DISTRICT I 1625 N. French Dr., Hobbs, NM 88240

DISTRICT II 1301 W. Grand Avenue, Artesia, M. GRECEIVER DISTRICT III

DISTRICT III

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### State of New Mexico Energy, Minerals and Natural Resources Department

Santa Fe, New Mexico 87505

Form C-102 Revised October 12, 2005

CONSERVATION DIVISION 1220 South St. Francis Dr.

Submit to Appropriate District Office State Lease - 4 Copies Fee Lease - 3 Copies

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1000 Rio Brazos Rd., Aztec, NM 87410

□ AMENDED REPORT

LIGITIUT IV JUL 0.9 2010 1220 S. St. Francis Dr., Santa Fe, NM 87505 HOBBSOCD

#### WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number				Pool Code		Pool Name Mescalero Escarpe, Bone Springs				
Property Code		Property Name					· · · · · · · · · · · · · · · · · · ·	Well Number		
		COCKBURN FEDERAL						4H		
OGRID No. 6137			Operator Name DEVON ENERGY PRODUCTION COMPANY LP					Elevation 3955'		
		<u> </u>	Surface Location							
UL or lot No.	Section	Township	Range	r	from the	North/South line	Feet from the	East/West line	County	
N	10	18 S	33 E		560	SOUTH	1980	WEST	LEA	
Bottom Hole Location If Different From Surface									I	
UL or lot No.	Section	Township	Range	Lot Idn Feet	from the	North/South line	Feet from the	East/West line	County	
С	10	18 S	33 E		560	NORTH	1980	WEST	LEA	
Dedicated Acres	s Joint o	r Infill Co	nsolidation	Code Order No.		<u> </u>		·		
160										
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										
N.: 644285.0 E.: 748450.9	X			1	 	N.: 644343. E.: 753728.	7 OPERATO	R CERTIFICAT	TION	
	4	660'		PROPOSED_BOTT	і ом і		I hereby ce	rtify that the inform	ation	
	K	`		HOLE LOCATION	<u> </u>		contained herei	n is true and compl knowledge and belief n either owns a work	lete to	
	<u>،                                     </u>	>-¢	) ,	Long - W103'39' SPC- N.: 64364	11.07"		interest or unle	ased mineral interest	in the	
	<u> </u>	1	/	E.: /5045	5.532		of such a mine	the proposed bottom I nt to a contract with ral or working interes	an owner st, or to	
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	1	1		1 T	Ì		Date Survey	SET L. JOB		
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	y y	396 <u>5.</u> 5'	3968.3'	1	1			7977		
	ĵ,		· آ آ	SURFACE LOCAT						
	-1980'	<u> </u>		Lat - N32*45'24 Long - W103*39	.07" ]					
{	1/			K CDO N.: 63968	5.668		V745	Contraction of the second seco		
N.: 639004.3	- Z	3942.3	3951.5'	E.: 75046 (NAD-83)	3.400   			o. Gary L. Jones	7977	
E.: 748488.8				ŗ	I	N.: 639061 E.: 753760		asin surveyS		



PROD. CO., L.P.

focused on excellence in the oilfield 1120 N. West County Rd. Hobbs, New Mexico 88241 (505) 393-7316 - Office (505) 392-3074 - Fax basinsurveys.com W.O. Number: JMS 19249T Survey Date: 02-29-2008 Scale: 1" = 2000' Date: 03-07-2008



### RECEIVED

#### CONDITIONS OF APPROVAL

JUL 09 2010

HORRSOCO
Devon Energy Production Company, LP
NMNM-89891
Cockburn Federal 4
660' FSL & 1980' FWL
660' FNL & 1980' FWL
Section 10, T. 18 S., R 33 E., NMPM
Lea County, New Mexico

#### I. DRILLING

#### A. DRILLING OPERATIONS REQUIREMENTS

The BLM is to be notified a minimum of 4 hours in advance for a representative to witness:

- a. Spudding well
- b. Setting and/or Cementing of all casing strings
- c. BOPE tests

#### **Lea** County

Call the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240, (575) 393-3612

- 1. A Hydrogen Sulfide (H2S) Drilling Plan should be activated 500 feet prior to drilling into the Queen formation. As a result, the Hydrogen Sulfide area must meet Onshore Order 6 requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, please provide measured values and formations to the BLM.
- 2. Once the surface casing has been set and cemented to surface, a casing integrity test shall be done in accordance with Onshore Order #2 III.B.1.h. then the rig can be moved out. Install a pressure gauge on the well head to monitor casing pressure.

Notify the BLM when removing the Ashton Oilfield Services Rig and moving in the Patterson Rig #41.

The Patterson Rig #41 shall be moved in within 15 days. Once that rig is on location the drilling rig shall not be removed from over the hole without prior approval unless the production casing has been run and cemented or the well has been properly plugged. If the drilling rig is removed without approval – an Incident of Non-Compliance will be written and will be a "Major" violation.

- 3. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the dog house or stairway area.
- 4. The record of the drilling rate along with the GR/N well log run from TD to surface will be submitted to the BLM office as well as all other logs run on the borehole 30 days from completion. If available, a digital copy of the logs is to be submitted in addition to the paper copies. The Rustler top and top and bottom of Salt are to be recorded on the Completion Report.

#### **B.** CASING

Changes to the approved casing and cement program require submitting a sundry and receiving approval prior to work. Failure to obtain approval prior to work will result in an Incident of Non-Compliance being issued.

Centralizers required on surface casing per Onshore Order 2.III.B.1.f.

Wait on cement (WOC) time for a primary cement job will be a minimum 18 hours for a water basin, 24 hours in the potash area, or 500 pounds compressive strength, whichever is greater for all casing strings. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. See individual casing strings for details regarding lead cement slurry requirements.

No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.

Possible water and brine flows in the Salado and Artesia group. Possible lost circulation in the Grayburg and Getaway Bank member of the lower Cherry Canyon formation.

- 1. The 11-3/4 inch surface casing shall be set at approximately 1600 feet (a minimum of 25 feet into the Rustler Anhydrite and above the salt) and cemented to the surface. If the salt is penetrated, set the casing shoe 25' above the top of salt.
  - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.

# b. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry.

- c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
- d. If cement falls back, remedial cementing will be done prior to drilling out that string.
- 2. The minimum required fill of cement behind the 8-5/8 inch intermediate casing is:

Cement to surface. If cement does not circulate see B.1.a, c-d above.

Formation below the 8-5/8" shoe to be tested according to Onshore Order 2.III.B.1.i. Test to be done as a mud equivalency test using the mud weight necessary for the pore pressure of the formation below the shoe (not the mud weight required to prevent dissolving the salt formation) and the mud weight for the bottom of the hole. Report results to BLM office.

# Centralizers required on horizontal leg, must be type for horizontal service and minimum of one every other joint.

- 3. The minimum required fill of cement behind the 5-1/2 inch production casing is:
  - a. First stage to DV tool, cement shall:
  - Cement to circulate. If cement does not circulate, contact the appropriate BLM office before proceeding with second stage cement job.
  - b. Second stage above DV tool, cement shall:
  - Cement should tie-back at least 400 feet into previous casing string. Operator shall provide method of verification.
- 4. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.

#### C. PRESSURE CONTROL

1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in Onshore Oil and Gas Order No. 2 and API RP 53 Sec. 17.

- 2. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be 2000 (2M) psi.
  - a. For surface casing only: If the BOP/BOPE is to be tested against casing, the wait on cement (WOC) time for that casing is to be met (see WOC statement at start of casing section). Independent service company required.
- 3. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the 8-5/8 intermediate casing shoe shall be 5000 (5M) psi. 5M system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.
- 4. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
  - a. Casing cut-off and BOP installation will not be initiated until the cement has had a minimum of 8 hours setup time for a water basin. The casing shall remain stationary and under pressure for at least eight hours after the operator places the cement. In the potash area, the minimum time is 12 hours and the casing shall remain stationary and under pressure during this time period. In addition, for the potash area, no tests are to be initiated prior to 24 hours (R-111-P regulations). Casing shall be under pressure if the operator uses some acceptable means of holding pressure or if the operator employs one or more float valves to hold the cement in place. Testing the BOP/BOPE against a plug can commence after meeting the above conditions plus the BOP installation time.
  - b. The tests shall be done by an independent service company utilizing a test plug.
  - c. The results of the test shall be reported to the appropriate BLM office.
  - d. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.
  - e. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug.
  - f. Effective November 1, 2008, no variances will be granted on reduced pressure tests on the surface casing and BOP/BOPE. Onshore Order 2 requirements will be in effect.

#### D. DRILL STEM TEST

If drill stem tests are performed, Onshore Order 2.III.D shall be followed.

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