D nict 1 PO E 38 1980, Hobbs, NM 88241-1980 Dustrict [] PO Drawer DD, Artesia, NM 88211-0719 District III 1000 Rio Brazos Rd., Aztec, NM \$7410 District IV PO Box 2088, Santa Pe, NM 87504-2088

6/7/96

915-685-5717

,	State of New Mexico
Ł	., Minerais & Natural Resources Department

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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 DEEDEN DI LICDACK ----

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Hole Siz	*	Casin			e weight/foot	Setting Depth		f Cement		Estimated TOC	
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7-7/8		5-	1/2''	17-	-20#	11900	435sx		8000		
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ue: /	1		Phone:		C	Conditions of Approval :					

Conditions of Approval :

Attached 🛛

- - ... ATTACHMENT C-101 OXY USA Inc. Hagerman #1 **SEC 30 T22S** R27E Eddy County, NM 11900' TVD PROPOSED TD: BOP PROGRAM: 0' - 400' None 400'-5300' 13-3/8" 5M blind and pipe rams with 5M annular preventer. 5300'-11900' 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" 24-32# K55 ST&C casing @ 5300', 11" hole 5-1/2" 17-20# N80 LT&C casing @ 11900', 7-7/8" hole. Surface - Circulate cement with 220sx 65/35 POZ/C w/2% CaCl2 CEMENT: + 6% gel + .25#/sx Cello-seal followed by 200sx Class C with 2% CaCl2. Intermediate - Circulate cement with 780sx POZ/C w/ 6% gel + 5#/sx salt + .25#/sx Cello-seal followed by 200sx Class C with 2% CaCl2. Cement volumes may be adjusted to fluid caliper. Production - Cement with 435sx Super C Modified w/ 5#/sx Gilsonite + fluid loss additives and retarder. Estimated top of cement is 8000'. Cement volumes may be adjusted to hole caliper. MUD: 0'- 400' Fresh water spud mud. Lime for pH control (9 to 10). Paper for seepage. Wt. 8.5 ppg, vis 33-36 sec. 400'- 5300' Brine water/native mud. Lime for pH control (10-10.5). Paper for seepage. Wt.9.6-9.8 ppg, vis 32-34 sec 5300'-8500' Fresh water/native mud. Lime for pH control (9-9.5). Paper for seepage. Wt. 8.4 ppg, vis 26-28 sec 8500'-11900' At 8500' displace hole w/ cut brine weighing 9.6-9.8 ppg. At 10000' mud up with an XCD Polymer/PAC system Wt. 10.0-10.5 ppg 42-48 sec funnel vis, WL less than 8cc.

DISTRICT I P.O. Box 1980, Hobbs, NM 88240

DISTRICT II P.O. Drawer DD, Artemia, NM 88210

1000 Rio Brazos Rd., Aztec, NM 87410

DISTRICT III

State of New Mexico

Energy, Minerals and Natural Resources Department

Form C-102 Revised February 10, 1994 Instruction on back Submit to Appropriate District Office State Lease - 4 Copies Fee Lease - 3 Copies

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

□ AMENDED REPORT

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WELL LOCATION AND ACREAGE DEDICATION PLAT

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T. Kent Woolley, CPL Senior Landman

May 28, 1996

OXY USA INC.

Box 50250, Midland, TX 79710

Phone (915) 685-5906 FAX: (915) 685-5888

Mr. Jon R. Tully City Administrator, City of Carlsbad P. O. Box 1569 Carlsbad, New Mexico 88221-1569

> RE: Oil and Gas Drilling Permit Hagerman #1 well, Section 30, T-22S R-27E, Eddy County, New <u>Mexico 30-C-3449</u>

Dear Mr. Tully:

Pursuant to Approval of Permit to Drill the above well issued on March 12, 1996, please be advised that OXY USA Inc. has made one change in the information provided under the Application. The well will now be a straight hole with the surface location being 2200' FWL and 1650' FSL, Section 30 and the bottom hole will also be approximately the same rather than that shown on the Application.

In addition to the above, we would like to inquire if it is possible to utilize a lined pit rather than a steel pit. Section 16 (A)(2) requires the use of steel pits. We are inquiring if there is any flexibility in the use of lined pits rather than steel?

Yours truly,

T. Kent Woolley

Senior Landman

TKW/fh



Mayor GARY L. PERKOWSKI

March 13, 1996

PHONE (505) 887-1191 . P.O. BOX 1569 . CARLSBAD, NM 88221-1569

City Administrator

Mr. T. Kent Woolley Senior Landman OXY USA Inc. Box 50250 Midland, TX 79710

RE: Oil & Gas Well Drilling Permit Hagerman Well, Section 30, T-22S, R-27E, Eddy County, New Mexico

Dear Mr. Woolley:

At its regular meeting held March 12, 1996, the governing body of the City of Carlsbad approved your company's request for the above noted permit to drill a well within the City limits. Please notify our Environmental Services Officer, Mr. John Waters, when you start preparations to drill.

If you have any questions, please contact Mr. Waters or myself at (505) 887-1191.



JRT:rc Enclosure

> Ward 1 TOM QUINTELA JOE FLOREZ

Ward 2 DALE JANWAY FRED BLOSS COUNCILORS Ward 3 DR. TED HAUSER CHUCK WIGGINS

Ward 4 HOUSTON CLARK BOB MURRAY

CITY OF CARLSBAD P O BOX 1569

APPLICATION FOR PERMIT

CARLSBAD NM 88221

A separate application shall be required for each well, trunkline pipeline and each water or gas repressurizing or injection facility.

双 Drill Well

Drill Well Re-enter/Deepen Existing Well

....

Water/Gas Repressurizing/Injection Facility Construct/Operate Gas Pipeline

Applicant Name: OXY USA Inc.		Filing Date:
If not Corporation, name of local attorney as Agent:		
If Corporation, Name of Registered Agent: Prentic	e Hall Legal & Financial Se	rvices
Applicant Address: P. O. Box 50250	City: Midland	State/Zip: TX 79710
1. 0. DOX 50250		

Proposed site (including location of gathering lines):

See Attachment

Name of lease owner: Charles Hagerman

Accurate description of well location (with legal description of all acreage dedicated to well or legal description of easements to be used by pipeline):

Acreage dedicated to the well is the S/2 Section 30, T-22S R-27E. Well location is 2200' FWL, 1650' FSL, Section 30, T-22S R-27E. Bottom Hole location is 660' FSL and 660' FWL, Section 30, T-22S, R-27E.

Location with respect to property lines, right-of-way boundaries, and surface contours: 1650' FSL & 2200' FWL, Sec. 30, T-22S R-27E, Eddy County, New Mexico. A plat is attached showing the well location in relation to structures, roads, etc.

Ground elevation at well site: Well depth 11,900' TVD, 12,175' MD

Type of derrick:	Proposed depth:
13' Jackknife manufactured by Drilling Structures, Inc.	11,900' TVD, 12,185' MD

Detailed explanation of operating pressures of all pipelines and facilities:

See Attachment

Application continued on reverse side.

Location of compre	essor with operating characteristics:		
	mpression anticipated.		
	essor control with operating characterist moression anticipated.	cs:	
Location of safety See Attachm	devices with operating characteristics: ment.		
Name of person to	be notified in case of emergency:		
	See Attachment.		
Proposed hole size:		Casing Program:	
	See Attachment.	See Attachment.	
Mud Program:		Cementing Program:	
	See Attachment.		
Specifications of sa	See Attachment.	See Attachment.	
Have you attached	See Attachment. a current certified financial statement?	lation of any pipeline with press	sures in excess of 250 psi:
Have you attached Signature of authori	See Attachment. a current certified financial statement? zed agent: RoccarM. Mc	Lation of any pipeline with press Yes • No ent Date	sures in excess of 250 psi: $\frac{3}{1/8}$
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Have you attached Signature of authori Typed or Printed nar his application 500.00 in cash	See Attachment. a current certified financial statement? zed agent: RoccarM. Mc	Administrator and acc Administrator acc Administra	sures in excess of 250 psi:

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This Permit incorporates by reference and requires compliance with all applicable City Ordinanc and regulations.

City Administrator

Date:_____

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DISTRICT I P.O. Box 1980, Bobbs, NM 88240

DISTRICT II + 0 Drawer DD. Artemia, NM 88210

1090 Rio Brazos Rd., Axtec. NM 67410

DISTRICT III

State of New Mexico

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OIL CONSERVATION DIVISION

P.O. Box 2088 Santa Fe, New Mexico 87504-2088

□ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

▲P1		Pool (Code		Pool Name						
30-01	5		073960 Carlsbad Morro							South	
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Prepared By: Robert Elliott

HAGERMAN WELL INFORMATION

Proposed Site

Surface: 1650' FSL & 2200' FWL Section 30, T-22-S, R-28-E, Eddy County, New Mexico.

Bottom Hole: 660' FSL & 660' FWL Section 30, T-22-S, R-28-E, Eddy County, New Mexico.

Gathering Lines: To be determined by gas gatherer. However, It is anticipated that any new gathering lines will be laid adjacent to existing abandoned lines and within existing right-of-ways.

In Case of Emergency:

John Stinson - Production Technician P.O. Box 1387 Carlsbad, NM 88221 Office Phone: (505) 887-5158 Mobile Phone: (505) 370-4506 Home Phone: (505) 885-3376 Joe Gibson - Production Coordinator P.O. Box 69 Hobbs, NM 88240 Office Phone: (505) 393-2174 Mobile Phone: (505) 370-0760 Home Phone: (505) 392-4988

Hole Size, Casing Program, Mud Program and Cementing Program

13-3/8", 48#, H-40 ST&C surface casing set at 400' in 17-1/2" hole. Cement will be circulated to surface. Surface hole will be drilled with fresh water spud mud using paper for seepage and lime for pH control (8.5 ppg).

8-5/8", 32 & 36#, K-55 ST&C intermediate casing will be set at 5300' in 11" hole. Cement will be circulated to surface. Intermediate hole will be drilled with brine water using caustic for pH control and paper for seepage (9.6 to 9.8 ppg).

After drilling out of the intermediate casing (7-7/8" hole size) the well will be drilled directionally. At 5400' the well will be kicked off, and the angle will be built at 1.5 degrees per 100 ft until a maximum angle of 17.2 degrees is achieved. This angle will be held to TD. The wellbore will take a west-southwesterly direction.

5-1/2", 17#, N80 & USS95 LT&C production casing will be set at 12,170' MD, 11,900' TVD in 7-7/8" hole. Well will be cemented bringing top of cement to 8000'. This portion of the well will be drilled with fresh water to approximately 8500' TVD, then 9.6 to 9.8 ppg brine will be used to approximately 10,000' TVD. At 10,000' TVD the well will be mudded up with a XCD polymer/PAC mud system weighing 10.0-10.5 ppg. This mud will be used to TD.