Form 3160-5
(August 1999)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

OCD OCD-HOBBS

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

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

SUBMIT IN TRIPLICATE

1a. Type of Well ☐ Oil Well ☑ Gas Well ☐ Other	5. Lease Serial No. **NMNM97910**
	6. If Indian, Allottee or Tribe Name
	7 Unit or CA Agreement Name and No.
2. Name of Operator **DEVON ENERGY PRODUCTION COMPANY, LP**	8 Well Name and No. **Arena Roja Federal 5**
3 Address and Telephone No. **20 North Broadway, Oklahoma City, OK 73102** **405-552-8198**	9. API Well No **30-025-38683**
4 Location of Well (Report location clearly and in accordance with Federal requirements)* **1270 FNL 1980 FWL** **Sec 27 T26S R35E Unit C**	10. Field and Pool, or Exploratory **Strawn Morrow**
	12. County or Parish **Lea** 13. State **NM**

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

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

Drilling Operations 2/18/08 - 8/06/08: SEE ATTACHED SUMMARY

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

Signed _____ Name **Norvella Adams** Title Sr. Staff Engineering Technician Date 9/4/2008

(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**

ACCEPTED FOR RECORD
OCT 5 2008
BUREAU OF LAND MANAGEMENT
CARLSBAD FIELD OFFICE

Arena Roja Federal Unit 5
SL: 1270' FNL & 1980' FWL
BHL: 1270' FNL & 1980' FWL
Lea County, NM
API # 30-025-38683

DRILLING OPERATIONS SUMMARY: 2/18/08 – 8/06/08

2/18/08 Move in.
2/19/08 Rig up.
2/22/08 Spud 17 ½" hole.
2/24/08 TD 17 ½" hole at 1003'. Notified Pat with BLM of intent to run casing. Ran in with 22 joints of 13 3/8", 48#, H-40, ST&C casing.
2/25/08 Cement casing with 640 sacks of 35:65 Poz C with 5% NaCl, 1/4 #/sx Cello Flake, 4% Gel, 0.8 % SMS, 5% MPA; 12.8 ppg and 1.83 cuft/sx. Tail with 300 sacks Classic C with 2% $CaCl_2$ + ¼ #/sx Cello Flake; 14.8 ppg and 1.35 cuft/sx. Bump plug with 950 psi. Circulate 120 sacks to surface. Cement volume = 1576 cuft, Approximate temperature of slurry = 95 degrees, minimum formation temperature = 100 degrees, 24 hours compressive strength = 500 psi. WOC 24 hours.
3/07/08 TD 12 ¼" hole at 5250'.
3/08/08 Ran in with 85 joints 9 5/8", 40#, J-55 LT&C and 31 joints of 9 5/8", 40#, HCK-55 LT&C casing and set at 5250'. Cement with 1575 sacks of lead 50:50 Poz C + 3% NaCl + ¼ #/sx Cello Flake + 0.05% ASA-301 + 10% gel; 12 ppg with 2.24 yield. Pump 300 sacks tail cement with 60:40 Poz C + 5% NaCl + ¼ #/sx Cello Flake + 0.3% SMS + 4% MPA-1; tail had 13.8 ppg with 1.37 yield. Circulate 284 sacks to the surface.
3/09/08 Test rams and manifold valves to 5000 psi high and 250 psi low; test annular to 2500 psi high and 250 psi low. WOC 24 hours.
3/12/08 Begin drilling 8 ¾" hole.
3/15/08 Lost returns. Shut well in.
3/16/08 Monitor shut in pressure. Unplug separator. Kill well. Check for flare – no flare. Check for flow – no flow. Continue drilling.
4/08/08 Drilling 8 ¾" hole. Well is flowing – shut annular and monitor well. Shut well in. Monitor for flow.
4/11/08 TOH with tubing – flow check – no flow. Missing cones. TIH with magnet and junk basket. Fish for cones.
4/14/08 Recovered all cones. TIH and resume drilling.
4/16/08 Well shut in to monitor casing and drilling pipe pressure. Pumped mud in to catch drill pipe pressure.
4/22/08 Found 9 5/8" casing leak at 1040'. Loss zone at 12,350' to 12,400' and influx zone at 10,200' to 10,350'. Monitor casing pressure, pump mud, shut down and monitor casing pressure.
4/23/08 Monitor casing pressure while pumping LCM. RU lubricator and side entry pump in sub. Run in drill pipe with plug and set plug in top of drill collars at 12,380'. Pull out of drill pipe with wireline.
4/24/08 RIH with wireline and perforate drill pipe at 12,296'. RIH and cut off top of drill collars at 12,300'. Pump mud down to lower casing pressure. Cement down drill pipe with 1300 sacks Class H with 1.2% FL-62, 0.1% ASA-301, 5 #/sx LCM-1, 0.15% R-21; 15.6 ppg and 1.19 cuft/sx. Monitor casing pressure while WOC. WOC 18 hours.
4/25/08 RU and run temperature survey. TOC = 8150'. Run CBL; TOC = 8170'. Tagged inside drill pipe at 9898'. RIH with wireline and perforate drill pipe at 8158'. POOH with wireline. Test lines to 4000 psi. Unable to pump through perfs – pressured up to 1500 psi. GOH with wireline and perforated drill pipe at 8100'; POH with wireline. Test lines to 4000 psi. Pumped mud down and killed well. Opened annular and checked for flow – no flow. RU wireline to run free point – monitor well.
4/26/08 RIH with wireline and freepoint drill pipe to 8120'. POH with free point. RIH and cut drill pipe at 8122'. POOH with wireline. Monitor well. Circulate and condition mud. RU and set cement plug from 8122' to 7700' with 280 sacks Class H + 1.2% Fl-62, 0.1% ASA-301, 5 #/sx LCM-1, 0.15% R-21. TOOH. Circulate and WOC. Tagged cement at 8030'.
4/27/08 Pick up Kelly and circulate at 8030'. RU and set plug – 250 sacks Class H with 3% $CaCl_2$. Circulate and WOC. Tag cement at 7623'. TOH to 5639'. RU and set plug – 250 sacks Class H with 3% $CaCl_2$. TOH circulate and WOC. TIH and tag cement at 5065'. TOH to 4874'. RU and set plug – 110 sacks Class H. TOH. Circulate to clear drill pipe. RU wireline and run casing inspection log. Plugs set at: 12,300'–8,120',tagged; 8120'–7623', tagged; 5,056'-5,639', tagged; 4,875'-4,690', tagged.
4/28/08 Run casing inspection log. Tool failure due to LCM and crud in hole. Clean and jet pits. Test casing to 1000 psi – ok.
4/29/08 Test rams and manifold to 250 low and 5000 psi high. Test annular to 2500 psi high and 250 psi low – all ok. PU new drill collars and tagged cement at 4,660'. Circulate hole clean. Drill cement from 4,660'- 4,782'.
4/30/08 Circulate. TIH and tagged cement stringers at 5012'. Wash, ream, and drill cement stringers to 5098'. Drill cement from 5098' to 5225'; circulate hole clean. TOH. RU wireline. Run cement bond log from surface to 5218'.
5/01/08 Run cement bond log with 1000 psi on casing. RD wireline. TIH and tagged cement at 5225'. Test casing to 2500 psi for 30 minutes – ok. Drill cement from 5225' to 5300'. Circulate hole clean. RU – test formation to 360 psi; pressure leak off 50 psi. Casing pressure on 13 3/8" wellhead increased from 0 – 50 psi.
5/02/08 RU and RIH with CIBP and set at 5230'. Test BOP to 2500 psi for 30 minutes – ok. RIH and perforate from 5137' to 5140'; total 6 holes. TIH with squeeze packer and set at 5075'. Unable to pump.
5/03/08 Unseat packer and attempt to move. Could pull up but not down. TOH for packer. TIH to 5137'. Spot 500 gallons of 15% HCl at 5137'. Set packer at 4948' – established injection rate. Release packer and TOH. RU wireline and make up retainer.
5/04/08 RIH with wireline retainer and set at 5140'. RD. TIH with drill pipe and stinger. Sting into retainer and test backside of retainer to 2500 psi – ok. Pump 50 sacks 60:40 Class C cement. Sting into retainer and squeeze perfs. Total of 10 bbls of cement in perfs – 26' of cement on to of perfs. TOH. WOC 24 hours.

5/05/08 Tag retainer at 5042'. Drill retainer and cement from 5,042' to top of CIBP at 5234'. Test lines to 4000 psi. Test casing to 2500 psi for 30 minutes – ok. Drill bridge plug at 5234'.
5/07/08 Tag CIBP at 5,135". Drill on CIBP.
5/09/08 Drill out CIBP and drill cement from 5275' to 5,300'. Circualte and condition hole. RU and perform fit test. TOH. TIH with packed hole assembly and mill tooth bit. Drill cement from 5,300' to 7,775'. Circulate hole clean at 7,775'.
5/12/08 Continue drilling from 7,775' to 7,780'. Kick off cement plug 7,780' to 7,782' to 7,793'. Casing pressure on 13 3/8" casing is 120 psi and stable.
5/13/08 Drilling contiues.
5/16/08 Drilling to 7,866'. Service rig. Rotate and drill cement from 7,780' to 8,000'. Circulate and condition mud. POOH for cement plug.
5/17/08 RIH and spot kickoff plug with 1,251 sacks of Class H and 212 sacks of CD-31. Circulate to clear pipe of cement. TOH.
5/18/08 WOC 24 hours and monitor well. TIH and tag cement top at 7,500'. Drill cement from 7,500' to 7,600'. Circulate. Drill 5' of cement to 7,605'. TOH.
5/19/08 Pick up directional tools. TIH and tag cement at 7,605'. Continue drilling.
5/21/08 Drill to 7,779'. TOH. Test BOP, choke, rams and lines to 5000 psi high and 250 psi low; annular to 2500 psi high and 250 psi low – all tested ok. TIH and begin drilling again.
6/10/08 TOH for bit. Function test BOP. TIH with bit and continue drilling.
6/12/08 TD 8 ¾" hole at 12,300'. Circulate and condition hole for logs.
6/16/08 RU and ran in with 296 joints 7 5/8, 39#, P-110H, hydril SLX casing and set at 12,300'. Cement with 690 sacks 50:50 Poz H with ¼ #/sx Cello Flake + 0.08% ASA-301, 10% gel, 0.25% R-21 + 0.5% FL-52A; 11.8 ppg, 2.29 cuft/sx. Tail with 570 sacks 15:61:11 Poz Premium Plus C cement + 0.3% R-3, 1% KCl + 0.75% EC-1 + ¼ #/sx Cell Flake + 0.4% CD-32 + 3 #/sx LCM-1, 0.6% FL-25 + 0.6% FL-52A; 13.3 ppg, 1.56 cuft/sx. RU and RIH with temperature survey (top of cement at 4,230', tag bottom at 11,890').
6/17/08 Test BOP to 300 and 10,000 psi – ok.
6/18/08 Test BOPE to 250 psi low and 10,000 psi high; annular to 250 low and 5000 psi high.
6/19/08 Drill cement from 11,840' to 12,310'.
6/20/08 Perform fit test – ok. Drill new 6 ½" hole from 12,310'. Continue drilling.
6/22/08 Wireline survey. Circulate and condition mud. Raise mud weight. Continue circulating and conditioning mud.
6/24/08 Monitor well for flow.
6/25/08 TIH with directional tools and begin drilling again.
7/01/08 Build and pump slug. TOOH.
7/02/08 Trip back into the hole.
7/07/08 TOH monitoring flow. TIH while monitoring flow; begin drilling again.
7/09/08 Circualte. Build slug and pump. TOOH. RU tester and test BOPE (10,000 high and 250 psi low; annular 5000 psi high and 250 psi low – ok).
7/10/08 TIH and continue drilling.
7/12/08 Work stuck pipe.
7/18/08 Pipe free. Well is flowing. Shut well in. Monitor flow. Raise mud weight. Check for flow and circulate the mud.
7/19/08 Pick up new BHA and TIH. Break circulation every 30 joints.
7/20/08 Work pipe. Wash and ream from 14,385' & 14,445'. Continue drilling.
7/25/08 TD 6 ½" hole at 15,187'.
7/28/08 RIH with 68 joints 5", 23.2#, P110-HC, HDL casing.
7/29/08 Top of liner at 11,982'. Cement with 450 sacks Class H with 0.75% EC-1, 0.7% CD32, 1.2% FL-62, 0.1% SMS, 0.3% R21; 16.5 ppg 1.06 cuft/sx. Bump plug with 2,410 psi – floats held. Set ZXP packer.
7/30/08 TOOH with liner hanger setting tool. TIH with mill tooth bit and tag cement at 11,208'. Drilling cement from 11,435' to 11,430'. Circulate hole clean at 11,430' TOH.
7/31/08 TIH and tagged cement at 14,430'. Drilled cement from 11,430' to 11,968'.
8/01/08 Circulate hole clean. TOOH with bit. TIH with packer and set at 11,888'open bypass. Test lines to 10,000 psi – good. Dump 92 bbls fresh water through bypass at 11,888'. Closed packer bypass and performed negative test for 30 minutes. Well did not flow back and held solid for full 30 minutes. Reverse out 92 bbls fresh water and RD. TOH with packer.
8/02/08 TIH with bit to liner top at 11, 982' and tagged cement stringers. Drill cement stringers in liner from 11,995' to 12,145'.
8/03/08 TIH with bit to tag cement stringer at 14,791'. Drill stringer from 14,791' to 15,064'. Circulate hole clean. TOH.
8/04/08 ND BOP and layout stack. NU with retrievable plug. Jet and clean pipes.
8/06/08 Released rig. Rig down, move out.