

KANSAS CORPORATION COMMISSION OIL & GAS CONSERVATION DIVISION

1196426

March 2010 This Form must be Typed Form must be Signed All blanks must be Filled

Form CP-1

WELL PLUGGING APPLICATION	
Form KSONA-1 Certification of Compliance with the Kansas Surface Owner Notification Ac	•

	bmitted with this form.
OPERATOR: License #:	16 mm 4007 sum handrid a secolation data.
Name:	
Address 1:	Spot Description: Sec Twp S. R East West
Address 2:	
City: State: Zip: +	Feet from North / South Line of Section
Contact Person:	
Phone: ( )	
	County:
	Lease Name: Well #:
Check One: Oil Well Gas Well OG D&A SWD Permit #: ENHR Per	Cathodic Water Supply Well Other: mit #: Gas Storage Permit #:
Conductor Casing Size: Set at:	
Surface Casing Size: Set at:	
List (ALL) Perforations and Bridge Plug Sets:	Cemented with: Sacks
Elevation:       ( G.L. / K.B.)       T.D.:       PBTD:         Condition of Well:       Good       Poor       Junk in Hole       Casing Leak a         Proposed Method of Plugging (attach a separate page if additional space is needed)         Is Well Log attached to this application?       Yes       No       Is ACO-1 filed	at:(Stone Corral Formation)
If ACO-1 not filed, explain why:	
Plugging of this Well will be done in accordance with K.S.A. 55-101 et. seq.	and the Rules and Regulations of the State Corporation Commission
Company Representative authorized to supervise plugging operations:	
Address:	City: State: Zip: +
Phone: ( )	
	Name:
Plugging Contractor License #:	
	Address 2:
Address 1:	
Address 1:	State: Zip: +

Submitted Electronically

Mail to:	KCC -	Conservation	Division.	130 S.	Market ·	- Room	2078.	Wichita.	Kansas	67202
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### KANSAS CORPORATION COMMISSION OIL & GAS CONSERVATION DIVISION

1196426

### CERTIFICATION OF COMPLIANCE WITH THE KANSAS SURFACE OWNER NOTIFICATION ACT

This form must be submitted with all Forms C-1 (Notice of Intent to Drill); CB-1 (Cathodic Protection Borehole Intent); T-1 (Request for Change of Operator Transfer of Injection or Surface Pit Permit); and CP-1 (Well Plugging Application). Any such form submitted without an accompanying Form KSONA-1 will be returned.

Select the corresponding form being filed: C-1 (Intent) CB-1 (Cathodic Protection Borehole Intent) T-1 (Transfer) CP-1 (Plugging Application)

OPERATOR: License #	Well Location:			
Name:				
Address 1:	County:			
Address 2:	Lease Name: Well #:			
City: State: Zip:+	If filing a Form T-1 for multiple wells on a lease, enter the legal description of			
Contact Person:	the lease below:			
Phone: ( ) Fax: ( )				
Email Address:				
Surface Owner Information:				
Name:	When filing a Form T-1 involving multiple surface owners, attach an additional			
Address 1:	sheet listing all of the information to the left for each surface owner. Surface owner information can be found in the records of the register of deeds for the			
Address 2:	county, and in the real estate property tax records of the county treasurer.			
City: State: Zip:+				

If this form is being submitted with a Form C-1 (Intent) or CB-1 (Cathodic Protection Borehole Intent), you must supply the surface owners and the KCC with a plat showing the predicted locations of lease roads, tank batteries, pipelines, and electrical lines. The locations shown on the plat are preliminary non-binding estimates. The locations may be entered on the Form C-1 plat, Form CB-1 plat, or a separate plat may be submitted.

#### Select one of the following:

- I certify that, pursuant to the Kansas Surface Owner Notice Act (House Bill 2032), I have provided the following to the surface owner(s) of the land upon which the subject well is or will be located: 1) a copy of the Form C-1, Form CB-1, Form T-1, or Form CP-1 that I am filing in connection with this form; 2) if the form being filed is a Form C-1 or Form CB-1, the plat(s) required by this form; and 3) my operator name, address, phone number, fax, and email address.
- I have not provided this information to the surface owner(s). I acknowledge that, because I have not provided this information, the KCC will be required to send this information to the surface owner(s). To mitigate the additional cost of the KCC performing this task, I acknowledge that I must provide the name and address of the surface owner by filling out the top section of this form and that I am being charged a \$30.00 handling fee, payable to the KCC, which is enclosed with this form.

If choosing the second option, submit payment of the \$30.00 handling fee with this form. If the fee is not received with this form, the KSONA-1 form and the associated Form C-1, Form CB-1, Form T-1, or Form CP-1 will be returned.

### Submitted Electronically

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All blanks must be Filled



# Chesapeake Operating, Inc.

Interoffice Memorandum

- TO: Jay Stratton
- CC: Walter Kennedy, John Hudson, David Lynch and Bud Neff
- FROM: Sara Everett, Doug Kathol
- DATE: February 12, 2014
- RE: Plug and Abandon WOOD 3-13 SECTION 13-T24S-R41W HAMILTON COUNTY, KS

Property Number: 218398

### Chesapeake Energy GWI: 81.773% NRI: 68.281%

### **Recommendation:**

The Wood 3-13 was producing approximately 18 MCF and 5 BW per day when it was shut in November 2013. The well was drilled in 1976 to a total depth of 2,380 feet and completed in the Winfield formation. Cumulative production from this well has been 470 MMCF of natural gas.

### \*\*\*\*This well must be plugged by March 8, 2014 per KCC\*\*\*\*

**Discussion:** 

	woo	D 3-13					Geologist :	Walter Kennedy
Plug & Abandon Procedure						Res	ervoir Engineer:	John Hudson
	WIN	FIELD				Produ	iction Engineer :	Doug Kathol
	VER'	TICAL					Landman :	David Lynch
	2/12	/2014					Production Sup.:	Bud Neff
WELL DATA:								
Lease:	WOOD 3	-13	WI		0.817730	NRI:	0.682810	
S-T-R: Location:	13-T24S- C NW SE		<b>Cour</b> L & 1980 FEL (		: HAMILTON CTION	I, KS		
AFE #:	803072	API #:	1507520161		Prop. #:	218398	IP:	800 MCFPD
PBTD:	2,380'	TD:	2,380'		Spudded:	10/3/197	6	
Туре:	VERTICA	AL.	Elevations	GL:	3,233'		<b>KB:</b> 3,241'	<b>KB-GL</b> : 8'
Surface C	asing:							
								SET DEPTH

 SIZE	WEIGHT	GRADE	TYPE	CEMENT	тос	TOP	BTM
8-5/8"	20.00#	ST&C	Surface Casing	325 sx Class H	Surface	0'	327'
4-1/2"	9.50#	ERW	Production Casing	350 sx + 150 sx	Surface	0'	2,379'
2-3/8"	4.70#		Tubing			0'	2,320'

## Production Casing and Tubing Data:

 SIZE	WEIGHT	GRADE	ID	DRIFT	Bbl/Ft.	Gallons/Ft.	Burst	Collapse	Jnt St
 8-5/8"	20.00#	ST&C							
4-1/2"	9.50#		4.0900"	3.9650"	0.0162	0.68250	4,380	3,310	101

### Well Driving Directions:

Perf'd Formations	Depth Range	Stimulation Details
Treatable Water	775'	
Stone Corral	2,250'	
WINFIELD	2322' - 2336'	23,300 gal gelled 2% KCl & 13,500# 20/40 sand

# NOTES: \*\*\*\* This well must be plugged by March 8, 2014 per KCC \*\*\*\*

### **Procedure**

- 1. Obtain plugging permit from KCC office and notify plugging supervisor 24 hrs. before plugging operations begin.
- 2. MIRU WO unit. ND WH, NU BOP. Kill well if necessary with lease water.
- 3. POOH laying down downhole equipment. Stand back tbg in derrick.
- 4. MIRU WL Unit and RIH with 4½" CIBP and set at +/-50' above perfs. Dump bail 10' of cement on CIBP. RDMO WL unit.
- 5. RIH w/ tbg, set EOT @+/-50' above CIBP and circulate hole with 9#, 36 vis (minimum plugging mud and circulate plugging mud to surface). TOOH w/tbg.
- 6. PUH with tubing. Circulate cement across the 8-5/8" csg shoe and spot 100' cement cmt plug. (See note)
- 7. PUH with tubing. Circulate cement across Base of Treatable Water and spot 100' cmt plug. WOC and POOH.
- 8. RIH with tubing and tag cement plug. Respot more cement if necessary.
- 9. PUH with tbg to 34' and spot 30' cement plug (34' to 4') from surface.
- 10. RDMO WO unit. Cut off csg 4' below ground level and weld on ID Plate.

**<u>NOTE</u>**: If 4½" casing cannot be cut off below surface casing shoe, the 5 1/2" casing must be perforated at surface casing shoe and block squeezed, raising cement to 50' above the surface csg shoe depth. The cement plug must then be tagged at 50' from shoe or higher. Go to step #9.



2/12/2014

# Chesapeake Operating, Inc. Estimated Plugging & Salvage Values

Shallow Well (<4000' Approx)

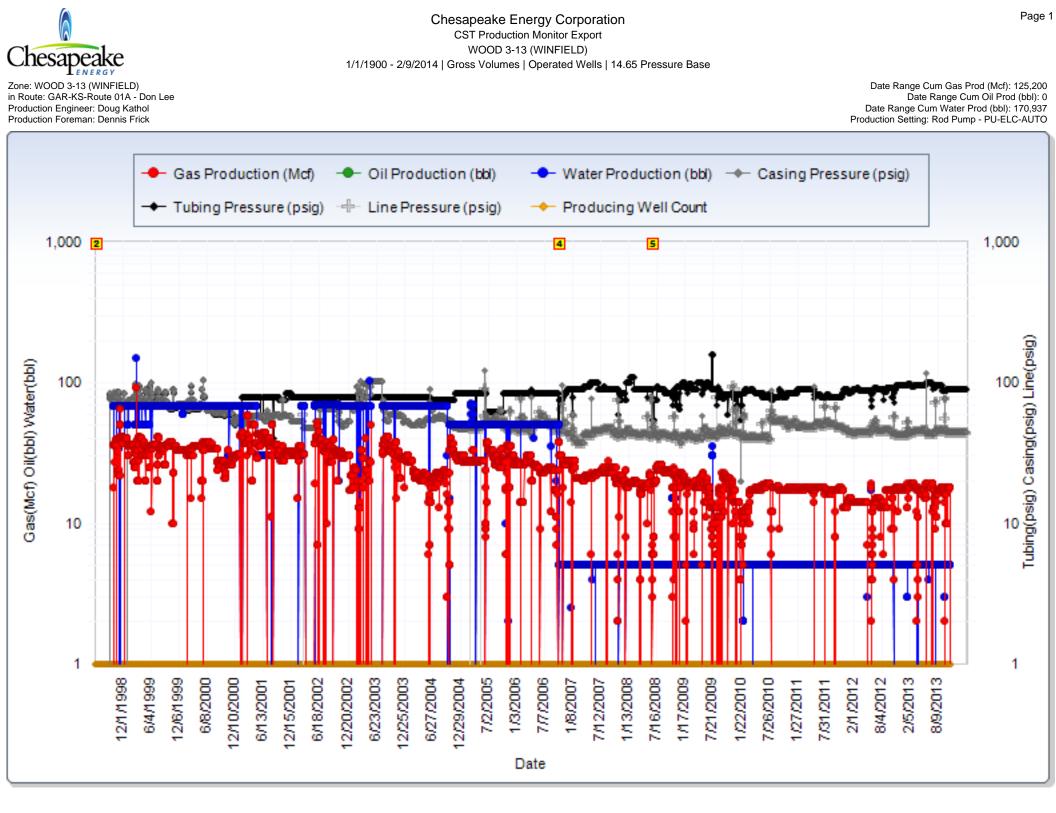
Well Name:	WOOD 3-13	Property #	218398	GWI:	0.817730
Location:	SEC 15-T24S-R41W		15-075-20161	NRI:	0.682810
County, State:	Finney Co., KS	AFE #	803072		

### **Estimated Equipment Salvage Values**

Equipment Description	Salvage Value		Cost
5/8" Rods - 2,325'	\$0.25		\$558.00
76 Joints 2 3/8 Tubing - 2,356'	\$.50/ft		\$1,225.00
Churchill 40			\$2,159.00
10 HP Motor			\$925.00
		Gross Salvage Total:	\$4,867.00
		COI Net Salvage Total:	\$3,979.89

### **Estimated Plugging Expenses**

Description		Cost
Cased Hole Services / Perforating		\$2,000.00
Completion Unit		\$5,500.00
Contract Labor		\$3,000.00
Drilling Fluids, Mud, Chem.		\$500.00
Contingency		\$1,000.00
Plug to Abandon		\$4,000.00
Supervision		\$2,000.00
Surface Equipment Rental		\$1,000.00
Transportation		\$1,000.00
Reclamation		\$3,000.00
	Gross Plugging Expense:	\$23,000.00
	COI Net Plugging Expense:	\$18,807.79
	Gross Total Estimated Plugging Expense:	\$18,133.00
	COI Not Total Estimated Diverging Expanses	¢44 927 00





### Chesapeake Energy Corporation CST Production Monitor Export WOOD 3-13 (WINFIELD) 1/1/1900 - 2/9/2014 | Gross Volumes | Operated Wells | 14.65 Pressure Base

Marker #	Date	Annotation	Created By	Created Date
1	10/2/1976	Drilling/Drilling/Original Drilling	WellviewJobInfo	1/30/2013
2	10/24/1976	Workover/Completion/Initial Completion	WellviewJobInfo	1/30/2013
3	10/4/2006	Workover/Failure/Tubing Repair	WellviewJobInfo	1/30/2013
4	10/5/2006	Strip out rods & TBG, CO iron sulfide to TD, re-run AFL equipment, RTP	Weston Hamilton	7/31/2009
5	6/9/2008	Pipeline shut-in	Doug Howeth	10/22/2008



### Chesapeake Energy Corporation CST Operations 8/8ths LOS Report LOS MAIN 12/2012 - 11/2013 Gross Volumes | Operated Wells

Name	Property	Gas Price	Oil Price	NGL Price	Royalty Burden	Revenue	MCFE	Total LOE	LOE/MCFE	Ad Val	Compression	Overhead	R&M	SWD	Subsurface	Utilities	Workover	All Other	Sev Tax	Op Cash Flow	Capital	Net Cash Flow
WOOD 3-	218398		\$91.94			6,479	5,051	17,671	\$3.50	167	(	6,498	59	398	0	863	0	9,686	405	11,597	0	11,597
Totals		\$1.56	\$91.94	\$0.00	1,280	6,479	5,051	17,671	\$3.50	167	(	6,498	59	398	0	863	0	9,686	405	11,597	0	11,597



#### Chesapeake Energy Corporation CST Operations 8/8ths LOS Report WOOD 3-13 12/2012 - 11/2013 Gross Volumes | Operated Wells

LENERG												
Name Property	Gas Oil Price Price	NGL Royalty Price Burder		CFE Total LOE	LOE/MCFE Ad Val	Compression C	Overhead R&M S	SWD Subsurface	Utilities Workove	er All Sev Other Tax	Op Cash Cap Flow	ital Net Cash Flow
WOOD 3- 218398 13	\$1.56 \$91.94		280 6,479 <mark>5</mark> ,	, <mark>051</mark> 17,671	<b>\$3.50</b> 167	0	6,498 59	398 0	863	0 <mark>9,686</mark> 405	5 11,597	0 11,597
	10/00/0											
Line Item	12/2012	01/2013	02/2013	03/2013	04/2013	05/2013	06/2013	07/2013	08/2013	09/2013	10/2013	Total
Gas Revenue Volume Gas Sales	576 576	584 584	526 526	450		387 387			538 538	497 497	554 554	5,051 5.051
Gas Value	\$936	\$846	\$739	\$662		\$658			\$814	\$740	\$817	\$7,759
Gas Price	\$1.62	\$1.45	\$1.41	\$1.47		\$1.70			\$1.51	\$1.49	\$1.47	\$1.56
Oil Revenue Volume	φ1.02 0	φ1. <del>4</del> 5 0	φ1. <del>4</del> 1 0	φ1. <del>1</del> 1 (		φ1.70 0		φ1.57 0	φ1.51 0	ψ1. <del>4</del> 5 0	φ1. <del>4</del> 7 Ο	φ1.50 0
Oil Sales	0	0	0	(					0	0	0	0
Oil Value	\$0	\$0	\$0	\$0		\$0			\$0	\$0	\$0	\$0
Oil Price	\$82.41	\$88.99	\$90.59	\$89.49		\$88.96			\$100.70	\$100.40	\$94.72	\$91.94
Royalty Burden	154	140	122	109		109		108	134	122	135	1,280
Royalty Percent	0.16499991	0.16499991	0.16499991	0.16499991	0.16499991	0.16499991	0.16499991	0.16499991	0.16499991	0.16499991	0.16499991	0.16499991
Revenue	781	707	617	553	3 690	550	55	546	679	618	682	6,479
MCFE	576	584	526	450	485	387	37	417	538	497	554	5,051
LOE Total	1,489	1,602	1,383	1,615		1,532			1,651	1,840	1,601	17,671
LOE Per MCFE	\$2.59	\$2.74	\$2.63	\$3.59	9 \$4.04	\$3.96	\$37.89	\$3.82	\$3.07	\$3.70	\$2.89	\$3.50
Ad Valorem Tax	167	0	0	(	,	0	0	0	0	0	0	167
Audit Charges	0	0	0	(		0	-	•	0	0	0	0
Company Labor	172	170	174	178		180			197	198	204	2,484
Compression	0	0	0	(		0		v	0	0	0	0
Contract Serv/Equip Rental	0	0	0	(		0			0	0	0	0
Field Facilities	23	53	37	32		40			35	38	42	416
Fuel Water Lube	0	0	0	(	,	0	•	0	0	0	0	0
Gas Processing	0	0	0	(	5	0	, and the second s	Ū	0	0	0	0
Insurance	0	0	0	(	,	0		0	0	314	0	314
Oil Processing	0	2	0	(	,	0	Ū	v	0	0	0	0
Other Expenses Overhead	4 564	564	4 564	564	4 15 4 606	4 606	15 606		606	606	606	52 6,498
Pumping Service	439	491	434	601		473			667	573	499	5,701
Regulatory	439	491	434	00		473			007	0	499	5,701
Rents And Fees	0	0	0	(		0		0	0	0	0	0
Repairs & Maintenance	0	0	59	(	,	0	-	U U	0	0	0	59
Salt Water Disposal	39	39	35	39	,	31		, in the second s	39	30	39	398
Salt Water Processing	0	0	0	(		0			0	0	0	0.00
Subsurface Repairs	0	0	0	(		0		0	0	0	0	0
Supplies	2	3	2		48	3	1	1	21	1	9	92
Telemetry	0	0	0	(		0	-	0	0	0	0	0
Transportation	0	0	0	(		0	-	-	0	0	0	0
Treating Expenses	0	122	0	125	5 0	125	0	125	0	0	125	622
Utilities	74	158	74	71	1 75	70	17	84	85	79	76	863
Workover	0	0	0	(	0 0	0	0	0	0	0	0	0
Gas Severance Tax	48	45	39	35	5 42	34	3	34	43	39	43	405
Oil Severance Tax	0	0	0	(	0 0	0	0	0	0	0	0	0
Severance Tax	48	45	39	35	5 42	34	3	34	43	39	43	405
IDC Monthly	0	0	0	(		0	0	0	0	0	0	0
WEQ Monthly	0	0	0	(	,	0	, in the second s	v	0	0	0	0
NRI	0.68280830	0.68280830	0.68280830	0.68280830		0.68280830			0.68280830	0.68280830	0.68280830	0.68280830
GWI	0.81773440	0.81773440	0.81773440	0.81773440		0.81773440			0.81773440	0.81773440	0.81773440	0.81773440
Operating Cash Flow	(756)	(940)	(805)	(1,097		(1,016)			(1,014)	(1,261)	(962)	(11,597)
Capital	0	0	0	(		0			0	0	0	0
Net Cash Flow	(756)	(940)	(805)	(1,097	) (1,313)	(1,016)	(1,350)	(1,083)	(1,014)	(1,261)	(962)	(11,597)

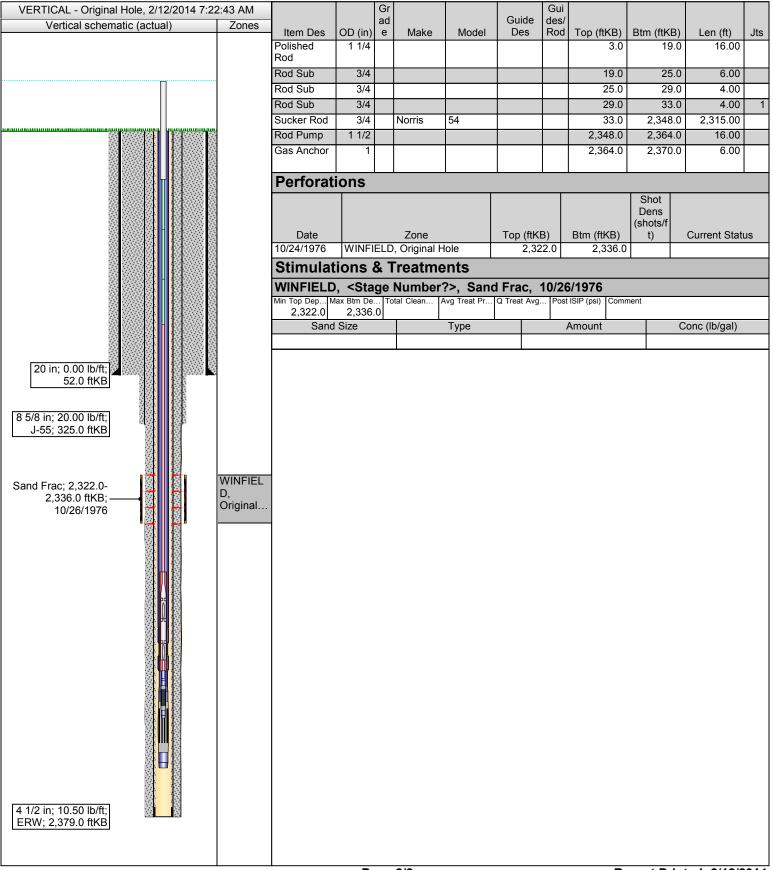
### **Current Wellbore Schematic**

WELL (PN): WOOD 3-13 (218398) FIELD OFFICE: GARDEN CITY FIELD: Bradshaw STATE / COUNTY: KANSAS / HAMILTON LOCATION: SEC 13-24S-41W, 1980 FSL & 1980 FEL ROUTE: GAR-KS-ROUTE 01A - DON LEE ELEVATION: GL: 3,233.0 KB: 3,241.0 KB Height: 8.0 DEPTHS: TD: 2,379.0

VERTICAL - Original Hole, 2/12/2014 7	22:43 AM	Pumping	Units	i										
Vertical schematic (actual)	Zones	Type Conventional (		<sub>ake</sub> Churchhill		odel M-50-84-		PM	SL	(in)	54.00	II Date 3/1/19	78	
		Conductor						inal Hol	e		04.00	0/1/10	10	
		Set Tension (kips)			ud Weight		Cut Pull Da		•	Dep	pth Cut Pull (ftK	B)		
Π					Drift			Тор						
		Item Des	OD (in)	ID (in)	(in)	Wt (lb/	ft) Grad			ftKB)	Btm (ftKB)	Ler	า (ft)	
		Casing Joints	20							8.0	52.0		44.00	
		Surface Casing; Set @ 325.0 ftKB ; Original Hole           Set Tension (kips)         Mud Weight         Cut Pull Date         Depth Cut Pull (ftKB)												
		Set Tension (kips)			uu weigini			ale		Del	pin Cui Pun (lik	5)		
					Drift			Тор					. (51)	
		Item Des Casing Joints	OD (in) 8 5/8	ID (in) 8.097	(in)	Wt (lb/1	ft) Grac 00 J-55	de Threa	ad Top (	<u>πκ</u> Β) 8.0	Btm (ftKB) 324.0		ר (ft) 16.00	
		cucing conte			0.0									
		Shoe	8 5/8						:	324.0	325.0		1.00	
		Production	Casin						Hole					
		Set Tension (kips)		M	ud Weight		Cut Pull Da	ate		Dep	pth Cut Pull (ftK	B)		
					Drift			Тор						
		Item Des	OD (in)	ID (in)	(in)	Wt (lb/			ad Top (	· · · ·	Btm (ftKB)		n (ft)	
		Casing Joints	4 1/2	4.052		10.5	50 ERW			8.0	2,378.0	2,3	70.00	
		Shoe	4 1/2						2,	378.0	2,379.0		1.0	
20 in; 0.00 lb/ft;		Description: Conductor Cement												
52.0 ftKB		8.0-52.0												
		Top of Cemer	Top of Cement (ftKB): 8.0 Top Measurement Method:						1	Vol Pumped Yield				
8 5/8 in; 20.00 lb/ft; J-55; 325.0 ftKB		Fluid	Pump Dat		Amour (sacks		Class	Den	s (lb/gal)		Pumped (bbl)	Yiel (ft³/sa		
		Description:	Surface C	Casing Ce	ement			•						
Sand Frac; 2,322.0-	WINFIEL	8.0-325.0         Top of Cement (ftKB):       8.0         Top Measurement Method:       Returns to Surface												
2,336.0 ftKB;	D,	Top of Cemer	nt (ftKB): Pump		Amour		isureme	nt Metho	d: Returi		Pumped	Yiel	Id	
10/26/1976	Original	Fluid	Dat		(sacks		Class	Den	s (lb/gal)		(bbl)	(ft³/sa		
		Lead	10/2/197			325 H								
		Description:	Productio	n Casing	Cement									
		8.0-2,380.0 Top of Cemer		0 0		Ton Moo		nt Matha	di Dotur	na ta S	urface			
		Top of Cemer	Pump Start		Amour		p Measurement		Nethou. Retuin		Pumped	Yiel	ld	
		Fluid	Dat	e	(sacks	)	Class	Den	s (lb/gal)		(bbl)	(ft³/sa		
· · · · · · · · · · · · · · · · · · ·		Lead	10/6/197	76		350 H								
		Tail				150			_					
		Tubing Stri Set Depth (ftKB)	Wellbore	bing - I		Run Date		Pull Date		ut Pull D	ate De	pth Cut I	Pull (ft	
		2,374.0	Original	Hole		10/6/2	2006	I un Date				pin our i		
		ltem D		OD (in)		Drift (in)	Wt	Crada	Top	Btm		(#)	lto	
		Item De Tubing	es	(in) 2 3/8	ID (in) 1.995	(in) 1.901	(lb/ft)	Grade J-55	(ftKB) 8.0	(ftKE 2,36		(π) 55.00	Jts 7	
		Seat Nipple		2 3/8					2,363.0	2,36		1.00		
· · · · · · · · · · · · · · · · · · ·		Mud Anchor		2 3/8					2,364.0	2,37	4.0	10.00		
		<b>Rod String</b>	: Rod	Conve	entiona	al								
		Set Depth (ftKB)		In Tubing	String - Produc		at 2,374.	.0ftKB on	10/6/2006		ll Date			
4 1/2 in; 10.50 lb/ft; ERW; 2,379.0 ftKB										I				
				- 1/2							Drintod			

### **Current Wellbore Schematic**

WELL (PN): WOOD 3-13 (218398) FIELD OFFICE: GARDEN CITY FIELD: Bradshaw STATE / COUNTY: KANSAS / HAMILTON LOCATION: SEC 13-24S-41W, 1980 FSL & 1980 FEL ROUTE: GAR-KS-ROUTE 01A - DON LEE ELEVATION: GL: 3,233.0 KB: 3,241.0 KB Height: 8.0 DEPTHS: TD: 2,379.0



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/

Shari Feist Albrecht, Chair Thomas E. Wright, Commissioner Jay Scott Emler, Commissioner Sam Brownback, Governor

March 27, 2014

Sarah Rodriguez/Doug Kathol Chesapeake Operating, Inc. 6200 N WESTERN AVE PO BOX 18496 OKLAHOMA CITY, OK 73118-1046

Re: Plugging Application API 15-075-20161-00-00 WOOD 3-13 SE/4 Sec.13-24S-41W Hamilton County, Kansas

Dear Sarah Rodriguez/Doug Kathol:

This letter is to notify you that the Conservation Division has received your plugging proposal, form CP-1, for the above well and has reviewed the proposal for completeness. The central office will now forward your CP-1 to the district office listed below for review of the proposed plugging method. Please contact the district office for approval of your proposed plugging method at least five (5) days before plugging the well, pursuant to K.A.R. 82-3-113(b). If a workover pit will be used during the plugging of the well it must be permitted. A CDP-1 form must be filed and approved prior to the use of the pit in accordance with K.A.R. 82-3-600.

The Conservation Division's review of form CP-1, either in the central or district office, does not include an inquiry into well ownership or the filing operator's legal right to plug the well. This notice in no way constitutes authorization to plug the above well by persons not having legal rights of ownership or interest in the well.

This notice is void after September 23, 2014. The CP-1 filing does not bring the above well into compliance with K.A.R 82-3-111 with regard to the Commission's temporary abandonment requirements.

Sincerely, Production Department Supervisor

cc: District 1

(620) 225-8888