

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

RECEIVED
MAY 30 2006
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. P. O. Box 11050 Midland, TX 79702-8050		² OGRID Number 147179
³ Property Code 26029-300033		⁴ Property Name Teledyne "17"
⁵ Proposed Pool 1 Harrison Ranch, Delaware		⁶ Well No. 1
⁷ Surface Location		⁸ Proposed Pool 2

UL or lot no. N	Section 17	Township 23S	Range 29E	Lot Idn	Feet from the 660	North/South line South	Feet from the 1980	East/Westline West	County Eddy
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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/Westline	County
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Additional Well Information

¹¹ Work Type Code Plug Back	¹² Well Type Code Oil	¹³ Cable/Rotary	¹⁴ Lease Type Code Private	¹⁵ Ground Level Elevation 2970 GR
¹⁶ Multiple	¹⁷ Proposed Depth 7515	¹⁸ Formation Brushy Canyon	¹⁹ Contractor Unknown	²⁰ Spud Date 06/01/2006
Depth to Groundwater 100		Distance from nearest fresh water well 1000		Distance from nearest surface water 1000
Pit: Liner: Synthetic <input type="checkbox"/> milst thick Clay <input type="checkbox"/> Pit Volume: _____ bbls Drilling Method: _____ Closed-Loop System <input type="checkbox"/> Fresh Water <input type="checkbox"/> Brine <input type="checkbox"/> Diesel/Oil-based <input type="checkbox"/> Gas/Air <input type="checkbox"/>				

²¹ Proposed Casing and Cement Program

Hole Size	Casing Size	Casing weight/foot	Setting Depth	Sacks of Cement	Estimated TOC
Existing	16		403	500	0
Existing	10.75		3589	2600	0
Existing	7.625		11404	2050 sx	
Existing	5		13352	300sx	

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.

We propose to set a CIBP @ 7550' capped w/35' of cement. A copy of the recompletion procedure is attached. We will NOT use a pit for this plug back.

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: Brenda Coffman
Title: Regulatory Analyst

E-mail Address: bcoffman@chkenergy.com

Date: 05/26/2006

Phone: (432)687-2992

OIL CONSERVATION DIVISION

Approved by:

BRYAN G. ARRAÑT

Title:

DISTRICT II GEOLOGIST

Approval Date: JUN 06 2006

Expiration Date: JUN 06 2007

Conditions of Approval Attached ☐

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

Form C-102
Revised October 12, 2005
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

'API Number 30-015-22553		'Pool Code 30212		'Pool Name Harron Ranch De la Torre	
'Property Code 26029		'Property Name Teledyne "17"			'Well Number 1
'OGRID No. 147179		'Operator Name Chesapeake Operating Inc.			'Elevation 2970

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
N	17	23S	29E		660	South	1980	West	Eddy

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
"Dedicated Acres 40		"Joint or Infill		"Consolidation Code		"Order No.			

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.

					<p>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.</p> <p><i>Brenda Coffman</i> 5/26/2006 Signature Date</p> <p>Brenda Coffman Printed Name</p>	
						<p>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.</p> <p>Date of Survey Signature and Seal of Professional Surveyor:</p> <p>Certificate Number</p>

Teledyne 17 #1
Plug Back to Delaware
Eddy County, New Mexico

GENERAL INFORMATION

Location: 660' FSL & 1980' FWL, Sec 17 – T23S – R29E

API No.: 30-015-22553

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>
16"	65# H40	0' – 403'	15.250"	15.062"	1640	0'
10-3/4"	40.5# K55	0' - 3584'	10.050"	9.894"	3130	0'
7-5/8"	33.7 - 39# S95	0' - 11404'	6.625"	6.500"	9380	2365'

Perforations: Bone Spring 7600 – 04'

TD/PBTD: 13352'/10040'

Recommended Perforations

Delaware (Lower Brushy Canyon) 6428 – 35'

Re-Completion Procedure

1. MIRU Service Rig and requisite equipment. NU BOP. POOH with 2-7/8" tubing.
2. MIRU Wireline Service Unit. Run a gauge ring in and out to 7550'. Set a CIBP at 7550'. Bail 35' of cement on plug.
3. Load hole with lease brine and pressure test to 2500#.
4. Run strip log and correlate to OH Den/Neutron log dated 7/20/78. RU lubricator and RIH w/ 3-3/8" HSD casing gun. Perforate the Brushy Canyon w/ 4 SPF, 90 degree phasing, 23 gram charge, .37" holes from 6428 – 35' (29 holes).
5. RIH with treating packer/SN and 2-7/8" 6.5# N80 tubing. Pressure test in hole. Space out with the EOT at 6435'.
6. RU Acid Service Company. Spot 200 gal of 7-1/2% HCL Acid containing 4 gpt of iron control, 1 gpt each of corrosion inhibitor, surface tension reducer, and non-emulsifier. Pull packer to ~ 6385'. 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/ 2% KCL. (Keep KCL water usage to a minimum). Acidize w/ 1,300 gal of same acid. Displace w/ 2% KCL. Do not over-displace. Pump at 3 to 4 BPM max. Launch 40 ball sealers during job. Note rates and pressures. Note ISIP. Max pressure 4000#.
8. Flow/swab back job. Swab test zone.
9. Prep to frac. Kill well with 2% KCL if required. NU frac valve. MIRU Frac Service Company. Pressure annulus to 1000#. Tie on to tubing and establish rate w/ 10,000 gallon pad of 30# XL gel pad containing additives per frac schedule. Frac per frac schedule ramping 16/30 Ottawa from a 1/4 lb/gal scour to 6 #/gal of resin coat at tail of job in a 30# XL gel. Total sand 40000 lb of 16/30, 10000 lb of 16/30 resin

coat. Obtain rates approaching 12 - 15 BPM, max pr 4000#. Cut resin activator in last tub of sand. Displace to top perf with slickwater. Anticipated treating pressure ~3000#.

10. Obtain 5, 10, and 15 min SI data. RDMO Frac Service Company. Wait on frac overnight.
11. Flow back job. Swab to clean up and test.
12. ND tree, NU BOP. POOH with tubing and packer.
13. RIH w/ MA, PS, SN, TAC (at ~ 6100') and 2-7/8" tubing. Space out and land SN ~6450'. Swab to clean up.
14. RIH w/ 1-1/2" pump and a high strength tapered rod string. Run pump, 300' of 1-1/2" sinker bars, 144 – 3/4", and 101 – 7/8". Space out/seat pump. Load and test. PWOP.