

Submit 3 Copies To Appropriate District

Office

District I

1625 N. French Dr., Hobbs, NM 88240

District II

1301 W. Grand Ave., Artesia, NM 88210

District III

1000 Rio Brazos Rd., Aztec, NM 87410

District IV

1220 S. St. Francis Dr., Santa Fe, NM

87505

State of New Mexico
Energy, Minerals and Natural Resources

CONSERVATION DIVISION

1220 South St. Francis Dr.

Santa Fe, NM 87505

Form C-103

Revised June 10, 2003

WELL API NO.

30-015-26298

5. Indicate Type of Lease

STATE ☒ FEE ☐

6. State Oil & Gas Lease No.

NM-24160

7. Lease Name or Unit Agreement Name

Osage Federal

8. Well Number

17

9. OGRID Number

154903

10. Pool name or Wildcat

Parkway Bone Spring and Delaware

SUNDRY NOTICES AND REPORTS ON WELLS

(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 ☒ Gas Well ☐ Other

2. Name of Operator

St. Mary Land & Exploration Company c/o Nance Petroleum Corporation

3. Address of Operator

P.O. Box 7168, Billings, MT 59103

4. Well Location

Unit Letter K : 2310 feet from the South line and 2310 feet from the West line

Section 34

Township 19S

Range 29E

NMPM Eddy County

11. Elevation (Show whether DR, RKB, RT, GR, etc.)

3308' GL

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

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☒

TEMPORARILY ABANDON ☐ CHANGE PLANS ☐

PULL OR ALTER CASING ☐ MULTIPLE COMPLETION ☐

OTHER: ☐

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐

COMMENCE DRILLING OPNS. ☐ PLUG AND ABANDONMENT ☐

CASING TEST AND CEMENT JOB ☐

OTHER: ☐

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 1103. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

Please see attached procedure and wellbore diagrams to plug and abandon the Osage Federal #17 well in Eddy County, NM.

We propose to begin the work approximately August 1, 2003.

We cannot approve the P&A application because it is under B.L.M. jurisdiction. Please submit to the B.L.M. on a form 3160.

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

SIGNATURE Mike Mungas TITLE Regulatory / Safety Engineer DATE June 24, 2003

Type or print name Mike Mungas
(This space for State use)

E-mail address: mmungas@nancepetro.com Telephone No. (406) 867-8902

APPROVED BY Mike Mungas TITLE Regulatory / Safety Engineer DATE June 24, 2003

Conditions of approval, if any:

**ST. MARY LAND & EXPLORATION COMPANY
C/O NANCE PETROLEUM CORPORATION**

**OSAGE FEDERAL #17
PARKWAY FIELD**

**NE SW SEC. 34, T19S, R29E
EDDY COUNTY, NEW MEXICO**

PERTINENT DATA:

Federal Lease:	NM-24160
API Number:	30-015-26298
Elevation:	3,308' GL, 3,321' KB
TD:	9,500' KB
PBTD:	8,127' KB
Perforations:	5,352' – 5,376.5' KB, 13 holes 6,974' – 6,990.5' KB, 12 holes
Surface Casing:	20", 94&133# @ 366' KB
Intermediate Casing:	13-3/8", 54.5# , J-55 @ 1,120' KB 8-5/8", 32&24#, J-55 @ 3,200' KB
Production Casing:	5-1/2", 17#, N-80 & J-55 @ 8,243' KB
Tubing:	2-7/8", 6.5#, J-55

WORK OBJECTIVE:

Plug and Abandon Well.

REQUIRED MATERIALS:

2-5-1/2" (17#) Cast-Iron Bridge Plugs

1-5-1/2" (17#) Cement Retainer

Approximately 280 sacks of Class "G" cement plus additives mixed at 15.8 ppg as per cement company recommendation

Approximately 190 bbls of 9.0 ppg mud

ABANDONMENT PROCEDURE:

1. Notify OCD office in Artesia at (505) 748-1283 when the P&A work is to start.
2. MIRUSDU and install BOP. Pick up tubing as required while round tripping a bit and 5-1/2" (17#) casing scraper to \pm 6900' KB.



3. RIH with a 5-1/2"(17#) cast iron bridge plug set it at $\pm 6,900'$ KB. Circulate hole with 35 bbls of 9.0 ppg mud up. Close pipe rams and pressure test casing and bridge plug to 300 psi for 15 minutes with OCD witness.
4. RU cementers and pump a balanced 50 foot cement plug on top of the bridge plug with 6 sacks of Class "G" cement mixed at 15.8 ppg. Displace tubing with ± 39.5 bbls 9.0 ppg mud to balance plug.
5. Pull up above plug and reverse circulate clean.
6. Pull up with tubing to $\pm 5,700'$. Mix and pump a balanced 100 foot cement plug from 5,700' to 5,600' (DV tool at 5,652') with 20 sacks of Class "G" cement mixed at 15.8 ppg. Displace tubing with ± 32.3 bbls of 9.0 ppg mud to balance plug.
7. Pull up above plug and reverse circulate clean. POOH.
8. RIH with a 5-1/2"(17#) cast iron bridge plug set it at $\pm 5,300'$ KB. Circulate hole with 120 bbls of 9.0 ppg mud up. Close pipe rams and pressure test casing and bridge plug to 300 psi for 15 minutes with OCD witness.
9. Pump a balanced 50 foot cement plug on top of the bridge plug with 6 sacks of Class "G" cement mixed at 15.8 ppg. Displace tubing with ± 30.3 bbls 9.0 ppg mud to balance plug.
10. Pull up above plug and reverse circulate clean.
11. Pull up with tubing to $\pm 3,250'$. Mix and pump a balanced 100 foot cement plug from 3,250' to 3,150' with 16 sacks of Class "G" cement mixed at 15.8 ppg. Displace tubing with ± 18.1 bbls of 9.0 ppg mud to balance plug.
12. Pull up above plug and reverse circulate clean. POOH.
13. RU wireline and perforate 4 squeeze holes at $\pm 1,170'$ KB. RD wireline.
14. RIH with a 5-1/2"(17#) cement retainer and set it at $\pm 1,155'$ KB. Open 8-5/8" intermediate casing valves. RU cementers and attempt to circulate through the squeeze holes and up the 8-5/8" intermediate casing. If circulation is established, pump 215 sacks of Class "G" cement mixed at 15.8 ppg to bring cement to surface in casing-casing annulus. If circulation was not established, squeeze the casing shoe perforations with 50 sacks of Class "G" cement. Unsting from cement retainer and circulate 10 sacks of cement to place an 85 foot plug on top of retainer. Displace tubing with ± 6.1 bbls of 9.0 ppg mud to balance plug.
15. Pull up above plug and reverse circulate clean. POOH laying down all but 50 feet of the remaining tubing. Spot a 50 foot surface cement plug with 6 sacks of Class "G" cement mixed at 15.8 ppg. Remove BOP and RDMOSU.

16. Dig out and cut off casing. Mark with steel marker not less than four inches (4") in diameter set in cement and extending at least four feet (4') above mean ground level. The following should be inscribed on the plate:

St. Mary Land & Exploration Company
Osage Federal #17
API No. 30-015-26298
Unit Letter K
Sec.34, T19S, R29E
Eddy, NM

17. Restore surface location and submit final plugging report as requested by the OCD.

WELLBORE DIAGRAM OSAGE FEDERAL # 17

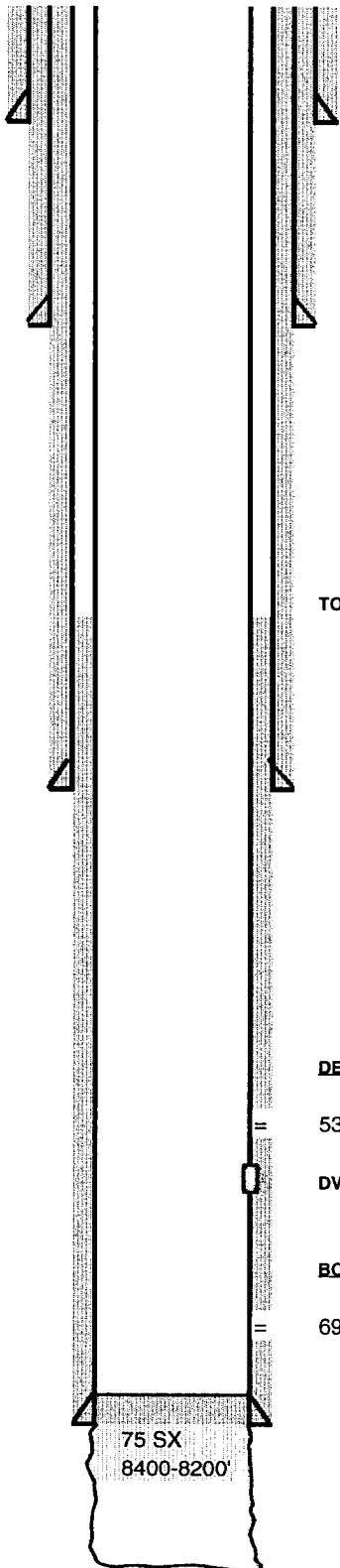
LEASE: OSAGE
LOCATION: 2310' FSL & 2310' FWL
FIELD: PARKWAY BONE SPRING
STATUS: SHUT-IN

UL: K

WELL NO. 17
SEC: 34 T: 19S R: 29E
GL: 3308' CT/ST: EDDY,NM
KB: 3321' DF: 3320'

API # : 30-015-26298
SPUD: 11/12/90 (by SIETE)
COMP: 1/91
INITIAL FORM: BONE SPRING

CURRENT
WELLBORE



LC @ 61'

20" 94&133#
@ 366'
CIRC. W/ 800 SX

13 3/8" 54.5# J-55
@ 1120'
CIRC. W/ 750 SX

TOC @ 2820'

8 5/8" 32&24# J-55 @ 3200'
CMT'D W/ 1400 SX (TOC @ 1750')
1" TO SURF W/ 537 SX

DELAWARE PERFS (1 shot/1.5ft)

5352 - 5376.5' (13 holes)

DV @ 5652'

BONE SPRING PERFS (1 shot/1.5ft)

6974 - 6990.5' (12 holes)

5 1/2" 17# N-80, J-55 @ 8243'
1st Stage 520 sx Circ.
2nd Stage 470 sx

WELL HISTORY

12/20-21/90 CBL, Perf 6974-6990.5'
1000g 15%, - balled out w/24 BS's
Frac w/ 18,000g & 1700# 100 mesh
25,300# 20/40 sand & 10,860# 12/20 RCS
Avg 8 bpm @ 2000#
1/20/1991 IPP: 17 BO + 36 BW + 50 MCF
3/ 4-7/91 Perf Delaware 5352-5376.5'
2000g 15%, - balled out w/26 BS's
Frac w/ 16,000g & 1600# 100 mesh
24,000# 20/40 sand & 9,600# 12/20 RCS
Avg 8 bpm @ 2005#
3/11/1991 IPP: 11 BO + 36 BW+ 20 MCF
Jun-91 Downhole commingling approved for
BS & Delaware

DATE: 11/02
PREPARED BY:
HRT

PBTD: 8127'
TD: 9500'

WELLBORE DIAGRAM OSAGE FEDERAL # 17

LEASE: OSAGE
LOCATION: 2310' FSL & 2310' FWL
FIELD: PARKWAY BONE SPRING
STATUS: SHUT-IN, TO BE P&A'D

UL: K

WELL NO. 17
SEC: 34 T: 19S R: 29E
GL: 3308' CT/ST: EDDY,NM
KB: 3321' DF: 3320'

API # : 30-015-26298
SPUD: 11/12/90 (by SIETE)
COMP: 1/91
INITIAL FORM: BONE SPRING

PROPOSED P&A WELLBORE

85' (10 sk) cement plug on top
of CICR (TOC @ +/- 1070')
5-1/2" CICR @ +/- 1155'
4 squeeze holes @ 1170'
Attempt to circ cement to surface
inside 5-1/2" x 8-5/8" annulus

100' (16 sk) balanced cement plug
from 3,250'. Top of plug +/- 3150'

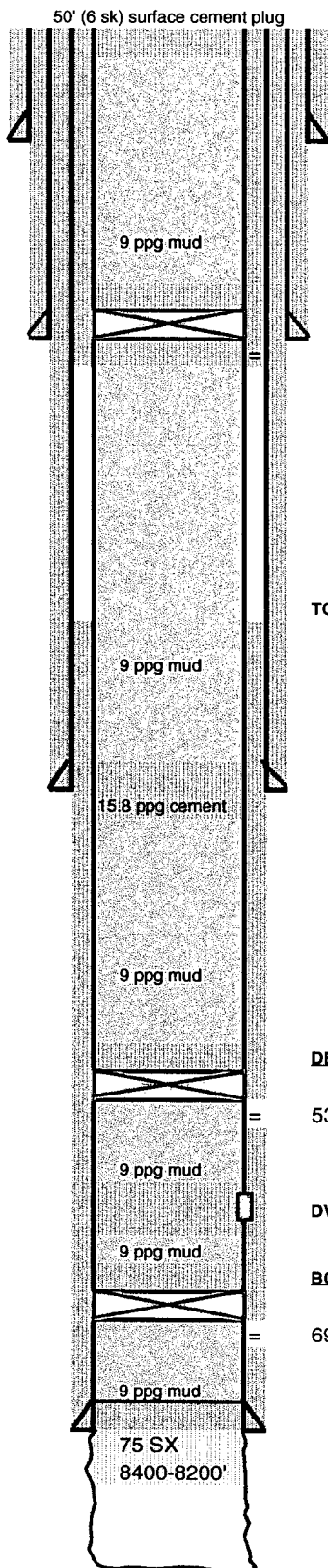
50 ft (6 sx) cement plug
Top of plug +/- 5250'
5-1/2" CIBP @ +/- 5300'

100 ft (20 sx) balanced cement plug
from 5700'. Top of plug +/- 5600'

50 ft (6 sx) cement plug
Top of plug +/- 6850'
5-1/2" CIBP @ +/- 6900'

DATE: 06/03
PREPARED BY:
HRT / MGM

PBTD: 8127'
TD: 9500'



LC @ 61'

20" 94&133#
@ 366'
CIRC. W/ 800 SX

13 3/8" 54.5# J-55
@ 1120'
CIRC. W/ 750 SX

TOC @ 2820'

8 5/8" 32&24# J-55 @ 3200'
CMT'D W/ 1400 SX (TOC @ 1750')
1" TO SURF W/ 537 SX

DELAWARE PERFS (1 shot/1.5ft)

5352 - 5376.5' (13 holes)

DV @ 5652'

BONE SPRING PERFS (1 shot/1.5ft)

6974 - 6990.5' (12 holes)

5 1/2" 17# N-80, J-55 @ 8243'
1st Stage 520 sx Circ.
2nd Stage 470 sx

75 SX
8400-8200'