

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

FEB 10 2009

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 30660		⁴ API Number 30-015-24827
⁵ Property Name Weems		⁶ Well No 1
⁹ Proposed Pool 1 South Carlsbad, Morrow		¹⁰ Proposed Pool 2

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
C	27	22S	27E		990	North	1330	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
C	27	22	27E		990	North	1330	West	Eddy

Additional Well Information

¹¹ Work Type Code Recomplete	¹² Well Type Code Gas	¹³ Cable/Rotary R	¹⁴ Lease Type Code State	¹⁵ Ground Level Elevation 3108.4' GL
¹⁶ Multiple N	¹⁷ Proposed Depth 12,032' (Actual)	¹⁸ Formation Wolfcamp	¹⁹ Contractor	²⁰ Spud Date 02/01/2000
Depth to Groundwater		Distance from nearest fresh water well		Distance from nearest surface water
²¹ Proposed Casing and Cement Program				

Pit	Liner	Synthetic <input type="checkbox"/>	mils thick	Clay <input type="checkbox"/>	Pit Volume	bbls	Drilling Method
Closed-Loop System (C-144 CLEZ attached) <input checked="" type="checkbox"/>					Fresh Water <input type="checkbox"/> Brine <input type="checkbox"/> Diesel/Oil-based <input type="checkbox"/> Gas/Air <input type="checkbox"/>		

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"	54.5#	455'	1000 ss CLC	Surface
12 1/2"	9 5/8"	40#	5505'	2575 ss CLC	Surface
8 1/2"	5 1/2"	20#	12032'	715 ss CLH	TOC @ 8850'

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 squeeze off old perfs and recomplete the Morrow; 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, see attached Form C-144 CLEZ
- No H2S is expected to be encountered, H2S plan provided 5000 psi Double and HydriL with drilling spool & rotating head to be used
- Completion papers to be filed if a successful test, or subsequent report of work if no economic reserves
- If it is deemed non-commercial then it will be plugged and abandoned in accordance with the rules and regulations established by the New Mexico OCD

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@dmv.com
Date: 02/09/2009
Phone: (405)-552-7802

OIL CONSERVATION DIVISION

Approved by

Title

Approval Date

Expiration Date

Conditions of Approval Attached ☐

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 2082, Santa Fe, NM 87504-2082

State of New Mexico
Energy, Minerals & Natural Resources Department

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

Form C-102

Revised February 10, 1994

Instructions on back

Submit to Appropriate District Office

State Lease - 4 Copies

Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-015-24827	Pool Code 73960	Pool Name South Carlsbad; Morrow
Property Code 30660	Property Name Weems	Well Number 1
GRID No. 6137	Operator Name ✓ Devon Energy Production Co. L.P.	Elevation 3108.4' GL

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
C	27	22S	27E		990	North	1330	West	Eddy

¹¹ 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
¹² Dedicated Acres 320		¹³ Joint or Infill		¹⁴ Consolidation Code		¹⁵ 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

¹⁶ 	¹⁷ OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief. Signature: Printed Name: Stephanie A. Yasaga Title: Sr. Staff Eng Tech Date: 02/09/2009	
	¹⁸ 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. Date of Survey: Signature and Seal of Professional Surveyor: See Initial C-102 for stamp/seal. Certificate Number:	

NEW MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACREAGE DECLARATION PLAT

Form O-102
Supersedes O-12
Effective 1-1-75

All distances must be from the outer boundary of the well.

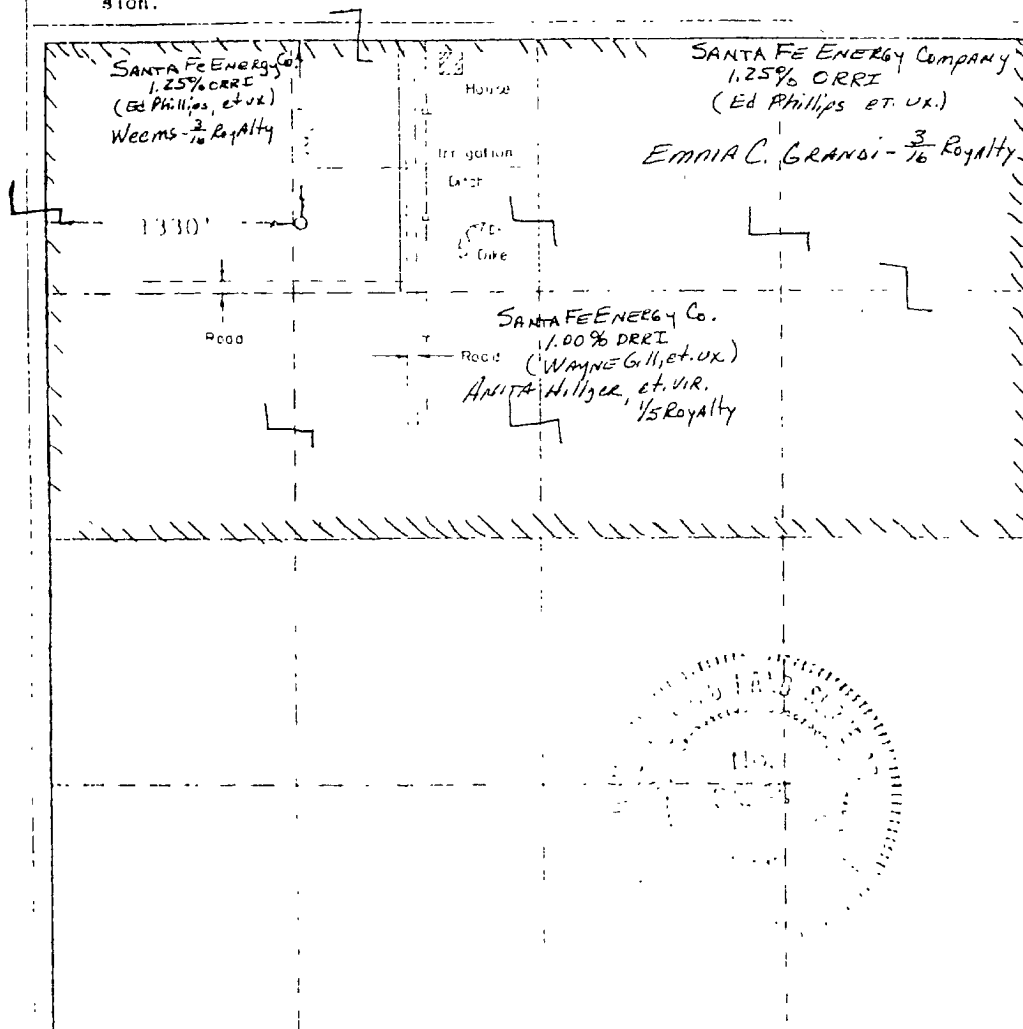
Operator Santa Fe Energy Company		Location Weems	
Well Letter C	Section 27	Township 22 south	Range 27 East
Actual Footage Location of Well 990			
Ground Level Elev 3108.1	County Undesignated S. Carlsbad		Section 320

1. Outline the acreage dedicated to the subject well by colored pencil or machine marks on the plat below.
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc?

☒ Yes ☐ No If answer is "Yes," type of consolidation Designation of Consolidated Gas Leasehold Estate

If answer is "No," list the owners and tract descriptions which have actually been consolidated (on reverse side of this form if necessary.)

No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission.



CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

Michael R. Burton
Name
Senior Drilling Engineer

Santa Fe Energy Company

February 23, 1984

I hereby certify that the well location shown on this plat was plotted from field notes or actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

1984
Completed and filed in the presence of
Notary Public

Donald J. Elston
Notary Public
JOHN W. VEST
Donald J. Elston 322

Devon Energy Corporation
Workover Procedure
Weems #1
990' FNL & 1330' FWL - S27 – T22S – R27E
Eddy County, NM
 AFE # API # 30-015-24827 WI= 100%

Objective: Squeeze off old perms and recomple to Morrow.

Well Data:

Surface Casing:	13-3/8" 54.5# H-40, STC @ 435' (TOC surface)
Intermed Casing:	9-5/8" 40# K-55 STC @ 5505' (TOC surface – DVT @1849')
Production Casing:	5-1/2" 17/20# N-80 LTC @ 12,032' (TOC @ 9,100')
PBTD:	CIBP at 10,450' w/ 60' cmt, CIBP at 11,098' w/ 60' cmt, Guiberson Uni-VI at 11,390' w/ TCP laying on top, and PBTD at ~11,850'.
Fish:	Casing scraper and bit on bottom (PBTD) at ~11,850'
Elevation:	3108' GL 3128' KB Drilled 1984
Tubing:	2-3/8" 4.7# N-80 EUE 8rd AB-Mod (280 jts – EOT 8,965')
Packer:	Guiberson Uni-VI at 8947'
Isolated Perfs:	10,510'-56' (Strawn – squeezed but leaking) 11,128'-34' (Atoka – open) 11,578'-86' and 11,630'- 38' (Morrow – open but never stimulated)
Open Perfs:	9,062'-84' and 9,104'-14' (Wolfcamp)
Proposed Perfs:	11,678-81 and 11,808'-12' Morrow

Procedure:

1. RUPU. Kill well with 20 bbls lease water down tubing. ND tree. NU BOP.
2. Release packer and POOH. RIH w/ cement retainer (CR) on tubing (test tubing in hole).
3. Set CR at ~9,000'. Establish injection rate. Test casing to 1000 psig. RU BJ Services. Test lines. Mix and pump as per recommendation. Under displace by 2 bbls. Stage until squeeze will hold 1000 psig. Snap out of CR. Dump ~1 bbl cement on CR. PUH 30'. Reverse ~75 bbls. POOH. LD stinger.
4. RIH w/ 4 5/8" bit and drill collars on tubing to TOC. RU reverse unit, rotating head, and power swivel. Test casing to 1000 psig. Drill out CR and cement to ~9,115'. Pressure casing to 1000 psig. If holds drill out next plug at 10,450' (TOC at 10,390'). Note: be prepared to gas bubble below CIBP. Attempt to test casing to 1000 psig but expect Strawn perms to leak. POOH.

5. RIH CR on tubing to ~10,430' and set. Establish injection rate. Test casing to 1000 psig. RU BJ Services. Test lines. Mix and pump as per recommendation. Under displace by 2 bbls. Stage until squeeze will hold 1000 psig. Snap out of CR. Dump ~1 bbl cement on CR. PUH 30'. Reverse ~85 bbls. POOH. LD stinger.
6. RIH w/ bit and drill collars on tubing to TOC. RU reverse unit, rotating head, and power swivel. Test casing to 1000 psig. Drill out CR and cement to ~10,560'. Pressure casing to 1000 psig. If holds drill out next cement plug at 11,038'. Drill out cement to CIBP located at 11,098'. Note: Do not drill out CIBP with bit since a fish is located below plug. Pressure test casing to 1000 psig. POOH.
7. RIH with 4 1/2"x6' shoe, bumper sub and drill collars on tubing to CIBP at 11,098'. RU reverse unit, rotating head, and power swivel. Test casing to 1000 psig. Cut over CIBP and push to top of fish (Vann TCP guns) at 11,390'. POOH. If CIBP not stuck in shoe, RIH with overshot and fish CIBP.
8. Fish Vann gun with overshot. Test casing to 1000 psig but Atoka perms will be open.
9. Retrieve packer with top half of on-off tool.
10. RIH w/ over shot and fish casing scraper and bit left on bottom ~11,850'.
11. RIH with bit and drill collars. Drill out cement to ~11,900' for rat hole. POOH.
12. If Atoka perms not able to hold pressure, squeeze off with packer and plug. Drill out.
13. RU wireline truck. RIH w/ Junk Basket/Gauge-ring/CCL tool to PBTD. Perforate Morrow w/ 3 1/8" guns loaded 3 spf 120° phasing from 11,678-81' (3') and 11,808'-12' (4') - Total 7' total and 21 holes.
Note: Tie to Schlumberger Open Hole logs dated 7/16/1984.
14. RIH w/ 5 1/2" 20# packer on 3 1/2" frac string and set at ~11,540'. ND BOP. NU Tree.
15. RU swab. Swab well down.
16. RU BJ Services and acidize as per prognosis. RD BJ.
17. RU swab. Swab down well.
18. RU BJ Services and frac down 3 1/2" tubing as per prognosis. RD BJ.
19. RU slickline unit. Set blanking plug in profile below packer. Pressure test. RD truck.
20. ND tree. NU BOP. Release o-o tool. POOH laying down frac string. RIH w/ o-o tool on 2 3/8" tubing. Latch and space out. ND BOP. NU tree.
21. RU swab. Swab well on production.
22. RDMO.

GBM 2/6/09