

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

Form C-101

March 4, 2004

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 - 025-29133
⁴ Property Code 8656	⁵ Property Name State DW	⁶ Well No. 11

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
M	12	18S	33E		990	south	660	west	Lea

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
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⁹ Proposed Pool 1 EK; Yates-Seven Rivers-Queen 19950	¹⁰ Proposed Pool 2
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¹¹ *Drilling Pit Location and Other Information

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County	
Depth to ground water			N/A			Distance from nearest fresh water well			N/A	
Distance from nearest surface water			N/A							
¹¹ Work Type Code P		¹² Well Type Code O		¹³ Cable/Rotary R		¹⁴ Lease Type Code S - LG1543		¹⁵ Ground Level Elevation 4010.1'		
¹⁶ Multiple No		¹⁷ Proposed Depth TD-9050' PB-8565'		¹⁸ Formation Queen		¹⁹ Contractor N/A		²⁰ Spud Date 6/8/04		

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"	48#	375'	500	Surf-Circ
11"	8-5/8"	24-32#	3160'	1250	Surf-Circ
7-7/8"	5-1/2"	15.5-17#	9050'	1315	3227' CGBL
Permit Expires 1 Year From Approval					
Date Unless Drilling Underway					

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.

*No pits will be used, only frac tanks. See other side for additional information.

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:

Printed name:

David Stewart

Title:

Sr. Regulatory Analyst

E-mail Address:

david_stewart@oxy.com

Date:

6/7/04

Phone:

432-685-5717

OIL CONSERVATION DIVISION

Approved by:

Title:

PETROLEUM ENGINEER

Approval Date:

Expiration Date:

Conditions of Approval:

JUN 14 2004

Attached ☐

**STATE DW #11
YATES 7RVS QUEEN PLUGBACK PROCEDURE**

EXISTING CONDITIONS:

TD @ 9,050' PBD @ 9,008' KB = 15'

RECOMMENDED PROCEDURE:

1. **Move In Workover Rig** - Check location for overhead power lines and discuss other safety concerns about rigging up. Hold tailgate safety meeting on procedure and equipment spacing. MIRU PU and steel tank. POOH w/Rods and pump. ND WH. NU BOP. POOH w/Tbg
2. **Blank Off Bone Springs** - RU Baker Atlas. RIH w/5 ½" CIBP and set @ 8600'. POOH w/setting tools. RIH w/bailer and dump 3 sx cement on top of CIBP.
3. **Perforate Yates** - RIH w/4" csg guns loaded 2 SPF. Perforate Yates 7 Rivers Queen formation as follows correlating to Schlumberger Compensated Neutron log dated 3/19/1985:

Zone	Depth
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Yates 7 Rivers Queen	4,336, 37, 38, 39, 40, 41, 42' 4,353, 54, 55, 56, 57, 58'
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	Total – 28 holes

POOH with perforating guns. RD Baker Atlas. RIH w/5 ½" Baker Loc-Set PKR on 2 7/8" work string. Set PKR approx 4,250'.

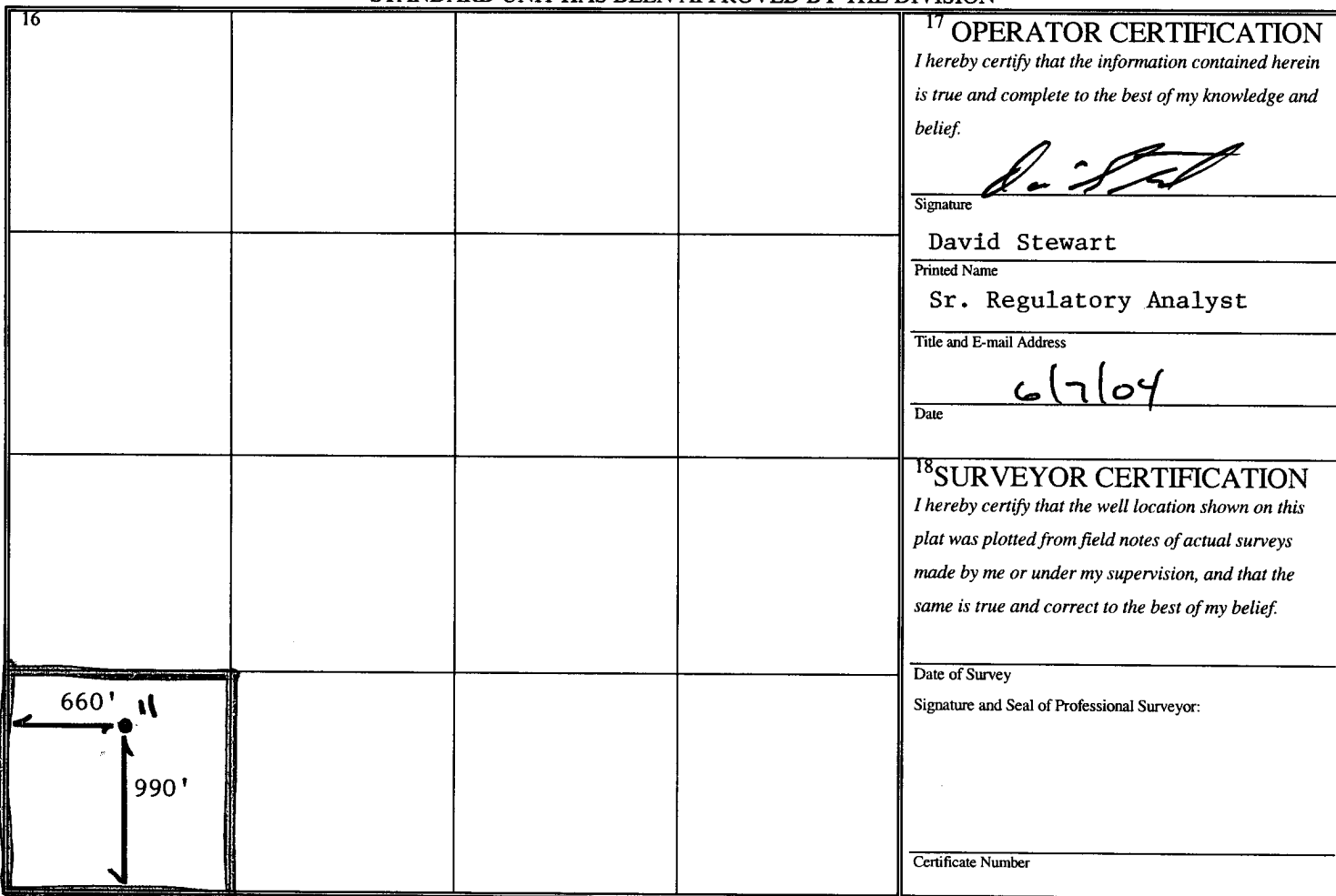
4. **Acidize**– R/U Halliburton to acidize the Yates 7 Rivers Queen Perforations with 2500 gals 17% Ferchek SC Acid (0.3%):. The treatment will be 5 bpm with an anticipated treatment pressure of 3000psi. Approximately 39 ball sealers will be used for diversion. The treatment will be flushed using 2% KCL Water.

Steps	Packer (depth)	CIBP (depth)	Perforations (depth)	Acid Vol (gallons)	Pump Rates (bpm)	Ball Sealers (#)
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	4,275'	8,600'	4,336-58'	1500	5	39

- 1st Drop ball sealers in acid. Total of 39 ball sealers.
- 2nd Flush to bottom perms.

RD HALCO. Flow well back. Prep to Frac.

5. **Frac Queen**– R/U Halliburton to stimulate the Yates 7RVS-Queen formation using SilverStim LT Basic (15). The treatment rate will be 20 bpm with an anticipated WHTP of 4,000 psi. Treatment will be down 2-7/8" tubing with the packer set at approximately 4,000 ft. Approximately 30,000 lbs of 16/30 Brady Sand and 20,000 lbs 16/30 mesh Super LC sand will be placed during the treatment. Flush to the top perforation. It is also recommended to load the annulus with 2% KCL water and hold a minimum of 500 psi on it during the frac job.
6. **Put on production** – REL PKR. POOH W/2 7/8" TBG. RIH w/MA, Perf Sub, SN, 6 Jts 2 7/8" tbg and TAC on 2 7/8" tbg. ND BOP. NU WH. RIH w/Pump and rods. Install PU. Put well on production.



990' FSL, 660' FWL, Sec. 12, T18S, R33E, Eddy Co., NM

OXY USA Inc.
STATE DW #11

JDavis 4/28/2004

WI: 85%

