

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

Form C-103
May 27, 2004

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



WELL API NO. 30-015-35709
5. Indicate Type of Lease STATE X FEE
6. State Oil & Gas Lease No. B-6570
7. Lease Name or Unit Agreement Name Lobo State
8. Well Number 1
9. OGRID Number 7377
10. Pool name or Wildcat Wildcat; Bone Springs

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 X Gas Well Other

2. Name of Operator
EOG Resources, Inc

3. Address of Operator
P.O. Box 2267 Midland, Texas 79702

4. Well Location
Unit Letter: H: 1650 feet from the North line and 330 feet from the East line
Section 11 Township 18S Range 29E NMPM County: Eddy

11. Elevation (Show whether DR, RKB, RT, GR, etc.)
3516

Pit or Below-grade Tank Application ☐ or Closure ☐

Pit type _____ Depth to Groundwater _____ Distance from nearest fresh water well _____ Distance from nearest surface water _____

Pit Liner Thickness: _____ mil Below-Grade Tank: Volume _____ bbls; Construction Material _____

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

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
PERFORM REMEDIAL WORK ☐	PLUG AND ABANDON ☐	REMEDIAL WORK ☐	ALTERING CASING ☐
TEMPORARILY ABANDON ☐	CHANGE PLANS X	COMMENCE DRILLING OPNS. ☐	P AND A ☐
PULL OR ALTER CASING	MULTIPLE COMPL ☐	CASING/CEMENT JOB ☐	
OTHER: ☐		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.

The Lobo State No.1 is a 7,957' Second Bone Spring carbonate test which reached TD on 10/28/2007. Log analysis shows a Second Bone Spring sand 7596-7700' extending in a southerly direction. EOG Resources, Inc. ("EOG") is proposing a 3,300' sidetrack creating a south lateral in this sand to develop this pay. This well will be similar to the Second Bone Spring sand laterals that EOG has been drilling in the Sand Tank Field.

I hereby certify that the information above is true and complete to the best of my knowledge and belief. I further certify that any pit or below-grade tank has been/will be constructed or closed according to NMOCD guidelines ☐, a general permit ☐ or an (attached) alternative OCD-approved plan ☐.

SIGNATURE Donny G. Glanton TITLE: Sr. Lease Representative DATE 10/30/2007

Type or print name E-mail address: donny_glanton@eogresources.com Telephone No. (432) 686-3642
For State Use Only

APPROVED BY: BRYAN G. ARRANT TITLE DISTRICT II GEOLOGIST DATE NOV 01 2007
Conditions of Approval (if any):

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
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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 30-015-35709	Pool Code 96403	Pool Name Wildcat ; Bone Springs
Property Code 36610	Property Name LOBO STATE	Well Number 1
OGRID No. 7377	Operator Name EOG RESOURCES, INC.	Elevation 3516'

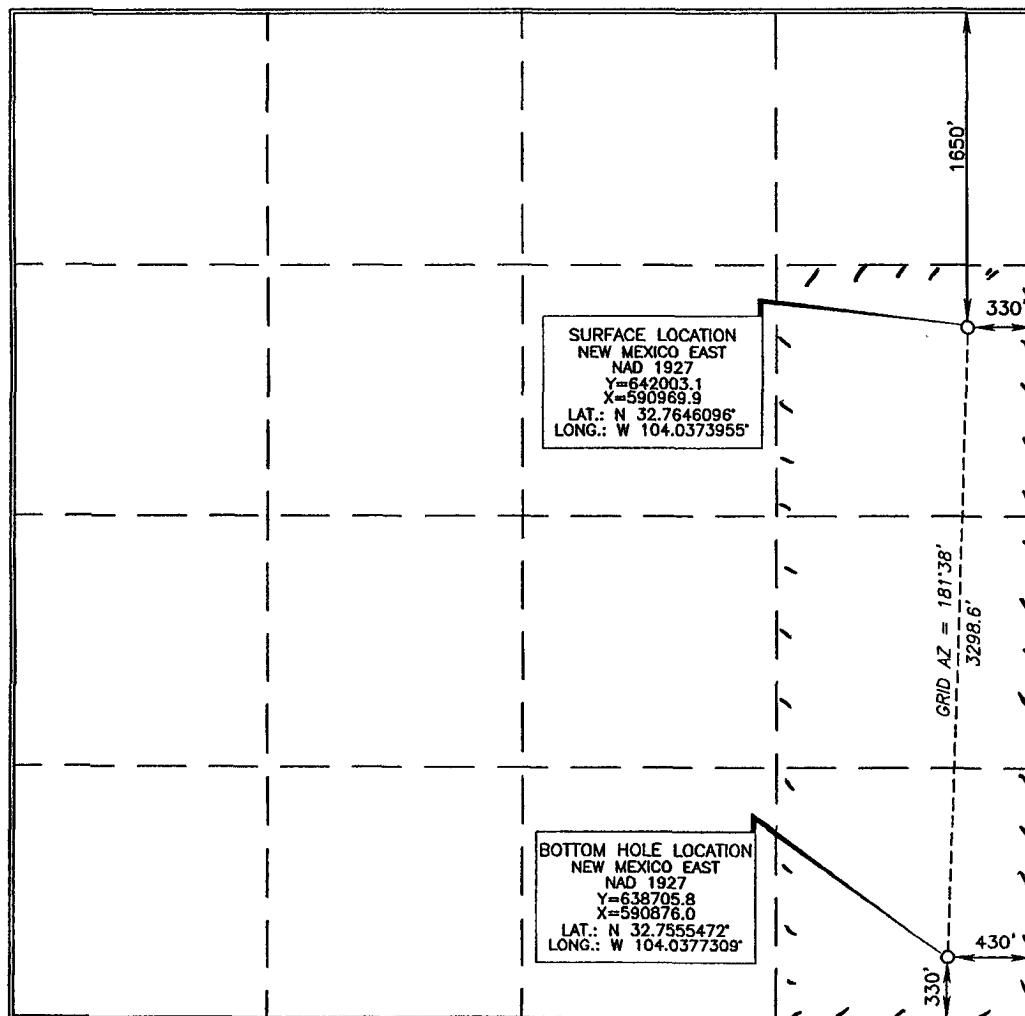
Surface Location

UL or lot no. H	Section 11	Township 18 SOUTH	Range 29 EAST, N.M.P.M.	Lot Idn	Feet from the 1650'	North/South line NORTH	Feet from the 330'	East/West line EAST	County EDDY
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Bottom Hole Location If Different From Surface

UL or lot no. P	Section 11	Township 18 SOUTH	Range 29 EAST, N.M.P.M.	Lot Idn	Feet from the 330'	North/South line SOUTH	Feet from the 430'	East/West line EAST	County EDDY
Dedicated Acres 120	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.



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.

Dan J. Muth 10/29/07
Signature Date

Donny G. Glanton
Printed Name

SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of a duly licensed surveyor made by me or under my supervision, and that the same is true and correct to the best of my belief.

Terry J. Ouel 10-29-2007
Date of Survey
Signature and Seal of Professional Surveyor
Certificate Number 15079

WD# 070625WL-REV. A (KA)

Permit Information:**Well Name: Lobo State #1H****Revised 10/29/07****Location:**

SL 1650' FNL & 330' FEL, Section 11, T-18-S, R-29-E, Eddy Co., N.M.

BHL 330' FSL & 430' FEL, Section 11, T-18-S, R-29-E, Eddy Co., N.M.

Casing Program:

Casing	Setting Depth	Hole Size	Casing Size	Casing Weight	Casing Grade	Desired TOC
Surface	466'	14-3/4"	11-3/4"	42#	H-40	Surface
Intermediate	3,228'	11"	8-5/8"	32#	J-55	Surface
Production	10,846'	7-7/8"	5-1/2"	17#	N-80	2,600'

Cement Program:

Depth	No. Sacks	Slurries
466'	460	Premium Plus C + 0.005 pps Static Free + 0.25 pps CelloFlake + 2% CaCl ₂ + 0.005 gps FP-6L (14.8 ppg / 1.35 yld)
3,228'	740	Lead: 50:50 Poz: C + 5% NaCl + 0.25 pps CelloFlake + 0.005 pps Static Free + 5 pps LCM-1 + 0.005 gps FP-6L + 10% Bentonite (11.8 ppg / 2.45 yld)
	250	Tail: Premium Plus C + 0.005 pps Static Free + 2% CaCl ₂ + 0.25 pps CelloFlake + 0.005 gps FP-6L (14.8 ppg / 1.35 yld)
10,846'	500	Lead: 50:50 Poz: C + 0.005 pps Static Free + 0.005 gps FP-6L + 0.125 pps CelloFlake + 10% Bentonite (11.8 ppg / 2.29 yld)
	500	Tail: 50:50 Poz: H + 0.005 gps FP-6L + 2% Bentonite + 0.3% FL-52A + 0.005 pps Static Free + 5% NaCl + 0.05% R-3 + 0.2% CD-32 (14.2 ppg / 1.3 yld)

Mud Program:

Depth	Type	Weight (ppg)	Viscosity	Water Loss
0 – 466'	Fresh - Gel	8.4 – 9.0	28-34	N/c
466' – 3,228'	Brine	9.8 – 10.2	28-30	N/c
3,228' - 6,000'	Cut Brine	8.8 – 9.2	28-30	N/c
6,000' - 7,956'	Cut Brine	8.8 – 9.2	28-30	<15
7,150' – 10,846'	Cut Brine - Polymer	9.0 – 9.6	35-40	<25

EOG RESOURCES INC.

Planning Report

Database:	EDM	Local Co-ordinate Reference:	Well Lobo State #1H
Company:	EOG - Midland (3)	TVD Reference:	WELL @ 3535 00ft (Original Well Elev)
Project:	Sand Tank (Bone Spring)	MD Reference:	WELL @ 3535 00ft (Original Well Elev)
Site:	Lobo State #1H	North Reference:	Grid
Well:	Lobo State #1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Lobo State #1H		
Design:	Post Gyro Plan		

Project	Sand Tank (Bone Spring), Eddy County, NM		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		

Site	Lobo State #1H		
Site Position:		Northing:	642,003 10 ft
From:	Map	Easting:	590,969 90 ft
Position Uncertainty:	0.00 ft	Slot Radius:	"
		Latitude:	32° 45' 52.595 N
		Longitude:	104° 2' 14.624 W
		Grid Convergence:	0.16 °

Well	Lobo State #1H		
Well Position	+N/-S	0.00 ft	Northing:
	+E/-W	0.00 ft	Easting:
Position Uncertainty	0.00 ft	Wellhead Elevation:	ft
		Latitude:	32° 45' 52.595 N
		Longitude:	104° 2' 14.624 W
		Ground Level:	3,516.00 ft

Wellbore	Lobo State #1H		
Magnetics	Model Name	Sample Date	Declination
	IGRF2000	12/31/2004	(°)
			8.82
			Dip Angle
			(°)
			60.85
			Field Strength
			(nT)
			49,693

Design	Post Gyro Plan		
Audit Notes:			
Version:	Phase:	PROTOTYPE	Tie On Depth:
			7,150 00
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W
	(ft)	(ft)	(ft)
	0 00	0 00	0 00
			Direction
			(°)
			181 51

Plan Sections										
Measured	Inclination	Azimuth	Vertical	+N/-S	+E/-W	Dogleg	Build	Turn	TFO	Target
Depth	(°)	(°)	Depth	(ft)	(ft)	Rate	Rate	Rate	(°)	
(ft)			(ft)			(°/100ft)	(°/100ft)	(°/100ft)		
7,150.00	2.76	318 78	7,147.32	75 98	-91.15	0 00	0 00	0 00	0.00	
7,913.47	88.00	180 00	7,650 00	-392.40	-106 57	11 80	11 16	-18 18	-138.81	
8,413.47	88.00	180 00	7,667 45	-892.09	-106 57	0.00	0.00	0.00	0.00	
9,013.47	88.00	175 00	7,688 40	-1,490 96	-80 42	0.83	0.00	-0.83	-90 09	
9,196.67	88.01	180.50	7,694.78	-1,673 84	-73.23	3.00	0.01	3.00	89 97	
10,845.97	88 01	180 50	7,751 99	-3,322 09	-87.60	0.00	0.00	0.00	0.00	
10,846.39	88.00	180 50	7,752 00	-3,322.50	-87 60	3.00	-2.99	0.19	176 38 BHL (Lobo #1H)	

EOG RESOURCES INC.

Planning Report

Database:	EDM	Local Co-ordinate Reference:	Well Lobo State #1H
Company:	EOG - Midland (3)	TVD Reference:	WELL @ 3535 00ft (Original Well Elev)
Project:	Sand Tank (Bone Spring)	MD Reference:	WELL @ 3535 00ft (Original Well Elev)
Site:	Lobo State #1H	North Reference:	Grid
Well:	Lobo State #1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Lobo State #1H		
Design:	Post Gyro Plan		

Planned Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
7,150.00	2 76	318.78	7,147.32	75 98	-91 15	-73.55	0.00	0 00	0 00	
7,200.00	4 23	205.32	7,197.26	75.22	-92.73	-72.75	11.80	2 95	-226.92	
7,300.00	15 72	186.40	7,295.60	58 36	-95 83	-55.81	11.80	11 49	-18.91	
7,400.00	27 47	183.43	7,388.42	21 74	-98 73	-19.13	11.80	11.75	-2.97	
7,500.00	39 25	182.16	7,471.80	-33.10	-101.32	35.76	11.80	11 78	-1.27	
7,600.00	51.04	181.41	7,542.20	-103.83	-103.47	106 52	11.80	11.79	-0 75	
7,700.00	62 83	180.87	7,596.67	-187 47	-105.10	190.17	11.80	11.79	-0 54	
7,800.00	74 62	180.44	7,632.89	-280.48	-106.15	283.18	11.80	11.79	-0 43	
7,900.00	86 41	180.05	7,649.34	-378.94	-106.56	381.62	11 80	11.79	-0.39	
7,913.47	88 00	180.00	7,650.00	-392.40	-106.57	395.07	11.80	11.79	-0.37	
8,000.00	88 00	180.00	7,653.02	-478 87	-106 57	481.51	0.00	0 00	0.00	
8,100.00	88.00	180.00	7,656.51	-578 81	-106 57	581 42	0.00	0 00	0.00	
8,200.00	88 00	180 00	7,660.00	-678 75	-106 57	681.32	0.00	0.00	0.00	
8,300.00	88 00	180.00	7,663.49	-778.69	-106 57	781.23	0.00	0.00	0.00	
8,400.00	88 00	180.00	7,666.98	-878 63	-106 57	881.13	0.00	0.00	0.00	
8,413 47	88 00	180 00	7,667.45	-892.09	-106 57	894 59	0.00	0.00	0 00	
8,500.00	88.00	179 28	7,670.47	-978 56	-106 02	981 02	0 83	0.00	-0.83	
8,600.00	88 00	178 45	7,673.96	-1,078 48	-104 04	1,080 85	0 83	0.00	-0 83	
8,700.00	88 00	177.61	7,677.46	-1,178.36	-100 60	1,180 60	0 83	0.00	-0.83	
8,800.00	88.00	176.78	7,680.95	-1,278.18	-95.71	1,280 26	0 83	0.00	-0.83	
8,900.00	88.00	175.95	7,684.44	-1,377 92	-89.37	1,379 79	0 83	0 00	-0.83	
9,000.00	88 00	175.11	7,687.93	-1,477 55	-81 58	1,479 19	0.83	0 00	-0 83	
9,013.47	88 00	175.00	7,688.40	-1,490.96	-80.42	1,492 57	0 83	0 00	-0 83	
9,100.00	88 00	177 60	7,691 42	-1,577 25	-74 84	1,578.68	3.00	0.00	3 00	
9,196.67	88 01	180 50	7,694.78	-1,673.84	-73.23	1,675 19	3 00	0 01	3 00	
9,200.00	88 01	180 50	7,694.90	-1,677.17	-73 26	1,678.51	0.00	0 00	0.00	
9,300.00	88.01	180.50	7,698 37	-1,777 10	-74.13	1,778.44	0.00	0 00	0.00	
9,400.00	88.01	180.50	7,701.83	-1,877 04	-75 01	1,878.36	0 00	0 00	0.00	
9,500.00	88.01	180.50	7,705.30	-1,976 97	-75 88	1,978 29	0 00	0.00	0.00	
9,501.23	88.01	180.50	7,705.34	-1,978.20	-75.89	1,979 51	0 00	0 00	0 00	
T1 (Lobo State #1H)										
9,600.00	88.01	180.50	7,708.77	-2,076 91	-76.75	2,078.21	0.00	0 00	0.00	
9,700.00	88 01	180 50	7,712.24	-2,176.85	-77.62	2,178 14	0.00	0.00	0.00	
9,800.00	88 01	180 50	7,715.71	-2,276.78	-78 49	2,278 06	0.00	0.00	0.00	
9,900.00	88 01	180 50	7,719.18	-2,376 72	-79 36	2,377 98	0.00	0.00	0.00	
10,000.00	88 01	180.50	7,722.64	-2,476 65	-80.23	2,477.91	0.00	0 00	0.00	
10,100.00	88.01	180 50	7,726.11	-2,576.59	-81 10	2,577.83	0.00	0.00	0.00	
10,200.00	88 01	180 50	7,729.58	-2,676.53	-81.97	2,677.76	0 00	0.00	0.00	
10,300.00	88 01	180 50	7,733.05	-2,776.46	-82.84	2,777.68	0.00	0 00	0 00	
10,400.00	88.01	180 50	7,736.52	-2,876.40	-83.71	2,877.61	0 00	0.00	0.00	
10,500.00	88 01	180.50	7,739 99	-2,976 33	-84.58	2,977 53	0 00	0 00	0.00	
10,600.00	88 01	180.50	7,743.45	-3,076.27	-85.45	3,077 45	0 00	0 00	0.00	
10,700.00	88.01	180 50	7,746.92	-3,176.21	-86.33	3,177.38	0.00	0 00	0.00	
10,800.00	88.01	180 50	7,750.39	-3,276.14	-87.20	3,277.30	0.00	0 00	0 00	
10,845 97	88.01	180.50	7,751 99	-3,322.09	-87.60	3,323.24	0 00	0 00	0 00	
10,846 39	88.00	180.50	7,752 00	-3,322.50	-87.60	3,323.65	3 00	-2 99	0.19	
BHL (Lobo #1H)										

EOG RESOURCES INC.

Planning Report

Database:	EDM	Local Co-ordinate Reference:	Well Lobo State #1H
Company:	EOG - Midland (3)	TVD Reference:	WELL @ 3535 00ft (Original Well Elev)
Project:	Sand Tank (Bone Spring)	MD Reference:	WELL @ 3535 00ft (Original Well Elev)
Site:	Lobo State #1H	North Reference:	Grid
Well:	Lobo State #1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Lobo State #1H		
Design:	Post Gyro Plan		

Targets									
Target Name									
- hit/miss target	Dip Angle	Dip Dir	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- Shape	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(ft)		
T1 (Lobo State #1H)	0 00	0 00	7,705.00	-1,977 40	-169 10	640,025 70	590,800.80	32° 45' 33.032 N	104° 2' 16 669 W
- plan misses by 93.22ft at 9501.23ft MD (7705.34 TVD, -1978.20 N, -75.89 E)									
- Point									
BHL (Lobo #1H)	0.00	0.00	7,752 00	-3,322 50	-87 60	638,680 60	590,882.30	32° 45' 19 720 N	104° 2' 15.758 W
- plan hits target									
- Point									

WELL DETAILS: Lobo State #1H

			Ground Level:	3516.00			
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude		Slot
0.00	0.00	642003.10	590969.90	32° 45' 52.595 N	104° 2' 14.624 W		

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFac	Target	Sec
1	7150.00	2.76	318.78	7147.32	75.98	-91.15	0.00	0.00	-73.55	
2	7913.47	88.00	180.00	7650.00	-392.40	-106.57	11.80	-138.81	395.07	
3	8413.47	88.00	180.00	7667.45	-892.09	-106.57	0.00	0.00	894.59	
4	9013.47	88.00	175.00	7688.40	-1490.96	-80.42	0.83	-90.09	1492.57	
5	9196.67	88.01	180.50	7694.78	-1673.84	-73.23	3.00	89.97	1675.19	
6	10845.97	88.01	180.50	7751.99	-3322.09	-87.60	0.00	0.00	3323.24	
7	10846.39	88.00	180.50	7752.00	-3322.50	-87.60	3.00	HL (17018)	18023.65	

