

Form 3160-5
(August 1999)UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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.*FORM APPROVED
OMB No. 1004-0135
Expires November 30, 2000

5. Lease Serial No.

NM-NM81220

6. If Indian, Allottee or Tribe Name

N/A

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

N/A

8. Well Name and No.

Old Ranch Knoll "8" Federal Com. #9

9. API Well No.

30-015-

10. Field and Pool, or Exploratory Area

Indian Basin (Upper Penn) Assoc.

11. County or Parish, State

Eddy County

New Mexico

1. Type of Well

☐ Oil Well ☐ Gas Well ☒ Other - proposed oil well

2. Name of Operator

Devon Energy Production Company, L.P.

Wally Frank

Senior Operations Engr.

3a. Address

20 N. Broadway, Suite 1500, OKC, OK 73102

3b. Phone No. (include area code)

(405)552-4595

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

SHL: 810' FSL & 350' FEL, Unit P, Section 8-T22S-R24E, Eddy Cnty, NM

BHL: 850' FSL & 660' FEL, Unit P, Section 8-T22S-R24E, Eddy Cnty, NM

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 amend APD
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<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 recompleat horizontally, give subsurface locations 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.)

Due to an offset operator's refusal to allow us a NSL permit, at this time Devon Energy wishes to inform you that we are changing the drilling program for the Old Ranch Knoll "8" Federal Com. #9 from a proposed vertical drill to directional with the chosen bottom location as indicated on the plat. Attached please find the following.

1. Well Location and Acreage Dedication Plat (NMOCDD form C-102)
2. Directional 7" casing string design sheet

14. I hereby certify that the foregoing is true and correct
Name (Printed/Typed)

Candace R. Graham 405/235-3611 X4520

Title

Engineering Tech.

Signature

Candace R. Graham

Date

12/26/2002

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

/S/ JOE G. LARA

Title

Acting FM

Date

JAN 14 2003

Office

CFO

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.

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on reverse)

DISTRICT I

P.O. Box 1288, Hobbs, NM 88241-1088

State of New Mexico

Energy, Minerals and Natural Resources Department

Form C-102

Revised February 10, 1994

Submit to Appropriate District Office

State Lease - 4 Copies

Fee Lease - 3 Copies

DISTRICT II

P.O. Box 288, Artesia, NM 88211-0718

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

DISTRICT III

1000 Rio Brazos Rd., Artec. NM 87410

DISTRICT IV

P.O. Box 288, Santa Fe, N.M. 87504-2088

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number 30-015-	Pool Code 33685	Pool Name Indian Basin (Upper Penn) Assoc.
Property Code 16875	Property Name OLD RANCH KNOLL 8 FEDERAL COM.	Well Number 9
OCRD No. 6137	Operator Name DEVON ENERGY PRODUCTION COMPANY, L.P.	Elevation 4086'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	8	22-S	24-E		810'	SOUTH	350'	EAST	EDDY

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
P	8	22-S	24-E		850'	SOUTH	660'	EAST	EDDY

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.
320			

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

<p>GEODETIC COORDINATES NAD 1927 NME Y=509399.6 X=444690.0 LAT. 32°24'01.17"N LONG. 104°30'45.14"W</p>		<p>DETAIL</p>		<p>OPERATOR CERTIFICATION</p> <p>I hereby certify the information contained herein is true and complete to the best of my knowledge and belief.</p> <p><i>Candace R. Graham</i> Signature</p> <p>Candace R. Graham Printed Name</p> <p>Engineering Tech. Title</p> <p>December 26, 2002 Date</p>	
<p>PROPOSED BOTTOM HOLE LOCATION NAD 27 NM EAST ZONE Y = 509439 X = 444380</p>		<p>SEE DETAIL SURFACE LOC</p>		<p>SURVEYOR CERTIFICATION</p> <p>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.</p> <p>OCTOBER 22, 2002</p> <p>Date Surveyed</p> <p>Signature & Seal Professional Surveyor</p> <p><i>Ronald J. Edson</i> 02.11.0784</p> <p>Certification No. RONALD J. EDSON 3239 GARY EDSON 12841</p>	

Well name: **Old Ranch Knoll 8 Fed. 9**
 Operator: **Devon Energy Production Company L.P.**
 String type: **Production**
 Location: **Section 8, T22S, R24E**

Design parameters:**Collapse**

Mud weight: 8.800 ppg
 Design is based on evacuated pipe.

Minimum design factors:**Collapse:**

Design factor 1.125

Environment:

H2S considered? Yes
 Surface temperature: 75 °F
 Bottom hole temperature: 144 °F
 Temperature gradient: 0.80 °F/100ft
 Minimum section length: 1,000 ft

Burst:

Design factor 1.00

Burst

Max anticipated surface pressure: 3,931 psi
 Internal gradient: 0.000 psi/ft
 Calculated BHP 3,931 psi
 Annular backup: 8.80 ppg

Tension:

8 Round STC: 1.80 (J)
 8 Round LTC: 1.80 (J)
 Buttress: 1.60 (J)
 Premium: 1.50 (J)
 Body yield: 1.60 (B)

Directional Info - Build & Drop

Kick-off point 4900 ft
 Departure at shoe: 313 ft
 Maximum dogleg: 1.5 °/100ft
 Inclination at shoe: 0 °

Tension is based on air weight.
 Neutral point: 7,491 ft

Estimated cost: 78,453 (\$)

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Est. Cost (\$)
3	1000	7	23.00	L-80	LT&C	1000	1000	6.25	8969
2	6200	7	23.00	L-80	LT&C	7171	7200	6.25	55610
1	1429	7	23.00	HCL-80	LT&C	8600	8629	6.25	13874

Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (kips)	Tension Strength (kips)	Tension Design Factor
3	457	3306	7.23	3931	6340	1.61	197.8	435	2.20 J
2	3278	3762	1.15	3474	6340	1.82	174.8	435	2.49 J
1	3931	5650	1.44	653	6340	9.71	32.9	485	14.76 J

Prepared W. M. Frank
 by: Devon Energy

Phone: (405) 552-4595
 FAX: (405) 552-4621

Date: December 26, 2002
 Oklahoma City, Oklahoma

Remarks:

Collapse is based on a vertical depth of 8600 ft, a mud weight of 8.8 ppg. The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Collapse strength is (biaxially) derated for doglegs in directional wells by multiplying the tensile stress by the cross section area to calculate a

Old Ranch Knoll 8 Fed Com #9 (12-26-02) 3160-5 dir, C102, 7" csg

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

BUREAU OF LAND MNGT
2900 WEST SECOND ST
ROSWELL NM 88201

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X

☐ Agent☐ Addressee

B. Received by (Printed Name)

C. Date of Delivery

12/30/02

D. Is delivery address different from item 1? ☐ YesIf YES, enter delivery address below: ☐ No

3. Service Type

☒ Certified Mail☐ Express Mail☐ Registered☒ Return Receipt for Merchandise☐ Insured Mail☐ C.O.D.

4. Restricted Delivery? (Extra Fee)

☐ Yes

2. Article Number

(Transfer from service label)

7001 0320 0003 8818 5206

PS Form 3811, August 2001

Domestic Return Receipt

102595-01-M-2509

DEVON ENERGY PRODUCTION COMPANY, L.P.
20 North Broadway, Suite 1500
Oklahoma City, Oklahoma 73102-8260

Office (405) 235-3611
Fax (405) 552-4667
or -4550

DATE:

1-13-2063

No. of pages following:

~~3~~ 4

FROM: Candi Graham
Office (405) 552-4520
Fax (405) 552-4621
Candi.graham@dnv.com

RE:

ORK 8-9
change drlg
program

TO: BLM, Carlsbad
~~BLM, Carlsbad~~ Joe Lara
 Office (505) 234-5937 / 15
 Fax (505) 885-9264-
 234-5927

Comments: