Form 3160-5 (June 2015)

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

FORM APPROVED OMB NO. 1004-0137 Expires: January 31, 2018

SUNDRY NOTICES AND REPORTS ON WELLS

5. Lease Serial No. NMNM120901

D 4 4h	!- f f	44	.	
abandoned we	is form for proposals to drill or II. Use form 3160-3 (APD) for su	to re-enter an uch proposals.	6. If Indian, Allotte	e or Tribe Name
SUBMIT IN	TRIPLICATE - Other instruction	s on page 2	7. If Unit or CA/Ag	reement, Name and/or No.
Type of Well Oil Well	her		8. Well Name and N JABBERWOCK	
Name of Operator CHEVRON USA INCORPOR	Contact: LAURA		9. API Well No. 30-015-45161	-00-X1
3a. Address 6301 DEAUVILLE BLVD MIDLAND, TX 79706		one No. (include area code) 32-687-7665	10. Field and Pool of PURPLE SAC	or Exploratory Area GE-WOLFCAMP (GAS)
4. Location of Well (Footage, Sec., 7	C., R., M., or Survey Description)		11. County or Paris	h, State
Sec 12 T24S R31E SESE 36 32.225636 N Lat, 103.724136			EDDY COUN	TY, NM
12. CHECK THE A	PPROPRIATE BOX(ES) TO INI	DICATE NATURE OF	NOTICE, REPORT, OR O	THER DATA
TYPE OF SUBMISSION		TYPE OF	ACTION	
Notice of Intent ■	☐ Acidize ☐] Deepen	☐ Production (Start/Resume)	■ Water Shut-Off
_	, -	Hydraulic Fracturing	☐ Reclamation	■ Well Integrity
☐ Subsequent Report	☐ Casing Repair	New Construction	☐ Recomplete	Other Drilling Operations
☐ Final Abandonment Notice	☐ Change Plans	Plug and Abandon	☐ Temporarily Abandon	Diffining Operations
	Convert to Injection eration: Clearly state all pertinent details,	Plug Back	☐ Water Disposal	
testing has been completed. Final A determined that the site is ready for the Chevron respectfully requests. We will have a minimum of a 5,000 psi annular. Annular wi	d operations. If the operation results in a bandonment Notices must be filed only affinal inspection. If the operation results in a bandonment Notices must be filed only affinal inspection. It to set the 9-5/8" intermediate cases at 10,000 psi rig stack for drill out be lested to 250 psi low and 5,0 an are highlighted in the attached	fter all requirements, includi sing to 11,250'.	ng reclamation, have been complete	RECEIVED
99 1 °	sbad Field Offi	Accer		TRICT II-ARTESIA O.C.D.
- 674.2 .1	OCD Artesia		SEE ATTACHED ONDITIONS OF AP	
14. I hereby certify that the foregoing i Con Name (Printed/Typed) LAURA B	Electronic Submission #434811 N For CHEVRON USA INC nmitted to AFMSS for processing b	ORPORATED, sent to to by PRISCILLA PEREZ or	he Carlsbad	
Traine(17) EAGIGN E	COLITION	THE PERMIT	THYO OF ECIAEIOT	
Signature (Electronic	Submission)	Date 09/11/20	018	
	THIS SPACE FOR FEE	DERAL OR STATE (OFFICE USE	
Approved By ZOTA STEVENS		TitlePETROLE	JM ENGINEER	Date 09/13/2018
Conditions of approval, if any, are attached	uitable title to those rights in the subject l	ant or ease Office Carlsbac		
	U.S.C. Section 1212, make it a crime for statements or representations as to any m		willfully to make to any department	or agency of the United

1. FORMATION TOPS

The estimated tops of important geologic markers are as follows:

FORMATION	SUB-SEA TVD	KBTVD	MD
Rustler		766	
Castile		2,990	
Lamar		4,575	
Bell Canyon		4,626	
Cherry Canyon		5,480	
Brushy Canyon		6,760	
Avalon		8,443	
First Bone Spring		9,380	
Second Bone Spring		10,032	
Third Bone Spring		11,330	
Wolfcamp A		11,769	
Lateral TD (Wolfcamp A2)		12,430	22,380
Wolfcamp B		12,545	
Pilot Hole TD*		12,760	

^{*}Pilot Hole TD to account for 200' logging BHA rathole.

2. ESTIMATED DEPTH OF WATER, OIL, GAS & OTHER MINERAL BEARING FORMATIONS

The estimated depths at which the top and bottom of the anticipated water, oil, gas, or other mineral bearing formations are expected to be encountered are as follows:

Substance	Formation	Depth
Deepest Ex	spected Base of Fresh Water	400
Water	Castile	2,990
Water	Cherry Canyon	5,480
Oil/Gas	Brushy Canyon	6,760
Oil/Gas	Avalon	8,443
Oil/Gas	First Bone Spring	9,380
Oil/Gas	Second Bone Spring	10,032
Oil/Gas	Third Bone Spring	11,330
Oil/Gas	Wolfcamp A	11,769
Oil/Gas	Wolfcamp B	12,545

All shows of fresh water and minerals will be reported and protected.

3. BOP EQUIPMENT

Chevron will have a minimum of a 5,000 psi rig stack (see proposed schematic) for drill out below surface casing. The Wolfcamp is not exposed until drill out of the intermediate casing, and the stack will be tested as specified in the attached testing requirements. Chevron will have a minimum of a 10,000 psi rig stack (see proposed schematic) for drill out below intermediate casing with a 5,000 psi annular. Annular will be tested to 250 psi low and 5,000 psi high. Batch drilling of the surface, intermediate, and production will take place. A full BOP test will be performed unless approval from BLM is received otherwise. Flex choke hose will be used for all wells on the pad (see attached specs). BOP test will be conducted by a third party.

Chevron requests a variance to use a FMC Technologies UH-S Multibowl wellhead, which will be run through the rig floor on surface casing. BOPE will be nippled up and tested after cementing surface casing. Subsequent tests will be performed as needed, not to exceed 30 days. The field report from FMC Technologies and BOP test information will be provided in a subsequent report at the end of the well. Please see the attached wellhead schematic. An installation manual has been placed on file with the BLM office and remains unchanged from previous submittal.

4. CASING PROGRAM

a. The proposed casing program will be as follows:

Purpose	From	То	Hole Size	Csg Size	Weight	Grade	Thread	Condition
Surface	0' %'	D 800	17-1/2"	13-3/8"	54.5#	J-55	STC	New
Intermediate	0'	11,250	12-1/4"	9-5/8"	43.5#	L-80	LTC	New
Production	0'	22,380'	8-1/2"	5-1/2"	20.0#	P-110 ICY	TXP BTC	New

Pilot Hole: 8-1/2" Pilot hole down to 12,760' TVD

An atternative casing design with a contingency string is as follows:

Purpose	From	To	Hole Size	Csg Size	Weight	Grade	Thread	Condition
Surface	Ö	60 800	17-1/2"	13-3/8"	54.5#	J-55	STC	New
Intermediate Csg	0	11,280	12-1/4"	9-5/8"	43.5#	L-80	LTC	New
Intermediate Liner	1G.930'	11,900'	8-1/2"	7-5/8"	29.7 #	P-110	Wedge 513	New
D and affects	0'	11,750	6-3/4"	5-1/2"	20.0#	P-110 ICY	TXP BTC	New
Production	11,750'	22,380'	1 6-3/4	5"	18.0#	P-110 IC	Wedge 521	New

Pilot Hole: 8-1/2" Pilot hole down to 12,760' TVD

- b. Casing design subject to revision based on geologic conditions encountered.
- c. ***A "Worst Case" casing design for wells in a particular area is used below to calculate the Casing Safety Factors. If for any reason the casing design for a particular well requires setting casing deeper than the following "worst case" design, then the Casing Safety Factors will be recalculated & sent to the BLM prior to drilling.
- d. Chevron will fill casing at a minimum of every 20 jts (840') while running for intermediate and production casing in order to maintain collapse SF.

SF Calculations based on the following "Worst Case" casing design:

Casing String	Min SF Burst	Min SF Collapse	Min SF Tension	Min SF Tri-Axial
Surface	1.80	3.12	3.17	2.26
Intermediate	1,25	1.92	1,60	1,53
Production	1.15	1.39	2.19	1.38

For alternate casing design with contingency:

Casing String	Min SF Burst	Min SF Collapse	Min SF Tension	Min SF Tri-Axial	
Surface	1.80	3.12	3,17	2.26	
Intermediate Csg	1.25	1,92	1.60	1.63	
Intermediate Liner	1.83	2.28	2.49	2.25	
Production	1,15	1.54	1.70	1.38	

The following worst case load cases were considered for calculation of the above Min. Safety Factors:

Burst Design		Surf	Int	Prod
Pressure Test- Surfac	e. Int. Prod Csq	X	X	X
	Mud weight above TOC, PP below	}	}	}
P internal:		1	ł	1
Displace to Gas- Surf		X		
	Mud weight above TOC, PP below			
P internal:	Dry Gas from Next Csg Point			
Gas over mud (60/40)			X	
	Mud weight above TOC, PP below	1	İ	Ì
P internal:	60% gas over 40% mud from Pilot hole TD PF	<u> </u>		
Stimulation (Frac) Pre		T		Х
P external:				
P internal:	Max inj pressure w/ heaviest injected fluid			
Tubing leak- Prod Cs	g (packer at KOP)			X
P external:			1	
P internal:	Leak just below surf, 8.45 ppg packer fluid			<u> </u>
Collapse Design				·
Full Evacuation		Х	Х	Х
P external:	Mud weight gradient			
P internal:	none			
Cementing- Surf, Int,	Prod Csg	Х	X	X
•	Wet cement		}	
P internal:	displacement fluid - water	1		1
Tension Design				
100k lb overpull		X	X	X

CONFIDENTIAL -- TIGHT HOLE DRILLING PLAN PAGE:

5. **CEMENTING PROGRAM**

Slurry	Туре	Тор	Bottom	Weight	Yield	%Excess	Sacks	Water	Volume
Surface				(ppg)	(cu ft/sk)	Open Hole		gal/sk	bbls
Tail	Class C	0,	800'	14.8	1,34	50	821	6.40	196
Intermediate Csg - Stag	<u>ie 1</u>							<u>, </u>	· · · · · · · · · · · · · · · · · · ·
Lead	Class C	4,600'	10,296	11.9	2.56	35	832	14.66	425
Tail	Class C	10,250	11,250'	14.8	°1.38	35	346	6.38	82
Intermediate Csg - Sta	ge 2 (DV tool @ 4,600')			·					
Lead	Class C	0'	4,100'	11.9	2.56	35	662	14.66	302
Tail	Class C	4,100'	4,600'	14.5	9 1.4	35	151	6.77	38
Production						·	· · · · · · · · · · · · · · · · · · ·	,	
Lead	Class C	10,750	21,380'	14,5	1.4	35	2326	6.77	\$81
Tail	Class H (Acid Soluble)	21,380'	22,380'	15	2.18	35	147	9.56	57
Pilot Hole Cement Plus									
Cement Plug	Class H	11,369'	11,869'	15.6	1.18	35	225	5.20	47
Cement Plug	Class H	12,145'	12,645'	15.6	1.18	35	225	5.20	47

Cementing Program for alternate casing design with contingency string:

*No change to surface and intermediate cement design with implementation of

Slurry	Туре	Тор	Bottom	Weight	Yield	%Excess	Sacks	Water	Volume
				(ppg)	(cu ft/sk)	Open Hole		gal/sk	bbls
Intermediate Liner		. ,			· · · · · · · · · · · · · · · ·	·· ·······	· ************************************	.,	
Tail	Class C	10,950	11,900'	14.5	14	35	. 88	6.77	21
Production		·····	· · · · · · · · · · · · · · · · · · ·		1	.,	······································		
Lead	Class C	10,750	21,380'	14.5	1.4	35	4123	6.77	280
Tail	Class H (Acid Soluble)	21,380'	22,380'	15	2.18	35	74	9.56	29
Pilot Hole Cement Plug			· · · · · · · · · · · · · · · · · · ·		1	<u> </u>			· · · · · · · · · · · · · · · · · · ·
Cement Plug	Class H	11,845'	12,645'	15.6	1.18	35	223	5.20	47

CONFIDENTIAL -- TIGHT HOLE
DRILLING PLAN
PAGE: 4

1. Final cement volumes will be determined by caliper.

- 2. Surface casing shall have at least one centralizer installed on each of the bottom three joints starting with the shoe joint.
- 3. Production casing will have one horizontal type centralizer on every joint for the first 1000' from TD, then every other joint to EOB, and then every third joint to KOP. Bowspring type centralizers will be run from KOP to intermediate casing.
- 4. Intermediate casing cement job will be a 2 stage job with DV tool set at the base of Lamar.

6. MUD PROGRAM

From	To	Type	Weight	Viscosity	Filtrate
0'	800'	Spud Mud	8.3 - 8.9	28-30	N/C
800'	11,290	OBM	8.7 - 9.6	10-20	10-12
11,250'	Pilot Hole TD: 12,750	ОВМ	9.0 - 13	10-15	10-12
11,250'	Well TD: 22,380	ОВМ	8.8 - 13	10-15	15-25

A closed system will by utilized consisting of above ground steel tanks. All wastes accumulated during drilling operations will be contained in a portable trash cage and removed from location and deposited in an approved sanitary landfill. Sanitary wastes will be contained in a chemical porta-toilet and then hauled to an approved sanitary landfill.

All fluids and cuttings will be disposed of in accordance with New Mexico Oil Conservation Division rules and regulations.

A mud test shall be performed every 24 hours after mudding up to determine, as applicable: density, viscosity, gel strength, filtration, and pH.

Visual mud monitoring equipment shall be in place to detect volume changes indicating loss or gain of circulating fluid volume. When abnormal pressures are anticipated — a pit volume totalizer (PVT), stroke counter, and flow sensor will be used to detect volume changes indicating loss or gain of circulating fluid volume.

A weighting agent and lost circulating material (LCM) will be onsite to mitigate pressure or lost circulation as hole conditions dictate.

7. TESTING, LOGGING, AND CORING

The anticipated type and amount of testing, logging, and coring are as follows:

- a. Drill stem tests are not planned.
- b. The logging program will be as follows:

TYPE	Logs	Interval	Timing
Mudlogs	2 man mudlog	Int Csg to TD	Drillout of Int Csg
LWD	MWD Gamma	Int. and Prod. Hole	While Drilling

Pilot Hole OH Logs:

	Triple Combo + dielectric + CMR		After drilling out pilot hole	
OH Logs	Sonic Scanner	11,250 - 12,750	and before kick-off	
_		· ·	lateral.	

- c. Hole Core is planned from 11,250' 12,750' targeting 3rd Bone Spring and Wolfcamp A formations.
- d. A Directional Survey will be run.

8. ABNORMAL PRESSURES AND HYDROGEN SULFIDE

- a. No abnormal pressure or temperatures are expected. Estimated BHP is:
- b. Hydrogen sulfide gas is not anticipated. An H2S Contingency plan is attached with this APD in the event that H2S is encountered

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME: | Chevron USA Incorporated

LEASE NO.: NMNM 120901

WELL NAME & NO.: 1H- JABBERWOCKY

SURFACE HOLE FOOTAGE: 367'/S & 354'/E BOTTOM HOLE FOOTAGE 280'/N & 330'/E

LOCATION: | T-24S, R-31E, S-12NMPM

COUNTY: | EDDY, NM

COA

All previous COAs still apply expect the following

H2S	CYes	€ No	
Potash	None None None	© Secretary	C R-111-P
Cave/Karst Potential	ه Low	○ Medium	← High
Variance	None	Flex Hose	○ Other
Wellhead	Conventional	Multibowl	C Both
Other	☐ 4 String Area	☐ Capitan Reef	□ WIPP

A. Hydrogen Sulfide

Hydrogen Sulfide (H2S) monitors shall be installed prior to drilling out the surface shoe. If H2S is detected in concentrations greater than 100 ppm, the Hydrogen Sulfide area shall meet Onshore Order 6 requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, provide measured values and formations to the BLM.

B. CASING

Option 1

- 1. The 13-3/8 inch surface casing shall be set at approximately 850 feet (a minimum of 25 feet into the Rustler Anhydrite and above the salt) and cemented to the surface.
 - 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 will be a minimum of **24 hours in the Potash Area** or 500 pounds compressive strength, whichever is greater. (This is to include the lead cement)

- 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.

Operator shall filled 50% of casing with fluid while running intermediate casing to maintain collapse safety factor.

2. The minimum required fill of cement behind the 9-5/8 inch intermediate casing is: Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.

Operator has proposed a DV tool, the depth may be adjusted as long as the cement is changed proportionally. The DV tool may be cancelled if cement circulates to surface on the first stage.

- a. First stage to DV tool: Cement to circulate. If cement does not circulate off the DV tool, contact the appropriate BLM office before proceeding with second stage cement job.
- b. Second stage above DV tool:Cement to surface. If cement does not circulate, contact the appropriate BLM office.
- 3. The minimum required fill of cement behind the 5-1/2 inch production casing is:
 - Cement should tie-back at least 500 feet into previous casing string. Operator shall provide method of verification. Additional cement maybe required. Excess calculates to 22%.

OPTION 2

Operator shall contact BLM 4hrs before proceeding with Option 2(contingency plan) in Drilling Plan.

Operator shall filled 1/3rd of casing with fluid while running intermediate casing to maintain collapse safety factor.

- 4. The minimum required fill of cement behind the 7-5/8 inch production liner is:
 - Cement should tie-back 100' into the previous casing. Operator shall provide method of verification.

Variance was approved for an annular spacing between the 7.625" x 5.5" casing.

- 5. The minimum required fill of cement behind the 5-1/2 inch production casing is:
 - Cement should tie-back at least 500 feet into previous casing string. Operator shall provide method of verification.

The pilot hole plugging procedure is approved as written. Note plug tops on subsequentdrilling report.

Pilot hole is required to have a plug at the bottom of the hole. If two plugs are set, the BLM is to be contacted (575-361-2822) prior to tag of bottom plug, which must be aminimum of 200' in length. Operator can set one plug from bottom of pilot hole to kick-offpoint and save the WOC time for tagging the first plug. Note plug tops on subsequent drilling report.

C. PRESSURE CONTROL

- 1. Variance approved to use flex line from BOP to choke manifold. Manufacturer's specification to be readily available. No external damage to flex line. Flex line to be installed as straight as possible (no hard bends).
- 2. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be 10,000 (10M) psi.

GENERAL 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)
 - Chaves and Roosevelt Counties
 Call the Roswell Field Office, 2909 West Second St., Roswell NM 88201.
 During office hours call (575) 627-0272.
 After office hours call (575)

 - ✓ Lea CountyCall the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240, (575)393-3612
- 1. 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.
 - a. In the event the operator has proposed to drill multiple wells utilizing a skid/walking rig. Operator shall secure the wellbore on the current well, after installing and testing the wellhead, by installing a blind flange of like pressure

rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other well(s).

- b. When the operator proposes to set surface casing with Spudder Rig
 - Notify the BLM when moving in and removing the Spudder Rig.
 - Notify the BLM when moving in the 2nd Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
 - BOP/BOPE test to be conducted per Onshore Oil and Gas Order No. 2 as soon as 2nd Rig is rigged up on well.
- 2. 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 are located, this does not include the dog house or stairway area.
- 3. The record of the drilling rate along with the GR/N well log (one log per well pad is acceptable) 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.

A. CASING

- 1. 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.
- 2. Wait on cement (WOC) for Potash Areas: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi for all cement blends, 2) until cement has been in place at least 24 hours. WOC time will be recorded in the driller's log. The casing intergrity test can be done (prior to the cement setting up) immediately after bumping the plug.
- 3. Wait on cement (WOC) for Water Basin: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. See individual casing strings for

- details regarding lead cement slurry requirements. The casing intergrity test can be done (prior to the cement setting up) immediately after bumping the plug.
- 4. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. Have well specific cement details onsite prior to pumping the cement for each casing string.
- 5. No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.
- 6. On that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Formation at the shoe shall be tested to a minimum of the mud weight equivalent anticipated to control the formation pressure to the next casing depth or at total depth of the well. This test shall be performed before drilling more than 20 feet of new hole.
- 7. 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.
- 8. Whenever a casing string is cemented in the R-111-P potash area, the NMOCD requirements shall be followed.

B. 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. If a variance is approved for a flexible hose to be installed from the BOP to the choke manifold, the following requirements apply: The flex line must meet the requirements of API 16C. 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.
- 3. 5M or higher system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.
- 4. If the operator has proposed a multi-bowl wellhead assembly in the APD. The following requirements must be met:

- 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. 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.
- e. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i must be followed.
- 5. 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. In potash areas, 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. For all casing strings, casing cut-off and BOP installation can be initiated at twelve hours after bumping the plug. However, **no tests** shall commence until the cement has had a minimum of 24 hours setup time, except the casing pressure test can be initiated immediately after bumping the plug (only applies to single stage cement jobs).
 - c. The tests shall be done by an independent service company utilizing a test plug. The results of the test shall be reported to the appropriate BLM office.
 - d. 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.
 - 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. This test shall be performed prior to the test at full stack pressure.
- g. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the Wolfcamp formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per Onshore Order No. 2.

C. DRILLING MUD

Mud system monitoring equipment, with derrick floor indicators and visual and audio alarms, shall be operating before drilling into the Wolfcamp formation, and shall be used until production casing is run and cemented.

D. 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.

Waste Minimization Plan (WMP)

In the interest of resource development, submission of additional well gas capture development plan information is deferred but may be required by the BLM Authorized Officer at a later date.

ZS 091318



Stevens, Zota <zstevens@blm.gov>

[EXTERNAL] Variance Requested for SND and Jabberwocky

4 messages

Lewis, Megan M <MegLewis@chevron.com>

Thu, Aug 2, 2018 at 2:08 PM

To: "zstevens@blm.gov" <zstevens@blm.gov>

Cc: "Becerra, Laura" <LBecerra@chevron.com>, "Smith, Clint" <cli>clint.smith@chevron.com>

Zota,

Chevron formally requests a variance from the annular spacing requirements for the BLM. Our contingency design includes 7-5/8" liner with 5.5" x 5" production casing. Because the 5.5" casing goes into the 7-5/8" liner, the spacing requirements will not be met. We request that the additional 300' above the liner top qualify as the required cement tieback interval for the production casing cement job.

Thank you,

Meg Lewis



Meg Lewis

Drilling & Completions Engineer

Coil Tubing SME

Cell: 832-763-1158

Office: 713-372-0703

Chevron North America- MCBU

Drilling & Completions

meglewis@chevron.com

Stevens, Zota <zstevens@blm.gov>
To: "Lewis, Megan M" <MegLewis@chevron.com>

Wed, Sep 5, 2018 at 10:47 AM

i am still waiting for the list

Zota Stevens
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