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

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

Form C-101
May 27, 2004

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. 2010 Rankin Hwy Midland, TX 79701	147179
	[3] API Number 30-015-22458

[3] Property Code	[5] Property Name	[6] Well No.
	Turkey Track State Com	2

[9] Proposed Pool 1	[10] Proposed Pool 2
Turkey Track; Morrow, North 86519	

[7] Surface Location

UL or lot no	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
F	25	18S	28E		2030	North	1980	West	Eddy

[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
F	25	18S	28E		2030	North	1980	West	Eddy

Additional Well Information

[11] Work Type Code	[12] Well Type Code	[13] Cable/Rotary	[14] Lease Type Code	[15] Ground Level Elevation
P	G		S	3453.5 GR
[16] Multiple	**[17] Proposed Depth**	**[18] Formation**	**[19] Contractor**	**[20] Spud Date**
NO	11230	Wolfcamp		02/24/2007

Depth to Groundwater	Distance from nearest fresh water well	Distance from nearest surface water
65	1000	1000

Pit. Liner: Synthetic ☒ 12 mils thick Clay ☐ Pit Volume: 12129 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 & 56.6#	412	500 sx Cl C	
12-1/4	9-5/8	36#	3237	900 sx Cl C	
8-1/4	4-1/2	11.6#	11227	950 sx Halb Lite	

[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 plug back to the Wolfcamp zone per the attached procedure.

NSL required To produce

[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: 01/25/2007 Phone: (432)687-2992

OIL CONSERVATION DIVISION

Approved by: BRYAN G. ARRANT

Title: DISTRICT II GEOLOGIST

Approval Date: DEC 18 2007 Expiration Date: DEC 18 2008

Conditions of Approval Attached ☑

a) 1500 gal 20% NeFe Acid.
b) 3000 gal of 20% Ultragel.
c) 1000 gal 20% gelled NeFe.
d) 4000 gal of 20% Ultragel.
e) 500 gal of 20% gelled NeFe. Over-displace by 25 bbl of 2% KCL.

Treat via 2-3/8" production tubing at 5 - 6 BPM. Max pressure 8000#.

10. Flow back job. Swab to clean up and test. Put well to sales.

11. If zone is not commercial, proceed to Wolfcamp completion.

Wolfcamp Re-Completion Procedure

12. Kill well as required with 2% KCL. NDWH, NU BOP. Release Arrowset and POOH with 2-3/8" N80 tubing.

13. MIRU Wireline Service Unit. Set a 4-1/2" CIBP at 9890'. Bail 2 sx of cement on plug.

14. Load hole with 2% KCL and pressure test casing/plug to 1500#.

15. RIH w/ casing gun. Perforate the Wolfcamp w/ 4 SPF, 23 gram charge, .37" holes, 90 deg. phasing, from 8570' - 74' (17 holes). Correlate to same CBL.

16. RIH w/ treating packer as follows: Re-entry guide, 4' sub, 'XN' nipple, 10' sub, Arrow Set packer, on/off tool w/ 'X' profile nipple. Space out with the EOT at 8574'.

17. 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 ~8520'. Reverse circulate to ensure packer is clear of acid, set packer. Pressure test annulus to 1000#.

18. ND BOP. NU tree. Pressure annulus to 1000 psi. Displace spot acid, establish rate of 2 to 3 BPM w/ 2% KCL. (Keep KCL water usage to a minimum). Acidize w/ 800 gal of same acid. Displace w/ 2% KCL. Do not over-displace. Pump at 3 BPM max. Note rates and pressures. Note ISIP. Max pressure 4000#. Note that zone is near TOC per bond log.

19. Flow/swab back job. Swab/flow test zone.

20. Re-treat as warranted if zone appears commercial. Treat zone with 2000 gal of 20% Gelled Acid containing 4 GPT iron control, 2 GPT of corrosion inhibitor, and 2 GPT of non-emulsifier. Pump at ~ 3 BPM, over-displace with 15 bbl of 2% KCL.

21. Flow back job. Swab to clean up and test.

22. Put well to sales. RDMO.

Arrant, Bryan, EMNRD

From: Arrant, Bryan, EMNRD
Sent: Wednesday, January 31, 2007 3:15 PM
To: 'sstricklin@chkenergy.com'
Subject: Turkey Track State com. # 2

Dear Shay,
For the above noted well (in order for further review) please submit the following:

A before and after well bore diagram.
New Mexico Oil Conservation Division (NMOCD) form C-101 for the recompletion to the Strawn formation.
NMOCD current form C-102 for the Strawn formation, completely filled out. You may note: "Refer to original plat" where the surveyor certification area is located.
NMOCD current form C-102 for the Wolfcamp formation, completely filled out. You may note: "Refer to original plat" where the surveyor certification area is located.
Does this area meet the requirements of NMOCD Rule 118? If so, please submit a detailed h2S well contingency plan.
If not, please submit a letter of statement.
Please note the NSL number for the recompletion to both formations of this non-standard gas well location.

Feel free to call if you have any questions,

Bryan. G Arrant
505-748-1283 ext. 103

Turkey Track State Com #2
Test Strawn and Wolfcamp
Eddy County, New Mexico

January 23, 2007

GENERAL INFORMATION

Location: 2030' FNL & 1980' FWL, S25 – T18S – R28E
API No.: 30-015-22458

WELL INFORMATION

String OD	Weight & Grade	Depth	ID	Drift	Burst	TOC
9-5/8"	36# J55 LTC	0' - 3237'	8.921"	8.765"	3520	0'
4-1/2"	11.6# N80/S95	0' - 11227'	4.0"	3.875"	7780	~4000'

Morrow Perfs 10592 – 764' (OA)

TD/PBTD: 11230'/ 10820'

Recommended Perforations

Strawn 9930 – 52'
Wolfcamp 8570 – 74'

Strawn Re-Completion Procedure

1. Kill well as required with 2% KCL. NDWH, NU BOP. Release Arrow Set and POOH with 2-3/8" N80 tubing.

2. RU wireline unit and lubricator. Correlate to CBL dated 7/19/78 and set a CIBP at 10520'. Bail 1 sx of cement on plug.

3. RIH with open-ended tubing to PBTD. Pressure test tubing in hole. Displace hole clean with 2% KCL. Load and test casing to 1000#. POOH with tubing.

4. RU 5K lubricator and RIH w/ 3-1/8" HSD casing gun. Perforate the Strawn w/ 2 SPF, 120 degree phasing, 23 gram charge, .42" holes from 9930 – 52' (45 holes). Correlate to same CBL.

5. RIH w/ 4-1/2" Arrow-Set packer on 2-3/8" tubing as follows: Re-entry guide, 4' sub, 'XN' nipple, 10' sub, Arrow Set packer, on/off tool w/ 'X' profile nipple. Space out with the EOT at 9952'.

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 ~ 9880'. Reverse circulate excess acid into tubing, set packer. Pressure test annulus to 1000#.

7. ND BOP. NU tree. Pressure annulus to 1000 psi. Displace spot acid, establish rate of 3 to 4 BPM w/ 7% KCL. (Keep KCL water usage to a minimum). Acidize w/ 1,300 gal of same acid. Displace w/ 7% KCL. Do not over-displace. Do not over flush. Pump at 3 to 4 BPM max. Launch 50 ball sealers during job. Note rates and pressures. Note ISIP. Max pressure 8000#. Surge off balls as required.

8. Flow/swab back job. Swab/flow test zone.

9. Should zone appear commercial based upon flow testing and diagnostics, re-treat zone as warranted. Pressure backside to 1500# and retreat as follows:

Turkey Track State Com #2
Eddy County, New Mexico

GENERAL INFORMATION

Location: 2030' FNL & 1980' FWL, S25 – T18S – R28E
API No.: 30-015-22458

WELL INFORMATION

String OD	Weight & Grade	Depth	ID	Drift	Burst	TOC
9-5/8"	36# J55 LTC	0' - 3237'	8.921"	8.765"	3520	0'
4-1/2"	11.6# N80/S95	0' - 11227'	4.0"	3.875"	7780	~4000'

Morrow Perfs 10868 – 82'

TD/PBTD: 11230'/ 11187'

Recommended Perforations

Morrow 10592 – 96', 10666 – 70', 10722 – 28', 10760 – 64'

Re - Completion Procedure

1. MIRU Service Rig and requisite equipment. NU BOP. Kill well if required with 7% KCL.
2. Release Lok-Set. POOH with tubing and packer.
3. RU wireline unit and lubricator. Correlate to CBL dated 7/19/78 and set a CIBP at 10820'. Bail 1 sx of cement on plug.
4. RIH with open-ended tubing to PBTD. Pressure test tubing in hole. Displace hole clean with 7% KCL. Load and test casing to 1000#. POOH with tubing.
5. RU 5K lubricator and RIH w/ 3-1/8" HSD casing gun. Perforate the Morrow w/ 2 SPF, 120 degree phasing, 23 gram charge, .42" holes from 10760 – 64' (8 holes), 10722 – 28' (12 holes), 10666 – 70' (8 holes), and 10592 – 96' (8 holes). Correlate to same CBL.
6. RIH w/ 4-1/2" Arrow-Set packer on 2-3/8" tubing as follows: Re-entry guide, 4' sub, 'XN' nipple, 10' sub, Arrow Set packer, on/off tool w/ 'X' profile nipple. Space out with the EOT at 10764'.
7. RU Acid Service Company. Spot 200 gal of 7-1/2% HCL Acid containing 200 gpt methanol, 4 gpt of iron control, 1 gpt each of corrosion inhibitor, surface tension reducer, and non-emulsifier. Pull packer to ~ 10550'. Reverse circulate excess acid into tubing, set packer. Pressure test annulus to 1000#.
8. ND BOP. NU tree. Pressure annulus to 1000 psi. Displace spot acid, establish rate of 3 to 4 BPM w/ 7% KCL. (Keep KCL water usage to a minimum). Acidize w/ 1,300 gal of same acid. Displace w/ 7% KCL. Do not over-displace. Do not over flush. Pump at 3 to 4 BPM max. Launch 45 ball sealers during job. Note rates and pressures. Note ISIP. Max pressure 8000#. Surge off balls as required.
9. Swab/flow test zone. Put well on line. RDMO.

Note: No frac anticipated. But, as warranted by flow tests and/or other diagnostics, frac may occur at a future date following necessary approvals.