Form 3160-5		OCD	Hobbs HOBBS (OCD	APPROVED	
(August 2007)	DEPARTMENT OF THE I	2014 OMB NG Expires:	OMB NO. 1004-0135 Expires: July 31, 2010			
su	NDRY NOTICES AND REPO	5. Lease Serial No. NMNM121489				
Do not abando	use this form for proposals to ned well. Use form 3160-3 (AP	drill or to re-enter a D) for such proposal	s. RECEN	ED 6. If Indian, Allottee of	r Tribe Name	
SUBMIT	IN TRIPLICATE - Other instruc	ctions on reverse sid	e.	7. If Unit or CA/Agree	ement, Name and/or No.	
1. Type of Well				8. Well Name and No. COACHWHIP 26	FEDERAL 1H	
2. Name of Operator DEVON ENERGY PR	Contact: ODUCTION CO ERMail: david.cool	DAVID H COOK		9. API Well No. 30-025-41961-0		
3a. Address 333 WEST SHERIDAI OKLAHOMA CITY, OI	N AVE \$ 73102	3b. Phone No. (include a Ph: 405-552-7848	area code)	10. Field and Pool, or JOHNSON RAN	10. Field and Pool, or Exploratory JOHNSON RANCH	
4. Location of Well (Footag	e, Sec., T., R., M., or Survey Description	יייייש ע		11. County or Parish,	and State	
Sec 26 T23S R33E SV 32.268963 N Lat, 103.	VSE 215FSL 1500FEL 539449 W Lon			LEA COUNTY,	NM	
12. CHEC	K APPROPRIATE BOX(ES) T	Ș INDICATE NATU	RE OF NOTI	CE, REPORT, OR OTHE	R DATA	
TYPE OF SUBMISSIO	N		FYPE OF ACT	TION		
Notice of Intent	AcidizeAlter Casing	DeepenFracture Treat	t D	Production (Start/Resume) Reclamation	Water Shut-OffWell Integrity	
Final Abandonment N	Iotice Change Plans	New Construction Plug and Aba Plug Back	ction □	Recomplete Temporarily Abandon Water Dísposal	Other Change to Original A PD	
If the proposal is to deepen Attach the Bond under whi following completion of th testing has been completed determined that the site is r Devon Energy Produc - Change surface hole - Change intermediate - Use multi-bowl wellh Please see the attach	directionally or recomplete horizontally ch the work will be performed or provide involved operations. If the operation re- Final Abandonment Notices shall be fi- eady for final inspection.) tion Company, L.P. respectfully to a interval from 1,325' to 1,420'. casing string to a "mixed" grade ead assembly. ed revised Drill Plan and FMC Un	, give subsurface locations the Bond No. on file with sults in a multiple complet led only after all requireme requests to change the casing string. ni-head schematics.	and measured an BLM/BIA. Req ion or recomplet nts, including red e approved Al SEE AT CONDIT	d true vertical depths of all pertin uired subsequent reports shall be ion in a new interval, a Form 316 clamation, have been completed, PD as follows: TACHED FOR TIONS OF APPE	tent markers and zones. filed within 30 days j0-4 shall be filed once and the operator has	
14. Thereby certify that the fo	regoing is true and correct. Electronic Submission a	#274555 verified by the	BLM Well Info	rmation System		
	For DEVON ENE Committed to AFMSS for pre	RGY PRODUCTION CO	LP, sent to the ENEZ on 11/20	ne Hobbs D/2014 (15LJ0355SE)	Kilon in an the second s	
Name (Printed/Typed) D	AVID H COOK	Title	REGULATO	RY SPECIALIST	<u>.</u>	
Signature (E	lectronic Submission)	Date	10/29/2014	APPROVI		
	THIS SPACE F	OR FEDERAL OR	STATE ØFF	ICE USE NOV 2 5 20		
Approved By Conditions of approval, if any, a certify that the applicant holds I which would entitle the applicant	are attached. Approval of this notice doe egal or equitable title to those rights in the to conduct operations thereon.	s not warrant or the subject lease Office	X	BUREAU OF UND MAN CARLSBAD FIELD O	AGEMENT FFICE	
Title 18 U.S.C. Section 1001 an States any false, fictitious or f	d Title 43 U.S.C. Section 1212, make it raudulent statements or representations a	a crime for any person knows to any matter within its ju	wingly and willfurisdiction.	ully to make to any department o	r agency of the United	
** BL	M REVISED ** BLM REVISE	D ** BLM REVISE	D ** BLM RE	EVISED ** BLM REVISE	ED **	

DEC 0 2 2010

DRILLING PROGRAM

Devon Energy Production Company, L.P. Coachwhip 26 Federal 1H

1. Geologic Name of Surface Formation: Quaternary

2. Estimated Tops of Geological Markers & Depths of Anticipated FW, Oil, or Gas:

Formation	TVD	Anticipated
RUSTLER	1,290	no shows
TOP SALT	1,770	no shows
BASE SALT	5,090	no shows
DELAWARE	5,190	Oil & Gas Shows
Cherry Canyon	6,060	Oil & Gas Shows
Brushy Canyon	7,640	Oil & Gas Shows
Bone Spring Lime	9,070	Oil & Gas Shows
1st Bone Spring Sand	10,065	Oil & Gas Shows
2nd Bone Spring Sand	10,770	Oil & Gas Shows

Total Depths

10948' TVD 15731' MD

3. Pressure Control Equipment:

The BOP system-used-to-drill the 17-1/2" hole-will consist of a **20" 2M** Annular preventer. The BOP system will be tested as a **2M** system per BLM Onshore Oil and Gas-Order-2-prior to drilling out the casing shoe.

A 3M 13-5/8" BOP system (Double Ram and Annular preventer) will be installed and tested prior to drilling out the first and second intermediate hole sections. The BOP system will be tested as a **3M** system per BLM Onshore Oil and Gas Order 2 prior to drilling out the casing shoes.

Devon proposes using a multi-bowl wellhead assembly (FMC Uni-head). This assembly will only be tested when installed on the surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be 3000 (3M) psi.

- Wellhead will be installed by FMC's representatives.
- If the welding is performed by a third party, the FMC's representative will monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
- FMC representative will install the test plug for the initial BOP test.
- FMC will install a solid steel body pack-off to completely isolate the lower head after cementing
 intermediate casing. After installation of the pack-off, the pack-off and the lower flange will be tested
 to 5M, as shown on the attached schematic. Everything above the pack-off will not have been altered
 whatsoever from the initial nipple up. Therefore the BOP components will not be retested at that time.
- If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head will be cut and top out operations will be conducted.
- Devon will pressure test all seals above and below the mandrel (but still above the casing) to full working pressure rating.
- Devon will test the casing to 70% of burst or 1500 psi, whichever is greater, as per Onshore Order #2.

After running the 13-3/8" surface casing, a 13-5/8" BOP/BOPE system with a minimum rating of 3M will be installed on the FMC Uni-head wellhead system and will undergo a 250 psi low pressure test followed by a 3,000 psi high pressure test. The 3,000 psi high and 250 psi low test will cover testing requirements a maximum of 30 days, as per Onshore Order #2. If the well is not complete within 30 days of this BOP test, another full BOP test will be conducted, as per Onshore Order #2. After running the 9-5/8' intermediate casing with a mandrel hanger, the 13-5/8" BOP/BOPE system with a minimum rating of 3M will already be installed on the FMC Uni-head.

The pipe rams will be operated and checked each 24 hour period and each time the drill pipe is out of the hole. These tests will be logged in the daily driller's log. 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); **if an H&P rig drills this well. Otherwise no flex line is needed**. The line will be kept as straight as possible with minimal turns.

Auxiliary Well Control and Monitoring Equipment:

- a. A Kelly cock will be in the drill string at all times.
- b. A full opening drill pipe stabbing valve having the appropriate connections will be on the rig floor at all times.

4. Casing Program:

Casing program:

Hole size (in)	Hole interval	Casing OD	Casing Interval	Casing wt (ppf)	Connection	Casing Grade
17.5	0 - 1420	13.375	0 - 1420	48	STC	H-40
12.25	1420 - 5200	9.625	0 - 4300	40	BTC	J-55
12.25		9.625	4300 - 5200	、 40	втс	HCK-55
8.75	5200 - 15731	7	0 - 10515	29	втс	HCP-110
8.75		5.5	10515 - 15731	. 17	BTC	P-110

Casing Notes:

• All casing is new and API approved

Maximum Lateral TVD: 10948'

Casing	Collapse	Bürst	Tension
13-3/8", 48#, H-40, STC	1.28	3.02	8.51
9-5/8″ J-55 BTC	1.15	3.43	4.69
9-5/8" HCK-55 BTC	1.57	4.63	6.07
7", 29#, HCP-110, BTC	1.87	2.46	3.13
5-1/2", 17#, P-110, BTC	1.67	2.24	3.05

5. Proposed mud Circulations System:

Mud	program:

Depth	ŇŴ	Visc (cp)	Fluid loss	Туре
0 - 1420	8.5 - 8.7	1-3	NC	FW
1420 - 5200	9.8 - 10	1-3	<100	Brine
5200 - 15731	8.4 - 9	1-3	<100	Cut brine

The necessary mud products for weight addition and fluid loss control will be on location at all times. Visual mud monitoring equipment will be in place to detect volume changes indicating loss or gain of circulating fluid volume. If abnormal pressures are encountered, electronic/mechanical mud monitoring equipment will be installed.

6. Cementing Table:

String	Number of sx	Weight lbs/gal	Water Volume g/sx	Yield cf/sx	Stage; Lead/Tail	Slurry Description
13-3/8"	670	13.5	9.08	1.72	Lead	Class C Cement + 0.125 lbs/sack Poly-E-Flake + 4% bwoc Bentonite + 70.1% Fresh Water
Surface Casing	560	14.8	6.34	1.33	Tail	Class C Cement + 63.5% Fresh Water
9-5/8"	1130	12.9	9.82	1.85	Lead	(65:35) Class C Cement: Poz (Fly Ash): 6% BWOC Bentonite + 5% BWOW Sodium Chloride + 0.125 Ibs/sack Poly-E-Flake + 70.9 % Fresh Water
Casing	430	14.8	6.32	1.33	Tail	Class C Cement + 0.125 lbs/sack Poly-E-Flake + 63.5% Fresh Water
7 x 5-1/2" Production	410	11	14.94	2.66	Lead	Tuned Light [®] Cement + 0.125 lb/sk Pol-E-Flake + 76.5% Fresh Water
Casing .	1380	14.5	5.31	1.20	Tail	(50:50) Class H Cement: Poz (Fly Ash) + 0.5% bwoc HALAD-344 + 0.25% bwoc CFR-3 + 0.1% bwoc HR-601 + 2% bwoc Bentonite + 58.8% Fresh Water

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TOC for all Strings: 13-3/8" Surface Casing	Oft
9-5/8" Intermediate Casing	Oft
7 x 5-1/2" Production Casing	:5,000ft

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Notes:

- Cement volumes Surface 100%, Intermediate 75% and Production Casing based on at least 25% excess
- Actual cement volumes will be adjusted based on fluid caliper and caliper log data





PECOS DISTRICT CONDITIONS OF APPROVAL

OPERATOR'S NAME:	Devon Energy Production Company, L.P.
LEASE NO.:	NMNM-121489
WELL NAME & NO.:	Coachwhip 26 Federal 1H
SURFACE HOLE FOOTAGE:	0215' FSL & 1500' FEL
BOTTOM HOLE FOOTAGE	0330' FNL & 0660' FEL
LOCATION:	Section 26, T. 23 S., R 33 E., NMPM
COUNTY:	Lea County, New Mexico
API:	30-025-41961

The original COAs still stand with the following drilling modifications:

I. DRILLING

A. DRILLING OPERATIONS REQUIREMENTS

The BLM is to be notified in advance for a representative to witness:

- a. Spudding well (minimum of 24 hours)
- b. Setting and/or Cementing of all casing strings (minimum of 4 hours)
- c. BOPE tests (minimum of 4 hours)

Lea County

Call the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240, (575) 393-3612

- 1. Hydrogen Sulfide has been reported as a hazard in formations deeper than the proposed depth. Operator has stated that they will have monitoring equipment in place prior to drilling out of the surface shoe. If Hydrogen Sulfide is encountered, report measurements and formations to the BLM.
- Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval. If the drilling rig is removed without approval an Incident of Non-Compliance will be written and will be a "Major" violation.
- 3. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works is located, this does not include the dog house or stairway area.

4. The record of the drilling rate along with the GR/N well log run from TD to surface (horizontal well – vertical portion of hole) shall be submitted to the BLM office as well as all other logs run on the borehole 30 days from completion. If available, a digital copy of the logs is to be submitted in addition to the paper copies. The Rustler top and top and bottom of Salt are to be recorded on the Completion Report.

B. CASING

Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.

Centralizers required on surface casing per Onshore Order 2.III.B.1.f.

Wait on cement (WOC) time prior to drilling out for a primary cement job will be a minimum 18 hours for a water basin, 24 hours in the potash area, or 500 pounds compressive strength, whichever is greater for all casing strings. DURING THIS WOC TIME, NO DRILL PIPE, ETC. SHALL BE RUN IN THE HOLE. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. IF OPERATOR DOES NOT HAVE THE WELL SPECIFIC CEMENT DETAILS ONSITE PRIOR TO PUMPING THE CEMENT FOR EACH CASING STRING, THE WOC WILL BE 30 HOURS. See individual casing strings for details regarding lead cement slurry requirements.

No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.

Possibility of water flows in the Salado and Castile. Possibility of lost circulation in the Rustler, Red Beds, and Delaware.

- 1. The 13-3/8 inch surface casing shall be set at approximately 1420 feet (in a competent bed <u>below the Magenta Dolomite</u>, which is a <u>Member of the Rustler</u>, and if salt is encountered, set casing at least 25 feet above the salt) and cemented to the surface. Fresh water mud to be used to setting depth.
 - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
 - b. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry.
 - c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
 - d. If cement falls back, remedial cementing will be done prior to drilling out that string.
- 2. The minimum required fill of cement behind the 9-5/8 inch intermediate casing is:

Cement to surface. If cement does not circulate see B.1.a, c-d above.

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

3. The minimum required fill of cement behind the $7 \times 5-1/2$ inch production casing is:

Cement should tie-back at least 200 feet into previous casing string. Operator shall provide method of verification.

4. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.

C. PRESSURE CONTROL

1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in Onshore Oil and Gas Order No. 2 and API RP 53 Sec. 17.

- 2. Variance approved to use flex line from BOP to choke manifold. Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor. If the BLM inspector questions the straightness of the hose, a BLM engineer will be contacted and will review in the field or via picture supplied by inspector to determine if changes are required (operator shall expect delays if this occurs).
- 3. Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on the surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be 3000 (3M) psi.
 - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
 - c. Manufacturer representative shall install the test plug for the initial BOP test.
 - d. Operator shall perform the intermediate casing integrity test to 70% of the casing burst. This will test the multi-bowl seals.
 - e. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
- 4. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
 - a. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead when specified), whichever is greater. However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).

- b. The tests shall be done by an independent service company utilizing a test plug **not a cup or J-packer**.
- c. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one hour chart. A circular chart shall have a maximum 2 hour clock. If a twelve hour or twenty-four hour chart is used, tester shall make a notation that it is run with a two hour clock.
- d. The results of the test shall be reported to the appropriate BLM office.
- e. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.
- f. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.

D. DRILL STEM TEST

If drill stem tests are performed, Onshore Order 2.III.D shall be followed.

E. WASTE MATERIAL AND FLUIDS

All waste (i.e. drilling fluids, trash, salts, chemicals, sewage, gray water, etc.) created as a result of drilling operations and completion operations shall be safely contained and disposed of properly at a waste disposal facility. No waste material or fluid shall be disposed of on the well location or surrounding area.

Porto-johns and trash containers will be on-location during fracturing operations or any other crew-intensive operations.

JAM 112514