

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

OCD Artesia

FORM APPROVED  
OMB NO. 1004-0135  
Expires: July 31, 2010**SUNDRY NOTICES AND REPORTS ON WELLS**  
*Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.*5. Lease Serial No.  
NMNM130869

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.

8. Well Name and No.  
MIZAR 11 FED COM 1H9. API Well No.  
30-015-41964-00-X110. Field and Pool, or Exploratory  
LUSK11. County or Parish, and State  
EDDY COUNTY, NM**SUBMIT IN TRIPLICATE - Other instructions on reverse side.**

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

Contact: LINDA GOOD

DEVON ENERGY PRODUCTION CO EMail: linda.good@dvn.com

3a. Address

333 WEST SHERIDAN AVE  
OKLAHOMA CITY, OK 73102

3b. Phone No. (include area code)

Ph: 405.552.6558

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

Sec 11 T19S R31E NWNW 0275FNL 0050FWL  
32.682234 N Lat, 103.848658 W Lon**12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA**

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	Change to Original APD
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations 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 requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

ATTENTION: Jennifer or Chris

Per email from Art Alarcon:

Devon Energy Production Company, L.P. respectfully requests to alter the intermediate casing setting depth for the subject well. Devon will run 9-5/8", 40 ppf, HCK-55, BTC to 4,500 ft MD instead of the approved APD depth of 4,200 ft MD.

Devon also requests to run a tapered production string of 7" x 5.5" casing with the 7" down to TD of 8,427 ft MD. Casing design requirements are attached as well as the new cement design for the deeper intermediate and for the production tapered string.

Accepted for record

NMOCD

NM OIL CONSERVATION  
ARTESIA DISTRICT

JUL 31 2014

SEE ATTACHED FOR  
RECEIVED  
CONDITIONS OF APPROVAL

14. I hereby certify that the foregoing is true and correct.

Electronic Submission #254004 verified by the BLM Well Information System

For DEVON ENERGY PRODUCTION CO LP, sent to the Carlsbad

Committed to AFMSS for processing by CHRISTOPHER WALLS on 07/22/2014 (14CRW0305SE)

Name (Printed/Typed) LINDA GOOD

Title REGULATORY SPECIALIST

Signature

(Electronic Submission)

Date 07/22/2014

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

APPROVED

Approved By

Title

Date

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

JUL 22 2014

/s/ Chris Walls

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

BUREAU OF LAND MANAGEMENT  
CARLSBAD FIELD OFFICE**\*\* BLM REVISED \*\* BLM REVISED \*\* BLM REVISED \*\* BLM REVISED \*\* BLM REVISED \*\***

**Mizar 11 Fed Com 1H – APD DRILLING PLAN****AAA 7-21-2014: Change Intermediate Casing Depth & Production Combination String****Sundry Request:**

Devon Energy Production Company, L.P. respectfully requests to change the intermediate casing setting depth for the subject well. Devon will run 9-5/8", 40 ppf, HCK-55, BTC to 4,500 ft MD instead of the approved APD depth of 4,200 ft MD to set in a competent formation.

Devon also requests to run a tapered production string of 7" x 5.5" casing with the 7" down to TVD of 8,427 ft MD. Casing design requirements are below as well as the new cement design for the deeper intermediate and for the production tapered string.

**Casing Program Changes:**

Hole Size	Hole Interval	OD Csg	Casing Interval	Weight	Collar	Grade
12-1/4"	800 - 4500	9-5/8"	0 - 4500	40#	BTC	HCK-55
8-3/4"	4500 - 8427	7"	0 - 8427	29#	BTC	P-110
8-3/4"	8427 - 13750	5-1/2"	8427 - 13750	17#	BTC	P-110

**Note: only new casing will be utilized**

An 8-3/4" pilot hole will be drilled to 9,445 ft and plugged back to KOP (for volumes and TOC see below).

**MAXIMUM LATERAL TVD      9,043**

**Design Factors:**

Casing Size	Collapse Design Factor	Burst Design Factor	Tension Design Factor
13-3/8"	2.07	4.84	8.39
9-5/8"	1.63	1.69	3.50
7" 29# P-110 BTC	2.16	2.85	3.91
5-1/2" 17# P-110 BTC	1.77	2.51	3.69

**Cementing Table:**

String	Number of sx	Weight lbs/gal	Water Volume g/sx	Yield cf/sx	Stage; Lead/Tail	Slurry Description
9-5/8" Intermediate Single Stage	1090	12.8	8.2	1.65	Lead	(60:40) Poz (Fly Ash):Class C Cement+ 5% bwow Sodium Chloride + 0.1% bwoc R-3 +0.125 lbs/sack Cello Flake + 3 lbs/sack LCM-1 +0.25% bwoc FL-52 + 1% bwoc Sodium Metasilicate + 83.4% Fresh Water
	400	13.8	6.42	1.38	Tail	(60:40) Poz (Fly Ash):Class C Cement +5% bwow Sodium Chloride + 0.125 lbs/sack Cello Flake + 0.5% bwoc Sodium Metasilicate + 0.5% bwoc BA-10A + 4% bwoc MPA-5 + 65.3% Fresh Water
9-5/8" Intermediate 2-Stage Option	310	12.8	8.2	1.65	Lead	310 sacks (60:40) Poz (Fly Ash):Class C Cement + 5% bwow Sodium Chloride + 0.1% bwoc R-3 + 0.125 lbs/sack Cello Flake + 3 lbs/sack LCM-1 + 0.25% bwoc FL-52 + 1% bwoc Sodium Metasilicate + 83.4% Fresh Water
	400	13.8	6.42	1.38	Tail	400 sacks (60:40) Poz (Fly Ash):Class C Cement + 5% bwow Sodium Chloride + 0.125 lbs/sack Cello Flake + 0.1% bwoc Sodium Metasilicate + 0.5% bwoc BA-10A + 4% bwoc MPA-5 + 65.2% Fresh Water
	DV Tool @ 2600 ft					
	935	13.8	6.42	1.38		935 sacks (60:40) Poz (Fly Ash):Class C Cement + 5% bwow Sodium Chloride + 0.125 lbs/sack Cello Flake + 0.5% bwoc Sodium Metasilicate + 0.5% bwoc BA-10A + 4% bwoc MPA-5 + 65.3% Fresh Water
7" x 5-1/2" Production Casing Single Stage	235	11.8	13.16	2.3	1 <sup>st</sup> Lead	(50:50) Poz (Fly Ash):Class H Cement + 0.5% bwoc FL-52 + 0.3% bwoc ASA-301 + 10% bwoc Bentonite + 0.35% bwoc R-21 + 130.7% Fresh Water
	195	12.5	11.01	2.01	2 <sup>nd</sup> Lead	(35:65) Poz (Fly Ash):Class H Cement + 3% bwow Sodium Chloride + 0.2% bwoc R-3 + 0.125 lbs/sack Cello Flake + 0.7% bwoc FL-52 + 0.3% bwoc ASA-301 + 6% bwoc Bentonite + 105.5% Fresh Water
	1375	14.2	5.77	1.28	Tail	(50:50) Poz (Fly Ash):Class H Cement + 5% bwow Sodium Chloride + 0.3% bwoc CD-32 + 0.5% bwoc FL-25 + 0.4% bwoc FL-52 + 0.5% bwoc Sodium Metasilicate + 57.3% Fresh Water

**TOC for all Strings:**

Intermediate @ 0'

Production @ 2780' (Cement top will tie-back 50' Capitan Formation at 2830')

**Notes:**

- Cement volumes Intermediate 75%, Production based on at least 25% excess
- Actual cement volumes will be adjusted based on fluid caliper and caliper log data

## CONDITIONS OF APPROVAL

OPERATOR'S NAME:	Devon Energy Production Company, L.P.
LEASE NO.:	NMNM-130869
WELL NAME & NO.:	Mizar 11 Fed Com 1H
SURFACE HOLE FOOTAGE:	0275' FNL & 0050' FWL
BOTTOM HOLE FOOTAGE:	0660' FNL & 0340' FEL
LOCATION:	Section 11, T. 19 S., R 31 E., NMPM
COUNTY:	Eddy County, New Mexico

1. The minimum required fill of cement behind the 9-5/8 inch intermediate casing, which shall be set at approximately 4500 feet, is:

☒ Cement to surface. If cement does not circulate, contact the appropriate BLM office. **Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to Capitan Reef.**

**Operator has proposed DV tool at depth of 2600'. Operator is to submit sundry if DV tool depth varies by more than 100' from approved depth.**

- a. First stage to DV tool:

☒ Cement to circulate. If cement does not circulate, contact the appropriate BLM office before proceeding with second stage cement job. Operator should have plans as to how they will achieve circulation on the next stage.

- b. Second stage above DV tool:

☒ Cement to surface. If cement does not circulate, contact the appropriate BLM office. **Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to Capitan Reef.**

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

2. The minimum required fill of cement behind the 5-1/2 inch production casing is:

☒ Cement should tie-back at least **50 feet above the Capitan Reef** (Top of Capitan Reef estimated at 3227'). Operator shall provide method of verification.

CRW 072214