

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

HOBBS OCD
OCT 05 2011
RECEIVED

State of New Mexico
Energy Minerals and Natural Resources

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

Form C-101
June 16, 2008

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, LP		² OGRID Number 6137
		³ API Number 30 - 025-35243
⁴ Property Code 30875	⁵ Property Name Outland State Unit	⁶ Well No 3
⁷ Proposed Pool 1 WILCATE DELAWARE (97821)		¹⁰ Proposed Pool 2

UL or lot no	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	11	21S	34E		660'	South	990'	East	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

Additional Well Information

¹¹ Work Type Code	¹² Well Type Code	¹³ Cable/Rotary	¹⁴ Lease Type Code S	¹⁵ Ground Level Elevation 3,675'
¹⁶ Multiple	¹⁷ Proposed Depth TD: 13,070' PBTD: ~8200'	¹⁸ Formation New formation L Brushy Canyon	¹⁹ Contractor	²⁰ Spud Date 11/26/2000

²¹ Proposed Casing and Cement Program

Hole Size	Casing Size	Casing weight/foot	Setting Depth	Sacks of Cement	Estimated TOC
17 1/4"	13 3/8"	54 50# J-55	1417'		Surface
12 1/2"	9 5/8"	40.00# K-55	5730'		Surface
7 3/4"	5 1/2"	17 00# N-80	8587'		
7 3/4"	5 1/2"	17 00# P-110	13,070'		7840'

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.

- 1) MIRU Check tbg pressure ND WH NU 5K manual BOP POOH w/tbg & O/O tool.
- 2) RU WL RIH w/gauge ring to 8430' RIH w/5 1/2" CIBP. Set @ ~8430' Dump bail two runs of cmt on top to cover AvS perfs RIH w/second CIBP & set at top of BS zone @ ~8200' Dump bail 35' cmt
- 3) Have WL run a CBL from 8100' to 200' above TOC Shoot squeeze holes 4SPF/90 deg phasing above TOC 4 total shots RDWL
- 4) RIH w/cmt retainer on tbg Set retainer above squeeze holes Sting out of retainer & make sure circ can be established Sting back into retainer open up intermediated valve
- 5) Squeeze cmt Sting out of retainer & reverse circulate cmt to half pit. POOH w/tbg
- 6) RIH w/bit, DCs & tbg Drill out retainer & cmt to PBTD @ ~8200' CHC & test csg RU WL Run CBL from ~8200' - TOC
- 7) Perforate L Brushy Canyon w/38 total holes 8020-22' 4 holes, 8038-40' 4 holes, 8064-66' 4 holes, 8069-72' 6 holes, 8076-81' 10 holes 8091-96' 10 holes
- 8) RD WL RIH w/2 7/8" tbg & 10K HD pkr Hydrotest tbg to 8500# below slips Set pkr @ ~7975 Test back side to 500#
- 9) RU frac crew Frac L Brushy Canyon perfs down tbg Spearhead in w/2500 gal 7 5% HCL acid & frac w/2000#s of and Frac 0 5# to 3# white, 20/40 & 4#-5# w/SiberProp 16/30
- 12) Flow well back POOH w/tbg & pkr RIH w/notched collar & bailer Bail sand to PBTD RIH w/28' sand screen & SN on tbg Set SN @ ~8125' TAC @ ~7920'
- 13) RIH w/pump & filter Plum wellhead for rod pump RDMO PU Set Pumping unit

²³ I hereby certify that the information given above is true and complete to the best of my knowledge and belief

Signature 		OIL CONSERVATION DIVISION	
Printed name Spence Laird		Approved by 	
Title Regulatory Analyst		Title PETROLEUM ENGINEER	
E-mail Address spence.laird@dvn.com		Approval Date OCT 07 2011	
Date 10/5/2011		Expiration Date	
Phone 405-228-8973		Conditions of Approval Attached <input type="checkbox"/>	

Permit Expires 2 Years From Approval
Date Unless Drilling Underway
Plugback

1425 N French Dr., Hobbs, NM 88240

DISTRICT IX

811 South First, Artema, NM 88210

DISTRICT III

1009 Rio Grande Rd., Artes, NM 87410

DISTRICT IV

2040 South Paseo, Santa Fe, NM 87505

State of New Mexico

Energy, Minerals and Natural Resources Department

Form C-102

Retired March 17, 1999

Submit to Appropriate District Office

State Lease - 4 Copies

Per Lease - 3 Copies

OIL CONSERVATION DIVISION

2040 South Pacheco

Santa Fe, New Mexico 87504-2088

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-025-35243 ✓	Pool Code 97821	Pool Name WILDCAT-Delaware
Property Code 24090 30825	Property Name OUTLAND STATE UNIT	Well Number 3
SEPTD No. 6137 ✓	Operator Name Devon Energy Production Company, LP	Elevation 3875'

Surface Location

U/L or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	11	21 S	34 E		660	SOUTH	990	EAST	LEA

Bottom Hole Location If Different From Surface

U/L or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
Dedicated Acres 320	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

<div style="border: 1px dashed black; height: 400px; margin-bottom: 20px;"></div> <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p>Lat - N32°29'16.8"</p> <p>Lon - W103°27'08.4"</p> </div> <div style="width: 45%; text-align: center;"> </div> </div>	<div style="border: 1px solid black; padding: 5px; margin-bottom: 10px;"> <h3 style="text-align: center; margin: 0;">OPERATOR CERTIFICATION</h3> <p style="font-size: small; margin: 5px 0;">I hereby certify the the information contained herein is true and complete to the best of my knowledge and belief</p> <hr/> <p style="margin: 0;">Signature: <u>Spence Laird</u></p> <hr/> <p style="margin: 0;">Printed Name: <u>Spence Laird</u></p> <hr/> <p style="margin: 0;">Title: <u>Regulatory Analyst</u></p> <hr/> <p style="margin: 0;">Date: <u>November 6, 2011</u></p> <hr/> </div> <div style="border: 1px solid black; padding: 5px;"> <h3 style="text-align: center; margin: 0;">SURVEYOR CERTIFICATION</h3> <p style="font-size: small; margin: 5px 0;">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</p> <hr/> <p style="text-align: center; margin: 0;">October 6, 2000</p> <hr/> <p style="margin: 0;">Date Surveyed: _____</p> <hr/> <p style="margin: 0;">Signature: <u>[Signature]</u></p> <hr/> <p style="margin: 0;">Professional Surveyor</p> <hr/> <div style="text-align: center;"> </div> <hr/> <p style="margin: 0;">Certificate No. <u>7977</u></p> <hr/> <p style="margin: 0;">Surveyor: <u>Gary L. Laird</u></p> </div>
--	---

Outland State Unit #3

Objective - Raise top of cement & complete in the L Brushy CYN

API# - 30-025-35243
GL - 3,675'

Location - Lea Co. -- Sec 11-21S-34E
KB - 3,692' (17')

Procedure

- 1) Previous AvS perfs had H₂S of 25,000ppm**. Check tubing pressure and make sure blanking plug has held. ND WH. NU 5K manual BOP. Get off O/O tool. POOH w/ tubing & O/O tool.
- 2) RU WL. RIH w/ gauge ring to 8430'. POOH. RIH w/ 5-1/2" CIBP. Set @ ~8430'. Dump bail two runs of cement on top to cover AvS perfs. POOH. RIH w/ second CIBP and set at top of BS zone @ ~8200'. Dump bail 35ft of cement. Test to 1000psi.
- 3) Have WL run a CBL from 8100' to 200ft above TOC. SLB CBL quits @ 7700' & is hard to tell if there are no cement stringers. Shoot squeeze holes 4SPF/90° phasing above TOC 4 total shots. RDWL.
- 4) RIH w/ cement retainer on tbg. Set retainer above squeeze holes. Sting out of retainer & make sure circulation can be established. Sting back into retainer open up intermediate valve. Establish an injection rate and monitor backside for flow.
- 5) Squeeze cement as per BHI design. Sting out of retainer & reverse circulate cement to half pit. POOH w/ tubing.
- 6) RIH w/ 4-3/4" bit, DCs, & tubing. Drill out retainer & cement to PBTD at ~8200ft. Circulate hole clean & test casing to 1000psi. Check for leak off. POOH.
- 7) RU WL. Run CBL from ~8200 to TOC. Make note if cement does not cover Cherry Canyon zone (6800'-6900').
- 8) Perforate L Brushy Canyon w/ 38 total holes as follows:

Formation	Perf Interval (ft)	Feet	Density (spf)	Phasing (°)	Charge (in)	# of Holes
L Brushy	8020-8022	2	2	60	0.43	4
	8038-8040	2	2	60	0.43	4
	8064-8066	2	2	60	0.43	4
	8069-8072	3	2	60	0.43	6
	8076-8081	5	2	60	0.43	10
	8091-8096	5	2	60	0.43	10

- 9) RD WL. RIH w/ 2-7/8 tubing & Weatherford 10K HD packer. Hydrotest tubing to 8500psi bellow slips. Set packer @ ~7975'. Pressure test back side to 500psi.
- 10) RU BHI frac crew. Have 500psi on packer throughout job. Frac L. Brushy perfs down tubing. Spearhead in w/ 2500gals 7.5% HCL acid & frac w/ 200,000#s of sand total. Frac 0.5# to 3.0# with White, 20/40 & 4.0# - 5.0# with SiberProp 16/30 as per BHI proposal. RD BHI.
- 11) Flow well back @ 30 bbl/hr until rate starts to decrease (at least 3 hours). Open well up to 60 bbl/hr until well dies.

- 12) POOH w/ tubing & packer. RIH w/ notched collar & bailer. Bail sand to PBTD.
- 13) RIH w/ 28ft sand screen & SN on tubing. Set SN at ~8125. TAC at ~7920.
- 14) RIH w/ 1-3/4" pump w/ Stanley filter. See Rodstar report for design. Plumb up wellhead for rod pump. RDMO PU. Will set Big Bear 912-365-144 pumping unit after we have rigged down.

DEVON ENERGY PRODUCTION COMPANY LP

Well Name: Outland State Unit #3		Field: Wilson	
Location: 660' FSL & 990' FEL; SEC 11-T21S-R34E		County: Lea	State: NM
Elevation: 3892' KB; 3875' GL; 17' KB to GL		Spud Date: 11/26/00	Compl Date: 12/18/07
API#: 30-025-35243	Prepared by: Ronnie Slack	Date: 9/26/11	Rev:

CURRENT WELLBORE

17-1/2" hole
13-3/8", 54.5#, J55, @ 1417'
 Cmt'd w/ 1150 sx to surface

12-1/4" hole
9-5/8", 40#, K55, @ 5730'
 Cmt'd w/ 1950 sx to surface

TOC @ 7840' (cbl)

2-7/8", 6.5#, L80, production tubing

On/Off Tool
Packer @ 8462'
 S lock blanking plug @ 8467' in F profile
 Wireline guide

Composite Flow Thru-Bridge Plug @ 9000' (7/15/11)

AVALON SHALE (7/15/11)
8523' - 8830'

7/23/11 Frac w/53K #

AVALON SHALE (7/15/11)
9213' - 9349'

7/11/11 Frac w/110K#

WOLFCAMP (12/13/07)
11352' - 11358'; 11361' - 11363'
11367' - 11372'; 11376' - 11378'

12/14/07 acidized w/2000 gals 15% NeFe + 8500 gals 15% gelled acid

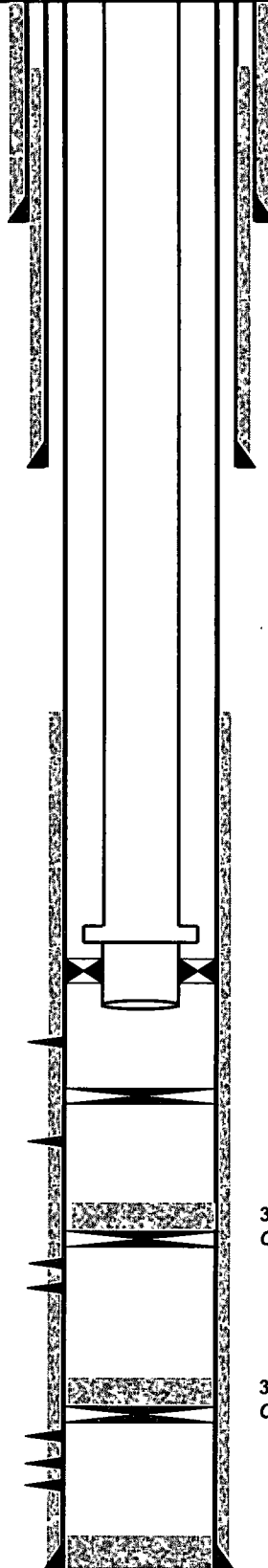
35' cement. 11,135' PBD
CIBP @ 11,170' (7/7/11)

MORROW (2/01)
12756' - 12774'; 12786' - 12792
12795' - 12800'; 12802' - 12806'
12822' - 12826'; 12829' - 12840'

35' cement. 12,690' PBtD
CIBP @ 12,725' (12/12/07)

8 3/4" Hole
5-1/2", 17#, N80 & P110 @ 13,070'
 Cmt'd w/ 985 Sx.

13,070' TD



DEVON ENERGY PRODUCTION COMPANY LP

Well Name: Outland State Unit #3		Field: Wilson	
Location: 660' FSL & 990' FEL; SEC 11-T21S-R34E		County: Lea	State: NM
Elevation: 3892' KB; 3875' GL; 17' KB to GL		Spud Date: 11/26/00	Compl Date: 12/18/07
API#: 30-025-35243	Prepared by: Ronnie Slack	Date: 9/26/11	Rev:

PROPOSED SQZ & LBC RECOMPLETION

17-1/2" hole
13-3/8", 54.5#, J55, @ 1417'
 Cmt'd w/ 1150 sx to surface

12-1/4" hole
9-5/8", 40#, K55, @ 5730'
 Cmt'd w/ 1950 sx to surface

Existing TOC @ 7840' (cbl) →

Proposed Perfs.

1. Lower Brushy Canyon 8020' - 8096'
2. Frac w/2500 gals 7.5% HCl 200K# sand
3. Put well on rod pump.

Proposed
 1. run cbl, verify toc
 2. shoot sqz holes & raise toc to 6800'.
 (cherry canyon 6800-6900)

Proposed:
 CIBP @ ~8200 W/35' cmt on top. 8165' PBD.

Proposed.
 CIBP @ ~8430 W/35' cmt on top

Packer @ 8462'
 S lock blanking plug @ 8467' in F profile
 Wireline guide

Composite Flow Thru-Bridge Plug @ 9000' (7/15/11)

35' cement. 11,135' PBD
CIBP @ 11,170' (7/7/11)

35' cement. 12,690' PBD
CIBP @ 12,725' (12/12/07)

AVALON SHALE (7/15/11)
8523' - 8830'

7/23/11 Frac w/53K #

AVALON SHALE (7/15/11)
9213' - 9349'

7/11/11 Frac w/110K#

WOLFCAMP (12/13/07)

11352' - 11358'; 11361' - 11363'

11367' - 11372'; 11376' - 11378'

12/14/07 acidized w/2000 gals 15% NeFe + 8500 gals 15% gelled acid

MORROW (2/01)

12756' - 12774'; 12786' - 12792'

12795' - 12800'; 12802' - 12806'

12822' - 12826'; 12829' - 12840'

8 3/4" Hole
5-1/2", 17#, N80 & P110 @ 13,070'
 Cmt'd w/ 985 Sx

13,070' TD

L Brushy Perfs

