115 SHOE JUINT 45.17	POZMIX
DEDES	GEL
DISDLACEMENT 1967 214	CHLORIDE@
DISPLACEMENT 128 2013	ASC @
EQUIPMENT	15 gal KCL @-15710 5/6
David Felip	
PUMP TRUCK CEMENTER DON GUILLEN	<u>Class IT</u> <u>12559 @ 21.00</u> <u>2650</u>
# 548-545 HELPER Jak Kr Hand	Salt 135X @ 26.33 342.32
BULK TRUCK	Kolsen 150 # @ 118 135.
# 781-250 DRIVER Carl Rocklass	Gupbert 2358 @ 37.00 869 00
BULKTRUCK	Floren 32# @ 2197 93.00
# DRIVER	FL-160 77 IT @ 78" 116
	HANDLING $\alpha 65^{\prime\prime}$ $(1)^{\prime}$ $(2)^{\prime}$ $(2)^{\prime}$ $(3)^{\prime}$
	MILEAGE 11.5 20 2.00 588.12
REMARKS:	TOTAL <u>459945</u>
Fire On Dottom DreakCirc,	
FILLE RHS MM SUSX GD:40:4% get	SERVICE
Mix 1505x Cement 14.8"	
Stop Wash Pump things	DEPTH OF JOB 5496'
Release poling	PUMP TRUCK CHARGE
Start His placement Slow 38615	EXTRA FOOTAGE@
Am. C. TO LEFT Sump plug 700 DUE	MILEAGE <u>20 @ J. 70 [54</u>
Percase pressure	MANIFOLD Headlehtaf @275
Pipat Did Hold	Light Veh. W@4 88
Washupiruck	
CHARGE TO: WOOLSey Operating	001 28 2013
STREET	TOTAL <u>3282.</u>
CITY STATE 71P	
	S//2 PLUG & FLOAT EQUIPMENT
	11 - T. alaplinede @ 49.30 521.30
	10- SAVATAL PINE @ 26.00 770.00
	Letal Noula Nuc @ 398175
10: Allied Oll & Gas Services, LLC.	1 - A Ell (auice 6 5 mg) 339,30
You are hereby requested to rent cementing equipment	$\frac{1}{2} = \frac{1}{2} $
and furnish cementer and helper(s) to assist owner or	₩₩
contractor to do work as is listed. The above work was	1989.35
done to satisfaction and supervision of owner agent or	TOTAL $\frac{10}{2}$
contractor. I have read and understand the "GENERAL	

TERMS AND CONDITIONS" listed on the reverse side.

printed name X MIKE THARP signature X Mak TGP

		T	DTAL 1989.35
SALES TAX (If A	ıy)		
TOTAL CHARGE	s_14,	871.5	55
DISCOUNT		I	F PAID IN 30 DAYS
5	Net.	1165	0
	VVE	ىلىل	F.TTR.
N.	Regula Drig / Tests /	tory Co comp Meters	orrespondence Workovers Operations

HYDRAULIC FRACTURING FLUID PRODUCT COMPONENT INFORMATION DISCLOSURE						
11/26/2013						
Barber						
Woolsey Operating						
Nusser #4						
369900						
	IC FRACTURING FLU 11/26/2013 Barber Woolsey Operating Nusser #4 369900	IC FRACTURING FLUID PRODUCT COMPONENT INFO  11/26/2013 Barber Woolsey Operating Nusser #4  369900	IC FRACTURING FLUID PRODUCT COMPONENT INFORMATION DISC 11/26/2013 Barber Woolsey Operating Nusser #4 369900	IC FRACTURING FLUID PRODUCT COMPONENT INFORMATION DISCLOSURE          11/26/2013         Barber         Woolsey Operating         Nusser #4         369900	IC FRACTURING FLUID PRODUCT COMPONENT INFORMATION DISCLOSURE	

Hydraulic Fracturing Fluid Composition:

				Chemical	Maximum	Maximum
				Abstract	Ingredient	Ingredient
Trade Name	Supplier	Purpose	Ingredients	Service	Concentration	Concentration
in duo indino	ouppro:			Number	in Additive	in HE Fluid
					(% by mass)**	(% by mass)**
Disustials OF 7	Charmelau	Esistian Daduara		(CA3#)	(% Dy IIIdSS)	(% Dy IIIdSS)
Plexslick 957	Chemplex	Product Stabolizor	Petroleum Hydrotreated Light Distillate	64/42-4/-8	25%	0.0198480%
Plexsul 580 IVIE	Chemplex	Product Stabalizer	Nethyl Alcohol	07-00-1	10%	0.0025000%
Claymax	Chemplex	Clay Stabalizer	2-Butoxyethanoi	111-70-2	50%	0.0125000%
Ciayiriax Diavaida P7	Chemplex	Diag Stabalizer	Sodium Hydroxido	1210 72 2	E0/	0.0002500%
Plexcide D7	Chemplex	Diocide	Alkeline Dramide Selte	1310-73-2	J 76	0.0002500%
Plexcide B/	Chemplex	Biocide Brooker/Cliekweter	Alkaline Bromide Saits	7700 04 1	70/	0.00141000/
Plexgel Breaker XPA	Chemplex	Breaker/SlickWater	Hydrogen Peroxide	//22-84-1	/ %	0.0014189%
Plexset 730	chemplex	Activator	Internation	1-00-1	50%	0.5000000%
Plexset 730	Chemplex	Activator	Alcohol Ethoxylates		60.00%	0.600000%
Frac Sand	Uniman	Propant	Crystalline Silica in the form of Quartz	14808-60-7	100.00%	26.4%
Plexgel Breaker TUL	Chemplex	Breaker/Gel	No nazardous ingredient	(0.17/ 0.1/	100.000/	0.50000000
Plexgel 907L-EB	Chemplex	Gelling Agent	Hydrocarbons	68476-34-6	100.00%	0.5000000%
L		1				

Woolsey Operating Company, LLC Scale 1:240 (5"=100') Imperial Measured Depth Log								
Well Name:	Well Name: Nusser #4							
	Section 11 - IOWNSNIP 35 South - Kange 12 West							
License Number:	AP1# 15-007-24067-0000	Region:	Barber County, Kansas					
Spud Date:	September 30, 2013	Drilling Completed:	October 9,2013					
Surface Coordinates:	Surface Coordinates: S 1/2 SW NW SW							
Dettem Hele	1350° FSL &							
Bottom Hole								
Ground Elevation (ft):	1387 K.B.E	Elevation (ft): 1400						
Logged Interval (ft):		tal Depth (ft): 5490 <sup>°</sup>						
Formation:	Kansas City> Simpson Gro	oup						
i ype of Drilling Fluid:	Cnemical Mud, Displaced at	was from WallSight Systems 4 000 4	47 4524 ununu MallSinkt aam					
Printed by weilbight Log viewer from weilbight Systems 1-800-447-1534 www.weilbight.com								

### OPERATOR

Company: Woolsey Operating Company,LLC Address: 125 N. Market, Suite 1000 Wichita, KS 67202

### GEOLOGIST

Name: Joel Gearhart Company: Woolsey Operating Co. LLC Address: 125 N. Market, Wichita Kansas, 67202

### COMMENTS

Surface Casing: Ran 5 joints of new 13 3/8" X 48#/ft casing to 217' KB with 130 sx Class A, 2% gel, 3% cc. Plug down at 2:40 am on October 1, 2013. Cement did cirulate. Production Casing: 5 1/2" X 15.5#/ft

Deviation Surveys: 1/2 at 222', 1/2 ar 1337'. 1 1/4 at 1557', 1 at 2002', 3/4 at 2508', 1 at 3013', 3/4 at 3562', 3/4 at 4028', 3/4 at 4503', 3/4 at 4900', 3/4 at 5490'.

Pipe Strap @ 4900', Board: 4916.07', Strap: 4913.19'. Strap 2.88' long. No correction was made to the board. Ninnescah Drilling Rig 101 Bit Record:

1) 17 1/2" HTC RR in at 0' out at 222', 3 hours

2) 7 7/8" Varel HE-21 in at 222', out at 4900', 111 1/2 hours

3) 7 7/8" Varel HE-34 in at 4900', out at 5490', 39 1/2 hours

Gas Detector: Woolsey Operating Co. Gas Trailer #2 Mud System: Mud-Co. Brad Bortz, Engineer DSTs: No tests were ran. Electric Logs: Nabors Completion and Production Services. Dual Induction Laterolog w/SP, CNL-FDC w/PE, GR and Caliper. Mitch Rupp, Engineer.

DSTs

No open hole tests were ran.

CREWS

Mr. Rick Barriger, Tool Pusher Jason Barriger, Daylights Juan "Cisco" Navorro, Evening Ronaldo "Pedro" Guerrero, Morning Oscar "Poncho" Orona, Relief





One foot drill time was recorded from 4400' to rotary total depth. 10' and circulating samples were gathered from 4600' to rotary total depth. All samples were delivered to the Survey at the completion of the test. 7am Progress: September 30. 2013 MIRT/SPUD October 1, 2013 WOC October 2, 2013 Drilling at 1559' October 3, 2013 Drilling at 2364' October 4, 2013 Drilling at 3137' October 5, 2013 Drilling at 3975' October 6, 2013 Drilling at 4590' October 7, 2013 Bit trip at 4900' October 8, 2013 TOOH for logs. Logs out 3 pm Electric Log Tops: Herington 1915 (-515) Onaga 2775 (-1375) Wabaunsee 2837 (-1437) LeCompton 3620 (-2220) Kanwaka 3644 (-2244) Elgin Sand 3720 (-2320) Heebner 3834 (-2434) Toronto 3845 (-2445) Douglas Group 3872 (-2472) Brown Lime 4281 (-2881) Stalnaker ND Quindaro 4382 (-2982) Kansas City 'F' 4386 (-2996) Kansas City 'G' (lola) 4417 (-3017) Kansas City 'l' (Dennis) 4501 (-3101) Stark 4541 (-3141) Kansas City 'J' (Swope) 4554 (-3154) Hushpuckney 4572 (-3172) Kansas City 'K' (Hertha) 4580 (-3180) B/Kansas City 4621 (-3221) Pawnee 4726 (-3326) Cherokee Group 4771 (-3371) Cherokee Sand 4801 (-3401) Mississippian 4828 (-3428) C3 4828 (-3428) C2A 4836 (-3436) C2 4901 (-3501) C1 5004 (-3604) Osage 5068 (-3668) Northview Shale 5079 (-3679) Compton 5083 (-3683) Kinderhook 5095 (-3695) Woodford 5173 (-3773) Misener Sand 5194 (-3794) Viola 5222 (-3822) Simpson 5350 (-3950) Mileau Canal E070 ( 0070)















