

District I
PO Box 1980, Hobbs, NM 88241-1980
District II
PO Drawer DD, Artesia, NM 88211-0719
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
PO Box 2088, Santa Fe, NM 87504-2088

State of New Mexico
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION
PO Box 2088
Santa Fe, NM 87504-2088

Form C-101
Revised February 10, 1994
Instructions on back
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

Operator Name and Address: OXY USA Inc. P.O. Box 50250 Midland, TX 79710		OGRID Number 16696
Property Name OXY Duchess State		API Number 30-0 15-30339
Property Code 23534	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
F	14	17S	27E		1980	North	1980	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
Proposed Pool 1 Undesignated Logan Draw Morrow					80400	Proposed Pool 2			

Work Type Code N	Well Type Code G	Cable/Rotary R	Lease Type Code S 2029-61	Ground Level Elevation 3451'
Multiple No	Proposed Depth 9800'	Formation Morrow	Contractor Peterson	Spud Date 8/1/98

21 Proposed Casing and Cement Program

Hole Size	Casing Size	Casing weight/foot	Setting Depth	Sacks of Cement	Estimated TOC
17-1/2"	13-5/8"	K40 48#	400'	420	Surface
12-1/4"	8-5/8"	K55 24#	1800' / 1500'	515	Surface
7-7/8"	4-1/2"	N80 11.6#	9800'	642	6000'

18 Hours WOC on 13 7/8" & 8 5/8" casing

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.

Post LD-2
7-17-98
API & Loc

SEE OTHER SIDE

Notify N.M.O.C.C. in sufficient
time to witness cementing
the 8 5/8" casing

I hereby certify that the information given above is true and complete to the best of my knowledge and belief. Signature: <i>David Stewart</i>		OIL CONSERVATION DIVISION	
Printed name: David Stewart		Approved by: <i>Jim W. Gurn</i> B6A	
Title: Regulatory Analyst		Title: District Supervisor	
Date: 7/10/98		Approval Date: 7-15-98	Expiration Date: 7-15-99
Phone: 915-685-5717		Conditions of Approval: Attached ☐	

ATTACHMENT C-101
OXY USA Inc.
OXY Dutchess State #1
SEC 14 T17S R27E
Eddy County, NM

PROPOSED TD: 9800' TVD

BOP PROGRAM: 0' - 400' None

400'-1800' 13-3/8" 5M blind and pipe rams with 5M annular preventer.

1800'-9800' 13-3/8" 5M blind and pipe rams with 5M annular preventer and rotating head below 8500'.

CASING: 13-3/8" 48# H40 ST&C casing @ 400'. 17-1/2" hole.

8-5/8" 24# K55 ST&C casing @ 1800'. 11" hole.

4-1/2" 11.6# N80 LT&C casing @ 9800'. 7-7/8" hole.

CEMENT: Surface - Circulate cement with 220sx 35:65 POZ/Class C with 6% gel + 2% CaCl₂ + 0.25 #/sx Cello-Seal and 200sx Class C with 2% CaCl₂.

Intermediate - Circulate cement with 315sx 35:65 POZ/Class C with 6% gel + 5% salt + 0.25 #/sx Cello-Seal and 200sx Class C with 2% CaCl₂.

Production - Cement with 642sx Super C Modified cement with 0.5#/sx FL-25 + 0.2 #/sx CD-32 + 0.5 #/sx gilsonite. Estimated top of cement is 6000'. Cement volumes may be adjusted to hole caliper.

MUD: 0' - 400' FW/Native Mud. Lime for pH control (9-10). Paper for seepage. Wt. 9.7-9.2ppg, vis. 32-34sec.

400' - 1800' Brine water. Caustic for pH control (10-10.5). Paper for seepage. Wt. 10-10.1ppg, vis 28-29sec.

1800' - 6300' Fresh water. Caustic for pH control (9-9.5). Paper for seepage. Wt. 8.4ppg, vis 28-29sec

6300' - 9000' Cut brine. Caustic for pH control (10-10.5). Wt. 9.2-9.4ppg, vis 28-29sec

9000' - 9800' Mud up with a XCD Polymer system Wt. 9-9.6ppg, vis 32-34sec WL 8cc.