

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
March 4, 2004

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

Submit to appropriate District Office
State Lease - 6 Copies
Fee Lease - 5 Copies

APR 01 2005

OLUANTERIA

☒ AMENDED REPORT
TO CORRECT SECTION

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE

¹ Operator Name and Address Pogo Producing Company P.O. Box 10340 Midland, TX 79702-7340		² OGRID Number 017891
³ Property Code 13081	³ Property Name H. Buck State	⁴ API Number 30 - 015-33820
		⁵ Well No. 3

7 Surface Location

UL or lot no. A	Section 16	Township 24S	Range 29E	Lot Idn	Feet from the 660	North/South line North	Feet from the 330	East/West line East	County Eddy
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8 Proposed Bottom Hole Location If Different From Surface

UL or lot no. B	Section 16	Township 24S	Range 29E	Lot Idn	Feet from the 660	North/South line North	Feet from the 2310	East/West line East	County Eddy
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⁹ Proposed Pool 1	¹⁰ Proposed Pool 2
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Drilling Pit Location and Other Information

UL or lot no. A	Section 15	Township 24S	Range 29E	Lot Idn	Feet from the 660	North/South line North	Feet from the 330	East/West line East	County Eddy
Depth to ground water			Distance from nearest fresh water well			Distance from nearest surface water			
¹¹ Work Type Code N		¹² Well Type Code O		¹³ Cable/Rotary R		¹⁴ Lease Type Code P		¹⁵ Ground Level Elevation 2927'	
¹⁶ Multiple No		¹⁷ Proposed Depth MD 9500', TVD 8200'		¹⁸ Formation Bone Spring		¹⁹ Contractor Capstar		²⁰ Spud Date When Approved	

21 Proposed Casing and Cement Program

Hole Size	Casing Size	Casing weight/foot	Setting Depth	Sacks of Cement	Estimated TOC
25"	20"	Conductor	40'	Redi-mix	surface
17-1/2"	13-3/8"	48#	325'	650 sks	surface
11"	8-5/8"	32# & 24#	2900'	1000 sks	surface
7-7/8"	5-1/2"	17#	9500' MD	1500 sks	2000'+ FS

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.

All other aspects of the APD will remain the same.

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 ☐.

Signature:

Cathy Wright

Printed name: Cathy Wright

Title: Sr. Eng Tech

E-mail Address: wrightc@pogoproducing.com

Date: 03/31/05

Phone: 432-685-8100

OIL CONSERVATION DIVISION

Approved by:

TIM W. GUM
DISTRICT II SUPERVISOR

Approval Date: APR 04 2005

Expiration Date: APR 04 2006

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 June 10, 2003

Submit to Appropriate District Office

State Lease - 4 Copies

Fee Lease - 3 Copies

☒ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT TO SHOW CORRECT SECTION

API Number 30-015-33820		Pool Code 96473	Pool Name Pierce Crossing Bone Spring East
Property Code 17565	Property Name H. Buck State		Well Number 3
OGRID No. 017891	Operator Name Pogo Producing Company		Elevation 2927

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
A	16	24S	29E		660	North	330	East	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
C	16	24S	29E		660	North	1650	West	Eddy

¹² Dedicated Acres 120	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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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

	17 OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and correct to the best of my knowledge and belief. <i>Cathy Wright</i> Signature Cathy Wright Printed Name Sr Eng Tech Title and E-mail Address 2/23/05 Date

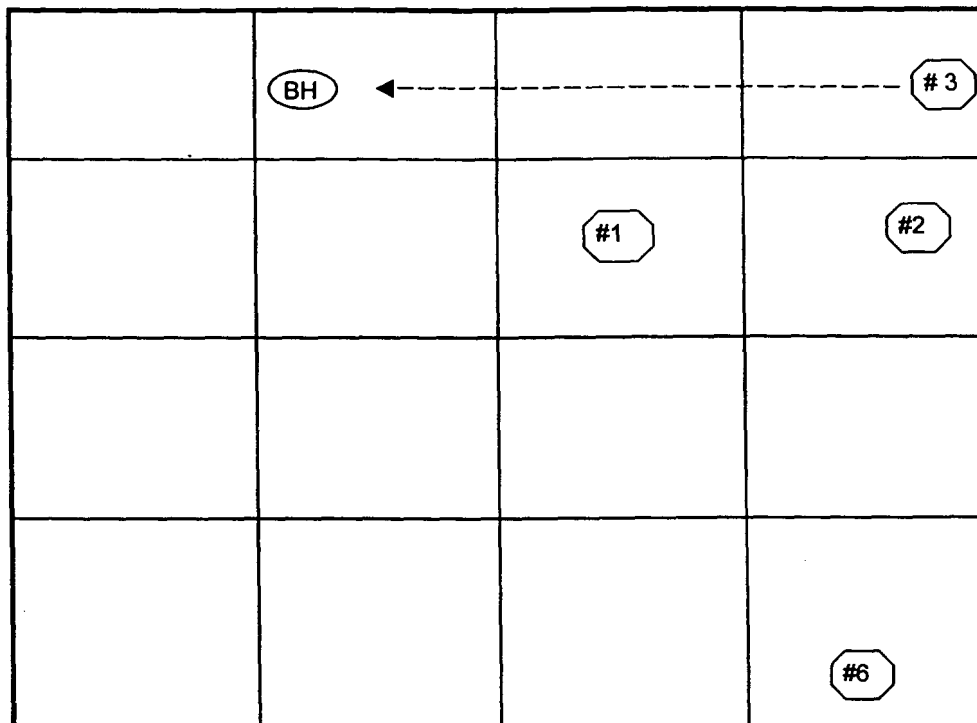
RECEIVED

APR 01 2005

OCD-ARTESIA

H. Buck State Well Groupings

Sec 16, T-24-S, R-29-E, Eddy County, New Mexico



Well Name	Legal Location in 15	Depth and Strata	Current Prod Zone
H. Buck State # 1 =	1982 FSL & 1961 FEL	TD =7850 1st Bone Sand	Delaware Production
H. Buck State # 2 =	330 FNL & 1980 FEL	TD =7950 1st Bone Sand	Delaware Production
H. Buck State # 6 =	330 FSL & 660 FEL	TD 7815' 1st Bone Sand	Delaware Production
H. Buck State # 3 =	660 FNL & 330 FEL	TD 7608 1st Bone Sand	Anticipated Bone

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LONG'S METHOD OF SURVEY COMPUTATION**OBLIQUE CIRCULAR ARC INTERPOLATION**

0	MD OF INTERPOLATION DEPTH.(feet)
#N/A	TVD COORDINATE OF THE DEPTH (feet)
#N/A	N/S COORDINATE OF DEPTH (feet)
#N/A	E/W COORDINATE OF DEPTH (feet)

3 D DISTANCE BETWEEN STATION A AND STATION B

DISTANCE TABLE

STATION A	STATION B
0.00	ft

TABLE OF SURVEY STATIONS

Calculator =

STA #	ΔMD ft	INCL deg	AZIM deg	MD ft	TVD ft	N+S- ft	E+W- ft	DLS deg/100FT
1	TIE POINT =>	0	0	7132.00	7132.00	0.00	0.00	-
2	100	12	180	7232.00	7231.27	-10.43	0.00	12.00
3	100	24	180	7332.00	7326.20	-41.28	0.00	12.00
4	100	36	180	7432.00	7412.65	-91.19	0.00	12.00
5	100	48	180	7532.00	7486.83	-157.98	0.00	12.00
6	100	60	180	7632.00	7545.50	-238.73	0.00	12.00
7	100	72	180	7732.00	7586.10	-329.92	0.00	12.00
8	100	84	180	7832.00	7606.85	-427.56	0.00	12.00
9	50	90	180	7882.00	7609.46	-477.46	0.00	12.00
10	100	90	180	7982.00	7609.46	-577.46	0.00	0.00
11	100	90	180	8082.00	7609.46	-677.46	0.00	0.00
12	100	90	180	8182.00	7609.46	-777.46	0.00	0.00
13	100	90	180	8282.00	7609.46	-877.46	0.00	0.00
14	100	90	180	8382.00	7609.46	-977.46	0.00	0.00
15	100	90	180	8482.00	7609.46	-1077.46	0.00	0.00
16	100	90	180	8582.00	7609.46	-1177.46	0.00	0.00
17	100	90	180	8682.00	7609.46	-1277.46	0.00	0.00
18	100	90	180	8782.00	7609.46	-1377.46	0.00	0.00
19	100	90	180	8882.00	7609.46	-1477.46	0.00	0.00
20	100	90	180	8982.00	7609.46	-1577.46	0.00	0.00
21	100	90	180	9082.00	7609.46	-1677.46	0.00	0.00
22	100	90	180	9182.00	7609.46	-1777.46	0.00	0.00
23	100	90	180	9282.00	7609.46	-1877.46	0.00	0.00
24	100	90	180	9382.00	7609.46	-1977.46	0.00	0.00
25	100	90	180	9482.00	7609.46	-2077.46	0.00	0.00
26	100	90	180	9582.00	7609.46	-2177.46	0.00	0.00
27	100	90	180	9682.00	7609.46	-2277.46	0.00	0.00
28	100	90	180	9782.00	7609.46	-2377.46	0.00	0.00
29	100	90	180	9882.00	7609.46	-2477.46	0.00	0.00
30	100	90	180	9982.00	7609.46	-2577.46	0.00	0.00
31	100	90	180	10082.00	7609.46	-2677.46	0.00	0.00
32	100	90	180	10182.00	7609.46	-2777.46	0.00	0.00
33	100	90	180	10282.00	7609.46	-2877.46	0.00	0.00
34	100	90	180	10382.00	7609.46	-2977.46	0.00	0.00
35	100	90	180	10482.00	7609.46	-3077.46	0.00	0.00
36	100	90	180	10582.00	7609.46	-3177.46	0.00	0.00
37	100	90	180	10682.00	7609.46	-3277.46	0.00	0.00