

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
June 16, 2008

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

Submit to appropriate District Office

☐ AMENDED REPORT

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

¹ Operator Name and Address Devon Energy Production Company L.P. 20 North Broadway OKC, OK 73102-8260		² OGRID Number 6137
³ Property Code 309517		⁴ Property Name Oxy Pearl State
⁵ Proposed Pool 1 Winchester		⁶ Well No 2

⁷ Surface Location

UL or lot no A	Section 32	Township 19S	Range 29E	Lot Idn	Feet from the 860	North/South line North	Feet from the 660	East/West line East	County Eddy
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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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Additional Well Information

¹¹ Work Type Code Recomplete	¹² Well Type Code Oil	¹³ Cable/Rotary R	¹⁴ Lease Type Code State	¹⁵ Ground Level Elevation 3280' GL
¹⁶ Multiple N	¹⁷ Proposed Depth 11,400' (Actual)	¹⁸ Formation Strawn	¹⁹ Contractor	²⁰ Spud Date 12/04/99
Depth to Groundwater		Distance from nearest fresh water well		Distance from nearest surface water
Pit Liner Synthetic <input type="checkbox"/> _____ mils thick Clay <input type="checkbox"/> Pit Volume: _____ bbls				
Closed-Loop System <input checked="" type="checkbox"/> Drilling Method: Fresh Water <input type="checkbox"/> Brine <input type="checkbox"/> Diesel/Oil-based <input type="checkbox"/> Gas/Air <input type="checkbox"/>				

²¹ Current 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#	400'	500 sx CLC	Surface
11"	8 5/8"	32#	3000'	990 sx CLC	Surface
7 7/8"	4 1/2"	11 6#	11400'	935 sx CLH	TOC @ 8510' (Calculated)

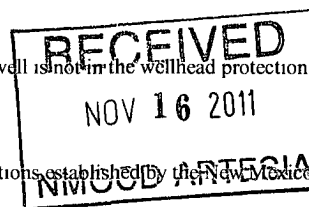
²² Describe the proposed program. If this application is to DEEPEN or PLUG BACK, give the data on the present productive zone and proposed new productive zone. Describe the blowout prevention program, if any. Use additional sheets if necessary

Devon proposes to recomplete well to Bone Springs from the Strawn; see attached procedures:

- Depth to groundwater is 50' or more, but less than 100', distance to surface water is approx 1000' or more, well is not in the wellhead protection area.
- No earthen pit to be constructed, closed loop system to be utilized, Form C-144 CLEZ attached.
- No H2S is expected to be encountered; H2S plan provided 3000 psi BOP to be used.
- Completion papers to be filed if a successful test; or subsequent report of work if no economic reserves
- If well is deemed non-commercial, it will be plugged and abandoned in accordance with the rules and regulations established by the New Mexico OCD.

Note: CIBP to be set @ 10,265'.

Permit Expires 2 Years From Approval Date Unless Drilling Underway Plugback



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 ☐.

Printed name: Stephanie A. Ysasaga
Title: Sr Staff Engineering Technician
E-mail Address: Stephanie.Ysasaga@dm.com
Date: 11/14/2011

Phone: (405)-552-7802

OIL CONSERVATION DIVISION

Approved by:

Title:

Approval Date: NOV 18 2011

Expiration Date: Nov 18, 2013

Conditions of Approval Attached ☐

dm



Oxy Pearl State #2
API #: 30-015-30851
Sec. 32-T19S-R29E; 860' FNL & 660' FEL
Parkway West Field
Eddy County, NM

GL:	3280'	KB:	3297' (17')
TD:	11,575'	PBTD:	10,265' (TA'd w/ CIBP)
Casing:	13-3/8" 48# H-40 @ 400' (TOC @ surface)		
	8-5/8" 32# K-55 @ 1305' (TOC @ surface)		
	4-1/2" 11.6# N-80 @ 11,575' (calculated TOC @ 8510')		
Tubing:	2-3/8" 4.7# N-80 EUE @ ~9900' (314 jts)		

AFE #: 202771

Objective:

Shoot squeeze holes and raise TOC above target zone. Recomplete to the 1st Bone Spring Lime and stimulate with a two-stage sand frac.

Procedure:

1. Set heater treater and oil tank to prepare battery for oil production. Set 320 pumping unit. Test safety anchors. MIRU workover unit. ND tree & NU BOP.
2. TOH and lay down 2-3/8" tubing. Send tubing to Pipeco for inspection.
3. RU wireline. RIH w/ gauge ring/junk basket and tag CIBP @ 10,265'. Test casing to 500 psi. RIH w/ cement bailer and dump bail 40' cement on CIBP.
4. RIH w/ SLB UCI (Ultrasonic Corrosion Inspection) log. Log from 10,000' to surface. Note TOC.
5. RIH w/ guns. Shoot squeeze holes 1' x 4 SPF at +/- 6900'. Open 8-5/8" wellhead valve and attempt to break circulation down 4-1/2" casing. If successful RD WL.
6. RU BHI cementing crew. Mix and pump cement down 4-1/2" casing per BHI recommendation. Drop wiper plug and displace cement to +/- 6800'.
7. Deliver new 2-3/8" L-80 tubing. TIH w/ 3-7/8" bit and clean out cement to +/- 6800'. Circulate hole w/ 2% KCl. TOH.
8. RU wireline. RIH w/ CBL and log from 6750' to 200' above TOC. If TOC is below 4500' discuss with OKC before proceeding.
9. Load 4-1/2" x 8-5/8" annulus w/ 2% KCl. Test 4-1/2" casing to 4500 psi (max frac pressure; 60% of casing burst) for 15 mins.



10. RIH w/ 3-1/8" TAG perf guns loaded 4 SPF 90° phased. Correlate to Baker Compensated Z-Densilog dated 1/10/2000. Perforate the lower 1st Bone Spring Lime 6615'-6626' (11 ft; 45 holes total).
11. NU 5K frac valve. RU BHI frac crew. Frac stage 1 perforations 6615'-6626' down 4-1/2" casing per BHI recommendation. Do not exceed maximum surface treating pressure of 4500 psi.
12. RU wireline w/ 5K lubricator. RIH w/ composite frac plug w/ caged ball and 3-1/8" TAG perf guns loaded 4 SPF 90° phased. Set frac plug at +/- 5400'. PUH and perforate the upper 1st Bone Spring Lime 5293'-5302' (9 ft; 37 holes total). RD WL.
13. Frac stage 2 perforations 5293'-5302' down 4-1/2" casing per BHI recommendation. Do not exceed maximum surface treating pressure of 4500 psi. RD BHI.
14. Begin flowing well back at 1/2 BPM for first 4 hrs, then slowly increase rate to 1 BPM for next 4 hrs. Open well to 2 BPM until well dies. ND frac valve.
15. RU reverse unit. TIH w/ 3-7/8" bit and drill/knock out CFP at 5400'. Clean out to PBTB at 6800'. TOH.
16. TIH w/ sand screen, SN, TAC, and 2-3/8" production tubing. Set EOT at +/- 6700' with TAC at +/- 5200'.
17. TIH w/ pump and rods per attached RodStar design. RDMO workover unit. Turn well over to production.

S. Jones
10/6/11

Reference:

4-1/2" 11.6# N-80	Burst:	7780 psi
	Collapse:	7010 psi
	ID:	4.000"
	Capacity:	0.01554 bbl/ft
2-3/8" 4.7# L-80	Burst:	11,200 psi
	Collapse:	11,780 psi
	Tension:	104,340 lb
	ID:	1.995"
	Capacity:	0.00387 bbl/ft

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

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

DISTRICT III
1000 Rio Brazos Rd., Artesia, NM 87410

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-102
Revised February 10, 1984
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

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-015-30851	Pool Code 45010	Pool Name Winchester	BONE SPRINGS
Property Code 309517	Property Name OXY PEARL STATE		Well Number 2
OCRID No. 6137	Operator Name DEVON ENERGY PRODUCTION CO., LP.		Elevation 3280'

Surface Location

UL or lot No. A	Section 32	Township 19 S	Range 29 E	Lot Idn	Feet from the 860	North/South line NORTH	Feet from the 660	East/West line EAST	County EDDY
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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
					Dedicated Acres 40	Joint or Infill	Consolidation Code	Order No.	

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

				OPERATOR CERTIFICATION I hereby certify the the information contained herein is true and complete to the best of my knowledge and belief. Signature STEPHANIE A. YSASAGA Printed Name ENGINEERING TECH Title 11/14/2011 Date
				SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief. November 29, 1999 Date Surveyed Signature & Seal Professional Surveyor Certificate No. 9417A BASIN SURVEYS