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

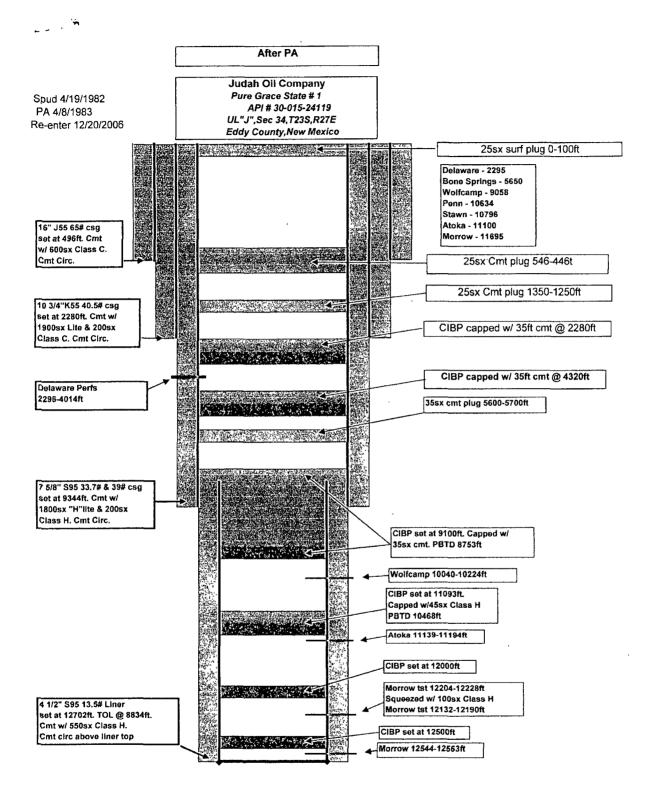
Form C-101 June 16, 2008

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

Submit to appropriate District Office

SEP 2 4 2008 ☐ AMENDED REPORT

APPL	ICATI	ON F	OR	PERMIT	<b>TO D</b>	RILL, RE-	ENTE	ER, D	EEPEN	<b>OCD-AR</b> N, PLUGBA	ES 16	R ADI	D A ZONE
				Operator Name						6137	<sup>2</sup> OĞRID	Number	
Devon Energy Production Company L P 20 North Broadway OKC, OK 73102-8260								<sup>3</sup> API Number 30-015-24119					
Property Code Property												° Well	No
-2/	717		9 D-	roposed Pool I		Pure Grace	State			10 D	osed Pool 2	1	
			PI	Wolfcamp						•	osed Pool 2 Penn Shale	2	
· <sup>7</sup> Surface							Locat	ion					
UL or lot no	Section 34	Townshi 23S	ıp	Range 27E	Lot l	ldn Feet fig			outh line outh	Feet from the 1980	East/Wes East		County · Eddy
<sup>8</sup> Proposed Bottom Hole Location If Different From Surface													
UL or lot no	Section	Townsh	ф	Range	Lot	dn Feet fi	oin the	T		Feet from the	e East/West line		County
ı	34	238		27E	<b>A</b> d	lditional We			outh	1980	East	t	Eddy
11 Work	Type Code			12 Well Type Coo			e/Rotary	man		Lease Type Code		15 Groun	d Level Elevation
Reco	mplete			Gas		!	R			State			3171`GL
	ultiple N			17 Proposed Dept 12,703	h		mation now			19 Contractor			Spud Date 4/19/1982
Depth to Grou	ındwater				Distance	e from nearest fre	sh water v	well		Distance from	n nearest su	irface wat	er
Pit Liner	Synthetic		mils	thick Clay	Pit Vo	lumebbls		Drıll	ın <u>g Metho</u>	d			
Close	d-Loop Sys	stem 🖂						<u>Fr</u>	esh Water	Brine Di	esel/Oıl-bas	ed 🗌 🤇	Gas/Air
				21	Propos	sed Casing a	ınd Ce	ment	Prograi	n			
Hole S	ıze	(	Casın	g Size	Casing weight/foot			Setting Depth Sacks of Cer		ement	nent Estimated TOC		
20"			16	6"	65# I-55.ST&C			496'		600 sx CLC		· · · ·	Surface
14 3/3				3/,"	40.5# K-55 LT&C			2280'		2100 sx CLC			Surface
9 1/2			7 5/8° ·		7#/#39# S95 LT&C		9344'		2000 sx CLH 550 sx CLH		Surface		
0.72			4.	/2	13.3# 5/31.174			17707.		500 SX C			101 (0) 8 834
								e the dat	a on the pi	resent productive z	one and pro	oposed ne	ew productive zone
Devon proposes to re-enter PA'd well and drill out CIBP's to test the Wolfcamp & Upper Penn Shale. See attached procedures:  Depth to groundwater is 50° or more, but less than 100°, distance to surface water is approximately 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 filled 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  Note: If woll is productive in both zones; will produce the Wolfcamp up the backwill and Spect Pena Shale un the substitute.													
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Current Fo prior to co						mplete to the	JIL CONSERVATION DIVISION						
activities	mmence	ement	or a	rilling		ermit [], or	Аррг	ed by	hier	III S	ge.	~ ·	•
Printed name Stephanie A Ysasaga						Title	•		- (		VL	<b>4</b>	
Title Sr Staf	f Engineeri	ng Techn	ıcıan	1//			Approv	al Date	10/0	loc. E	xpiration D	Date 10	19/10
E-mail Addres	E-mail Address Stephanic Ysasaga@dvir.com												
Date 09/23/2	008			Phone (405)-	552-7802		Conditi	ons of A	pproval At	tached			ENTERED



## **Devon Energy Corporation DRAFT Pure Grace State 1** 1980' FSL & 1980' FEL - SEC 34 - T23S - R27E

**Eddy County, NM** 

AFE #145302 API # 30-015-24119 WI=100%

Objective:

Ι.

Re-entry PA'd well to the test the Wolfcamp and Upper Penn Shale (UPS).

#### Well Data:

Surface Casing:

16" 65# J-55 STC @ 496' (TOC surface)

Intermed Casing:

10-3/4" 40.5# K-55 LTC @ 2280' (TOC surface)

**Production Casing:** 

7" 5/8" 33.7#/39# S95 LTC @ 9,344' (TOC surface)

Liner:

4 1/2" 13.5# S95 LTC f/ 8834'-12702' (TOC 8834')

KB elev:

Drilled: 1982 31xx'

GL elev: 3171'

PBTD:

See wellbore diagram

**Existing Perfs:** 

2296'-06', 2350'-87', 2394'-00', 2460'-71', 2496'-02', 2516'-26', 2542'-66', 2620'-

44',2650'-62', 2674'-96', 4009'-14' (Delaware) 10,040'-50', 10,205'-13', 10,219'-24', (Wolfcamp)

Proposed Perfs:

10,744'-54' and 10,764-74' UPS

#### Procedure:

- 1. Before rig arrives, set and pull test anchors. Dig out wellhead. Remove marker and weld on 7 5/8" casing head. Dress location.
- 2. RUPU. NU BOP.
- 3. PU 6 1/4" bit and drill collars on 2 7/8" tubing. RU reverse unit, power swivel, and stripping head. Drill out surface cement plug to 100'. RIH to next plug at 446' and drill out cement to 546'. RIH to next plug at 1250' and drill out cement to 1350'. RIH to CIBP at 2280' (w/35' cmt). Drill out. RIH to CIBP at 4320' (w/35' cmt). CHC. POOH.
- 4. RIH with 7 5/8" packer and set 100' above perfs from 4009-14'. Establish injection. Mix and pump 100 sxs cement as per BJ Services recommendation. Release packer. PUH 10 stands, reverse 2 tubing volumes, and reset packer. Pressure up to ~1000 psig and SI overnight.
- 5. Release packer. POOH. RIH w/ tailpipe and packer and spot cement across perfs from 2296'-2696'. Set packer and squeeze. Release packer. PUH 10 stands, reverse 2 tubing volumes, and re-set packer. Pressure up to ~ 1000 psig and SI overnight.

- 6. Pressure test squeeze to 1000 psig. Release packer. POOH.
- 7. Pickup 6 ¼" bit and drill collars on 2 7/8" tubing. RU reverse unit, power swivel, and stripping head. RIH and drill out cement to 2700'. Pressure test casing to 1000 psig. RIH to next TOC and drill out 4020'. Pressure test casing to 1000 psig. RIH to CIBP at 4320' (w/ 35' cmt) and drill out. RIH to TOC at 8753'. Drill out cement to TOL at 8834'. CHC. Pressure test casing to 1000 psig. POOH.
- 8. RIH w/ 3 ¾" bit and drill collars on 2100' 2 3/8" 4.7# N-80 tubing to TOL at 8834'. Drill out cement to next CIBP at 9100'. Displace hole with 12.5 ppg mud. Drill out CIBP. Note: Be prepared for gas and pressure from open Wolfcamp perfs.
- 9. RIH to next TOC at  $\sim$ 10,470'. Drill out cement to  $\sim$ 10,900'. CHC. POOH (lay down 2 3/8" tubing).
- 10. RU wireline truck. Perforate Upper Penn Shale with 3 1/8" casing guns 3 spf (120° phasing) from 10,744'-54' (10') and 10,764'-74' (10'). Total 20' and 60 holes. Note: Correlate to Open Hole Log dated April 4, 1983.
- 11. RIH w/ 4 1/2" packer (with profile in o-o tool) on 1900'- 2 7/8" 4.6# N-80 IJ tubing and 8800'- 3 1/2" 9.3 # N-80 frac string to ~10,700'. Set packer and pressure test casing to 500 psig, if possible. NU frac tree on top of BOP.
- 12. RU swab. Swab test.

· .

- 13. RU BJ Services. Test lines and stimulate UPS as per procedure. Take 5, 10, and 15 minute pressure. RD BJ. Flow test well.
- 14. If well will not die, RU wireline and set blanking plug in profile below packer. RD tree.
- 15. POOH laying down 3 ½" frac string and stand back 2 7/8" IJ tubing.
- 16. RIH with o-o tool on 1900' 2 7/8" IJ tubing and 8800' 2 7/8" EUE tubing to ~10,700'. Set packer. ND BOP. NU tree. Note: if UPS not able to flow, the packer will be moved above the Wolfcamp perfs and the zones downhole commingled.
- 17. RU slickline truck and remove blanking plug from profile below packer.
- 18. RU swab. Swab well on production.
- 19. RDMO.

Lisendella 1625 R. Franch Dr., Hobbs, NM 69240 <u>Piotrici II</u> 1891 W. Carumi Aveser, Arteria, NM 69210 Piristici XX

1000 Ebs Brown Pd., Autoc, NM 87410

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dt.
Santa Fe, NM 87505

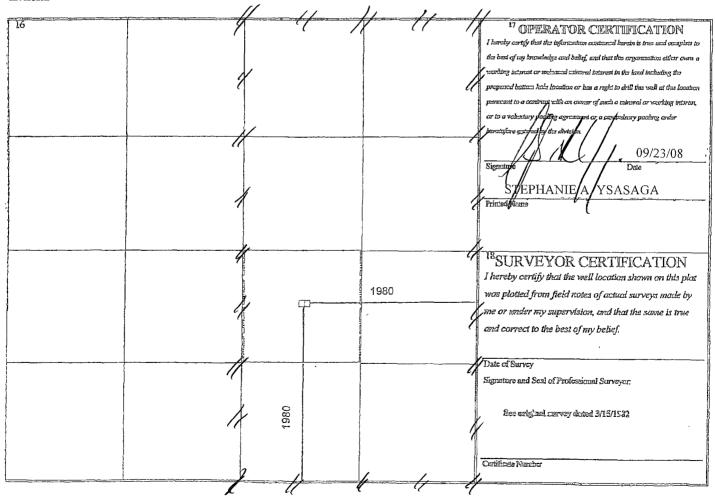
Form C-102 Revised October 12, 2005 Submit to Appropriate District Office State Lease - 4 Copies Fee Lease - 3 Copies

<u>Ciedded IV</u> 1290 S. St. Firmedo Dr., Sando Fe, NM 87903

AMENDED REPORT

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l l	ar		2 Prod Cook		3 Parti Name					
3	9	9	60%	2	WC: UPPER PENN SHALE					
374	Program's Cade 3114-14-			<sup>5</sup> Property Name PURE GRACE STATE					° Wei Nauader #1	
OGRID No. 6137			Outerator Name: DEVON ENERGY PRODUCTION CO, LP						<sup>9</sup> Elevation 3171.3	
					10 Surface	Location				
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<sup>12</sup> Dedicated Acre	is Johnt o	TIMBLE 14 C	kanadidation	Carle 13 Or	der Na	L				
320 🗸				1						

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.



Alexandra A

1625 N. Firencia Dr., Hobbe, NM 58249

<u>Cintrict II</u>

1301 W. Grenel Avenue, Arteria, NM 68210

<u>Medicial III</u>

1666 Red Brenes Rd., Aster, NM 67410

<u>Cristrict IV</u>

1220 S. St. Firencia Dr., Santa Fe, NM 57565

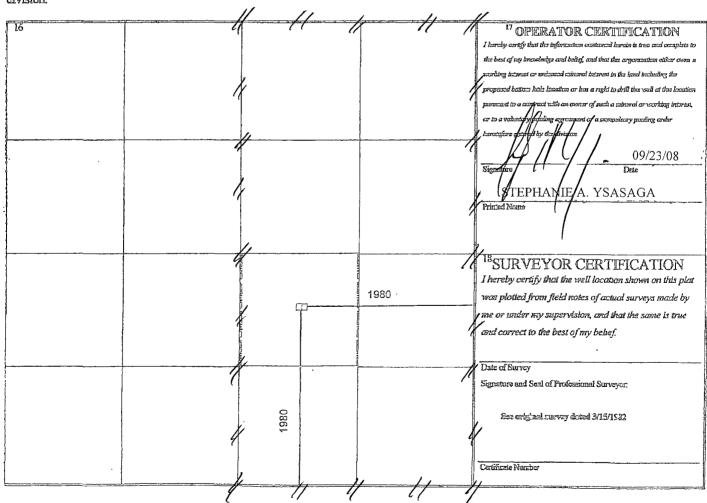
) State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dt.
Santa Fe, NM 87505

Form C-102
Revised October 12, 2005
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

AMENDED REPORT

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		Į	WELL LO	DCATIO	N AND ACR	EAGE DEDIC	ATION PLA	Γ		
1	API Numba 80-015-2411		9	Paral Code	12 18	Lank Rive	3 Paral No WOLF			
Francest Carle			PURE GRACE STATE						" Well Number	
OGRIDNO. . 6137			DEVON ENERGY PRODUCTION CO., LP						<sup>9</sup> Elevation 3171.3	
	······································				10 Surface	Location				~
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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.



#### **HYDROGEN SULFIDE DRILLING OPERATIONS PLAN**

- 1. All Company and Contract personnel admitted on location must be trained by a qualified H2S safety instructor to the following:
  - a. Characteristics of H2S
  - b. Physical effects and hazards
  - c. Proper use of safety equipment and life support systems.
  - d. Principle and operation of H2S detectors, warning system and briefing areas
  - e. Evacuation procedures, routes and first aid.
  - f. Proper use of 30-minute pressure demand air pack.
- 2. H2S Detection and Alarm System
  - a. H2S detectors and audio alarm system to be located at bell nipple, end of blooie line (mud pit) and on derrick floor or doghouse.
- 3. Windsock and/or wind streamers
  - a. Windsock at mud pit area should be high enough to be visible
  - b. Windsock at briefing area should be high enough to be visible
  - c. There should be a windsock at entrance to location
- 4. Condition Flags and Signs
  - a. Warning Sign on access road to location
  - b. Flags to be displayed on sign at entrance to location. Green flag, normal safe condition. Yellow flag indicates potential pressure and danger. Red flag, danger, H2S present in dangerous concentration. Only emergency personnel admitted to location.
- 5. Well Control Equipment
  - a. See Exhibit "E" & "E-1"
- 6. Communication
  - a. While working under masks chalkboards will be used for communication.
  - b. Hand signals will be used where chalk board is inappropriate
  - c. Two way radio will be used to communicate off location in case of emergency help is required. In most cases cellular telephones will be available at most drilling foreman's trailer or living quarters.
- 7. Drill stem Testing
  - a. Exhausts will be watered
  - b. Flare line will be equipped with an electric igniter or a propane pilot light in case gas reaches the surface.
  - c. If the location is near to a dwelling a closed DST will be performed.
- 8. Drilling contractor supervisor will be required to be familiar with the effects H2S has on tubular goods and other mechanical equipment.

If H2S is encountered, mud system will be altered if necessary to maintain control or formation. A mud gas separator will be brought into service along with H2S scavengers if necessary.

#### **Emergency Procedures**

In the case of a release of gas containing H<sub>2</sub>S, the first responder(s) must isolate the area and prevent entry by other persons into the 100 ppm ROE. Additionally the first responder(s) must evacuate any public places encompassed by the 100 ppm ROE. First responder(s) must take care not to injure themselves during this operation. Company and/or local officials must be contacted to aid in this operation. Evacuation of the public should be beyond the 100 ppm ROE.

All responders must have training in the detection of H<sub>2</sub>S, measures for protection against the gas, equipment used for protection and emergency response. Additionally, responders must be equipped with H<sub>2</sub>S monitors and air packs in order to control the release. Use the "buddy system" to ensure no injuries during the response.

### **Ignition of Gas Source**

Should control of the well be considered lost and ignition considered, take care to protect against exposure to Sulfur Dioxide (SO<sub>2</sub>). Intentional ignition must be coordinated with the NMOCD and local officials. Additionally the NM State Police may become involved. NM State Police shall be the Incident Command on scene of any major release. Take care to protect downwind whenever there is an ignition of the gas

#### Characteristics of H<sub>2</sub>S and SO<sub>2</sub>

Common Name	Chemical Formula	Specific Gravity	Threshold Limit	Hazardous Limit	Lethal Concentration
Hydrogen Sulfide	H <sub>2</sub> S	1.189 Air = 1	10 ppm	100 ppm/hr	600 ppm
Sulfur Dioxide	SO <sub>2</sub>	2.21 Air = 1	2 ppm	N/A	1000 ppm

#### **Contacting Authorities**

Devon Energy Corp. personnel must liaison with local and state agencies to ensure a proper response to a major release. Additionally, the OCD must be notified of the release as soon as possible but no later than 4 hours. Agencies will ask for information such as type and volume of release, wind direction, location of release, etc. Be prepared with all information available. The following call list of essential and potential responders has been prepared for use during a release. Devon Energy Corp. Company response must be in coordination with the State of New Mexico's 'Hazardous Materials Emergency Response Plan' (HMER)

# **Devon Energy Corp. Company Call List**

4	Artesia	(575)	Cellular	Office	Home	
] ] ]	Asst. Fo Don Ma Montral	reman – Bobby Jone yberry Walker	390-58937 es748-74477748-71807 (575) 390-5182 .(575) 513-0534 .(575)	48-0176 48-5235 5) 748-0193	.746-3194	
		all List		,		
Lea	•	obbs				
Coun						392-5588
<u>(505</u>						
1000	<b>.</b>					
	A	mbulance				911
		Fire Department			• • • • • • • • • • • • • • • • • • • •	397-9308
		LEPC (Local Emerg	gency Planning Com	mittee)	• • • • • • • • • • • • • • • • • • • •	393-2870
		NMOCD		••••••	•••••	393-6161
		US Bureau of Land	Management		•••••	393-3612
<u>E</u> dd	<u>у</u> <u>С</u> а	ırlsbad				
Coun	ty	State Police			•••••	885-3137
<u>(505</u>	<u>5)</u>	City Police			•••••	885-2111
		Sheriff's Office			•••••	887-7551
		Ambulance	***************************************	•••••	•••••	911
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