Confidentiality Requested:
☐ Yes ☐ No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

1071907

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 # 32334
Name: Chesapeake Operating, Inc.
Address 1: 6100 N WESTERN AVE
Address 2: PO BOX 18496
City: OKLAHOMA CITY State: OK Zip: 73118 + 1046
Contact Person: Aletha Dewbre
Phone: (405) 935-4775
CONTRACTOR: License # 33784
Name: Trinidad Drilling Limited Partnership
Wellsite Geologist: Ken Wright
Purchaser: NA

Designate Type of Completion:

☑ New Well ☐ Re-Entry ☐ Workover

☐ Oil ☐ WSW ☑ SWD ☐ SIOW
☐ Gas ☐ D&A ☐ ENHR ☐ SIGW
☐ OG ☐ GSW ☐ Temp. Abd.
☐ CM *(Coal Bed Methane)*
☐ Cathodic ☐ Other *(Core, Expl., etc.)*:

If Workover/Re-entry: Old Well Info as follows:

Operator:
Well Name:
Original Comp. Date: Original Total Depth:

☐ Deepening ☐ Re-perf. ☐ Conv. to ENHR ☐ Conv. to SWD
☐ Plug Back ☐ Conv. to GSW ☐ Conv. to Producer

☐ Commingled Permit #:
☐ Dual Completion Permit #:
☐ SWD Permit #:
☐ ENHR Permit #:
☐ GSW Permit #:

9/19/2011	10/29/2011	10/31/2011
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-191-22625-00-00
Spot Description:
SW SE SE NE Sec. 3 Twp. 34 S. R. 4 ☐ East ☑ West
2815 Feet from ☐ North / ☑ South Line of Section
460 Feet from ☑ East / ☐ West Line of Section
Footages Calculated from Nearest Outside Section Corner:
☐ NE ☐ NW ☑ SE ☐ SW
GPS Location: Lat: *(e.g. xx.xxxxx)* , Long: *(e.g. -xxx.xxxxx)*
Datum: ☐ NAD27 ☐ NAD83 ☐ WGS84
County: Sumner
Lease Name: Del 3-34-4 Well #: 1 SWD
Field Name:
Producing Formation: NA
Elevation: Ground: 1207 Kelly Bushing: 1222
Total Vertical Depth: 6071 Plug Back Total Depth:
Amount of Surface Pipe Set and Cemented at: 500 Feet
Multiple Stage Cementing Collar Used? ☐ Yes ☑ No
If yes, show depth set: Feet
If Alternate II completion, cement circulated from:
feet depth to: w/ sx cmt.

Drilling Fluid Management Plan
(Data must be collected from the Reserve Pit)

Chloride content: 600 ppm Fluid volume: 4250 bbls
Dewatering method used: Hauled to Disposal

Location of fluid disposal if hauled offsite:

Operator Name: Gray Disposal
Lease Name: Gray License #: 28416
Quarter SW Sec. 15 Twp. 24 S. R. 7 ☐ East ☑ West
County: Garfield Permit #: 000000

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: 01/13/2012
☑ **Confidential Release Date:** 01/12/2014
☑ **Wireline Log Received**
☐ **Geologist Report Received**
☑ **UIC Distribution**
ALT ☑ **I** ☐ **II** ☐ **III** **Approved by:** NAOMI JAMES **Date:** 01/17/2012

[redacted] 1071907

Operator Name: Chesapeake Operating, Inc. Lease Name: Del 3-34-4 Well #: 1 SWD

Sec. 3 Twp. 34 S. R. 4 ☐ East ☑ West County: Sumner

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 ☐ Yes ☑ No
(Attach Additional Sheets)

Samples Sent to Geological Survey ☑ Yes ☐ No

Cores Taken ☑ Yes ☐ No

Electric Log Run ☑ Yes ☐ No

List All E. Logs Run:

Attached

☐ Log Formation (Top), Depth and Datum ☑ Sample

Name: Attached Top: Attached Datum: Attached

CASING RECORD ☑ New ☐ Used

Report all strings set-conductor, surface, intermediate, production, 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
Attached	Attached	Attached	Attached	Attached	Attached	Attached	Attached

ADDITIONAL CEMENTING / SQUEEZE RECORD

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

Did you perform a hydraulic fracturing treatment on this well? ☐ Yes ☐ No *(If No, skip questions 2 and 3)*

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? ☐ Yes ☐ No *(If No, skip question 3)*

Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? ☐ Yes ☐ No *(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	Acid, Fracture, Shot, Cement Squeeze Record *(Amount and Kind of Material Used)*	Depth
	Open Hole	15000 gals 28% HCL & 2500# rock salt. Flushed with 2300 bbls 1% KCL water.	4960-6071

TUBING RECORD: Size: 7" Set At: 4700 Packer At: 4700 (on bottom of tubing) Liner Run: ☐ Yes ☐ No

Date of First, Resumed Production, SWD or ENHR.

Producing Method: ☐ Flowing ☐ Pumping ☐ Gas Lift ☐ Other *(Explain)* _____

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

DISPOSITION OF GAS:

☐ Vented ☐ Sold ☐ Used on Lease

(If vented, Submit ACO-18.)

METHOD OF COMPLETION:

☑ Open Hole ☐ Perf. ☐ Dually Comp. *(Submit ACO-5)* ☐ Commingled *(Submit ACO-4)*

☐ Other *(Specify)* _____

PRODUCTION INTERVAL:

4960-6071

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

Form	ACO1 - Well Completion
Operator	Chesapeake Operating, Inc.
Well Name	Del 3-34-4 1 SWD
Doc ID	1071907

All Electric Logs Run

Platform Express Compensated Neutron Lithology Density
Platform Express Array Induction Gamma Ray-SP
Horizon Mud Log
CBL
HNGS Field Print
Hiole Cement Volume Future Casing = 9.625 inches

Form	ACO1 - Well Completion
Operator	Chesapeake Operating, Inc.
Well Name	Del 3-34-4 1 SWD
Doc ID	1071907

Tops

Name	Top	Datum
Base Heebner	2841	-1615
Lansing	3575	-2348
Hogshooter	3799	-2573
Oswego	3917	-2691
Cherokee	4065	-2839
Mississippi	4306	-3080
Woodford	4574	-3348
Viola	4658	-3432

Form	ACO1 - Well Completion
Operator	Chesapeake Operating, Inc.
Well Name	Del 3-34-4 1 SWD
Doc ID	1071907

Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement	Number of Sacks Used	Type and Percent Additives
Conductor	24	20	75	120	Class A Type 1	54	Class A, Type 1
Surface	13.375	12.25	55	500		580	
Intermediate	9.625	8.835	40	4960	K-55	490	
Duoline Tubing	9.625	7	23	4700	Packer on bottom of tubing	0	

Notice of Conductor Pipe Installation

Installation Company Information

Firm Name	Elite Drilling, LLC.
Mailing Address	3105 Bent Creek Drive
City	Woodward
State	OK
Zip	73801

Well Operator Information

Operator name	Chesapeake Operating, Inc.
Mailing Address	Rt. 1 Box 5-A
City	Waynoka
State	OK
Zip	73860

Well Information

Well Name	Del 3-34-4-1 SWD
Legal location	Sec. 3-34S-4W
Footage	
County	

Installation Details

Pipe Size	20"
Depth	120'
Completion Method	Displacement
Date installed	9/13/2011
Cement	18 yds Class A Type 1

HALLIBURTON

Cementing Job Summary

The Road to Excellence Starts with Safety

Sold To #: 344659	**Ship To #:** 2879314	**Quote #:**	**Sales Order #:** 8482613
Customer: CHESAPEAKE OPERATING INC EBUSINESS		**Customer Rep:** Lee, King	
Well Name: Del 3-24-4 SWD	**Well #:** 1		**API/UWI #:**
Field:	**City (SAP):** ANTHONY	**County/Parish:** Harper	**State:** Kansas
Legal Description: Section 3 Township 34S Range 4W			
Contractor: TRINIDAD	**Rig/Platform Name/Num:** 205		
Job Purpose: Cement Surface Casing			
Well Type: Development Well	**Job Type:** Cement Surface Casing		
Sales Person: CRAWFORD, ROBERT	**Srvc Supervisor:** WALTON, SCOTTY	**MBU ID Emp #:** 478229	

Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
AIRINGTON, JOSEPH Tyler	18	497322	MELTON, JESS Cullian	18	502706	TURNER, DANIEL J	18	461812
WALTON, SCOTTY Dwayne	18	478229						

Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
10714264C	135 mile						

Job Hours

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours
9-20-11	18	2						
TOTAL			*Total is the sum of each column separately*					

Job

Formation Name					
Formation Depth (MD)	**Top**		**Bottom**		
Form Type		**BHST**			
Job depth MD	500. ft	**Job Depth TVD**	500. ft		
Water Depth		**Wk Ht Above Floor**	10. ft		
Perforation Depth (MD)	**From**		**To**		

Job Times

	Date	Time	Time Zone
Called Out	19 - Sep - 2011	20:30	CST
On Location	20 - Sep - 2011	01:00	CST
Job Started	20 - Sep - 2011	16:31	CST
Job Completed	20 - Sep - 2011	17:47	CST
Departed Loc	20 - Sep - 2011	19:05	CST

Well Data

Description	New / Used	Max pressure psig	Size in	ID in	Weight lbm/ft	Thread	Grade	Top MD ft	Bottom MD ft	Top TVD ft	Bottom TVD ft
Surface Open Hole				17.5				80.	500.		
Preset Conductor	Unknown		20.	19.124	94.				80.		
Surface Casing	Unknown		13.375	12.615	54.5				500.		

Tools and Accessories

Type	Size	Qty	Make	Depth	Type	Size	Qty	Make	Depth	Type	Size	Qty	Make
Guide Shoe					Packer					Top Plug			
Float Shoe					Bridge Plug					Bottom Plug			
Float Collar					Retainer					SSR plug set			
Insert Float										Plug Container			
Stage Tool										Centralizers			

Miscellaneous Materials

Gelling Agt		Conc		Surfactant		Conc		Acid Type		Qty	Conc %
Treatment Fld		Conc		Inhibitor		Conc		Sand Type		Size	Qty

Fluid Data

Stage/Plug #: 1

HALLIBURTON

Cementing Job Summary

Fluid #	Stage Type	Fluid Name	Qty	Qty uom	Mixing Density lbm/gal	Yield ft3/sk	Mix Fluid Gal/sk	Rate bbl/min	Total Mix Fluid Gal/sk
1	HALLIBURTON LIGHT STANDARD	EXTENDACEM (TM) SYSTEM (452981)	265.0	sacks	13.	1.78	9.4		9.4
	3 %	CALCIUM CHLORIDE, PELLET, 50 LB (101509387)							
	0.25 lbm	POLY-E-FLAKE (101216940)							
	9.396 Gal	FRESH WATER							
2	STANDARD	HALCEM (TM) SYSTEM (452986)	315.0	sacks	15.6	1.2	5.32		5.32
	2 %	CALCIUM CHLORIDE, PELLET, 50 LB (101509387)							
	0.125 lbm	POLY-E-FLAKE (101216940)							
	5.319 Gal	FRESH WATER							

Calculated Values		Pressures		Volumes					
Displacement	71.7	Shut In: Instant		Lost Returns	0	Cement Slurry		Pad	
Top Of Cement	0	5 Min		Cement Returns	30	Actual Displacement	71.7	Treatment	
Frac Gradient		15 Min		Spacers	10	Load and Breakdown		Total Job	

Rates

Circulating		Mixing		Displacement		Avg. Job	

Cement Left In Pipe	Amount	40 ft	Reason	Shoe Joint

Frac Ring # 1 @		ID		Frac ring # 2 @		ID		Frac Ring # 3 @		ID		Frac Ring # 4 @		ID	

The Information Stated Herein Is Correct	Customer Representative Signature

HALLIBURTON

Cementing Job Summary

The Road to Excellence Starts with Safety

Sold To #: 344659	Ship To #: 2879314	Quote #:	Sales Order #: 9009313
Customer: CHESAPEAKE OPERATING INC EBUSINESS		Customer Rep:	
Well Name: Del 3-24-4 SWD	Well #: 1		API/UWI #:
Field:	City (SAP): ANTHONY	County/Parish: Harper	State: Kansas
Legal Description: Section 3 Township 34S Range 4W			
Contractor: Trinidad	Rig/Platform Name/Num: 205		
Job Purpose: Cement Multiple Stages			
Well Type: Development Well	Job Type: Cement Multiple Stages		
Sales Person: CRAWFORD, ROBERT	Srvc Supervisor: UNDERWOOD, BILLY	MBU ID Emp #: 159068	

Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
KIRKLAND, LARRY Don	12	286162	OTTO, STEVEN Byron	20	505532	TRAVIS, TONY Craig	22	367758
UNDERWOOD, BILLY Dale	22	159068						

Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
10261039	135 mile	10825967	135 mile	11133701	135 mile	11288856	135 mile
11360545	135 mile	11715801	135 mile	11748311	135 mile		

Job Hours

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours
11-24-11	12	1	11-25-11	8	3.5			
TOTAL			*Total is the sum of each column separately*					

Job

Formation Name			
Formation Depth (MD)	Top	Bottom	
Form Type		BHST	
Job depth MD	4960. ft	Job Depth TVD	
Water Depth		Wk Ht Above Floor	
Perforation Depth (MD)	From	To	

Job Times

	Date	Time	Time Zone
Called Out	24 - Oct - 2011	08:00	CST
On Location	24 - Oct - 2011	12:00	CST
Job Started	24 - Oct - 2011	23:00	CST
Job Completed	25 - Oct - 2011	07:00	CST
Departed Loc	25 - Oct - 2011	08:20	CST

Well Data

Description	New / Used	Max pressure psig	Size in	ID in	Weight lbm/ft	Thread	Grade	Top MD ft	Bottom MD ft	Top TVD ft	Bottom TVD ft
Intermediate Casing Open Hole				12.25				4000.	4960.		
Lower Intermediate Open Hole				12.25				500.	4000.	500.	4000.
Multiple Stage Cementer								4000.	4000.		
Intermediate Casing	Unknown		9.625	8.835	40.	BTC	K-55		4960.		4960.
Surface Casing	Unknown		13.375	12.615	54.5				500.		

Tools and Accessories

Type	Size	Qty	Make	Depth	Type	Size	Qty	Make	Depth	Type	Size	Qty	Make
Guide Shoe					Packer					Top Plug			
Float Shoe					Bridge Plug					Bottom Plug			
Float Collar					Retainer					SSR plug set			
Insert Float										Plug Container			
Stage Tool										Centralizers			

Miscellaneous Materials

Gelling Agt	Conc	Surfactant	Conc	Acid Type	Qty	Conc %

HALLIBURTON

Cementing Job Summary

Treatment Fld		Conc		Inhibitor		Conc		Sand Type		Size		Qty	

Fluid Data

Stage/Plug #: 1

Fluid #	Stage Type	Fluid Name	Qty	Qty uom	Mixing Density lbm/gal	Yield ft3/sk	Mix Fluid Gal/sk	Rate bbl/min	Total Mix Fluid Gal/sk
1	First Stage Cement	VERSACEM (TM) SYSTEM (452010)	175.0	sacks	12.5	2.21	10.99		10.99
	10 %	CAL-SEAL 60, BULK (100064022)							
	0.5 %	HALAD(R)-9, 50 LB (100001617)							
	0.2 %	WG-17, 50 LB SK (100003623)							
	0.5 %	D-AIR 5000, 50 LB SACK (102068797)							
	5 lbm	KOL-SEAL, BULK (100064233)							
	10.985 Gal	FRESH WATER							

Stage/Plug #: 2

Fluid #	Stage Type	Fluid Name	Qty	Qty uom	Mixing Density uom	Yield uom	Mix Fluid uom	Rate uom	Total Mix Fluid uom
1	Second Stage Cement	VERSACEM (TM) SYSTEM (452010)	315.0	sacks	12.5	2.21	10.99		10.99
	10 %	CAL-SEAL 60, BULK (100064022)							
	0.5 %	HALAD(R)-9, 50 LB (100001617)							
	0.2 %	WG-17, 50 LB SK (100003623)							
	0.5 %	D-AIR 5000, 50 LB SACK (102068797)							
	5 lbm	KOL-SEAL, BULK (100064233)							
	10.985 Gal	FRESH WATER							

Calculated Values		Pressures		Volumes					
Displacement	373/305	Shut In: Instant		Lost Returns		Cement Slurry	68/124	Pad	
Top Of Cement		5 Min		Cement Returns		Actual Displacement	373/305	Treatment	
Frac Gradient		15 Min		Spacers	10	Load and Breakdown		Total Job	881

Rates

Circulating	5	Mixing	6	Displacement	7	Avg. Job	7

Cement Left In Pipe	Amount	42 ft	Reason	Shoe Joint

Frac Ring # 1 @	ID	Frac ring # 2 @	ID	Frac Ring # 3 @	ID	Frac Ring # 4 @	ID

The Information Stated Herein Is Correct

Customer Representative Signature

Harry Kirkman – Harry Kirkman

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

Kansas
Corporation Commission

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

January 13, 2012

Aletha Dewbre
Chesapeake Operating, Inc.
6100 N WESTERN AVE
PO BOX 18496
OKLAHOMA CITY, OK 73118-1046

Re: ACO1
API 15-191-22625-00-00
Del 3-34-4 1 SWD
NE/4 Sec.03-34S-04W
Sumner County, Kansas

Dear Production Department:

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

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

Respectfully,
Aletha Dewbre