Form 3160-5 February 2005)

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

OCD-ARTESIA

FORM APROVED OMB NO. 1004-0135 EXPIRES: March 31, 2007

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	SUNDRY NOTICES AND REPORTS ON WELLS					5. Lease Serial No.		
Do not use this form for proposals to drill or to re-enter an					A 17.1 11 A 11	NMNM-77046		
abandoned well. Use Form 3160-3 (APD) for such proposals					6. If Indian, Allo	ottee or Tribe Name		
		SUBMIT IN TRIP	LICATE	RECEIVE	7. Unit or CA	Agreement Name and No.		
1a. Type of Well Oil Well Gas Well Other FEB 2 5 2010					8 Well Name a	and No.		
2. Name of Operator					Nor	North Pure Gold 9 Federal 6		
DEVON ENERGY PRODUCTION COMPANY, LP						Э.		
DEVON ENERGY PRODUCTION COMPANY, LP 3. Address and Telephone No. 9. API Well No. 30-015-37370								
20 N. Broadway, Oklahoma City, Ok 73102-8260 405-235-3611						10. Field and Pool, or Exploratory		
4. Location of Well (Report location clearly and in accordance with Federal requirements)*						os Medanos; Delaware		
990' FNL 2100' FWL 🚙 C SEC 9 T23S R31E					11. County or	Parish State NM		
	12 (1	TECK VDDDODDIV	ATE BOX(s) TO INDICATE N	NATURE OF NOTICE	Eddy			
TYPE	OS SUBMISSION	ILCK AFFRONKI	TIL BOX(3) TO INDICATE I	TYPE OF AC		DAIA		
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☑ Notice	of Intent	L Acidiz	·		duction (Start/Resum	· =		
Subso	quent Report				clamation complete	Well Integrity Other		
l —	•				nporarily Abandon			
Final A	Abandonment Notice	. – .	ert to Injection Plug E		ter Disposal			
13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work and approximate duration thereof. If the proposal deepen directionally or recomplete horizontally, give subsurface location and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirement, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection).								
Devon Energ	gy Production Compa	ny L. P. respectful	ly requests permission to	change the casing des	sign, mud program, I	Pressure Control Equipment and		
cement proc	edures.							
HoleSize	Hole Interval	000		Weight	Collar	O		
		OD Csg	Casing Interval	Weight	Odnai	Grade		
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ENGR OK MAK

*See Instruction on Reverse Side

D. D. 2/25/10

SEE ATTACHED FOR CONDITIONS OF APPROVA



NORTH PURE GOLD 9 FED 6 -30-015-37370 DRILLING PLAN SUNDRY

Page 2 2/4/2010

Mud Program:

<u>Depth</u>	Mud Wt.	Visc.	Fluid Loss	Type System
0 – 530	8.4 - 9.0	30 – 34	N/C	FW
530 – 4,100	9.8 – 10.0	28 – 32	N/C	Brine
4,100 - 8,200	8.6 - 9.0	28 – 32	NC -12	FW

Pressure Control Equipment:

The BOP system used to drill the intermediate hole will consist of an 11" 5M Double Ram and Annular preventer. The BOP system will be tested as per BLM Onshore Oil and Gas Order No. 2 as a 3M system prior to drilling out the surface casing shoe.

The BOP system used to drill the production hole will consist of an 11" 5M Double Ram and Annular preventer. The BOP system will be tested as per BLM Onshore Oil and Gas Order No. 2 as a 5M system prior to drilling out the intermediate casing shoe.

The pipe rams will be operated and checked each 24 hour period and each time the drill pipe is out of the hole. These tests will be logged in the daily driller's log. A 2" kill line and 3" choke line will be incorporated into the drilling spool below the ram BOP. In addition to the rams and annular preventer, additional BOP accessories include a kelly cock, floor safety valve, choke lines, and choke manifold rated at 5,000 psi WP.

Cementing Program

11-3/4" Surface

Lead: 140 sacks Class C Cement + 2% bwoc Calcium Chloride + 0.125 lbs/sack Cello Flake + 4% bwoc Bentonite + 81.4% Fresh Water, 13.5 PPG Yield: 1.75 cf/sk TOC @ surface Tail: 250 sacks Class C Cement + 2% bwoc Calcium Chloride + 0.125 lbs/sack Cello Flake + 56.3% Fresh Water, 14.8 PPG Yield: 1.35 cf/sk

8-5/8" Intermediate

Lead: 880 sacks (35:65) Poz (Fly Ash): Class C Cement + 5% bwow Sodium Chloride + 0.125 lbs/sack Cello Flake + 6% bwoc Bentonite + 107.8% Fresh Water, 12.5 PPG Yield: 2.04 cf/sk. TOC @ surface Tail: 300 sacks 60:40 Poz + 5% bwow Sodium Chloride + 0.125 lbs/sack Cello Flake + 0.4% bwoc Sodium Metasilicate + 4% bwoc MPA-5 + 64.7% Water, 13.8 PPG Yield: 1.37 cf/sk.

5-1/2" Production

1st Stage

Lead: 330 sacks (35 65) Poz (Fly Ash): Class H Cement + 3% bwow Sodium Chloride + 0.25% bwoc R-3 + 0.125 lbs/sack Cello Flake + 3 lbs/sack LCM-1 + 6% bwoc Bentonite + 0.3% bwoc FL-52A + 102.5% Fresh Water, 12.5 PPG

Yield: 1.95 cf/sk Tail: 390 sacks (60:40) Poz (Fly Ash):Class C Cement + 1% bwow Sodium Chloride + 0.1% bwoc R-3 + 0.125 lbs/sack Cello Flake + 2 lbs/sack Kol Seal + 0.5% bwoc BA-10A + 4% bwoc MPA-5 + 61.4% Fresh Water, 13.8 PPG Yield: 1.35 cf/sk

DV TOOL at ~4,400'

2nd Stage

Lead: 225 sacks Class C Cement + 3% bwoc Sodium Metasilicate + 2% bwoc Calcium Chloride + 0.125 lbs/sack Cello Flake + 158.6% Fresh Water, 11.4 PPG Yield: 2.91 cf/sk TOC @ surface Tail: 160 sacks (60:40) Poz (Fly Ash): Class C Cement + 5% bwow Sodium Chloride + 0.125 lbs/sack Cello Flake + 0.4% bwoc Sodium Metasilicate + 4% bwoc MPA-5 + 64.7% Fresh Water, 13.8 PPG Yield: 1.38 cf/sk

TOC for All Strings:

Surface: Intermediate: 0' n'

Production:

PECOS DISTRICT CONDITIONS OF APPROVAL

OPERATOR'S NAME: | Devon Energy Production Company

LEASE NO.: | NMNM-77046

WELL NAME & NO.: | North Pure Gold 9 Federal 6

SURFACE HOLE FOOTAGE: | 990' FNL & 2100' FWL

LOCATION: | Section 9, T. 23 S., R 31 E., NMPM

COUNTY: | Eddy 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

Eddy County

Call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220, (575) 361-2822

- 1. Although there are no measured amounts of Hydrogen Sulfide reported, it is always a potential hazard. If Hydrogen Sulfide is encountered, please provide measured values and formations to the BLM.
- 2. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.
- 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 CAL/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 APD 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.

R-111-P potash

Possible Lost circulation in the Delaware and Bone Spring formations.

Possible brine and water flows in the Salado, Castile, Delaware, and Bone Spring formations.

- 1. The 11-3/4 inch surface casing shall be set at approximately 530 feet (a minimum of 25 feet into the Rustler Anhydrite and above the salt) and cemented to the surface.
 - 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 a 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. Casing to be set a minimum of 100' and not more than 600' below the base of the salt. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to potash.

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.

- 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 to surface. If cement does not circulate, contact the appropriate BLM office. Additional cement may be required.
- 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.
- 5. Whenever a casing string is cemented in the R-111-P potash area, the NMOCD requirements shall be followed.

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 **3000 (3M)** 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 4-6 hours of setup time in a water basin and 12 hours in the potash areas. This time will start after the cement plug is bumped. 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.

MAK 021010