

District I
1625 N. French Dr , Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S St Francis Dr , Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

Form C-101
June 16, 2008

RECEIVED

MAY 10 2010

HOBBSDO

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Submit to appropriate District Office

☒ AMENDED REPORT

**APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN,
PLUGBACK, OR ADD A ZONE**

¹ Operator Name and Address Chesapeake Operating, Inc P O. Box 18496 Oklahoma City, OK 73154-0496		² OGRID Number 147179
		³ API Number 30-025-29514
³ Property Code 024575 33481	⁵ Property Name J A Akens	⁶ Well No. 12
⁹ Proposed Pool 1 Eumont, Yates-Seven Rivers-Queen		¹⁰ Proposed Pool 2

7 Surface Location

UL or lot no X	Section 3	Township 21 S	Range 36E	Lot Idn	Feet from the 660'	North/South South	Feet from the 330'	East/West East	County Lea
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8 Proposed Bottom Hole Location If Different From Surface

UL or lot no	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
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Additional Well Information

¹¹ Work Type Code P	¹² Well Type Code O	¹³ Cable/Rotary	¹⁴ Lease Type Code Fee	¹⁵ Ground Level Elevation 3553' GR
¹⁶ Multiple N	¹⁷ Proposed Depth PBSD 3844'	¹⁸ Formation Queen	¹⁹ Contractor TBD	²⁰ Spud Date ASAP

21 Existing Casing and Cement Program

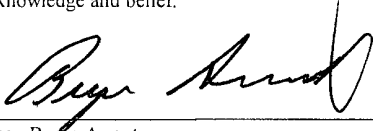
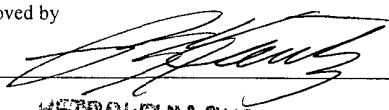
Hole Size	Casing Size	Casing weight/foot	Setting Depth	Sacks of Cement	Estimated TOC
17 1/2"	13 3/8"	48#	407'	450 sxs	Surface
12 1/4"	8 5/8"	24#	2700'	1350 sxs	Surface
7 7/8"	5 1/2"	15.5# & 14#	7000'	1100 sxs	1200'

²² Describe the proposed program. If this application is to DEEPEN or PLUG BACK, give the data on the present productive zone and proposed new productive zone. Describe the blowout prevention program, if any. Use additional sheets if necessary.

Chesapeake Operating, Inc. respectfully requests to re-complete this well in the Lower Queen. Please find the Proposed Procedure for Recompletion, NMOCD's Amended C-102 Plat, and NMOCD's (CLEZ) Pit Permit.

**Permit Expires 2 Years From Approval
Date Unless Drilling Underway**

Plugback

²³ I hereby certify that the information given above is true and complete to the best of my knowledge and belief.	OIL CONSERVATION DIVISION	
Signature 	Approved by 	
Printed name Bryan Arrant	Title PETROLEUM ENGINEER	
Title: Senior Regulatory Compliance Specialist	Approval Date MAY 21 2010	Expiration Date
E-mail Address. bryan.arrant@chk.com		

Date: 5/7/2010	Phone: 405-935-3782	Conditions of Approval Attached <input type="checkbox"/>
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**J A Akens #12-3
Lower Queen Recompletion
Lea County, NM**

Current Wellbore Information

TD: 7,000' PBTD: 3,844'

Casing	OD	Weight	Grade	Depth Set	TOC
Surface	13-3/8"	48#	H-40	407'	Surface
Intermediate	8-5/8"	24#	K-55	2,700'	Surface
Production	5-1/2"	15.5# & 14#	K-55	7,000'	1,200'

Pressure and Dimensional Data

Size	Weight	Grade	Drift	Collapse	Burst	80% Burst
13-3/8"	48#	H-40	12 559	770	1,730	1,384
8-5/8"	24#	K-55	7 972	1,370	2,950	2,360
5-1/2"	15 5# & 14#	K-55	4 887	3,120	4,270	3,416

Existing Perforations

Perfs.	Top Perf	Bottom Perf	Status
Glorieta	5,204'	5,330'	Abandoned
Glorieta	5,322'	5,330'	Abandoned
Blinebry	5,828'	5,866'	Abandoned
Tubb	6,554'	6,654'	Abandoned
Tubb	6,684'	6,734'	Abandoned
Drinkard	6,740'	6,782'	Abandoned
Drinkard	6,786'	6,830'	Abandoned
Drinkard	6,864'	6,880'	Abandoned

OIH	Size	Location
Cement Retainer	5-1/2"	3,900'
Cemented Bridge Plug	5-1/2"	5,100'

GL: 3,553' KB: 14' KB Height: 3,567'

Procedure

Hold PJSA prior to beginning work each morning and as required for specific operations.

1. Prep location. Check anchors and clean area for workover.
2. Set (4), 500 barrel, steam cleaned frac tanks. Water requirement is 1,603 bbls. With 10% overage the requirement is 1,800 bbls.
3. Rack and tally Oil Dog work string consisting of 129 joints of 2-7/8, 6.5#, J-55 tubing.
4. MIRU workover rig. ND WH. POH w/ pump and rods. NU 5K BOPs and test. POH w/ production tubing (laying down).
5. RIH w/ 4-3/4" bit, 6 – 3-1/2" DCs and scraper to 3,844'. Clean out and circulate the 5-1/2" casing with 2% KCL. Pump sweeps as necessary to clean hole. POOH w/ 4-3/8" bit and 2-7/8" Oil Dog workstring (standing back).
6. NU 7-1/16", 5K, Full Opening, Hydraulic Frac Valve. NU 7-1/16", 5K, Cross with 2-9/16", 5K, Wing Valves. Run test plug. Test to 4,000#. Retrieve test plug.

7. Install 5K lubricator and logging tools. RIH w/ CBL, CCL and GR and log without pressure on the well from 3,750' and log up to 3,450'. Drop back down to the initial depth of 3,750' and log the well to 200' above TOC (estimated to be 1,200') with 2,000 psi applied to the casing. Release pressure, POOH w/ tools and LD. Contact Asset Manager if the cement bond is poor. Ensure one copy of the CBL is given to the completion foreman and one copy is sent to Kim Henderson (kim.henderson@chk.com) in Oklahoma City. RD wireline.
8. MU Perforating Guns loaded 3 spf w/ 60 degree phasing (23 g minimum charges) and RIH. Correlate to the attached log from Step #7 and perforate the Grayburg (Stage 1) as follows:

Stage 1

Formation	Interval	SPF	Total Shots
Grayburg	3,621	3 spf	3
Grayburg	3,618'	3 spf	3
Grayburg	3,616'	3 spf	3
Grayburg	3,602'	3 spf	3
Grayburg	3,597'	3 spf	3
Grayburg	3,584'	3 spf	3
Grayburg	3,582'	3 spf	3
Grayburg	3,580'	3 spf	3
Grayburg	3,576'	3 spf	3
Grayburg	3,570'	3 spf	3
Grayburg	3,566'	3 spf	3
Grayburg	3,549'	3 spf	3
Grayburg	3,540'	3 spf	3
Total	81'		39

POOH w/ perforating guns and verify all shots fired. RDMO Wireline.

9. RD Lubricator. RU Frac Company and frac the Grayburg perfs 3,540' – 3,621' (39 holes). Frac per attached procedure. (5-1/2" 14# & 15.5 K-55 Internal Yield = 4,270 psi) Record ISIP-5-10-15 min pressures. RDMO frac equipment.
10. RU wireline and install 5K lubricator. RIH w/ CBP and set @ 3,490'. POH.
11. MU Perforating Guns loaded 3 spf w/ 60 degree phasing (23 g minimum charges) and RIH. Correlate to the attached log from Step #7 and perforate the Grayburg (Stage 2) as follows:

Stage 2

Formation	Interval	SPF	Total Shots
Grayburg	3,514	3 spf	3
Grayburg	3,507'	3 spf	3
Grayburg	3,505'	3 spf	3
Grayburg	3,499'	3 spf	3
Grayburg	3,496'	3 spf	3
Grayburg	3,494'	3 spf	3
Grayburg	3,492'	3 spf	3
Grayburg	3,476'	3 spf	3
Grayburg	3,474'	3 spf	3
Grayburg	3,472'	3 spf	3
Grayburg	3,465'	3 spf	3
Grayburg	3,464'	3 spf	3
Grayburg	3,432'	3 spf	3
Grayburg	3,425'	3 spf	3
Grayburg	3,423'	3 spf	3
Grayburg	3,420'	3 spf	3
Total	94'		48

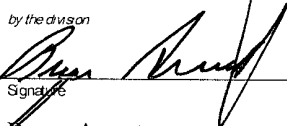

POOH w/ perforating guns and verify all shots fired. RDMO Wireline.

12. RD Lubricator. RU Frac Company and frac the Grayburg perfs 3,540' – 3,621' (39 holes). Frac per attached procedure. (5-1/2" 14# & 15.5 K-55 Internal Yield = 4,270 psi) Record ISIP-5-10-15 min pressures. RDMO frac equipment.
13. PU 4-3/4" bit, 6 – 3-1/2" DCs and work string and TIH to clean out to PBTD @ 3,844'. Circulate hole clean with 2% KCL water. POH.
14. TIH with production tubing and SN. Set seat nipple at 3,671' (below perfs).
15. ND BOP. NU WH. TIH with pump and rods. Fill tubing and space out pump accordingly. Verify pump action. Place well on test.
16. RDMO workover rig. Clean location.

Contacts

Production Foreman
Greg Skiles
Office: 575-391-1462
Cell: 575-631-1663

Asset Manager
Kim Henderson
Office: 405-935-8583
Cell: 405-312-1840

16	10	9	<p>17 OPERATOR CERTIFICATION</p> <p><i>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division</i></p> <div style="display: flex; justify-content: space-between;"> <div style="width: 60%;">  Signature </div> <div style="width: 35%;"> 05/07/2010 Date </div> </div> <p>Bryan Arrant Printed Name</p>
	15	16	
	J	I	<p>18 SURVEYOR CERTIFICATION</p> <p><i>I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief</i></p> <p>Date of Survey _____</p> <p>Signature and Seal of Professional Surveyor _____</p>
	0	 330' 660'	<p style="text-align: center; font-size: 1.2em;">Please See Original Plat</p> <p>Certificate Number _____</p>