

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
SUNDRY NOTICES AND REPORTS ON WELLS

OCD-ARTESIA

FORM APPROVED
OMB NO. 1004-0135
EXPIRES: NOVEMBER 30, 2000

Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals

SUBMIT IN TRIPLICATE

1a. Type of Well	☒ Oil Well	☐ Gas Well	☐ Other _____
2. Name of Operator	DEVON ENERGY PRODUCTION COMPANY, LP		
3. Address and Telephone No.	20 North Broadway, Ste 1500, Oklahoma City, OK 73102 405-552-8198		
4. Location of Well (Report location clearly and in accordance with Federal requirements)*	Unit O, SWSE 990 FSL 1885 FEL Sec 8 T18S R27E		

5. Lease Serial No.	LC-070678-A
6. If Indian, Allottee or Tribe Name	
7. Unit or CA Agreement Name and No.	
8. Well Name and No.	HAWK 8 O FEDERAL 9
9. API Well No.	30-015-29069
10. Field and Pool, or Exploratory	RED LAKE; GLORIETA YESO, NE
12. County or Parish	EDDY
13. State	NM

CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

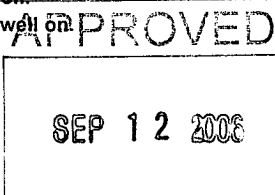
TYPE OF SUBMISSION	TYPE OF ACTION		
☒ Notice of Intent	☐ Acidize	☒ Deepen	☐ Production (Start/Resume)
☐ Subsequent Report	☐ Alter Casing	☐ Fracture Treat	☐ Reclamation
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal
			☐ Water Shut-Off
			☐ Well Integrity
			☐ Other _____

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 deepens directionally or recompletes 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 Energy Production Company, LP respectfully requests to deepen to the Yeso per the following procedure.

1. MIRU Workover rig. TOH & LD rods and pump.
2. ND wellhead. NU BOP.
3. PU 4 3/4" mill tooth bit and TIH with assembly.
4. RU air package. Using air mist, clean out sand fill to 2200'. Drill out FC @ 2200', shoe joint, FS, & TOH.
5. Deepen well from 2250' to 3500' using air mist (mist being 8.8# cut brine).
6. TIH with bullplug, treating packer, and tubing. Set packer at +/- 2150'. Space pre-perforated tubing subs across zones of interest.
7. Acidize Yeso per recommendation.
8. RIH with rods and pump. Hang well on.

**SUBJECT TO
LIKE APPROVAL
BY NMOCD**



**SEE ATTACHED FOR
CONDITIONS OF APPROVAL**

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

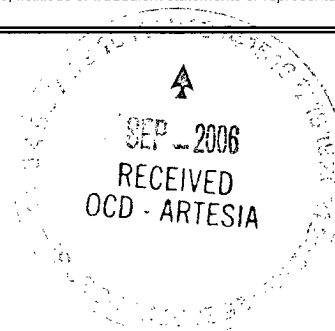
Signed	Name	Norvella Adams	Date	9/6/2006
	Title	Sr. Staff Engineering Technician		

(This space for Federal or State Office use)

Approved by _____ Title _____ Date _____
Conditions of approval, if any:

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

*See Instruction on Reverse Side



DISTRICT I
P.O. Box 1980, Hobbs, NM 88240

State of New Mexico

Energy, Minerals and Natural Resources Department

Form C-102
Revised February 10, 1994
Instruction on back
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

DISTRICT II
P.O. Drawer DD, Artesia, NM 88210

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

DISTRICT III
1000 Rio Branco Rd., Aztec, NM 87410

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30- 015-29069	Pool Code	Pool Name Red Lake; Glorieta Yeso, NE
Property Code	Property Name Hawk 8 (O) Federal	Well Number 9
OGRID No. 6137	Operator Name Devon Energy Production Company, LP	Elevation 3438'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
0	8	18 S	27 E		990	South	1885	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

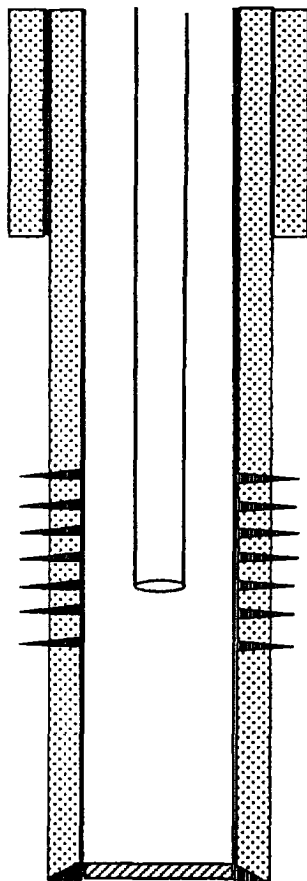
Dedicated Acres 40	Joint or Infill	Consolidation Code	Order No.
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NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

	OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief. Signature Norvella Adams Printed Name Sr. Staff Eng. Tech. Title September 05, 2006 Date	
	SURVEYOR CERTIFICATION 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. June 5, 1996 Date Surveyed Signature & Seal of Professional Surveyor W.O. No. 82525 Certificate No. Gary L. Jones 7977 BASTROP SURVEYS	

DEVON ENERGY CORPORATION - WELLBORE SCHEMATIC

WELL NAME: Hawk 8O Federal #9			FIELD: Red Lake			
LOCATION: 990' FSL & 1885' FEL, Sec. 8-18S-27E			COUNTY: Eddy			STATE: NM
ELEVATION: GL = 3438', KB 3443'			SPUD DATE: 9/26/96		COMP DATE: 10/19/96	
API#: 30-015-29069		PREPARED BY: T. Rutelonis			DATE: 7/1/99	
	DEPTH	SIZE	WEIGHT	GRADE	THREAD	HOLE SIZE
CASING:	0' - 1087'	8-5/8"	24#	J-55		12-1/4"
CASING:	0' - 2249'	5 1/2"	15.5#	J-55		7-7/8"
CASING:						
TUBING:	0' - 2011'	2-7/8"	6.5#	J-55	8RD EUE	
TUBING:						



CURRENT



PROPOSED

OPERATOR: DEVON ENERGY CORPORATION

8-5/8" Casing, Set @ 1087' w/ 500 sxs cmt. TOC @ surface

SAN ANDRES PERFORATIONS:

1658'-2092' (31) holes, .40", ALPHA, "A", "B", "C", & "D")

2-7/8" tbg w/ SN @ 2011'

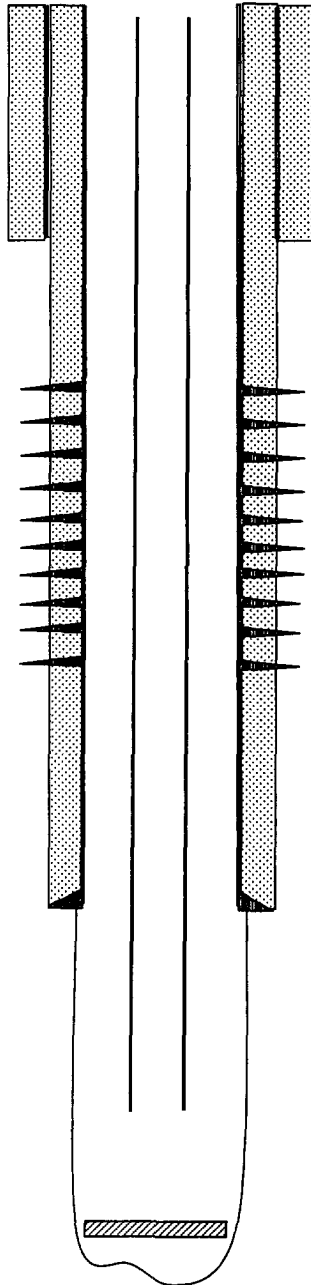
PBTD @ 2200'

5 1/2" 15.5# J-55 Casing Set @ 2249' w/ 400 sxs cmt. TOC @ surf.

TD @ 2250'

DEVON ENERGY CORPORATION - WELLBORE SCHEMATIC

WELL NAME: Hawk 80 Federal #9			FIELD: Red Lake				
LOCATION: 990' FSL & 1885' FEL, Section 8-18S-27E			COUNTY: Eddy			STATE: NM	
ELEVATION: GL = 3438', KB = 3443'			SPUD DATE: 9/26/96		COMP DATE: 10/19/96		
API#:	30-015-29069	PREPARED BY: C. Singletary			DATE: 7/18/06		
	DEPTH	SIZE	WEIGHT	GRADE	THREAD	HOLE SIZE	
CASING:	0' - 1087'	8-5/8"	24#	J-55		12-1/4"	
CASING:	0' - 2249'	5 1/2"	15.5#	J-55		7-7/8"	
TUBING:	0' - 3200'	2-7/8"	6.4#	J-55		4-3/4"	



CURRENT



PROPOSED

OPERATOR: DEVON ENERGY CORPORATION

8-5/8" Casing, Set @ 1081' w/ 500 sxs cmt. TOC @ surface

SAN ANDRES PERFORATIONS:

1658'-2092' (31 holes, 0.40" EHD)
(PERFS SQZ'D W/POLYMER & TA'D)

TOL @ 2238'

5 1/2" 15.5# J-55 Casing Set @ 2349' w/ 450 sxs cmt. TOC @ surf.

2 7/8" tbg w/ SN @ 3200' EOT @ 3200'

YESO INTERVAL:

2841'- 2941'

*Proposed to acidize w/15-20% HCL at 10 - 20 BPM. STP btwn 2200 and 3000 psi
W/ Inflatable Straddle Packer Assembly?

4-3/4" Open Hole

TD @ 3600'

Downhole Commingling

1. A formal request (Sundry Notice Form 3160-5 or letter) by the operator for approval to commingle production between intervals downhole.

2. The application should contain the lease number; well name and number, location; names of zones, formations or deposits to be commingled; interval of each pay section as identified by existing or proposed perforations; current volumes of oil and/or gas produced from each zone (by well test within 60 days from the date of the application for commingling); oil gravities and gas BTU values produced from each zone; and bottom hole pressures of each zone, both original and current (within 60 days from the date of the application for commingling). The information submitted should include decline curves for each zone to be commingled for the last 24 months of production, unless the zone(s) has produced less than 24 months. Also, a statement of the royalty rate for each zone and the spacing order in effect for each zone is required.

3. The proposed allocation method (straight percentage, periodic well test, etc.) and formula(s).

4. A wellbore diagram depicting the proposed production method for efficient recovery of oil and gas, if necessary.

5. Economic justification that commingling is necessary to recover the maximum volume of oil and gas reserves. Economic factors to consider may include drilling and operating costs, producing rates, reserve calculations, decline rates, etc.

6. State which zone(s) are communitized or are in unit participating areas.

The Authorized Officer may approve downhole commingling when the following facts exist and following conditions are met:

1. The fluids from each zone are compatible with the fluids from the other(s); and combining the fluids will not result in the formation of precipitates or emulsions which may damage any of the reservoirs.

2. The commingling will not jeopardize the efficiency of any present or future secondary recovery operations in any zones to be commingled.

3. The commingling will not result in a produced fluid stream which is of lesser quality or value than the individual production streams; i.e., a reduction in BTU content or gravity.

4. The commingling will not result in the permanent loss of reserves due to cross-flow in the wellbore (one zone thieving from another).

5. An applicable method of allocating production to each of the commingled zones.

6. A condition of approval that provides for periodic production testing of individual zones or verification that the allocation factors or methods used are proper.

The Authorized Officer must also follow up approvals with verification that production to each zone is being allocated and reported properly, particularly when a communitization agreement or unit participating area is involved with one or more zones.

New requirements were placed on oil & gas operators and reporters within the state of New Mexico that require them to report to the New Mexico Oil Conservation Division by formation for wells commingled downhole. The MMS and BLM are in concurrence on a solution as to how to accommodate this new requirement. To assure proper reporting in Oklahoma, Texas, and Kansas, the procedures now in place for New Mexico operators will apply to all operators under the jurisdiction of the New Mexico State Office.

Down-hole commingled wells are to be reported with an alpha character, "C" versus the "S" or "A", that is used at the present time.

For example, a well with downhole commingling in two zones would show an API well number/Completion Code in AIRS or AFMSS as 430191234500C1 and 430191234500C2. The first formation would be C1 with subsequent formations numbered as C2, C3, etc. This is compatible with industry systems used to report to both the state of New Mexico and MMS.

Each well completion record should be documented following the C1, C2 designation in the AIRS Well Processing Screen. Comments should be added as to how well production is allocated to each zone, whether one or more IID is involved. Also, the commingling approval should be documented in the AIRS Approval Screen. Comments should also be added as to how well production is allocated to each zone and whether one or more IID is involved.

Each well completion record should be documented following the C1, C2 designation in the AFMSS Well Header Review Window (GLB.90). Also, the commingling approval should be documented in the AFMSS Sundry Notice List for Well Window (SNT.38). Comments should also be added as to how well production is allocated to each zone and whether one or more IID is involved.

The BLM and MMS are in concurrence on the above procedures. the MMS uses the AIRS and AFMSS data to validate what is reported by the operator. By following the above procedures, the data collected by MMS will be correctly reported in MRO.