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

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State of New Mexico
Energy Minerals and Natural Resources

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

Form C-101
June 16, 2008

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	[2] OGRID Number
Chesapeake Operating, Inc P.O. Box 18496 Oklahoma City, OK 73154-0496	147179
	[3] API Number 30 – 025-28124

[3] Property Code	[5] Property Name	[6] Well No
29564	Monstro	1

[9] Proposed Pool 1	[10] Proposed Pool 2
Skaggs, Grayburg	

[7] Surface Location

UL or lot no	Section	Township	Range	Lot Idn	Feet from the	North/South	Feet from the	East/West	County
M	6	20 South	38 East		330'	South	330'	West	Lea

[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

Additional Well Information

[11] Work Type Code	[12] Well Type Code	[13] Cable/Rotary	[14] Lease Type Code	[15] Ground Level Elevation
P	O	Rotary	Fee	3579'
[16] Multiple	**[17] Proposed Depth**	**[18] Formation**	**[19] Contractor**	**[20] Spud Date**
N	5850' PBTD	Grayburg	TBD	ASAP

[21] Current Well-Bore & Cement Information

Hole Size	Casing Size	Casing weight/foot	Setting Depth	Sacks of Cement	Estimated TOC
12 ¼"	8 5/8"	24#	1500'	800 sxs	0'
7 7/8"	5 ½"	15.5# & 17#	7050	600 sxs	3300'

[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 request to re-enter this well-bore and plug back to the Grayburg formation.
Please find Current Well-Bore Information and Procedure for Recompletion, NMOCD's amended form C-102 and C-144 (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

Signature: Bryan Arrant

Printed name: Bryan Arrant

Title: Senior Regulatory Compliance Specialist

E-mail Address: bryan.arrant@chk.com

Date: 5/14/2010 Phone: 405-935-3782

OIL CONSERVATION DIVISION

Approved by:

Title: PETROLEUM ENGINEER

Approval Date: JUN 01 2010 Expiration Date:

Conditions of Approval Attached ☐

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State of New Mexico
Energy, Minerals & Natural Resources Department
CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

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MAY 17 2010
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Form C-102
Revised October 15, 2009
Submit one copy to appropriate District Office

☑ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

[1] API Number	[2] Pool Code	[3] Pool Name
30-025-28124	57380	Skaggs; Grayburg

[4] Property Code	[5] Property Name	[6] Well Number
29564	Monstro	1

[7] OGRID No	[8] Operator Name	[9] Elevation
147179	Chesapeake Operating, Inc.	3579' GR

[10] Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	6	20S	38E		330'	South	330'	West	Lea

[11] 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

[12] Dedicated Acres	[13] Joint or Infill	[14] Consolidation Code	[15] Order No.
40			

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

16

330' FWL
330' FSL

[17] OPERATOR CERTIFICATION

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

Signature — Date: 05/14/2010

Bryan Arrant
Printed Name

[18] SURVEYOR CERTIFICATION

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

Date of Survey

Signature and Seal of Professional Surveyor

Please Refer to Original Plat

Certificate Number

Chesapeake ENERGY

Monstro #1-6
Grayburg Recompletion
Lea County, NM

Current Wellbore Information

TD: 7,050' **PBTD:** 6,850'

Casing Data

Casing	OD	Weight	Grade	Depth Set	TOC
Surface	8-5/8"	24#	J-55	1,500'	Surface
Production	5-1/2"	15 5# &17#	J-55	7,050'	3,300'

Pressure and Dimensional Data

Size	Weight	Grade	Drift	Collapse	Burst	80% Burst
8-5/8"	24#	J-55	7 972	1,370	2,950	2,360
5-1/2"	15.5# &17#	J-55	4.825	4,040	4,810	3,848

Existing Perforations

Perfs	Top Perf	Bottom Perf	Status	Total Holes
Blinebry	5,886'	5,906'	Squeeze Holes	12
Blinebry	6,158'	6,166'	Producing	16
Blinebry	6,176'	6,180'	Producing	8
Blinebry	6,258'	6,268'	Producing	20
Tubb	6,464'	6,579'	Producing	22
Drinkard Upper	6,782'	6,814'	Producing	22
Drinkard Lower	6,861'	6,938'	Abandoned	20

Other In Hole

OIH	Size	Location
Cemented Bridge Plug	5-1/2"	6,850'
CIBP	5-1/2"	7,010'

GL: 3,579' **KB:** 15' **KB Height:** 3,594'

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 (2), 500 barrel, steam cleaned frac tanks. Water requirement is 717 bbls. With 10% overage the requirement is 789 bbls.
3. Rack and tally Oil Dog work string consisting of 229 joints of 2-7/8, 6.5#, J-55 tubing.
4. MIRU workover rig. ND WH. POH w/ pump and rods. NU 5K BOP and test. POH w/ production tubing (laying down).
5. RIH w/ 4-3/4" bit, 6 – 3-1/2" DCs and scraper to 6,850'. Clean out and circulate the 5-1/2" casing with 2% KCL. Pump sweeps as necessary to clean hole. POOH w/ 4-3/4" 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. RIH w/ 5-1/2" CIBP and set @ +/- 5,850' and test casing to 3,800# (4,810 psi * 80% = 3,848 psi) for 15 minutes to test casing integrity. The existing Blinebry, Tubb and Drinkard formations are going to be abandoned.

8. Install 5K lubricator and logging tools. RIH w/ CBL, CCL and GR and log without pressure on the well from 4,300' and log up to 4,000'. Drop back down to the initial depth of 4,300' and log the well to 200' above TOC (estimated to be 3,300') 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.

9. MU HSC Perforating Guns loaded 3 spf w/ 60 degree phasing (23 g minimum charges) and RIH. Correlate to the attached log ran in Step #8 and perforate the Grayburg as follows:

Formation	Interval	SPF	Total Shots
Grayburg	4,126'	3	3
Grayburg	4,122'	3	3
Grayburg	4,119'	3	3
Grayburg	4,117'	3	3
Grayburg	4,109'	3	3
Grayburg	4,106'	3	3
Grayburg	4,104'	3	3
Grayburg	4,100'	3	3
Grayburg	4,098'	3	3
Grayburg	4,096'	3	3
Grayburg	4,091'	3	3
Grayburg	4,088'	3	3
Grayburg	4,082'	3	3
Grayburg	4,080'	3	3
Grayburg	4,072'	3	3
Grayburg	4,070'	3	3
Grayburg	4,062'	3	3
Grayburg	4,059'	3	3
Grayburg	4,054'	3	3
Grayburg	4,051'	3	3
Grayburg	4,049'	3	3
Grayburg	4,046'	3	3
Total	57'		66

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

10. RD 5K Lubricator. RU Cudd and pump a total of 5,000 gallons of 15% NEFE acid dropping 99 perf balls throughout the job. Flush acid to bottom perf w/ 2% KCL. SI and wait 1 hour. See attached acid procedure.

Stg #	Fluid	Stg Type	Cln Vol (bbls)	Cln Vol (gals)	TP Rate (bpm)	Proppant	Cum Diverters	Conc (lb/gal)
1	15% HCL	Acid	119.0	5,000	5.0	Ball Sealers	99	0.02
2	2% KCL Water	Flush	26.2	1,100	5 0		99	0.00

11. RIH w/ gauge ring and junk basket to CIBP @ 5,850' to clear perfs.

12. RU Cudd and frac the Grayburg perfs 4,046' – 4,126' (66 holes). Frac per attached procedure. (5-1/2" 15.5# & 17# J55 Internal Yield = 4,810 psi) Estimated treating pressure is 1,663 psi. Record ISIP-5-10-15 min pressures. RDMO frac equipment.

Stg #	Fluid	Stg Type	Cln Vol (bbls)	Cln Vol (gals)	Trt Rate (bpm)	Proppant	Cum Prop (lbs)	Conc (lb/gal)
1	B Frac 25	Pad	214.3	9,000	30 0		0	0 00
2	B Frac 25	Slurry	71.4	3,000	30.0	20/40 Brown	3,000	1 00
3	B Frac 25	Slurry	71.4	3,000	30.0	20/40 Brown	9,000	2.00
4	B Frac 25	Slurry	71 4	3,000	30 0	20/40 Brown	18,000	3.00
5	B Frac 25	Slurry	71.4	3,000	30.0	20/40 Brown	30,000	4.00
6	B Frac 25	Slurry	23.8	1,000	30 0	20/40 Brown	35,000	5.00
7	B Frac 25	Slurry	71.4	3,000	30.0	20/40 Super LC	50,000	5.00
8	B Frac 25	Flush	96.4	4,050	30.0		50,000	0.00

13. PU 4-3/4" bit, 6 – 3-1/2" DCs and work string and TIH to clean out to CIBP @ 5,850'. Circulate hole clean with 2% KCL water. POH.

14. TIH with production tubing and SN. Set seat nipple at 4,176' (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