

Office  
 District I – (575) 393-6161  
 1625 N. French Dr., Hobbs, NM 88240  
 District II – (575) 748-1283  
 811 S. First St., Artesia, NM 88210  
 District III – (505) 334-6178  
 1000 Rio Brazos Rd., Aztec, NM 87410  
 District IV – (505) 476-3460  
 1220 S. St. Francis Dr., Santa Fe, NM  
 87505

State of New Mexico  
 Energy, Minerals and Natural Resources

Form C-103  
 Revised July 18, 2013

OIL CONSERVATION DIVISION  
 1220 South St. Francis Dr.  
 Santa Fe, NM 87505

WELL API NO. <b>30-015 -30485</b>
5. Indicate Type of Lease STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>
6. State Oil & Gas Lease No.
7. Lease Name or Unit Agreement Name <b>MERPHAN 16 STATE</b>
8. Well Number <b>1</b>
9. OGRID Number <b>7377</b>
10. Pool name or Wildcat <b>PURPLE SAGE; WOLFCAMP (GAS)</b>

<b>SUNDRY NOTICES AND REPORTS ON WELLS</b> (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)	
1. Type of Well: Oil Well <input type="checkbox"/> Gas Well <input checked="" type="checkbox"/> Other	
2. Name of Operator <b>EOG RESOURCES INC</b>	
3. Address of Operator <b>PO BOX 2267 MIDLAND, TX 79702</b>	
4. Well Location Unit Letter <b>E</b> : <b>1800</b> feet from the <b>NORTH</b> line and <b>810'</b> feet from the <b>WEST</b> line Section <b>16</b> Township <b>26S</b> Range <b>31E</b> NMPM County <b>EDDY</b>	
11. Elevation (Show whether DR, RKB, RT, GR, etc.) <b>3212' GR</b>	

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:	SUBSEQUENT REPORT OF:
PERFORM REMEDIAL WORK <input type="checkbox"/>	REMEDIAL WORK <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	COMMENCE DRILLING OPNS. <input type="checkbox"/>
DOWNHOLE COMMINGLE <input type="checkbox"/>	P AND A <input type="checkbox"/>
CLOSED-LOOP SYSTEM <input type="checkbox"/>	CASING/CEMENT JOB <input type="checkbox"/>
OTHER: <input type="checkbox"/>	OTHER: <input type="checkbox"/>

Notify OCD 24 hrs. prior to any work done

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

EOG PROPOSES TO PLUG AND ABANDON THIS WELL USING THE ATTACHED PROCEDURE.  
 CURRENT AND PROPOSED WELLBORES SCHEMATICS ARE ALSO ATTACHED

Spud Date:

11/27/1998

Rig Release Date:

01/28/1999

\*\*\*\*SEE ATTACHED COA's\*\*\*\*

MUST BE PLUGGED BY 10/17/2023

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE Kay Maddox TITLE Regulatory Specialist DATE 10/14/2022

Type or print name Kay Maddox E-mail address: kay\_maddox@eogresources.com PHONE: 432-638-8475

**For State Use Only**

APPROVED BY: [Signature] TITLE Staff Manager DATE 10/17/22  
 Conditions of Approval (if any):



Merphan 16 State #1 – P&A Procedure

E-16-26S-31E

API # 30-015-30485

**Run CBL**

1. Notify Regulatory Agency 24 hours prior to commencing work. MIRU well service unit and all necessary safety equipment.
2. ND WH, NU BOP.
3. RIH, set 4.5" CIBP at 12560. TAG. Pressure test CIBP to 500psi for 30 minutes.
4. Circulate plugging mud and spot 25 sx class H on top of CIBP (12560 to 12220)
5. RIH, set 7.0" CIBP at 11430. TAG. Pressure test CIBP to 500psi for 30 minutes.
6. Spot 45 sx Class H on top of CIBP (11430 to 11180).
7. Pick up, perf @ 8180 and squeeze and balance w/ 76sx Class H as part of Bone Spring Formation Top and 3000 cased hole spacing regulation. 8180 to 7767. WOC & TAG.
8. Pick up, perf @ 7470 and squeeze and balance w/ 41sx Class C as part of TOC requirements. 7470 to 7220. WOC & TAG.
9. Pick up, perf @ 4220 and squeeze and balance w/ 41sx Class C to satisfy the 3000 cased hole spacing regulation. 4220 to 3970. WOC & TAG.
10. Pick up, perf @ 4044 and squeeze and balance w/ 41 sx Class C as part -50' below intermediate shoe. 4044 to 3794. WOC and TAG.
11. Pick up, perf @ 794 and squeeze and balance w/ 41sx Class C to satisfy the 3000 cased hole spacing regulation. 794 to 544. WOC & TAG.
12. Pick up, perf @ 415 and squeeze and balance w/ 68 sx Class C as part of -50' below surface shoe. 415 to 0.
13. Cut off WH 3' below surface, verify cement to surface, and weld on below ground P&A marker.
14. Cut off anchors 3' below surface and clean location.

## CONDITIONS FOR PLUGGING AND ABANDONMENT

### OCD - Southern District

The following is a guide or checklist in preparation of a plugging program, this is not all inclusive and care must be exercised in establishing special plugging programs in unique and unusual cases, **Notify NMOCD District Office II at (575)-748-1283 at least 24 hours before beginning work. After MIRU rig will remain on well until it is plugged to surface. OCD is to be notified before rig down. Company representative will be on location during plugging procedures.**

1. A notice of intent to plug and abandon a wellbore is required to be approved before plugging operations are conducted. A cement evaluation tool is required in order to ensure isolation of producing formations, protection of water and correlative rights. A cement bond log or other accepted cement evaluation tool is to be provided to the division for evaluation if one has not been previously run or if the well did not have cement circulated to surface during the original casing cementing job or subsequent cementing jobs. Insure all bradenheads have been exposed, identified and valves are operational prior to rig up.
2. Closed loop system is to be used for entire plugging operation. Upon completion, contents of steel pits are to be hauled to a permitted disposal location.
3. Trucking companies being used to haul oilfield waste fluids to a disposal – commercial or private – shall have an approved NMOCD C-133 permit. A copy of this permit shall be available in each truck used to haul waste products. It is the responsibility of the operator as well as the contractor, to verify that this permit is in place prior to performing work. Drivers shall be able to produce a copy upon request of an NMOCD Field inspector.
4. Filing a subsequent C-103 will serve as notification that the well has been plugged.
5. A final C-103 shall be filed (and a site inspection by NMOCD Inspector to determine if the location is satisfactorily cleaned, all equipment, electric poles and trash has been removed to Meet NMOCD standards) before bonding can be released.
6. If work has not begun within 1 Year of the approval of this procedure, an extension request must be file stating the reason the well has not been plugged.
7. Squeeze pressures are not to exceed 500 psi, unless approval is given by NMOCD.
8. Produced water **will not** be used during any part of the plugging operation.
9. Mud laden fluids must be placed between all cement plugs mixed at 25 sacks per 100 bbls of water.
10. All cement plugs will be a minimum of 100' in length or a minimum of 25 sacks of cement, whichever is greater. 50' of calculated cement excess required for inside casing plugs and 100% calculated cement excess required on outside casing plugs.
11. Class 'C' cement will be used above 7500 feet.
12. Class 'H' cement will be used below 7500 feet.
13. A cement plug is required to be set 50' above and 50' below, casing stubs, DV tools, attempted casing cut offs, cement tops outside casing, salt sections and anywhere the casing is perforated, these plugs require a 4 hour WOC and then will be tagged
14. All Casing Shoes Will Be Perforated 50' below shoe depth and Attempted to be Squeezed, cement needs to be 50' above and 50' Below Casing Shoe inside the Production Casing.

16. When setting the top out cement plug in production, intermediate and surface casing, wellbores should remain full at least 30 minutes after plugs are set
17. A CIBP is to be set within 100' of production perforations, capped with 100' of cement, WOC 4 hours and tag.
18. A CIBP with 35' of cement may be used in lieu of the 100' plug if set with a bailer. This plug will be placed within 100' of the top perforation, (WOC 4 hrs and tag).
19. No more than 3000' is allowed between cement plugs in cased hole and 2000' in open hole.
20. Some of the Formations to be isolated with cement plugs are: These plugs to be set to isolate formation tops
  - A) Fusselman
  - B) Devonian
  - C) Morrow
  - D) Wolfcamp
  - E) Bone Springs
  - F) Delaware
  - G) Any salt sections
  - H) Abo
  - I) Glorieta
  - J) Yates.
  - K) Potash---(In the R-111-P Area (Page 3 & 4), a solid cement plug must be set across the salt section. Fluid used to mix the cement shall be saturated with the salts that are common to the section penetrated and in suitable proportions, not more than 3% calcium chloride (by weight of cement) will be considered the desired mixture whenever possible, WOC 4 hours and tag, this plug will be 50' below the bottom and 50' above the top of the Formation.
21. If cement does not exist behind casing strings at recommended formation depths, the casing can be cut and pulled with plugs set at recommended depths. If casing is not pulled, perforations will be shot and cement squeezed behind casing, WOC and tagged. These plugs will be set 50' below formation bottom to 50' above formation top inside the casing

#### DRY HOLE MARKER REQUIREMENTS

The operator shall mark the exact location of the plugged and abandoned well with a steel marker not less than four inches in diameter, 3' below ground level with a plate of at least ¼" welded to the top of the casing and the dry hole marker welded on the plate with the following information welded on the dry hole marker:

**1. Operator name   2. Lease and Well Number   3. API Number   4. Unit Letter   5. Quarter Section (feet from the North, South, East or West)   6. Section, Township and Range   7. Plugging Date   8. County   (SPECIAL CASES)-----AGRICULTURE OR PRARIE CHICKEN BREEDING AREAS**

In these areas, a below ground marker is required with all pertinent information mentioned above on a plate, set 3' below ground level, a picture of the plate will be supplied to NMOCD for record, the exact location of the marker (longitude and latitude by GPS) will be provided to NMOCD (We typically require a current survey to verify the GPS)

#### SITE REMEDIATION DUE WITHIN ONE YEAR OF WELL PLUGGING COMPLETION

## R-111-P Area

### T 18S – R 30E

Sec 10 Unit P. Sec 11 Unit M,N. Sec 13 Unit L,M,N. Sec 14 Unit C -P. Sec 15 Unit A G,H,I,J,K,N,O,P. Sec 22 Unit All except for M. Sec 23, Sec 24 Unit C,D,E,L, Sec 26 Unit A-G, Sec 27 Unit A,B,C

### T 19S – R 29E

Sec 11 Unit P. Sec 12 Unit H-P. Sec 13. Sec 14 Unit A,B,F-P. Sec 15 Unit P. Sec 22 Unit A,B,C,F,G,H,I,J K,N,O,P. Sec 23. Sec 24. Sec 25 Unit D. Sec 26 Unit A- F. Sec 27 Unit A,B,C,F,G,H.

### T 19S – R 30E

Sec 2 Unit K,L,M,N. Sec 3 Unit I,L,M,N,O,P. Sec 4 Unit C,D,E,F,G,I-P. Sec 5 Unit A,B,C,E-P. Sec 6 Unit I,O,P. Sec 7 – Sec 10. Sec 11 Unit D, G—P. Sec 12 Unit A,B,E-P. Sec 13 Unit A-O. Sec 14-Sec 18. Sec 19 Unit A-L, P. Sec 20 – Sec 23. Sec 24 Unit C,D,E,F,L,M,N. Sec 25 Unit D. Sec 26 Unit A-G, I-P. Sec 27, Sec 28, Sec 29 Unit A,B,C,D,F,G,H,I,J,O,P. Sec 32 Unit A,B,G,H,I,J,N,O,P. Sec 33. Sec 34. Sec 35. Sec 36 Unit D,E,F,I-P.

### T 19S – R 31E

Sec 7 Unit C,D,E,F,L. Sec 18 Unit C,D,E,F,G,K,L. Sec 31 Unit M. Sec 34 Unit P. Sec 35 Unit M,N,O. Sec 36 Unit O,P.

### T 20S – R 29E

Sec 1 Unit H,I,P. Sec 13 Unit E,L,M,N. Sec 14 Unit B-P. Sec 15 Unit A,H,I,J,N,O,P. Sec 22 Unit A,B,C,F,G,H,I,J,O,P. Sec 23. Sec 24 Unit C,D,E,F,G,J-P. Sec 25 Unit A-O. Sec 26. Sec 27 Unit A,B,G,H,I,J,O,P. Sec 34 Unit A,B,G,H. Sec 35 Unit A-H. Sec 36 Unit B-G.

### T 20S – R 30E

Sec 1 – Sec 4. Sec 5 Unit A,B,C,E-P. Sec 6 Unit E,G-P. Sec 7 Unit A-H,I,J,O,P. Sec 8 – 17. Sec 18 Unit A,B,G,H,I,J,O,P. Sec 19 Unit A,B,G,H,I,J,O,P. Sec 20 – 29. Sec 30 Unit A-L,N,O,P. Sec 31 Unit A,B,G,H,I,P. Sec 32 – Sec 36.

### T 20S – R 31E

Sec 1 Unit A,B,C,E-P. Sec 2. Sec 3 Unit A,B,G,H,I,J,O,P. Sec 6 Unit D,E,F,J-P. Sec 7. Sec 8 Unit E-P. Sec 9 Unit E,F,J-P. Sec 10 Unit A,B,G-P. Sec 11 – Sec 36.

### T 21S – R 29E

Sec 1 – Sec 3. Sec 4 Unit L1 – L16,I,J,K,O,P. Sec 5 Unit L1. Sec 10 Unit A,B,H,P. Sec 11 – Sec 14. Sec 15 Unit A,H,I. Sec 23 Unit A,B. Sec 24 Unit A,B,C,D,F,G,H,I,J,O,P. Sec 25 Unit A,O,P. Sec 35 Unit G,H,I,J,K,N,O,P. Sec 36 A,B,C,F – P.

### T 21S – R 30E

Sec 1 – Sec 36

### T 21S – R 31E

Sec 1 – Sec 36

### T 22S – R 28E

Sec 36 Unit A,H,I,P.

**T 22S – R 29E**

Sec 1. Sec2. Sec 3 Unit I,J,N,O,P. Sec 9 Unit G – P. Sec 10 – Sec 16. Sec 19 Unit H,I,J. Sec 20 – Sec 28. Sec 29 Unit A,B,C,D,G,H,I,J,O,P. Sec 30 Unit A. Section 31 Unit C – P. Sec 32 – Sec 36

**T 22S – R 30E**

Sec 1 – Sec 36

**T 22S – R 31E**

Sec 1 – Sec 11. Sec 12 Unit B,C,D,E,F,L. Sec 13 Unit E,F,K,L,M,N. Sec 14 – Sec 23. Sec 24 Unit C,D,E,F,K,L,M,N. Sec 25 Unit A,B,C,D. Sec 26 Unit A,BC,D,G,H. Sec 27 – Sec 34.

**T 23S – R 28E**

Sec 1 Unit A

**T 23S – R 29E**

Sec 1 – Sec 5. Sec 6 Unit A – I, N,O,P. Sec 7 Unit A,B,C,G,H,I,P. Sec 8 Unit A – L, N,O,P. Sec 9 – Sec 16. Sec 17 Unit A,B,G,H,I,P. Sec 21 – Sec 23. Sec 24 Unit A – N. Sec 25 Unit D,E,L. Sec 26. Sec 27. Sec 28 Unit A – J, N,O,P. Sec 33 Unit A,B,C. Sec 34 Unit A,B,C,D,F,G,H. Sec 35. Sec 36 Unit B,C,D,E,F,G,K,L.

**T 23S – R 30E**

Sec 1 – Sec 18. Sec 19 Unit A – I,N,O,P. Sec 20, Sec 21. Sec 22 Unit A – N, P. Sec 23, Sec 24, Sec 25. Sec 26 Unit A,B,F-P. Sec 27 Unit C,D,E,I,N,O,P. Sec 28 Unit A – H, K,L,M,N. Sec 29 Unit A – J, O,P. Sec 30 Unit A,B. Sec 32 A,B. Sec 33 Unit C,D,H,I,O,P. Sec 34, Sec 35, Sec 36.

**T 23S – R 31E**

Sec 2 Unit D,E,J,O. Sec 3 – Sec 7. Sec 8 Unit A – G, K – N. Sec 9 Unit A,B,C,D. Sec 10 Unit D,P. Sec 11 Unit G,H,I,J,M,N,O,P. Sec 12 Unit E,L,K,M,N. Sec 13 Unit C,D,E,F,G,J,K,L,M,N,O. Sec 14. Sec 15 Unit A,B,E – P. Sec 16 Unit I, K – P. Sec 17 Unit B,C,D,E, I – P. Sec 18 – Sec 23. Sec 24 Unit B – G, K,L,M,N. Sec 25 Unit B – G, J,K,L. Sec 26 – Sec 34. Sec 35 Unit C,D,E.

**T 24S – R 29E**

Sec 2 Unit A, B, C, D. Sec 3 Unit A

**T 24S – R 30E**

Sec 1 Unit A – H, J – N. Sec 2, Sec 3. Sec 4 Unit A,B,F – K, M,N,O,P. Sec 9 Unit A – L. Sec 10 Unit A – L, O,P. Sec 11. Sec 12 Unit D,E,L. Sec 14 Unit B – G. Sec 15 Unit A,B,G,H.

**T 24S – R 31E**

Sec 3 Unit B – G, J – O. Sec 4. Sec 5 Unit A – L, P. Sec 6 Unit A – L. Sec 9 Unit A – J, O,P. Sec 10 Unit B – G, K – N. Sec 35 Unit E – P. Sec 36 Unit E,K,L,M,N.

**T 25S – R 31E**

Sec 1 Unit C,D,E,F. Sec 2 Unit A – H.

Well Name: Merphan 16 State #1  
 Location: 1800 FNL & 810 FWL  
 County: Eddy, NM  
 Lat/Long: 32.0451736,-103.7892914  
 API #: 30-015-30485  
 Spud Date: 11/27/98  
 Compl. Date: 2/1/01



## Current Wellbore Diagram:

KB:

GL: 3212

17.500"

13.375" 48.00# @ 400

365 sx = surface

12.250"

9.625" 36.00# @ 3994 DV @ 1974

1700 sx = surface

TOC 7" @ 7475

Top of 4.500" Liner @ 11461

8.750"

7.000" 26.00# @ 12214

750 sx = 7475

CT Drill Bit Fish @ 13,300 (04/07/2001)

4.500" Liner 11.60# P110 to 11461 to 13450 (47 joints)

340 sx = TOC @ 11461 (circulated)

Vertical Sidetrack TD @ 13450

CIBP @ 11,900 on original 4.500" top w/10' CMT (01/12/01)

4.500" Horizontal Liner 11.60# 11600 to 13200 CMT SQZD 01/12/01

Open Perfs 12618 - 13381 (TOF @ 13,300)

## Formation Tops

T of Salt	-
B of Salt	-
Abo	-
Glorietta (Queen)	-
Bell Canyon (DEL)	4,005
Brushy Canyon	-
Leonard	-
Bone Spring	7,967
Wolfcamp	12,610
Cisco	-
Canyon	-
Strawn	-
Atoka	-
Morrow	-

Not to Scale

By: AEC 10/14/22

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Well Name: Merphan 16 State #1  
 Location: 1800 FNL & 810 FWL  
 County: Eddy, NM  
 Lat/Long: 32.0451736,-103.7892914  
 API #: 30-015-30485  
 Spud Date: 11/27/98  
 Compl. Date: 2/1/01



### Proposed Wellbore Diagram

KB:

GL: 3212

17.500"

13.375" 48.00# @ 400

365 sx = surface

12.250"

9.625" 36.00# @ 3994 DV @ 1974

1700 sx = surface

TOC 7" @ 7475

Top of 4.500" Liner @ 11461

8.750"

7.000" 26.00# @ 12214

750 sx = 7475

CT Drill Bit Fish @ 13,300 (04/07/2001)

4.500" Liner 11.60# P110 to 11461 to 13450 (47 joints)

340 sx = TOC @ 11461 (circulated)

Vertical Sidetrack TD @ 13450

Cut off WH 3' below surface

Perf and Sqz @ 415 for -50' Intermediate shoe w/ 68sx Class C, WOC &amp; TAG (Top ~0)

250 foot cement top in 7" Class C

Perf and Sqz @ 794 for 3000 Cased Spacing Reg. w/ 41sx Class C, WOC &amp; TAG (Top ~544)

250 foot cement top in 7" Class C

Perf and Sqz @ 4044 for -50' Intermediate shoe w/ 41sx Class C, WOC &amp; TAG (Top ~3794)

250 foot cement top in 7" Class C

Perf and Sqz @ 4220 for 3000 Cased Spacing Reg. w/ 41sx Class C, WOC &amp; TAG (Top ~3970)

250 foot cement top in 7" Class C

Perf and Sqz @ 7470 for TOC w/ 41sx Class C, WOC &amp; TAG (Top ~7220)

250 foot cement top in 7" Class H

Perf and Sqz @ 8180 for -50' Bone Spring Formation w/ 76sx Class H, WOC &amp; TAG (Top ~7767)

This also satisfies the 3000' cased spacing regulation

250 foot cement top in 7" Class H

Top of 45sx Class H Spot (11,430 to 11,180)

7" CIBP @ 11430, TAG, Spot 45sx Class H

Top of 25sx Class H Spot (12,560 to 12,220) 340 foot cement top in 4.500" Liner Class H

CIBP @ 11,900 on original 4.500" top w/10' CMT (01/12/01)

4.500" Horizontal Liner 11.60# 11600 to 13200 CMT SQZD 01/12/01

4.000" CIBP @ 12,560, TAG, Spot 25sx Class H

Open Perfs 12618 - 13381 (TOF @ 13,300)

### Formation Tops

T of Salt	-
B of Salt	-
Abo	-
Glorietta (Queen)	-
Bell Canyon (DEL)	4,005
Brushy Canyon	-
Leonard	-
Bone Spring	7,967
Wolfcamp	12,610
Cisco	-
Canyon	-
Strawn	-
Atoka	-
Morrow	-

Not to Scale

By: AEC 10/14/22

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**District I**  
1625 N. French Dr., Hobbs, NM 88240  
Phone:(575) 393-6161 Fax:(575) 393-0720  
**District II**  
811 S. First St., Artesia, NM 88210  
Phone:(575) 748-1283 Fax:(575) 748-9720  
**District III**  
1000 Rio Brazos Rd., Aztec, NM 87410  
Phone:(505) 334-6178 Fax:(505) 334-6170  
**District IV**  
1220 S. St Francis Dr., Santa Fe, NM 87505  
Phone:(505) 476-3470 Fax:(505) 476-3462

**State of New Mexico**  
**Energy, Minerals and Natural Resources**  
**Oil Conservation Division**  
**1220 S. St Francis Dr.**  
**Santa Fe, NM 87505**

CONDITIONS  
  
Action 150962

CONDITIONS

Operator: EOG RESOURCES INC P.O. Box 2267 Midland, TX 79702	OGRID: 7377
	Action Number: 150962
	Action Type: [C-103] NOI Plug & Abandon (C-103F)

CONDITIONS

Created By	Condition	Condition Date
gcordero	None	10/17/2022