Form 3160-5 (August 2007)

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

OCD Artesia

FORM APPROVED OMB NO. 1004-0135 Expires: July 31, 2010

	Expires: July
5.	Lease Serial No.
	NINANIRAGOGGO

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 - Other instructions on reverse side.					NMNM89052 6. If Indian, Allottee or Tribe Name 7. If Unit or CA/Agreement, Name and/or No.										
								Type of Well ☐ Gas Well ☐ Other					8. Well Name and No. APACHE 25 FED 17H		
								2. Name of Operator	Contact:	ERIN L WOF	RKMAN		Well No.	2 V4	
DEVON ENERGY PRODUCT 3a. Address	TON CO Enviair ERIN, WOR		. (include area code)		30-015-41116-00-X1										
333 WEST SHERIDAN AVE OKLAHOMA CITY, OK 7310		Ph: 405-55	(include area code) 2-7970	LOS	10. Field and Pool, or Exploratory LOS MEDANOS										
4. Location of Well (Footage, Sec., 7	., R., M., or Survey Description)		11. Cou	11. County or Parish, and State										
Sec 25 T22S R30E NESE 14	50FSL 730FEL			EDI	DY COUNTY	, NM									
12. CHECK APPI	ROPRIATE BOX(ES) TO) INDICATE	NATURE OF N	OTICE, REPORT,	OR OTHER	DATA									
TYPE OF SUBMISSION			TYPE OF	ACTION											
Notice of Intent Notice of Intent	☐ Acidize	☐ Dee	pen	☐ Production (Star	/Resume)	■ Water Shut-Off									
☐ Subsequent Report	☐ Alter Casing		ture Treat	Reclamation		☐ Well Integrity									
Final Abandonment Notice	☐ Casing Repair ☐ Change Plans		Construction	☐ Recomplete ☐ Temporarily Aba	undon	☑ Other Change to Original A									
Trital Abandonment Notice	Convert to Injection	_ *		☐ Water Disposal											
following completion of the involved testing has been completed. Final At determined that the site is ready for f. Per discussion with Wesley In Devon Energy respectfully rechole with a 5.5" production lor circulation while drilling the lat Attachment: Drilling Plan	gram guests to change the casingstring to 7" intermediate eral. RECEI MAY 2 1 NMOCD A	ng and cemer II and a 4.5"	nt designs from a liner due to loss	ng reclamation, have be	(Plack Sphed for NMOC	of the operator has									
14. I hereby certify that the foregoing is Con Name(Printed/Typed) ERIN L W	#2 Electronic Submission For DEVON ENERG nmitted to AFMSS for proce	Y PRODUCTI	ON CO LP, sent t RT SIMMONS on 0	o the Carlsbad	58SE)										
Signature (Electronic S	Submission)		Date 05/14/20)13											
	THIS SPACE FO	R FEDERA	L OR STATE (OFFICE USE											
Approved By_WESLEY INGRAM			TitlePETROLE!	JM ENGINEER		Date 05/18/2013									
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 Carlsbac	1											
Title 18 U.S.C. Section 1001 and Title 43 States any false, fictitious or fraudulent s				willfully to make to any	department or a	gency of the United									

APACHE 25 FED 17H– APD DRILLING PLAN SKS 6.28.12

Casing Program

<u>Hole</u> <u>Size</u>	<u>Hole</u> <u>Interval</u>	OD Csg	<u>Casing</u> <u>Interval</u>	Weight	<u>Collar</u>	Grade
8 – 3/4"	0 - 13,638	7"	0 – 11,350	29#	DWC/C	P110 EC
6 1/8"	13,638	4.5	10,000-15,165	13.5	BTC	P110

MAX TVD: 10,940 FT

Design Factors

Casing Size	Collapse Design Factor	Burst Design Factor	Tension Design Factor
7" 29# VMS P110 EC DWC/C	1.68	2.24	5.47
4.5" 13.5# P110	2.08	2.42	2.16

NOTE REGARDING COLLAPSE DESIGN FACTOR FOR INTERMEDIATE CASING: The maximum possible collapse load that the intermediate casing will experience will result from evacuated casing with the pore pressure exerting a collapse load at TD. While running the intermediate II casing, the casing string will never be completely evacuated.

Mud Program

	<u>Depth</u>	Mud Wt.	<u>Visc.</u>	Fluid Loss	Type System
0	– 13638	9.2-10	30 - 34	N/C	FW
	13638	10	30-34	N/C	FW

Pressure Control Equipment

The BOP system used to drill the intermediate hole will consist of a 13-5/8" 3M Triple Ram and Annular preventer. The BOP system will be tested as per BLM Onshore Oil and Gas Order 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 a 13-5/8" 3M Triple Ram and Annular preventer. The BOP system will be tested as per BLM Onshore Oil and Gas Order 2 as a **3M system** prior to drilling out the intermediate casing shoe.

The pipe rams will be operated and checked as per Onshore Order No 2. 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 3,000 psi WP.

Devon requests a variance to use a flexible line with flanged ends between the BOP and the choke manifold (choke line). The line will be kept as straight as possible with minimal turns.

Cementing Program (cement volumes based on at least 25% excess)

7" Intermediate II

Lead: 420 sacks (35:65) Poz (Fly Ash): Class H Cement + 3% bwow Sodium Chloride + 0.1% bwoc R-3 +0.125 lbs/sack Cello Flake + 0.7% bwoc FL-52 + 0.3% bwoc ASA-301 + 6% bwoc Bentonite +105.6% Fresh Water, 12.5 ppg

Yield: 2.01 cf/sk

Tail: 300 sacks (50:50) Poz (Fly Ash): Class H Cement + 5% bwow Sodium Chloride + 0.1% bwoc R-3 + 0.3% bwoc CD-32 + 0.5% bwoc FL-25 + 0.5% bwoc FL-52 + 0.25% bwoc Sodium Metasilicate + 57.1% Fresh Water, 14.2 ppg

Yield: 1.28 cf/sk

DV TOOL at 6300 ft

Lead: 280 sacks (60:40) Poz (Fly Ash): Class C Cement + 0.2% bwoc R-3 + 0.125 lbs/sack Cello Flake + 0.25% bwoc FL-52 + 1% bwoc Sodium Metasilicate + 3 lbs/sack LCM-1 + 5% bwow Sodium Chloride + 89.6% Fresh Water, 12.6 ppg

Yield: 1.73 cf/sk

Tail: 150 sacks (60:40) Poz (Fly Ash): Class C Cement + 5% bwow Sodium Chloride + 0.125 lbs/sack Cello Flake + 0.5% bwoc BA-10A + 4% bwoc MPA-5 + 65.1% Fresh Water, 13.8 ppg

Yield: 1.37cf/sk

DV TOOL at 4000 ft

Lead 350 sacks (60:40) Poz (Fly Ash): Class C Cement + 5% bwow Sodium Chloride + 1% bwoc Sodium Metasilicate + 0.25% bwoc FL-52 + 0.1% bwoc R-3 + 3 lbs/sack LCM-1 + 0.125 lbs/sack Cello Flake + 89.6% Fresh Water, 12.6 ppg

Yield: 1.73 cf/sk

Tail: 100 sacks (60:40) Poz (Fly Ash): Class C Cement + 0.125 lbs/sack Cello Flake + 5% bwow Sodium Chloride + 0.5% bwoc BA-10A + 0.3% bwoc Sodium Metasilicate + 4% bwoc MPA-5 + 65.2%Fresh Water, 13.8 ppg

Yield: 1.38cf/sk

TOC @ Surface ft

4.5" Liner

Lead: 960 sacks (50:50) Poz (Fly Ash): Class H Cement + 5% bwow Sodium Chloride + 0.1% bwoc R-3 + 0.3% bwoc CD-32 + 0.5% bwoc FL-25 + 0.5% bwoc FL-52 + 0.25% bwoc Sodium Metasilicate + 57.1% Fresh Water, 14.2 ppg

Yield: 1.28 cf/sk

TOC for All Strings:

Intermediate II:

10,000

ACTUAL CEMENT VOLUMES WILL BE ADJUSTED BASED ON FLUID CALIPER AND CALIPER LOG DATA.

Apache 25 Fed 17H 30-015-41116 Devon Energy Production Co. May 18, 2013 Conditions of Approval

1. The minimum required fill of cement behind the 7 inch production casing is:
a. First stage to DV tool at 6300':
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 at 6300':
□ Cement to circulate. If cement does not circulate, contact the appropriate BLM office before proceeding with third stage cement job. Operator should have plans as to how they will achieve circulation on the next stage.
c. Third stage above DV tool at 4000':
2. The minimum required fill of cement behind the 4-1/2 inch production liner is:
□ Cement to top of liner. If cement does not circulate, contact the appropriate BLM office
WWI 051813