

1625 N. French Dr., Hobbs, NM 88240
District II
811 South First, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

Oil Conservation Division
2040 South Pacheco
Santa Fe, NM 87505

Form C-101
Revised March 17, 1999

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

☐ AMENDED REPORT

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

¹ Operator Name and Address OXY USA Inc. P.O. Box 50250 Midland, TX 79710-0250		² OGRID Number 16696
		³ API Number 30-015- 31382
³ Property Code 26801	⁵ Property Name OXY Buffalo Bill State	⁶ Well No. 1

⁷ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	27	20S	27E		660	North	760	West	Eddy

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/West line	County

⁹ Proposed Pool 1 Avalon Morrow	¹⁰ Proposed Pool 2 70920
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¹¹ Work Type Code N	¹² Well Type Code G	¹³ Cable/Rotary R	¹⁴ Lease Type Code S - V-2394	¹⁵ Ground Level Elevation 3243'
¹⁶ Multiple No	¹⁷ Proposed Depth 11400'	¹⁸ Formation Morrow	¹⁹ Contractor UTI	²⁰ Spud Date 11/10/00

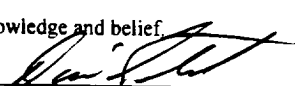
²¹ Proposed Casing and Cement Program

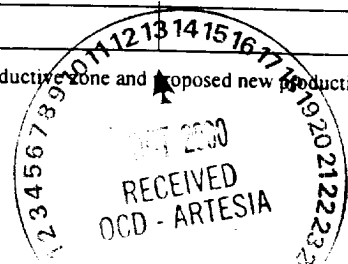
Hole Size	Casing Size	Casing weight/foot	Setting Depth	Sacks of Cement	Estimated TOC
17-1/2"	13-3/8"	46#	600'	350	Surface
12-1/4"	9-5/8"	36#	3000'	650	Surface
8-3/4"	5-1/2"	17#	11400'	775	* Est TOC 7400'

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.

* Cement to cover all oil, gas & water bearing zones.

SEE OTHER SIDE

²³ I hereby certify that the information given above is true and complete to the best of my knowledge and belief. Signature:  Printed name: David Stewart Title: Regulatory Analyst Date: 10/12/00 Phone: 915-685-5717		OIL CONSERVATION DIVISION Approved by: ORIGINAL SIGNED BY TIM W. GUM DISTRICT II SUPERVISOR Title: Approval Date: OCT 18 2000 Expiration Date: OCT 18 2001 Conditions of Approval: Attached <input type="checkbox"/>	
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OXY Buffalo Bill State #1
660 FNL 760 FWL SEC 27 T20S R27E Eddy County, NM
State Lease No.

PROPOSED TD: 11400' TVD

BOP PROGRAM: 0' - 600' None

600' - 3000' 13-5/8" 5M blind and pipe rams with 5M annular preventer.

3000' - 11400' 11" 5M blind pipe rams with 5M annular preventer and rotating head below 8300'.

CASING: Surface: 13-3/8" OD 48# H40 ST&C new casing set at 600'

Intermediate: 9-5/8" OD 36# K55 ST&C new casing from 0-3000'

Production: 5-1/2" OD 17# N80-S95 LT&C new casing from 0-11400'

CEMENT: Surface - Circulate cement with 350sx 35:65 POZ/C with 6% Bentonite + 2% CaCl₂ + .25#/sx Cello-Seal followed by 200sx Cl C with 2% CaCl₂.

Intermediate - Circulate cement with 650sx 35:65 POZ/C with 6% Bentonite + 2% CaCl₂ + .25#/sx Cello-Seal followed by 200sx Cl C with 2% CaCl₂.

Production - Cement with 700sx 15:61:11 POZ/C/CSE with .5% FL-52 + .5% FL-25 + 8#/sx Gilsonite followed by 75sx Cl C with .7% FL-25. Estimated top of cement is 7400'.

Note: Cement volumes may need to be adjusted to hole caliper.

MUD: 0 - 600' Fresh water/native mud. Lime for pH control (9-10). Paper for seepage. Wt 8.7-9.2 ppg, Vis 32-34 sec

600' - 3000' Fresh/*Brine water. Lime for pH control (10.0-10.5). Paper for seepage. Wt 8.3-9.0/10.0-10.1ppg, Vis 28-29 sec
*Fresh water will be used unless chlorides in the mud system increases to 20000PPM.

3000' - 8300' Fresh water. Lime for pH control(9-9.5). Paper for seepage. Wt 8.3-8.5 ppg, Vis 28-29 sec

8300' - 10000' Cut brine. Lime for pH control (10-10.5). Wt 9.6-10.0 ppg, Vis 28-29sec

10000' - 11400' Mud up with an Duo Vis/Flo Trol mud system. Wt 9.6-10.0ppg, Vis 32-36sec, WL<10cc