



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



## Chesapeake Operating, Inc. Interoffice Memorandum

**TO:** Jay Stratton

**CC:** Walter Kennedy, John Hudson, David Lynch and Bud Neff

**FROM:** Doug Kathol, Sara Everett

**DATE:** March 3, 2014

**RE:** Plug and Abandon

DOERR 1-23

SECTION 23-T21S-R40W

HAMILTON COUNTY, KS

Property Number: 218332

Chesapeake Energy

GW: 100% NRI: 83.5%

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**Recommendation:**

This well was producing 20 MCF and 70 BW per day when it was shut in in May of 2013 with a gas price of less than \$1.50/mcf. The well was drilled in 1975 and completed in the winfield formation with first sales in 1977. The EUR on this well was 832 MMCF.

**Discussion:**

DOERR 1-23  
Plug & Abandon  
WINFIELD  
VERTICAL  
3/3/2014

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

**WELL DATA:**

**Lease:** DOERR 1-23                                   **WI:** 1.000000   **NRI:** 0.835000

**S-T-R:** 23-T21S-R40W                           **County, St:** HAMILTON, KS

**Location:** C SE NW - 3300 FSL & 3300 FEL OF SECTION

**AFE #:** 803115   **API #:** 1507520119           **Prop. #:** 218332                               **IP:** 25 MCF

**PBTD:** 2,814'                   **TD:** 2,825'                                   **Spudded:** 11/15/1975

**Type:** VERTICAL                   **Elevations**   **GL:** 3,527'                               **KB:** 3,537'                   **KB-GL:** 10'

**Casing and Tubing:**

SIZE	WEIGHT	GRADE	TYPE	CEMENT	TOC	SET DEPTH	
						TOP	BTM
8 5/8	24.00#	J-55	Surface Casing	250	10'	10'	307'
4 1/2	9.50#	J-55	Production Casing	500	625'	10'	2,817'
2 3/8	4.70#	J-55	Tubing			10'	2,794'

**Production Casing and Tubing Data:**

SIZE	WEIGHT	GRADE	ID	DRIFT	Bbl/Ft.	Gallons/Ft.	Burst	Collapse	Jnt St
4 1/2	9.50#	J-55	4.0900"	3.9650"	0.0612	0.68250	152	3,310	101
2 3/8	4.70#	J-55	1.9950"	1.9010"	0.00365	0.16240	7,700	8,100	71,730

**Well Driving Directions:**

17M.N ON HWY 27, 4E, 1.5S, E INTO

**Perf'd Formations**

**Depth Range**

Treatable Water           1150'  
Stone Corral           2200' - 2300'  
WINFIELD           2764' - 2774'

**Stimulation Details**

13,000# 10/20 sand + 13,350 gal 2% KCl

**NOTES:** 8/16/76 - ran CBL from 2800 - 2200. Poor bonding across perf interval and across anhydride (2200 - 2300), but very good across rest.

Doerr 1-23  
P&A  
March 3, 2014

## **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.

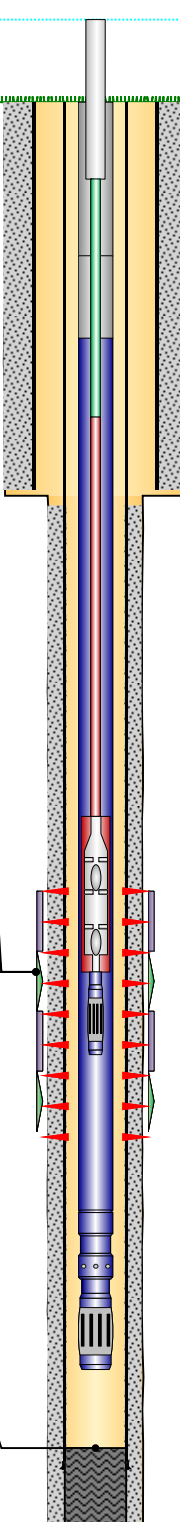
### **NOTE :**

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.

# Current Wellbore Schematic

**WELL (PN):** DOERR 1-23 (218332)  
**FIELD OFFICE:** GARDEN CITY  
**FIELD:** Bradshaw  
**STATE / COUNTY:** KANSAS / HAMILTON  
**LOCATION:** SEC 23-21S-40W, 3300 FSL & 3300 FEL  
**ROUTE:** GAR-KS-ROUTE 01C - CRAE BARR  
**ELEVATION:** GL: 3,527.0 KB: 3,537.0 KB Height: 10.0  
**DEPTHS:** TD: 2,825.0

**API #:** 1507520119  
**Serial #:**  
**SPUD DATE:** 11/15/1975  
**RIG RELEASE:** 11/15/1975  
**1ST SALES GAS:** 7/1/1977  
**1ST SALES OIL:**  
**Current Status:** T/A

VERTICAL - Original Hole, 3/3/2014 3:00:59 PM		Pumping Units									
<div style="text-align: center;">Vertical schematic (actual)</div>  <div style="position: absolute; top: 420px; left: 40px; border: 1px solid black; padding: 2px;">                     8 5/8 in; 24.00 lb/ft; J-55; 307.0 ftKB                 </div> <div style="position: absolute; top: 570px; left: 40px;">                     Acid Frac; 2,764.0- 2,774.0 ftKB; 2/9/1976                      Acid Frac; 2,764.0- 2,774.0 ftKB; 8/18/1976                      Acidizing; 2,764.0- 2,774.0 ftKB; 2/14/1976                 </div> <div style="position: absolute; top: 860px; left: 40px; border: 1px solid black; padding: 2px;">                     Plug Back Total Depth; 2,814.0 ftKB                      4 1/2 in; 9.50 lb/ft; J- -55; 2,817.0 ftKB                 </div>	Zones	Type	Make	Model	SPM	SL (in)	Install Date				
	Conventional Crank	Churchhill	9M508454			54.00	7/1/1977				
	<b>Surface Casing; Set @ 307.0 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	J-55		10.0	306.0	296.00	
	Float Shoe	8 5/8	8.097					306.0	307.0	1.00	
	<b>Production Casing; Set @ 2,817.0 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	4.090		9.50	J-55		10.0	2,816.0	2,806.00		
Float Shoe	4 1/2	4.090					2,816.0	2,817.0	1.00		
<b>Description: Surface Casing Cement</b>											
<b>10.0-307.0</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	1/15/1975	250	H								
<b>Description: Production Casing Cement</b>											
<b>625.0-2,825.0</b>											
<b>Top of Cement (ftKB):</b> 625.0					<b>Top Measurement Method:</b> Volume Calculations						
Fluid	Pump Start Date	Amount (sacks)	Class	Dens (lb/gal)	Vol Pumped (bbl)	Yield (ft <sup>3</sup> /sack)					
Lead	1/15/1975	350	H								
Tail		150	Poz C								
<b>Tubing String: Tubing - Production</b>											
Set Depth (ftKB)	Wellbore	Original Hole	Run Date	4/11/2006	Pull Date	Cut Pull Date	Depth Cut Pull (ft...)				
2,794.0											
Item Des	OD (in)	ID (in)	Drift (in)	Wt (lb/ft)	Grade	Top (ftKB)	Btm (ftKB)	Len (ft)	Jts		
Tubing Sub	2 3/8					10.0	18.0	8.00	1		
Tubing Sub	2 3/8					18.0	24.0	6.00	1		
Tubing	2 3/8	1.995	1.901			24.0	2,783.0	2,759.00	87		
Seat Nipple	2 3/8	1.875				2,783.0	2,784.0	1.00	1		
Mud Anchor	2 3/8	1.875				2,784.0	2,794.0	10.00	1		
<b>Rod String: Rod - Conventional</b>											
Set Depth (ftKB)	In Tubing String					Pull Date					
2,776.0											
<b>Perforations</b>											
Date	Zone	Top (ftKB)	Btm (ftKB)	Shot Dens (shots/ft)	Current Status						
2/8/1976	WINFIELD, Original Hole	2,764.0	2,774.0								
12/28/2007	WINFIELD, Original Hole	2,764.0	2,774.0								
<b>Stimulations &amp; Treatments</b>											
<b>WINFIELD, &lt;Stage Number?&gt;, Acid Frac, 8/18/1976</b>											
Min Top Dep...	Max Btm De...	Total Clean...	Avg Treat Pr...	Q Treat Avg...	Post ISIP (psi)	Comment					
2,764.0	2,774.0		625.0	15.50		Frac dn csg w/ 483 bbls gel KCL wtr w/ 9000# 10/20 mesh sand.					

# Current Wellbore Schematic

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**FIELD:** Bradshaw  
**STATE / COUNTY:** KANSAS / HAMILTON  
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**ELEVATION:** GL: 3,527.0 KB: 3,537.0 KB Height: 10.0  
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**API #: 1507520119**  
**Serial #:**  
**SPUD DATE:** 11/15/1975  
**RIG RELEASE:** 11/15/1975  
**1ST SALES GAS:** 7/1/1977  
**1ST SALES OIL:**  
**Current Status:** T/A

VERTICAL - Original Hole, 3/3/2014 3:00:59 PM		Stimulations & Treatments																																																
Vertical schematic (actual)	Zones																																																	
	WINFIELD D, Original Hole	<b>WINFIELD, &lt;Stage Number?&gt;, Acidizing, 2/14/1976</b> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th>Min Top Dep...</th> <th>Max Btm De...</th> <th>Total Clean...</th> <th>Avg Treat Pr...</th> <th>Q Treat Avg...</th> <th>Post ISIP (psi)</th> <th>Comment</th> </tr> <tr> <td>2,764.0</td> <td>2,774.0</td> <td></td> <td></td> <td></td> <td></td> <td>Acidize w/ 1000 gal - 15% BDA</td> </tr> </table>				Min Top Dep...	Max Btm De...	Total Clean...	Avg Treat Pr...	Q Treat Avg...	Post ISIP (psi)	Comment	2,764.0	2,774.0					Acidize w/ 1000 gal - 15% BDA																															
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Re-frac 9000# 10/20 sand 20286 gal gel</td> </tr> <tr> <td>9/20/1979</td> <td>Schematic</td> <td>Notes</td> <td>Acidized w 500g 15% acedic</td> </tr> <tr> <td>7/8/2000</td> <td>Schematic</td> <td>Notes</td> <td>Replace hole in tbg sub, MIRU well service, RIH, found hole in 4' tbg sub, replace 4' x 2 3/8" tbg sub, return well to production, RDMO well service, FINAL REPORT.Repair Hole in Tubing</td> </tr> <tr> <td>8/3/2002</td> <td>Schematic</td> <td>Notes</td> <td>MIRU Superior WS, POOH w/ rods and tbg, test tbg going back in hole, lost 21 jts when tested, prepare to finish running replacement tbg, SDFN.TubingLeak</td> </tr> <tr> <td>5/27/2005</td> <td>Schematic</td> <td>Notes</td> <td>MI Superior Services, finish stripping well out, RU sand pump to 2,785' and 2,790', rec very heavy barrium BU on rods and tbg, POOH w/ 1 1/4" x 16' polish rod, 1.5" x 7' liner, 2', 4', 6', 8' x 3/4" rod subs, 6 - 3/4" rods, 102 - 5/8" rods, 2" x 1.5" x 10' RSBC pump, 1" x 4" GA, 6' x 2 3/8" tbg sub, 88 jts 2 3/8" tbg, SN and 10' MA, 63 jts (good), 25 jts (bad), Champion looked @ converter to clean up well, SIW, SDFN.</td> </tr> <tr> <td>6/15/2005</td> <td>Schematic</td> <td>Notes</td> <td>Barium converter treatment</td> </tr> <tr> <td>6/17/2005</td> <td>Schematic</td> <td>Notes</td> <td>MIRU Superior WS #7, MIRU Key fishing and rental services, RIH w/ bull dog bailer, tag @ 2,740', drill down to 2,805', clean out, POOH w/ tbg and tools, pump not stroking, check valve, clean up, RIH w/ tools and tbg, tag @ 2,805', clean to 2,813', rec sand and rubber, make 60' hole, RDMO Key, LD tbg in singles, RDMO, TDFR.</td> </tr> <tr> <td>6/21/2005</td> <td>Schematic</td> <td>Notes</td> <td>MIRU Superior Service, spot swab tank onto location, RU csg swab, IFL 2,300', 1st hr, rec 15 BW, FL 2,500', CP vacuum, black water, 2 spoon solids in sample, 2nd hr, 12 BW, FL 2,650', CP vacuum, black water, 3 spoon solids in sample, RU Heat Wave Acid Services, pump 700 gals 15% HCL down csg w/ 50 bbls 2% KCL, flush w/ surfactant, treated on vacuum, ISIP vacuum, IFL 2,100', total acid load 67 bbls, 1st hr, 20 BW, FL 2,300', CP vacuum, black water, 2 spoon solids in sample, 2nd hr, 20 BW, FL 2,400', CP vacuum, black water, 2 spoon solids in sample, 3rd hr, 20 BW, FL 2,500', CP vacuum, black water, 1 spoon solids in sample, 4th hr, 16 BW, FL 2,550', CP vacuum, black water, 1 spoon solids in sample, rec total 76 BW, SIW, SDFN.</td> </tr> </tbody> </table>				Date	Type 1	Type 2	Com	1/8/1976	Schematic	Notes	RIH w/ 4.5" prod csg & cmt w/ 500 sx. Cement did not circulate.	2/4/1976	Schematic	Notes	Found casing unscrewed at 1644' pulled casing, screwed back together, Cleaned out to 2814' & PT to 1200#.	8/17/1976	Schematic	Notes	Bond log shows poor bond fr 2200'-2300'. Re-frac 9000# 10/20 sand 20286 gal gel	9/20/1979	Schematic	Notes	Acidized w 500g 15% acedic	7/8/2000	Schematic	Notes	Replace hole in tbg sub, MIRU well service, RIH, found hole in 4' tbg sub, replace 4' x 2 3/8" tbg sub, return well to production, RDMO well service, FINAL REPORT.Repair Hole in Tubing	8/3/2002	Schematic	Notes	MIRU Superior WS, POOH w/ rods and tbg, test tbg going back in hole, lost 21 jts when tested, prepare to finish running replacement tbg, SDFN.TubingLeak	5/27/2005	Schematic	Notes	MI Superior Services, finish stripping well out, RU sand pump to 2,785' and 2,790', rec very heavy barrium BU on rods and tbg, POOH w/ 1 1/4" x 16' polish rod, 1.5" x 7' liner, 2', 4', 6', 8' x 3/4" rod subs, 6 - 3/4" rods, 102 - 5/8" rods, 2" x 1.5" x 10' RSBC pump, 1" x 4" GA, 6' x 2 3/8" tbg sub, 88 jts 2 3/8" tbg, SN and 10' MA, 63 jts (good), 25 jts (bad), Champion looked @ converter to clean up well, SIW, SDFN.	6/15/2005	Schematic	Notes	Barium converter treatment	6/17/2005	Schematic	Notes	MIRU Superior WS #7, MIRU Key fishing and rental services, RIH w/ bull dog bailer, tag @ 2,740', drill down to 2,805', clean out, POOH w/ tbg and tools, pump not stroking, check valve, clean up, RIH w/ tools and tbg, tag @ 2,805', clean to 2,813', rec sand and rubber, make 60' hole, RDMO Key, LD tbg in singles, RDMO, TDFR.	6/21/2005	Schematic	Notes	MIRU Superior Service, spot swab tank onto location, RU csg swab, IFL 2,300', 1st hr, rec 15 BW, FL 2,500', CP vacuum, black water, 2 spoon solids in sample, 2nd hr, 12 BW, FL 2,650', CP vacuum, black water, 3 spoon solids in sample, RU Heat Wave Acid Services, pump 700 gals 15% HCL down csg w/ 50 bbls 2% KCL, flush w/ surfactant, treated on vacuum, ISIP vacuum, IFL 2,100', total acid load 67 bbls, 1st hr, 20 BW, FL 2,300', CP vacuum, black water, 2 spoon solids in sample, 2nd hr, 20 BW, FL 2,400', CP vacuum, black water, 2 spoon solids in sample, 3rd hr, 20 BW, FL 2,500', CP vacuum, black water, 1 spoon solids in sample, 4th hr, 16 BW, FL 2,550', CP vacuum, black water, 1 spoon solids in sample, rec total 76 BW, SIW, SDFN.
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# Current Wellbore Schematic

**WELL (PN):** DOERR 1-23 (218332)  
**FIELD OFFICE:** GARDEN CITY  
**FIELD:** Bradshaw  
**STATE / COUNTY:** KANSAS / HAMILTON  
**LOCATION:** SEC 23-21S-40W, 3300 FSL & 3300 FEL  
**ROUTE:** GAR-KS-ROUTE 01C - CRAE BARR  
**ELEVATION:** GL: 3,527.0 KB: 3,537.0 KB Height: 10.0  
**DEPTHS:** TD: 2,825.0

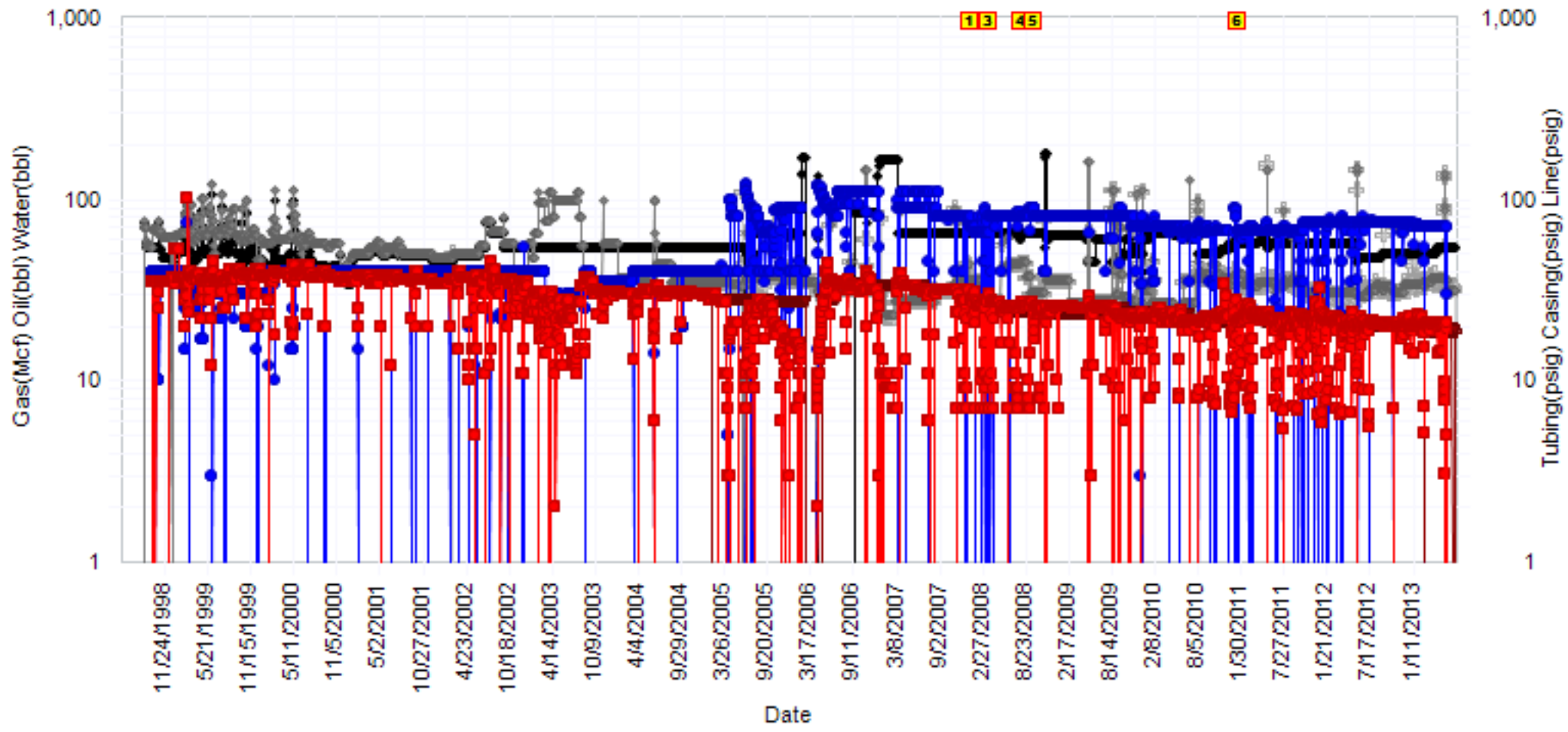
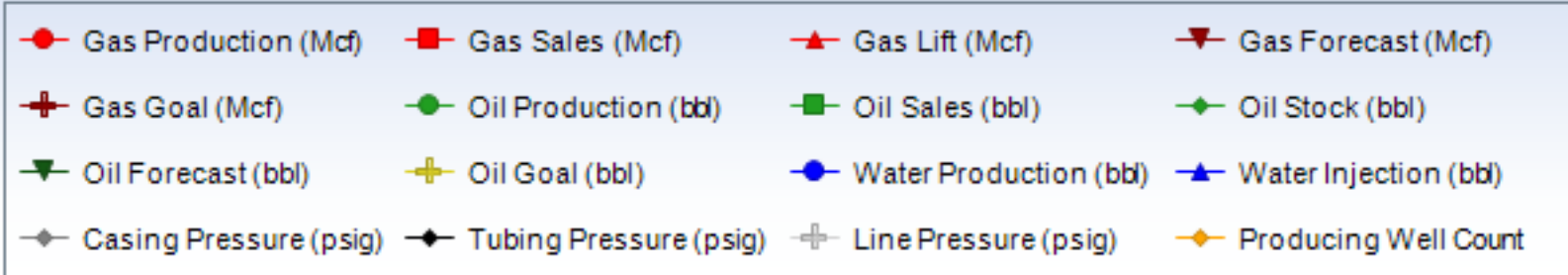
**API #:** 1507520119  
**Serial #:**  
**SPUD DATE:** 11/15/1975  
**RIG RELEASE:** 11/15/1975  
**1ST SALES GAS:** 7/1/1977  
**1ST SALES OIL:**  
**Current Status:** T/A

VERTICAL - Original Hole, 3/3/2014 3:01:00 PM		Well Notes			
Vertical schematic (actual)	Zones	Date	Type 1	Type 2	Com
		6/22/2005	Schematic	Notes	SICP 45#, csg swab, IFL 2,200', begin csg swab, 1st hr, FL 2,400', rec 18 BW, CP vacuum, black water, 3 spoon solids in sample, 2nd hr, FL 2,450', rec 15 BW, CP vacuum, black water, 2 spoon solids in sample, 3rd hr, FL 2,450', rec 15 BW, CP vacuum, black water, 1 spoon solids in sample, 3.5 hr, FL 2,500', rec 7 BW, CP vacuum, black water, 1 spoon solids in sample, fluid started to clean up, run sand pump, no fill @ 2,800', RIH w/ production tbg, begin tbg swab, IFL 2,300', 1st hr, FL 2,300', rec 6 BW, TP vacuum, black water, .5 cup solids in sample, 2nd hr, FL 2,350', rec 4 BW, TP vacuum, black water, 3 spoon solids in sample, 3rd hr, FL 2,450', rec 5 BW, TP vacuum, black water, 2 spoon solids in sample, 4th hr, FL 2,450', rec 4 BW, TP vacuum, black water, 2 spoon solids in sample, equipment in: 10' MA, SSN, 87 jts 2 3/8" tbg and 8', 6' subs, tbg 6' off bottom, SN @ 2,784', SIW, SDFN.
		4/5/2006	Schematic	Notes	MIRU Best WS #10, RIH w/ 32-A pkr and 50 jts tbg, spot 2 sx sand on top of RBP, POOH w/ 8 jts tbg, set pkr @ 1,358', pressure backside to 500#, SIW, SDFN, isolated leak @ 1,497' - 1,594'. Csg Leak
		4/6/2006	Schematic	Notes	MIRU Allied Cmt Co, pressure backside to 500#, OK, establish inj rate 2.5 BPM @ 600#, pump 110 sx w/ 3% CC, displace w/ 6 BF, pressure to 1000#, release pkr, reverse clean, pull 6 jts tbg, reset pkr, pressure to 500#, SIW, RDMO Allied.
		4/7/2006	Schematic	Notes	Squeeze had 100#, POOH w/ pkr and tbg, LD same, RIH w/ bit, 6 DCs and tbg, tag cmt @ 1,372', SIW, SDFN.
		4/8/2006	Schematic	Notes	MIRU Key, RU reverse unit and swivel, tag cmt @ 1,372', drill hard cmt, drill through @ 1,588', circ clean, test to 500#, lost 10# in 5 min, POOH w/ 6 jts tbg, SIW, SDFN.
		4/11/2006	Schematic	Notes	RIH to top of RBP, latch and release RBP, POOH w/ tbg and RBP, LD, RIH w/ sand pump, tag @ 2,795', rec 1 gals ironsulfite and scale, POOH w/ sand pump and tbg, LD sand pump, RIH w/ tbg, RTP, SDFN.
		WINFIEL D, Original Hole			



Zone: DOERR 1-23 (WINFIELD)  
 in Route: GAR-KS-Route 01C - Crae Barr  
 Production Engineer: Doug Kathol  
 Production Foreman: Dennis Frick

Date Range Cum Gas Prod (Mcf): 140,279  
 Date Range Cum Oil Prod (bbl): 0  
 Date Range Cum Water Prod (bbl): 284,533  
 Production Setting: Rod Pump - PU-ELC-AUTO





## Chesapeake Energy Corporation

CST Production Monitor Export

DOERR 1-23 (WINFIELD)

1/1/1900 - 3/2/2014 | Gross Volumes | Operated Wells | 14.65 Pressure Base

Marker #	Date	Annotation	Created By	Created Date
1	12/28/2007	Workover/Failure/Rod Repair	WellviewJobInfo	4/8/2009
2	2/26/2008	Workover/Failure/Rod Repair	WellviewJobInfo	4/8/2009
3	3/10/2008	Workover/Reconfigure/Replace Rod String	WellviewJobInfo	4/8/2009
4	7/21/2008	Workover/Failure/Rod Repair	WellviewJobInfo	4/8/2009
5	9/10/2008	Workover/Failure/Rod Repair	WellviewJobInfo	4/8/2009
6	1/5/2011	Workover/Failure/Rod Repair	WellviewJobInfo	1/5/2011



## Chesapeake Energy Corporation

CST Operations 8/8ths LOS Report

LOS MAIN

01/2013 - 12/2013 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
DOERR 1-23	218332	\$2.24	\$92.82	\$0.00	988	5,001	2,902	12,384	\$4.27	261	0	2,949	38	2,483	0	1,218	0	5,435	300	7,683	0	7,683
<b>Totals</b>		<b>\$2.24</b>	<b>\$92.82</b>	<b>\$0.00</b>	<b>988</b>	<b>5,001</b>	<b>2,902</b>	<b>12,384</b>	<b>\$4.27</b>	<b>261</b>	<b>0</b>	<b>2,949</b>	<b>38</b>	<b>2,483</b>	<b>0</b>	<b>1,218</b>	<b>0</b>	<b>5,435</b>	<b>300</b>	<b>7,683</b>	<b>0</b>	<b>7,683</b>

Chesapeake Energy Corporation

CST Operations 8/8ths LOS Report

DOERR 1-23

01/2013 - 12/2013 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
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Line Item	01/2013	02/2013	03/2013	04/2013	05/2013	06/2013	07/2013	08/2013	09/2013	10/2013	12/2013	Total
Gas Revenue Volume	641	544	633	615	469	0	0	0	0	0	0	2,902
Gas Sales	641	544	633	615	469	0	0	0	0	0	0	2,902
Gas Value	\$1,249	\$1,027	\$1,252	\$1,397	\$1,065	\$0	\$0	\$0	\$0	\$0	\$0	\$5,990
Gas Price	\$1.95	\$1.89	\$1.98	\$2.27	\$2.27	\$2.83	\$2.39	\$2.13	\$2.25	\$2.18	\$2.50	\$2.24
Oil Revenue Volume	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
Oil Value	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Oil Price	\$88.99	\$90.59	\$89.49	\$86.01	\$88.96	\$89.97	\$99.13	\$100.70	\$100.40	\$94.72	\$92.06	\$92.82
Royalty Burden	206	169	207	231	176	0	0	0	0	0	0	988
Royalty Percent	0.16500000	0.16500000	0.16500000	0.16500000	0.16500000	0.16500000	0.16500000	0.16500000	0.16500000	0.16500000	0.16500000	0.16500000
Revenue	1,043	857	1,046	1,167	889	0	0	0	0	0	0	5,001
MCFE	641	544	633	615	469	0	0	0	0	0	0	2,902
LOE Total	2,450	2,023	2,807	2,291	1,961	43	43	42	332	131	261	12,384
LOE Per MCFE	\$3.82	\$3.72	\$4.43	\$3.73	\$4.18	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$4.27
Ad Valorem Tax	0	0	0	0	0	0	0	0	0	0	261	261
Audit Charges	0	0	0	0	0	0	0	0	0	0	0	0
Company Labor	170	174	603	179	180	0	0	0	0	0	0	1,306
Compression	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
Field Facilities	53	37	32	41	40	0	0	0	0	0	0	203
Fuel Water Lube	0	0	115	0	0	0	0	0	0	0	0	115
Gas Processing	0	0	0	0	0	0	0	0	0	0	0	0
Insurance	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
Other Expenses	2	4	4	15	4	0	0	0	0	0	0	29
Overhead	573	573	573	615	615	0	0	0	0	0	0	2,949
Pumping Service	491	434	601	499	473	0	0	0	0	0	0	2,498
Regulatory	0	0	0	0	0	0	0	0	0	0	0	0
Rents And Fees	0	0	0	0	0	0	0	0	0	0	0	0
Repairs & Maintenance	0	0	38	0	0	0	0	0	0	0	0	38
Salt Water Disposal	558	469	543	525	388	0	0	0	0	0	0	2,483
Salt Water Processing	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
Supplies	85	2	1	48	3	0	0	0	0	0	0	139
Telemetry	29	29	29	20	18	19	19	18	18	0	0	199
Transportation	0	0	0	0	0	0	0	0	0	0	0	0
Treating Expenses	83	130	79	130	79	0	0	0	0	131	0	632
Utilities	406	171	189	219	161	24	24	24	0	0	0	1,218
Workover	0	0	0	0	0	0	0	0	0	0	0	0
Gas Severance Tax	63	52	63	69	53	0	0	0	0	0	0	300
Oil Severance Tax	0	0	0	0	0	0	0	0	0	0	0	0
Severance Tax	63	52	63	69	53	0	0	0	0	0	0	300
IDC Monthly	0	0	0	0	0	0	0	0	0	0	0	0
WEQ Monthly	0	0	0	0	0	0	0	0	0	0	0	0
NRI	0.83500000	0.83500000	0.83500000	0.83500000	0.83500000	0.83500000	0.83500000	0.83500000	0.83500000	0.83500000	0.83500000	0.83500000
GWV	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
Operating Cash Flow	(1,470)	(1,218)	(1,824)	(1,194)	(1,125)	(43)	(43)	(42)	(332)	(131)	(261)	(7,683)
Capital	0	0	0	0	0	0	0	0	0	0	0	0
Net Cash Flow	(1,470)	(1,218)	(1,824)	(1,194)	(1,125)	(43)	(43)	(42)	(332)	(131)	(261)	(7,683)

## Chesapeake Energy Corporation

## CST Operations 8/8ths LOS Report

## Totals

01/2013 - 12/2013 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>\$2.24</b>	<b>\$92.82</b>	<b>\$0.00</b>	<b>988</b>	<b>5,001</b>	<b>2,902</b>	<b>12,384</b>	<b>\$4.27</b>	<b>261</b>	<b>0</b>	<b>2,949</b>	<b>38</b>	<b>2,483</b>	<b>0</b>	<b>1,218</b>	<b>0</b>	<b>5,435</b>	<b>300</b>	<b>7,683</b>	<b>0</b>	<b>7,683</b>
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Oil Revenue Volume	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										
Oil Value	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0										
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Ad Valorem Tax	0	0	0	0	0	0	0	0	0	0	261	261										
Audit Charges	0	0	0	0	0	0	0	0	0	0	0	0										
Company Labor	170	174	603	179	180	0	0	0	0	0	0	1,306										
Compression	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										
Field Facilities	53	37	32	41	40	0	0	0	0	0	0	203										
Fuel Water Lube	0	0	115	0	0	0	0	0	0	0	0	115										
Gas Processing	0	0	0	0	0	0	0	0	0	0	0	0										
Insurance	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										
Other Expenses	2	4	4	15	4	0	0	0	0	0	0	29										
Overhead	573	573	573	615	615	0	0	0	0	0	0	2,949										
Pumping Service	491	434	601	499	473	0	0	0	0	0	0	2,498										
Regulatory	0	0	0	0	0	0	0	0	0	0	0	0										
Rents And Fees	0	0	0	0	0	0	0	0	0	0	0	0										
Repairs & Maintenance	0	0	38	0	0	0	0	0	0	0	0	38										
Salt Water Disposal	558	469	543	525	388	0	0	0	0	0	0	2,483										
Salt Water Processing	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										
Supplies	85	2	1	48	3	0	0	0	0	0	0	139										
Telemetry	29	29	29	20	18	19	19	18	18	0	0	199										
Transportation	0	0	0	0	0	0	0	0	0	0	0	0										
Treating Expenses	83	130	79	130	79	0	0	0	0	131	0	632										
Utilities	406	171	189	219	161	24	24	24	0	0	0	1,218										
Workover	0	0	0	0	0	0	0	0	0	0	0	0										
Gas Severance Tax	63	52	63	69	53	0	0	0	0	0	0	300										
Oil Severance Tax	0	0	0	0	0	0	0	0	0	0	0	0										
Severance Tax	63	52	63	69	53	0	0	0	0	0	0	300										
IDC Monthly	0	0	0	0	0	0	0	0	0	0	0	0										
WEQ Monthly	0	0	0	0	0	0	0	0	0	0	0	0										
NRI	0.83500000	0.83500000	0.83500000	0.83500000	0.83500000	0.83500000	0.83500000	0.83500000	0.83500000	0.83500000	0.83500000	0.83500000										
GW	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000										
Operating Cash Flow	(1,470)	(1,218)	(1,824)	(1,194)	(1,125)	(43)	(43)	(42)	(332)	(131)	(261)	(7,683)										
Capital	0	0	0	0	0	0	0	0	0	0	0	0										
Net Cash Flow	(1,470)	(1,218)	(1,824)	(1,194)	(1,125)	(43)	(43)	(42)	(332)	(131)	(261)	(7,683)										

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  
Jay Scott Emler, Commissioner  
Pat Apple, Commissioner

Sam Brownback, Governor

August 06, 2014

Sarah Rodriguez/Doug Kathol  
Chesapeake Operating, Inc.  
6100 N WESTERN AVE  
PO BOX 18496  
OKLAHOMA CITY, OK 73118-1046

Re: Plugging Application  
API 15-075-20119-00-00  
DOERR 1-23  
NW/4 Sec.23-21S-40W  
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 February 02, 2015. 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