



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

### WELL PLUGGING APPLICATION

Form KSONA-1, Certification of Compliance with the Kansas Surface Owner Notification Act,  
MUST be submitted with this form.

OPERATOR: License #: \_\_\_\_\_  
Name: \_\_\_\_\_  
Address 1: \_\_\_\_\_  
Address 2: \_\_\_\_\_  
City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_ + \_\_\_\_\_  
Contact Person: \_\_\_\_\_  
Phone: ( \_\_\_\_\_ ) \_\_\_\_\_

API No. 15 - \_\_\_\_\_  
If pre 1967, supply original completion date: \_\_\_\_\_  
Spot Description: \_\_\_\_\_  
\_\_\_\_ - \_\_\_\_ - \_\_\_\_ Sec. \_\_\_\_ Twp. \_\_\_\_ S. R. \_\_\_\_  East  West  
\_\_\_\_ Feet from  North /  South Line of Section  
\_\_\_\_ Feet from  East /  West Line of Section  
Footages Calculated from Nearest Outside Section Corner:  
 NE  NW  SE  SW  
County: \_\_\_\_\_  
Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Check One:  Oil Well  Gas Well  OG  D&A  Cathodic  Water Supply Well  Other: \_\_\_\_\_  
 SWD Permit #: \_\_\_\_\_  ENHR Permit #: \_\_\_\_\_  Gas Storage Permit #: \_\_\_\_\_

Conductor Casing Size: \_\_\_\_\_ Set at: \_\_\_\_\_ Cemented with: \_\_\_\_\_ Sacks  
Surface Casing Size: \_\_\_\_\_ Set at: \_\_\_\_\_ Cemented with: \_\_\_\_\_ Sacks  
Production Casing Size: \_\_\_\_\_ Set at: \_\_\_\_\_ Cemented with: \_\_\_\_\_ Sacks

List (ALL) Perforations and Bridge Plug Sets:

Elevation: \_\_\_\_\_ (  G.L. /  K.B. ) T.D.: \_\_\_\_\_ PBTD: \_\_\_\_\_ Anhydrite Depth: \_\_\_\_\_  
(Stone Corral Formation)

Condition of Well:  Good  Poor  Junk in Hole  Casing Leak at: \_\_\_\_\_  
(Interval)

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?  Yes  No

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: ( \_\_\_\_\_ ) \_\_\_\_\_  
Plugging Contractor License #: \_\_\_\_\_ Name: \_\_\_\_\_  
Address 1: \_\_\_\_\_ Address 2: \_\_\_\_\_  
City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_ + \_\_\_\_\_  
Phone: ( \_\_\_\_\_ ) \_\_\_\_\_

Proposed Date of Plugging (if known): \_\_\_\_\_

Payment of the Plugging Fee (K.A.R. 82-3-118) will be guaranteed by Operator or Agent

Submitted Electronically



### 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 # \_\_\_\_\_  
Name: \_\_\_\_\_  
Address 1: \_\_\_\_\_  
Address 2: \_\_\_\_\_  
City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_ + \_\_\_\_\_  
Contact Person: \_\_\_\_\_  
Phone: ( \_\_\_\_\_ ) \_\_\_\_\_ Fax: ( \_\_\_\_\_ ) \_\_\_\_\_  
Email Address: \_\_\_\_\_

Well Location:  
\_\_\_\_ - \_\_\_\_ - \_\_\_\_ - \_\_\_\_ Sec. \_\_\_\_ Twp. \_\_\_\_ S. R. \_\_\_\_  East  West  
County: \_\_\_\_\_  
Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

*If filing a Form T-1 for multiple wells on a lease, enter the legal description of the lease below:*

**Surface Owner Information:**

Name: \_\_\_\_\_  
Address 1: \_\_\_\_\_  
Address 2: \_\_\_\_\_  
City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_ + \_\_\_\_\_

*When filing a Form T-1 involving multiple surface owners, attach an additional 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 county, and in the real estate property tax records of the county treasurer.*

*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.*

I Submitted Electronically

I



**Chesapeake Operating, Inc.**  
**Interoffice Memorandum**

**TO: Jay Stratton**

**CC: Walter Kennedy, Chris McKone, David Lynch and Bud Neff**

**FROM: Doug Kathol, Sara Everett**

**DATE: February 11, 2014**

**RE: Plug and Abandon**

**SEEDLE BRANCH 2-20  
SECTION 20-T23S-R31W  
FINNEY COUNTY, KS**

**Property Number: 212018**

**Chesapeake Energy**

**GW: 83.5% NRI: 66.762%**

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**Recommendation:**

This well was producing approximately 25 MCF and 5 BW per day when it was shut in November of 2013. This well was drilled in 2001 to a total depth of 2,800 feet and completed in the Krider formation. Cumulative production has been 175 MMCF of natural gas.

**Discussion:**

SEEDLE BRANCH 2-20  
 Plug & Abandon  
 KRIDER  
 VERTICAL  
 2/11/2014

Geologist :	Walter Kennedy
Reservoir Engineer:	Chris McKone
Production Engineer :	Doug Kathol
Landman :	David Lynch
Production Sup.:	Bud Neff

**WELL DATA:**

**Lease:** SEEDLE BRANCH 2-20      **WI:** 0.835000      **NRI:** 0.667620

**S-T-R:** 20-T23S-R31W      **County, St:** FINNEY, KS

**Location:** NW SE SW - 1250 FSL & 1650 FWL OF SECTION

**AFE #:** 803074      **API #:** 1505521710      **Prop. #:** 212018      **IP:** 92 MCF

**PBTD:** 2,800'      **TD:** 2,800'      **Spudded:** 2/6/2001

**Type:** VERTICAL      **Elevations**      **GL:** 2,915'      **KB:** 2,925'      **KB-GL:** 10'

**Casing:**

SIZE	WEIGHT	GRADE	TYPE	CEMENT	TOC	SET DEPTH	
						TOP	BTM
8 5/8	24.00#	J-55	Surface Casing	225	10'	10'	342'
4 1/2	10.50#	J-55	Production Casing	700	10'	10'	2,800'

**Production Casing and Tubing Data:**

SIZE	WEIGHT	GRADE	ID	DRIFT	Bbl/Ft.	Gallons/Ft.	Burst	Collapse	Jnt St
4 1/2	10.50#	J-55	4.0520"	3.9270"	0.0159	0.66990	4,790	4,010	165
2 3/8	4.70#	J-55	1.9950"	1.9010"	0.00365	0.16240	7,700	8,100	71,730

**Well Driving Directions:**

Hwy 156 E to 16 mile Rd, 1/4 N, E into.

Perf'd Formations	Depth Range
Treatable Water	1200
Stone Corral	1981
KRIDER	2662' - 2679'

**Stimulation Details**

24 bbls acid 7.5% NE-Fe, 30# linear pad; 6000# 12/20 sand

**NOTES:** The Seedle Branch 2-20 needs to be plugged by 3/8/14 or we will receive a NOV from the 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 perms. 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.

### **NOTE :**

If 4½" casing cannot be cut off below surface casing shoe, the 4 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.



2/11/2014

**Chesapeake Operating, Inc.**  
**Estimated Plugging & Salvage Values**  
Shallow Well (<3000' TD Apprx.)

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<b>Well Name:</b> Seedle Branch 2-20	<b>Property #</b> 212018	<b>GWI:</b> 83.5
<b>Location:</b> SEC 20-T23S-R31W	<b>API #</b> 15-055-21710	<b>NRI:</b> 66.762
<b>County, State:</b> Finney Co., KS	<b>AFE #</b> 803074	

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**Estimated Equipment Salvage Values- Condition "C" Assumed**

<u>Equipment Description</u>	<u>Salvage Value</u>	<u>Cost</u>
Tubing - 84 jts 2 3/8 2739'	\$1,424.00	\$1,424.00
Rods - 5/8" 2700'	\$648.00	\$648.00
Pump Jack - Bethlehem	\$1,816.00	\$1,816.00
Engine - 7.5 hp	\$605.00	\$605.00
	<b>Gross Salvage Total:</b>	<b>\$4,493.00</b>
	<b>COI Net Salvage Total:</b>	<b>\$3,751.66</b>

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**Estimated Plugging Expenses**

<u>Description</u>	<u>Cost</u>
Cased Hole Services / Perforating	\$2,000.00
Completion Unit	\$5,500.00
Contract Labor	\$3,000.00
Cementing/Squeeze	\$500.00
Contingency	\$2,000.00
Plug to Abandon	\$4,000.00
Supervision	\$2,000.00
Transportation	\$1,000.00
Reclamation	\$3,000.00
	<b>Gross Plugging Expense:</b> <b>\$23,000.00</b>
	<b>COI Net Plugging Expense:</b> <b>\$19,205.00</b>

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<b>Gross Total Estimated Plugging Expense:</b>	<b>\$18,507.00</b>
<b>COI Net Total Estimated Plugging Expense:</b>	<b>\$15,453.35</b>

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# Current Wellbore Schematic

**WELL (PN):** SEEDLE BRANCH 2-20 (212018)  
**FIELD OFFICE:** GARDEN CITY  
**FIELD:** Bradshaw  
**STATE / COUNTY:** KANSAS / FINNEY  
**LOCATION:** SEC 20-23S-31W, 1250 FSL & 1650 FWL  
**ROUTE:** GAR-KS-ROUTE 04 - DAVID ROWLAND  
**ELEVATION:** GL: 2,915.0 KB: 2,925.0 KB Height: 10.0  
**DEPTHS:** TD: 2,800.0

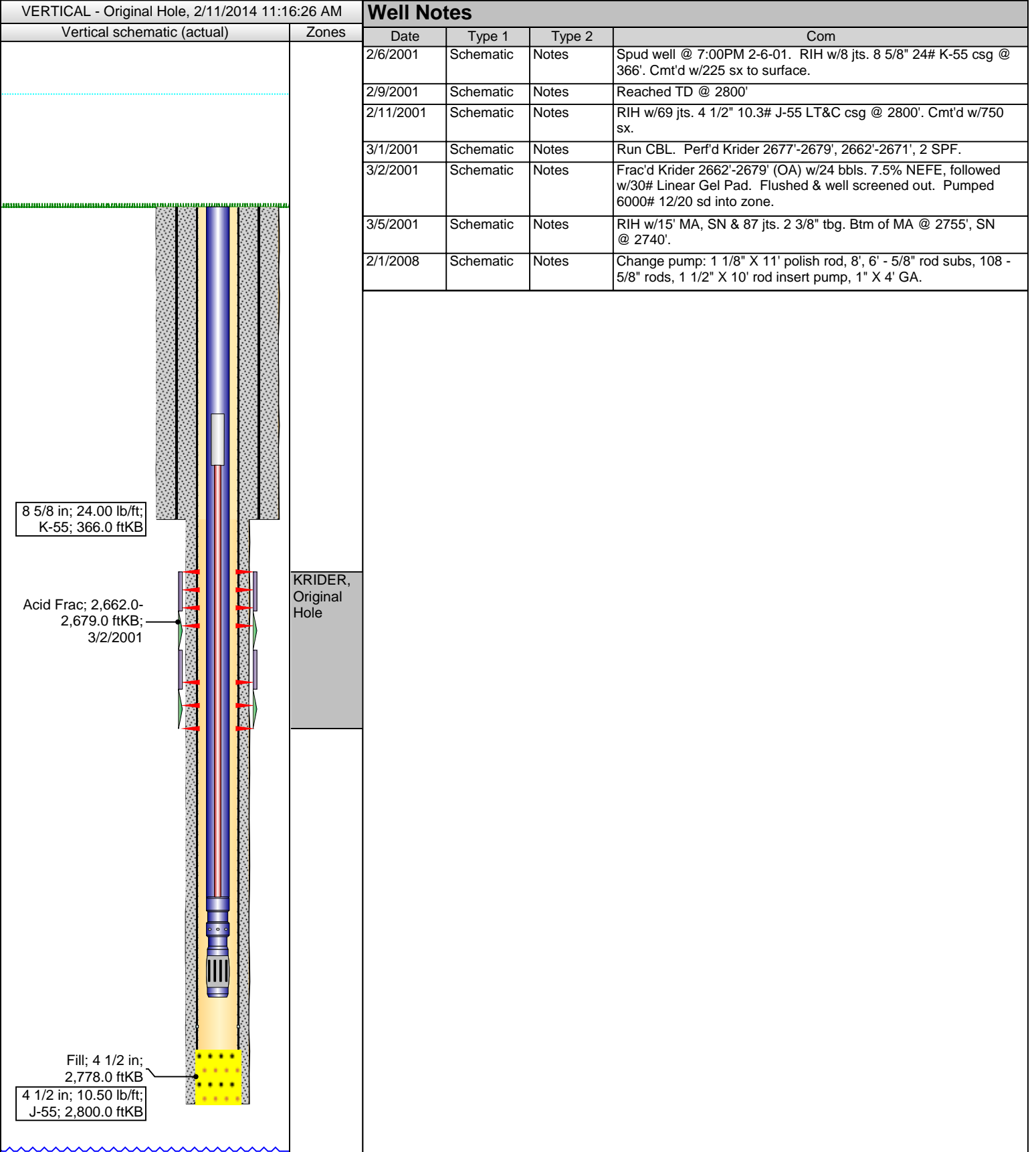
**API #: 1505521710**  
**Serial #:**  
**SPUD DATE:** 2/6/2001  
**RIG RELEASE:** 2/11/2001  
**1ST SALES GAS:** 5/3/2001  
**1ST SALES OIL:**  
**Current Status:** SHUTIN

VERTICAL - Original Hole, 2/11/2014 11:16:26 AM		Pumping Units									
Vertical schematic (actual)	Zones	Type	Make	Model	SPM	SL (in)	Install Date				
		Conventional Crank	Churchill	8M 40-76-48		48.00	5/3/2001				
	<b>Surface Casing; Set @ 366.0 ftKB ; Original Hole</b>										
	Set Tension (kips)		Mud Weight		Cut Pull Date		Depth Cut Pull (ftKB)				
	Item Des	OD (in)	ID (in)	Drift (in)	Wt (lb/ft)	Grade	Top Thread	Top (ftKB)	Btm (ftKB)	Len (ft)	
	Casing Joints	8 5/8	8.097		24.00	K-55		10.0	365.0	355.00	
	Float Shoe	8 5/8						365.0	366.0	1.00	
	<b>Production Casing; Set @ 2,800.0 ftKB ; Original Hole</b>										
	Set Tension (kips)		Mud Weight		Cut Pull Date		Depth Cut Pull (ftKB)				
	Item Des	OD (in)	ID (in)	Drift (in)	Wt (lb/ft)	Grade	Top Thread	Top (ftKB)	Btm (ftKB)	Len (ft)	
	Casing Joints	4 1/2	4.052		10.50	J-55		10.0	2,767.0	2,757.00	
	Float Collar	4 1/2						2,767.0	2,768.0	1.00	
	Casing Joints	4 1/2	4.052		10.50	J-55		2,768.0	2,799.0	31.00	
	Float Shoe	4 1/2						2,799.0	2,800.0	1.00	
	<b>Description:</b> Surface Casing Cement <b>10.0-366.0</b> <b>Top of Cement (ftKB):</b> 10.0 <b>Top Measurement Method:</b> Returns to Surface										
	Fluid	Pump Start Date	Amount (sacks)	Class	Dens (lb/gal)	Vol Pumped (bbl)	Yield (ft <sup>3</sup> /sack)				
Lead	2/6/2001	225									
<b>Description:</b> Production Casing Cement <b>10.0-2,800.0</b> <b>Top of Cement (ftKB):</b> 10.0 <b>Top Measurement Method:</b> Estimated											
Fluid	Pump Start Date	Amount (sacks)	Class	Dens (lb/gal)	Vol Pumped (bbl)	Yield (ft <sup>3</sup> /sack)					
Lead	2/11/2001	550	Light								
Tail		150	C								
<b>Tubing String: Tubing - Production</b>											
Set Depth (ftKB)	Wellbore	Run Date	Pull Date	Cut Pull Date	Depth Cut Pull (ft...)						
2,755.0	Original Hole	6/18/2012		6/18/2012							
Item Des	OD (in)	ID (in)	Drift (in)	Wt (lb/ft)	Grade	Top (ftKB)	Btm (ftKB)	Len (ft)	Jts		
Tubing	2 3/8	1.995	1.901	4.70	J-55	10.0	2,739.0	2,729.00	84		
Seat Nipple	2 3/8					2,739.0	2,740.0	1.00	1		
Mud Anchor	2 3/8					2,740.0	2,755.0	15.00	1		
<b>Perforations</b>											
Date	Zone	Top (ftKB)	Btm (ftKB)	Shot Dens (shots/ft)	Current Status						
3/1/2001	KRIDER, Original Hole	2,662.0	2,671.0								
3/1/2001	KRIDER, Original Hole	2,677.0	2,679.0								
<b>Stimulations &amp; Treatments</b>											
<b>&lt;Zone/Formation?&gt;, &lt;Stage Number?&gt;, Acid Frac, 3/2/2001</b>											
Min Top Dep...	Max Btm De...	Total Clean...	Avg Treat Pr...	Q Treat Avg...	Post ISIP (psi)	Comment					
2,662.0	2,679.0	24.00									
Sand Size		Type	Amount		Conc (lb/gal)						
12/20		Northern White Sand	25,000.0		4.00						

# Current Wellbore Schematic

**WELL (PN):** SEEDLE BRANCH 2-20 (212018)  
**FIELD OFFICE:** GARDEN CITY  
**FIELD:** Bradshaw  
**STATE / COUNTY:** KANSAS / FINNEY  
**LOCATION:** SEC 20-23S-31W, 1250 FSL & 1650 FWL  
**ROUTE:** GAR-KS-ROUTE 04 - DAVID ROWLAND  
**ELEVATION:** GL: 2,915.0 KB: 2,925.0 KB Height: 10.0  
**DEPTHS:** TD: 2,800.0

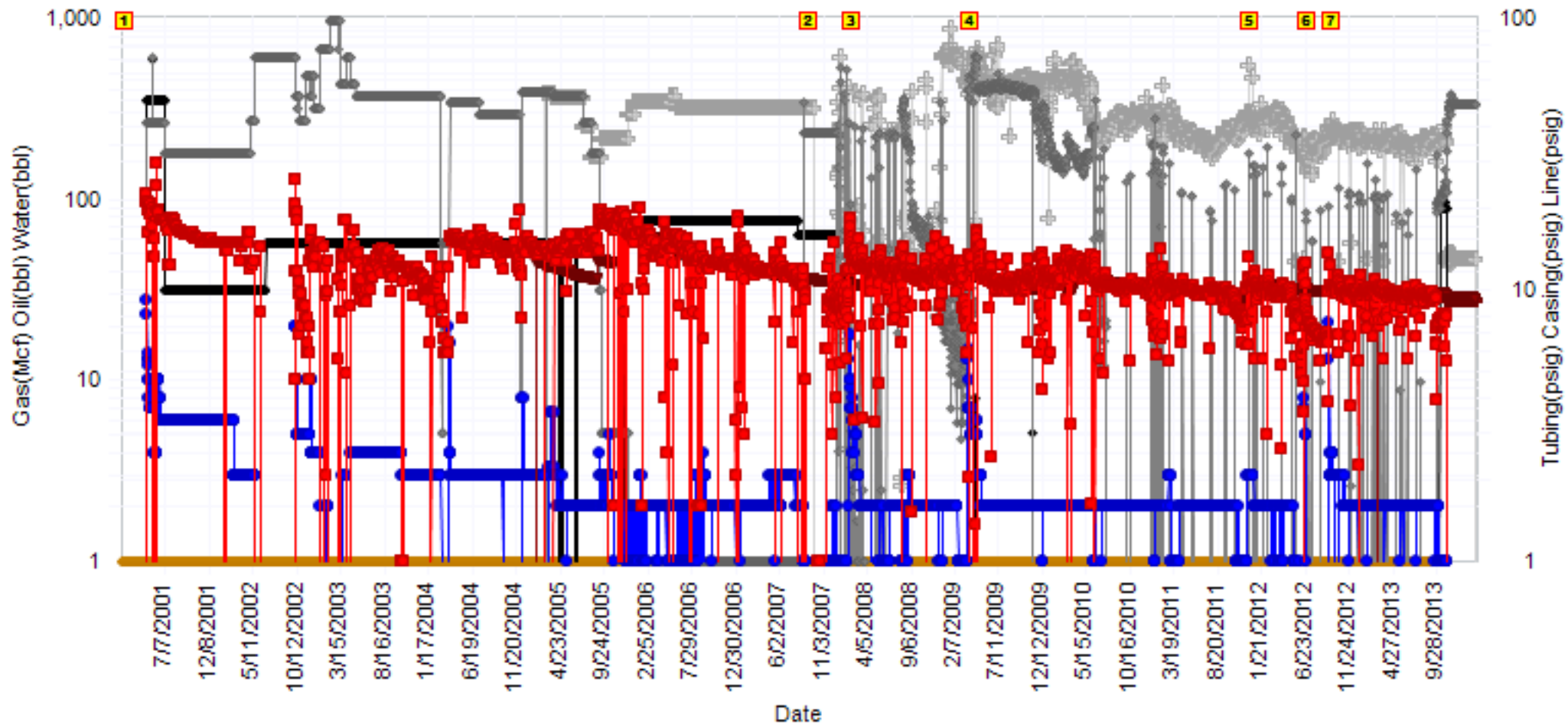
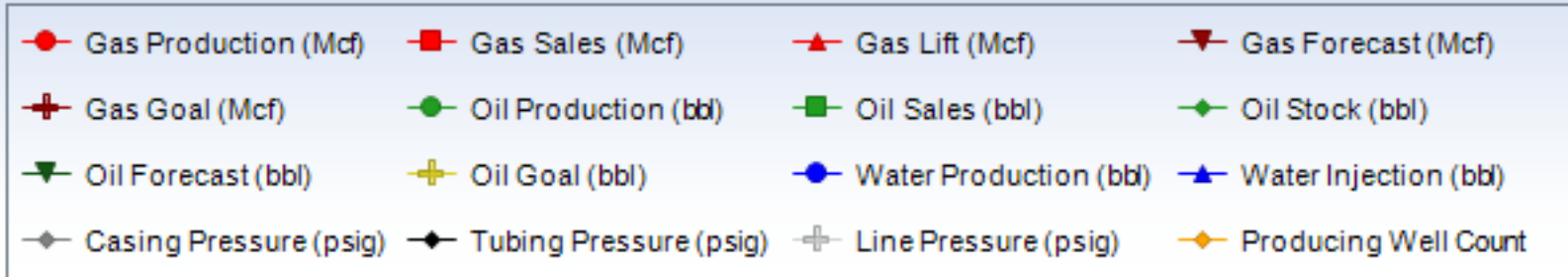
**API #:** 1505521710  
**Serial #:**  
**SPUD DATE:** 2/6/2001  
**RIG RELEASE:** 2/11/2001  
**1ST SALES GAS:** 5/3/2001  
**1ST SALES OIL:**  
**Current Status:** SHUTIN





Zone: SEEDLE BRANCH 2-20 (KRIDER)  
 in Route: GAR-KS-Route 04 - David Rowland  
 Production Engineer: Doug Kathol  
 Production Foreman: Dennis Frick

Date Range Cum Gas Prod (Mcf): 175,502  
 Date Range Cum Oil Prod (bbl): 0  
 Date Range Cum Water Prod (bbl): 10,934  
 Production Setting: Rod Pump - PU-WH CMP





## Chesapeake Energy Corporation

CST Production Monitor Export

SEEDLE BRANCH 2-20 (KRIDER)

1/1/1900 - 2/9/2014 | Gross Volumes | Operated Wells | 14.65 Pressure Base

Marker #	Date	Annotation	Created By	Created Date
1	2/6/2001	Drilling/Drilling/Original Drilling	WellviewJobInfo	8/21/2010
2	9/1/2007	ONEOK - Shut-in	Doug Howeth	10/22/2008
3	2/1/2008	Workover/Failure/Tubing Repair	WellviewJobInfo	4/8/2009
4	3/24/2009	Workover/Failure/Tubing Repair	WellviewJobInfo	4/8/2009
5	11/30/2011	Workover/Failure/Pump Repair	WellviewJobInfo	11/30/2011
6	6/15/2012	Workover/Failure/Pump Repair	WellviewJobInfo	6/15/2012
7	9/12/2012	Workover/Failure/Pump Repair	WellviewJobInfo	9/12/2012



## 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
SEEDLE BRANCH 2-20	212018	\$1.42	\$92.29	\$0.00	2,491	9,937	8,976	26,486	\$2.95	190	0	6,597	1,286	1,142	0	4,189	0	13,082	660	17,209	1,322	18,531
<b>Totals</b>		<b>\$1.42</b>	<b>\$92.29</b>	<b>\$0.00</b>	<b>2,491</b>	<b>9,937</b>	<b>8,976</b>	<b>26,486</b>	<b>\$2.95</b>	<b>190</b>	<b>0</b>	<b>6,597</b>	<b>1,286</b>	<b>1,142</b>	<b>0</b>	<b>4,189</b>	<b>0</b>	<b>13,082</b>	<b>660</b>	<b>17,209</b>	<b>1,322</b>	<b>18,531</b>

## Chesapeake Energy Corporation

CST Operations 8/8ths LOS Report

SEEDLE BRANCH 2-20

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
SEEDLE BRANCH 2-20	212018	\$1.42	\$92.29	\$0.00	2,491	9,937	8,976	26,486	\$2.95	190	0	6,597	1,286	1,142	0	4,189	0	13,082	660	17,209	1,322	18,531

Line Item	12/2012	01/2013	02/2013	03/2013	04/2013	05/2013	06/2013	07/2013	08/2013	09/2013	10/2013	11/2013	Total
Gas Revenue Volume	850	749	799	881	852	847	826	847	891	768	666	0	8,976
Gas Sales	850	749	799	881	852	847	826	847	891	768	666	0	8,976
Gas Value	\$1,275	\$1,056	\$1,139	\$1,235	\$1,362	\$1,371	\$783	\$1,108	\$1,248	\$1,036	\$817	\$0	\$12,429
Gas Price	\$1.50	\$1.41	\$1.43	\$1.40	\$1.60	\$1.62	\$0.95	\$1.31	\$1.40	\$1.35	\$1.23	\$1.80	\$1.42
Oil Revenue Volume	0	0	0	0	0	0	0	0	0	0	0	0	0
Oil Sales	0	0	0	0	0	0	0	0	0	0	0	0	0
Oil Value	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Oil Price	\$83.07	\$89.66	\$91.26	\$90.15	\$86.68	\$89.63	\$90.63	\$99.80	\$101.37	\$101.06	\$95.38	\$88.82	\$92.29
Royalty Burden	256	212	228	248	273	275	157	222	250	208	164	0	2,491
Royalty Percent	0.20046032	0.20046032	0.20046032	0.20046032	0.20046032	0.20046032	0.20046032	0.20046032	0.20046032	0.20046032	0.20046032	0.20046032	0.20046032
Revenue	1,019	844	911	987	1,089	1,096	626	886	998	828	653	0	9,937
MCFE	850	749	799	881	852	847	826	847	891	768	666	0	8,976
LOE Total	1,774	2,151	1,869	2,523	1,881	3,189	3,699	2,033	2,032	3,446	1,510	379	26,486
LOE Per MCFE	\$2.09	\$2.87	\$2.34	\$2.86	\$2.21	\$3.77	\$4.48	\$2.40	\$2.28	\$4.49	\$2.27	\$0.00	\$2.95
Ad Valorem Tax	190	0	0	0	0	0	0	0	0	0	0	0	190
Audit Charges	0	0	0	0	0	0	0	0	0	0	0	0	0
Company Labor	172	170	174	603	179	646	661	192	197	699	204	379	4,276
Compression	0	0	0	0	0	0	0	0	0	0	0	0	0
Contract Serv/Equip Rental	0	0	0	0	0	0	0	0	0	0	0	0	0
Field Facilities	23	53	37	32	41	40	40	35	35	38	42	0	416
Fuel Water Lube	0	0	0	0	0	0	0	0	0	0	0	0	0
Gas Processing	0	0	0	0	0	0	0	0	0	0	0	0	0
Insurance	0	0	0	0	0	0	0	0	0	314	0	0	314
Oil Processing	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Expenses	4	2	4	4	15	4	15	1	1	1	1	0	52
Overhead	573	573	573	573	615	615	615	615	615	615	615	0	6,597
Pumping Service	439	491	434	601	499	473	513	512	666	513	499	0	5,640
Regulatory	5	0	0	0	0	0	0	0	0	0	0	0	5
Rents And Fees	0	0	0	0	0	0	0	0	0	0	0	0	0
Repairs & Maintenance	0	0	68	0	0	819	399	0	0	0	0	0	1,286
Salt Water Disposal	215	16	14	16	15	16	179	16	16	631	8	0	1,142
Salt Water Processing	0	0	0	0	0	0	0	0	0	0	0	0	0
Subsurface Repairs	0	0	0	0	0	0	0	0	0	0	0	0	0
Supplies	22	3	188	93	48	28	718	24	76	102	52	0	1,354
Telemetry	131	0	0	72	0	0	144	69	0	63	38	0	517
Transportation	0	0	0	0	0	0	0	0	0	0	0	0	0
Treating Expenses	0	0	0	127	0	127	0	127	0	127	0	0	508
Utilities	0	843	377	402	469	421	415	442	426	343	51	0	4,189
Workover	0	0	0	0	0	0	0	0	0	0	0	0	0
Gas Severance Tax	67	56	60	65	71	71	45	59	66	55	44	0	660
Oil Severance Tax	0	0	0	0	0	0	0	0	0	0	0	0	0
Severance Tax	67	56	60	65	71	71	45	59	66	55	44	0	660
IDC Monthly	0	0	0	0	0	0	0	0	0	0	0	0	0
WEQ Monthly	0	4	0	0	0	0	0	0	0	0	0	1,318	1,322
NRI	0.66761563	0.66761563	0.66761563	0.66761563	0.66761563	0.66761563	0.66761563	0.66761563	0.66761563	0.66761563	0.66761563	0.66761563	0.66761563
GWl	0.83500000	0.83500000	0.83500000	0.83500000	0.83500000	0.83500000	0.83500000	0.83500000	0.83500000	0.83500000	0.83500000	0.83500000	0.83500000
Operating Cash Flow	(821)	(1,363)	(1,019)	(1,601)	(863)	(2,164)	(3,118)	(1,207)	(1,100)	(2,673)	(901)	(379)	(17,209)
Capital	0	4	0	0	0	0	0	0	0	0	0	1,318	1,322
Net Cash Flow	(821)	(1,367)	(1,019)	(1,601)	(863)	(2,164)	(3,118)	(1,207)	(1,100)	(2,673)	(901)	(1,697)	(18,531)

## Chesapeake Energy Corporation

## CST Operations 8/8ths LOS Report

Totals

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
<b>Totals</b>		<b>\$1.42</b>	<b>\$92.29</b>	<b>\$0.00</b>	<b>2,491</b>	<b>9,937</b>	<b>8,976</b>	<b>26,486</b>	<b>\$2.95</b>	<b>190</b>	<b>0</b>	<b>6,597</b>	<b>1,286</b>	<b>1,142</b>	<b>0</b>	<b>4,189</b>	<b>0</b>	<b>13,082</b>	<b>660</b>	<b>17,209</b>	<b>1,322</b>	<b>18,531</b>
Line Item	12/2012	01/2013	02/2013	03/2013	04/2013	05/2013	06/2013	07/2013	08/2013	09/2013	10/2013	11/2013	Total									
Gas Revenue Volume	850	749	799	881	852	847	826	847	891	768	666	0	8,976									
Gas Sales	850	749	799	881	852	847	826	847	891	768	666	0	8,976									
Gas Value	\$1,275	\$1,056	\$1,139	\$1,235	\$1,362	\$1,371	\$783	\$1,108	\$1,248	\$1,036	\$817	\$0	\$12,429									
Gas Price	\$1.50	\$1.41	\$1.43	\$1.40	\$1.60	\$1.62	\$0.95	\$1.31	\$1.40	\$1.35	\$1.23	\$1.80	\$1.42									
Oil Revenue Volume	0	0	0	0	0	0	0	0	0	0	0	0	0									
Oil Sales	0	0	0	0	0	0	0	0	0	0	0	0	0									
Oil Value	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0									
Oil Price	\$83.07	\$89.66	\$91.26	\$90.15	\$86.68	\$89.63	\$90.63	\$99.80	\$101.37	\$101.06	\$95.38	\$88.82	\$92.29									
Royalty Burden	256	212	228	248	273	275	157	222	250	208	164	0	2,491									
Royalty Percent	0.20046032	0.20046032	0.20046032	0.20046032	0.20046032	0.20046032	0.20046032	0.20046032	0.20046032	0.20046032	0.20046032	0.20046032	0.20046032									
Revenue	1,019	844	911	987	1,089	1,096	626	886	998	828	653	0	9,937									
MCFE	850	749	799	881	852	847	826	847	891	768	666	0	8,976									
LOE Total	1,774	2,151	1,869	2,523	1,881	3,189	3,699	2,033	2,032	3,446	1,510	379	26,486									
LOE Per MCFE	\$2.09	\$2.87	\$2.34	\$2.86	\$2.21	\$3.77	\$4.48	\$2.40	\$2.28	\$4.49	\$2.27	\$0.00	\$2.95									
Ad Valorem Tax	190	0	0	0	0	0	0	0	0	0	0	0	190									
Audit Charges	0	0	0	0	0	0	0	0	0	0	0	0	0									
Company Labor	172	170	174	603	179	646	661	192	197	699	204	379	4,276									
Compression	0	0	0	0	0	0	0	0	0	0	0	0	0									
Contract Serv/Equip Rental	0	0	0	0	0	0	0	0	0	0	0	0	0									
Field Facilities	23	53	37	32	41	40	40	35	35	38	42	0	416									
Fuel Water Lube	0	0	0	0	0	0	0	0	0	0	0	0	0									
Gas Processing	0	0	0	0	0	0	0	0	0	0	0	0	0									
Insurance	0	0	0	0	0	0	0	0	0	314	0	0	314									
Oil Processing	0	0	0	0	0	0	0	0	0	0	0	0	0									
Other Expenses	4	2	4	4	15	4	15	1	1	1	1	0	52									
Overhead	573	573	573	573	615	615	615	615	615	615	615	0	6,597									
Pumping Service	439	491	434	601	499	473	513	512	666	513	499	0	5,640									
Regulatory	5	0	0	0	0	0	0	0	0	0	0	0	5									
Rents And Fees	0	0	0	0	0	0	0	0	0	0	0	0	0									
Repairs & Maintenance	0	0	68	0	0	819	399	0	0	0	0	0	1,286									
Salt Water Disposal	215	16	14	16	15	16	179	16	16	631	8	0	1,142									
Salt Water Processing	0	0	0	0	0	0	0	0	0	0	0	0	0									
Subsurface Repairs	0	0	0	0	0	0	0	0	0	0	0	0	0									
Supplies	22	3	188	93	48	28	718	24	76	102	52	0	1,354									
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Utilities	0	843	377	402	469	421	415	442	426	343	51	0	4,189									
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Gas Severance Tax	67	56	60	65	71	71	45	59	66	55	44	0	660									
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Severance Tax	67	56	60	65	71	71	45	59	66	55	44	0	660									
IDC Monthly	0	0	0	0	0	0	0	0	0	0	0	0	0									
WEQ Monthly	0	4	0	0	0	0	0	0	0	0	0	1,318	1,322									
NRI	0.66761563	0.66761563	0.66761563	0.66761563	0.66761563	0.66761563	0.66761563	0.66761563	0.66761563	0.66761563	0.66761563	0.66761563	0.66761563									
GW	0.83500000	0.83500000	0.83500000	0.83500000	0.83500000	0.83500000	0.83500000	0.83500000	0.83500000	0.83500000	0.83500000	0.83500000	0.83500000									
Operating Cash Flow	(821)	(1,363)	(1,019)	(1,601)	(863)	(2,164)	(3,118)	(1,207)	(1,100)	(2,673)	(901)	(379)	(17,209)									
Capital	0	4	0	0	0	0	0	0	0	0	0	1,318	1,322									
Net Cash Flow	(821)	(1,367)	(1,019)	(1,601)	(863)	(2,164)	(3,118)	(1,207)	(1,100)	(2,673)	(901)	(1,697)	(18,531)									

Conservation Division  
266 N. Main St., Ste. 220  
Wichita, KS 67202-1513



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

Shari Feist Albrecht, Chair  
Jay Scott Emler, Commissioner  
Pat Apple, Commissioner

Sam Brownback, Governor

November 13, 2014

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

Re: Plugging Application  
API 15-055-21710-00-00  
SEEDLE BRANCH 2-20  
SW/4 Sec.20-23S-31W  
Finney County, Kansas

Dear /Doug Kathol:

The Conservation Division has received your Well Plugging Application (CP-1).

**Under K.A.R. 82-3-113(b)(2), you must notify DISTRICT 1 of your proposed plugging plan at least 5 days before plugging the well.** DISTRICT 1's phone number is (620) 225-8888. Failure to notify DISTRICT 1, or failure to file a Well Plugging Record (CP-4) after the well is plugged will result in a penalty recommendation.

**Under K.A.R. 82-3-600, you must file an Application for Surface Pit (CDP-1) if you wish to use a workover pit while plugging the well.** Failure to timely file a CDP-1, failure to timely remove fluids, or failure to timely file Closure of Surface Pit (CDP-4) or Waste Transfer (CDP-5) forms will result in a penalty recommendation.

This receipt does NOT constitute authorization to plug this well if you do not otherwise have the legal right to do so.

This receipt is VOID after May 13, 2015. If the well is not plugged by then, you will have to submit a new CP-1 if you wish to plug the well.

**The May 13, 2015 deadline does NOT override any compliance deadline given to you by Legal, District, or other Commission Staff.** Failure to comply with any given deadline will still result in the Commission assessing penalties, or taking other legal action.

Sincerely,  
Production Department Supervisor

cc: DISTRICT 1