

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
May 27, 2004

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

SEP 13 2007

OCD-ARTESIA

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. 2010 Rankin Hwy Midland, TX 79701		² OGRID Number 147179
³ Property Code 35956		⁴ Property Name Hayhurst 16 State
⁵ Proposed Pool 1 Hay Hollow, Wolfcamp, West		⁶ Well No 1
⁷ Surface Location		⁸ Proposed Pool 2

UL or lot no P	Section 16	Township 25S	Range 27E	Lot Idn	Feet from the 660	North/South line South	Feet from the 660	East/Westline East	County Eddy
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⁸ Proposed Bottom Hole Location If Different From Surface

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Additional Well Information

¹¹ Work Type Code E	¹² Well Type Code G	¹³ Cable/Rotary R	¹⁴ Lease Type Code S	¹⁵ Ground Level Elevation 3134 GR
¹⁶ Multiple	¹⁷ Proposed Depth 10400	¹⁸ Formation Bone Spring	¹⁹ Contractor	²⁰ Spud Date 09/20/2007
Depth to Groundwater 60		Distance from nearest fresh water well 1000		Distance from nearest surface water 1000
Pit: Liner Synthetic ☐ milst thick Clay ☐ Pit Volume: _____ bbls Drilling Method: _____				
Closed-Loop System ☒ Fresh Water ☒ Brine ☐ Diesel/Oil-based ☐ Gas/Air ☐				

²¹ Proposed 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	460	390 CL C	0
12 1/4	9 5/8	40	2100	690 CL C	0
8 3/4	7	32	8900	CL H	6900
7 1/4	4 1/2	13.5	13100	CL C	8600

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, respectfully, request permission to re-enter this well per the attached procedure.

²³ I hereby certify that the information given above is true and complete to the best of my knowledge and belief. I further certify that the drilling pit will be constructed according to NMOCD guidelines ☐, a general permit ☒, or an (attached) alternative OCD-approved plan ☐.

Printed name Shay Stricklin

Title Regulatory Tech.

E-mail Address: sstricklin@chkenergy.com

Date: 09/12/2007

Phone (432)687-2992

OIL CONSERVATION DIVISION

Approved by

BRYAN G. ARRANT
DISTRICT II GEOLOGIST

Title:

Approval SEP-18 2007

Expiration

SEP 18 2008

Conditions of Approval Attached ☐

Hayhurst 16 State 1
Lea County, New Mexico
Wolfcamp Shale Recompletion Procedure

Date: September 7, 2007

Location: 660' FSL & 660' FEL Sec. 16-T25S-R27E

Production Casing: 4 1/2" 13.5# P-110 LT&C, 0-10,400', ID-3.920", Drift-3.795", Burst-12,410#

PBTD/TD: 10,312' / 10,500'

Current Perfs: Wolfcamp Lime 10,196-10,256'

Proposed Perfs: Wolfcamp Shale 9,506-9,768'

Recommended Procedure:

1. MIRU PU. NDWH/NUBOP. Release packer and POH tbg and packer.
2. RU wireline co. RIH w/ junk basket and gage ring to 10,200' (Note: TCP guns still in hole). RIH w/ CIBP and set at 10,150'. Dump 2 sxs of cement on top of CIBP. Pressure test CIBP to 2000 psi.
3. Perforate Wolfcamp shale w/ 6 spf, 60 degree phasing using casing gun as follows:
 - 9506-08' (2' - 12 holes)
 - 9622-24' (2' - 12 holes)
 - 9685-87' (2' - 12 holes)
 - 9765-67' (2' - 12 holes) (Total 8' - 48 holes)
4. RU frac co. Frac Wolfcamp Shale per frac recommendation
(Anticipate 5,000 gal acid, 800,000 gal slick water, 200,000# sand, 75 BPM).
5. RIH w/ slick line and check for fill.
6. RIH w/ packer, profile nipple, on/off tool on 2 3/8" tbg. Swab back frac and test.
7. NDBOP/NUWH. Place well on line. RD MO.



Current Wellbore Schematic

HAYHURST 16 STATE 1

Field: Southeast Eddy Project
County: EDDY
State: NEW MEXICO
Elevation: GL 3,134.00 KB 3,154.00
KB Height: 20.00

Location: 660.0 ft FSL & 660.0 ft FEL - Section 16 - 025S - 027E

Spud Date: 1/1/2007
Initial Compl. Date:
API #: 3001535114
CHK Property #: 611702
1st Prod Date:
PBDT: Original Hole - 10311.6
TD: 10,500.0

Well Config: - Original Hole, 9/10/2007, 8:14:42 AM

Schematic - Actual

Well History

Date	Event
4/2/2007	Tubing - Production set at 10,256.8ftKB on 4/2/2007 00 00
4/24/2007	Tubing - Production set at 10,256.8ftKB on 4/24/2007 00.00

