UNITED STATES **OCD-ARTESIA**
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM APPROVED
OMB No 1004-0137
Expires March 31, 2007**SUNDRY NOTICES AND REPORTS ON WELLS**
Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.5 Lease Serial No
NMNM 23414

6. If Indian, Allottee or Tribe Name

AUG 02 2007
OCD-ARTESIA**SUBMIT IN TRIPLICATE – Other instructions on page 2.**

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other

2 Name of Operator

CHESAPEAKE OPERATING, INC.

ATTN: LINDA GOOD

3a Address

P O BOX 18496
OKLAHOMA CITY, OK 73154-0496

3b Phone No. (include area code)

405-767-4275

7 If Unit of CA/Agreement, Name and/or No

8. Well Name and No.
EMPIRE SOUTH DEEP UNIT 29 API Well No.
30-015-2058410. Field and Pool or Exploratory Area
EMPIRE SOUTH

4 Location of Well (Footage, Sec., T, R, M, or Survey Description)

1980' FSL & 1900' FWL, NESW, SECTION 6, T18S, R29E

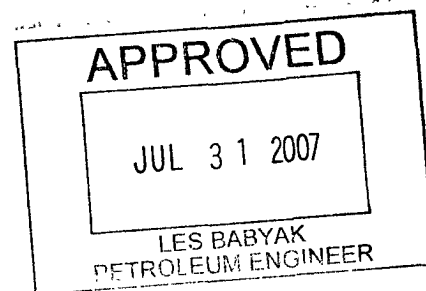
11. Country or Parish, State
EDDY CO., NM

12 CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input checked="" type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other Workover Wolfcamp and Strawn
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13 Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.)

Chesapeake, respectfully, request permission to workover this well per the attached recompleat procedure.



(CHK PN 890426)

14 I hereby certify that the foregoing is true and correct

Name (Printed/Typed)
LINDA GOOD

Title FEDERAL REGULATORY ANALYST

Signature

Date 07/25/2007

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Title

Date

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)

**Empire SDU #2
Re-Complete to Strawn/Wolfcamp
Eddy County, New Mexico**

GENERAL INFORMATION

Location: 1980' FSL & 1900' FWL, Sec 6 – T18S – R29E

API No.: 30-015-20584

WELL INFORMATION

<u>String OD</u>	<u>Weight & Grade</u>	<u>Depth</u>	<u>ID</u>	<u>Drift</u>	<u>Burst</u>	<u>TOC</u>
12-3/4"	35#	0' – 318'	~12.000"	~12.000"	~1730	0'
8-5/8"	24/32#	0' – 4500'	7.921"	7.796"	2950	2410'
4-1/2"	11.6#	0' – 10992'	4.000"	3.875"	5350	8521'

Perfs: Morrow 10814 – 10890' (OA)

TD/PBTD: 10992' / 10850'

Recommended Strawn Perfs: 10167-10190'

Recommended Wolfcamp Perfs: 8060-8220' (OA)

WORKOVER PROCEDURE

1. MIRU Service Rig and requisite equipment. Kill well as required with 7% KCL. NDWH, NU BOP. Release packer and POOH with packer and 2-3/8" tubing.
2. MIRU Wireline Service Company. Run a strip log and correlate depth with attached OH log to set a 4-1/2" CIBP at +/- 10760'. Bail 2 sx (35' minimum) of cement on 4-1/2" plug.
3. Load hole with 2% KCL brine and pressure test to 1000#.
4. RU lubricator and RIH with casing gun. Perforate the Strawn with 2 spf, 120 degree phasing, 23 gram charge, 0.37" holes from 10167-90'.
5. RIH with 4-1/2" treating packer and SN on 2-3/8" tubing. Pressure test tubing in hole. Space out with EOT at 10190'.
6. RU Acid Service Company. Spot 200 gal of 15% HCL Acid containing 4 gpt of iron control, 1 gpt each of corrosion inhibitor, surface tension reducer, and non-emulsifier. Pull packer to 10117'. Reverse circulate to ensure packer is clear of acid, set packer. Pressure test annulus to 1000#.
7. ND BOP. NU tree. Pressure annulus to 1000 psi. Displace spot acid, establish rate of 4 to 5 BPM with 2% KCL. (Keep KCL water usage to a minimum). Acidize with 1,300 gal of same acid. Displace with 2% KCL. Do not over-displace. Pump at 4 to 5 BPM max. Launch 50 ball sealers during job. Note rates and pressures. Note ISIP. Max pressure 6000#.
8. Flow/swab back job. Swab/flow test zone.

9. Re-treat as warranted. Pressure backside to 1000# and re-treat with 5000 gal 20% Ultragel.
10. Flow back job. Swab to clean up and test.
11. Put well to sales. RDMO.
12. If Strawn is not economical, prep to test Wolfcamp. MIRU Service Rig and requisite equipment. Kill well as required with 7% KCL. NDWH, NU BOP. Release packer and POOH with packer and 2-3/8" tubing.
13. MIRU Wireline Service Company. Run a strip log and correlate depth with attached OH log to set a 4-1/2" CIBP at +/- 10117'. Bail 2 sx (35' minimum) of cement on 4-1/2" plug.
14. Load hole with 2% KCL brine and pressure test to 1000#.
15. Shoot two squeeze holes at 8370'. Set a cement retainer at 8320'. RDMO Wireline Service Company.
16. RIH with 2-3/8" tubing. Sting into retainer. Pressure annulus to 1000#. Break/establish circulation up 4-1/2" x 8-5/8" annulus with 2% KCL brine water. Pump 15 bbl of mud sweep and cement with 150 sx plus additives per squeeze recommendation. Sting out of retainer, reverse clean, and POOH with tubing.
17. Run temperature log to establish TOC. WOC overnight.
18. RU lubricator and RIH with casing gun. Perforate the Wolfcamp with 2 spf, 120 degree phasing, 23 gram charge, 0.37" holes from 8060-66', 8077-84', 8169-84', and 8191-220' (118 holes).
19. RIH with 4-1/2" treating packer and SN on 2-3/8" tubing. Space out with EOT at 8220'.
20. RU Acid Service Company. Spot 200 gal of 15% HCL Acid containing 4 gpt of iron control, 1 gpt each of corrosion inhibitor, surface tension reducer, and non-emulsifier. Pull packer to 8010'. Reverse circulate to ensure packer is clear of acid, set packer. Pressure test annulus to 1000#.
21. ND BOP. NU tree. Pressure annulus to 1000 psi. Displace spot acid, establish rate of 4 to 5 BPM with 2% KCL. (Keep KCL water usage to a minimum). Acidize with 1,300 gal of same acid. Displace with 2% KCL. Do not over-displace. Pump at 4 to 5 BPM max. Launch 130 ball sealers during job. Note rates and pressures. Note ISIP. Max pressure 6000#.
22. Flow/swab back job. Swab/flow test zone.
23. Re-treat as warranted. Pressure backside to 1000# and re-treat as follows:
 - a. 1500 gal 20% NEFE Acid.
 - b. 3000 gal 20% Ultragel.
 - c. 1000 gal 20% gelled NEFE.
 - d. 4000 gal 20% Ultragel.
 - e. 500 gal 20% gelled NEFE. Overdisplace by 50 bbls of 2% KCL. Treat via 2-3/8" production tubing at 5 to 6 BPM.

24. Flow back job. Swab to clean up and test.
25. Put well on pump as required. POOH with tubing and packer.
26. RIH with MA, PS, SN, TAC (at ~7800') and 2-3/8" tubing. Space out and land SN at ~8230'.
27. Swab to clean up as required.
28. Set 640 PU. RIH with 1-1/2" pump and a high strength tapered rod string. Run pump, 350' of 1-1/2" sinker bars, 189 – 3/4", and 126 – 7/8". Space out/seat pump. Load and test. PWOP at 6 SPM, 144" SL.
29. Put well to sales. RDMO.