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Form 3160-3 August 2007) UNITED STATES		HOBE OCD HOPP	s 00 s 4 201	Expires	APPROVED lo. 1004-0137 July 31, 2010	
DEPARTMENT OF THE BUREAU OF LAND MAN	INTERIOR		OEIV	5. Lease Serial No. NMNM118722		
BUREAU OF LAND MAN APPLICATION FOR PERMIT TO	DRILL OF	REENTER	CEN	6. If Indian, Allotee	e or Tribe N	ame
la. Type of work: I DRILL REENT				7. If Unit or CA Agr	eement, Nan	ne and No.
lb. Type of Well: 🖌 Oil Well 🗌 Gas Well 💭 Other	√ Si	ngle Zone 🗌 Multij	ole Zone	8. Lease Name and SD WE 24 FED P2		(31633)
2. Name of Operator CHEVRON USA INC 4323)			9. API Well No.	432	96
3a. Address 161 W. BENDER BLVD HOBBS, NM 8824	3b. Phone No 575-263-04). (include area code) 431	WGO	10. Field and Pool, or $25 - 06 $		9P, AG (9795
4. Location of Well (Report location clearly and in accordance with an	ty State requirem	nents.*)		11. Sec., T. R. M. or H		rey or Area
At surface 260' FSL & 1308' FWL At proposed prod. zone 180' FNL & 970' FWL				SEC 24 T26S,R32 SEC 13 T26S,R32		
 Distance in miles and direction from nearest town or post office* 50 MILES SOUTH OF JAL, NEW MEXICO 				12. County or Parish LEA		13. State
 Distance from proposed* 260' FSL location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 	16. No. of a 1600 ACR	icres in lease IES	320 ACF		well	
8. Distance from proposed location* 5541 FT FROM SALADO to nearest well, drilling, completed, DRAW SWD applied for, on this lease, ft.	19. Proposed TD 9,045'	d Depth MD 19,160'	20. BLM/F	BIA Bond No. on file		
Elevations (Show whether DF, KDB, RT, GL, etc.) 3134' GL	22. Approxim 09/01/201	mate date work will star 6	rt*	23. Estimated duration 30 DAYS	n	
and the second	24. Attac	chments				
 he following, completed in accordance with the requirements of Onshot. Well plat certified by a registered surveyor. A Drilling Plan. A Surface Use Plan (if the location is on National Forest System SUPO must be filed with the appropriate Forest Service Office). 		 Bond to cover the Item 20 above). Operator certification 	ne operation ation	s form: ns unless covered by an prmation and/or plans as		
5. Signature, Henna - Mwill		(Printed/Typed) Y HERRERA-MUR	ILLO		Date 03/01/20	016
PERMITTING SPECIALIST						
James A. Amos	Name	(Printed/Typed)			Date	N 8 - 2016
tle FIELD MANAGER	Office			CARLSBAD FIEL		
pplication approval does not warrant or certify that the applicant hold induct operations thereon. onditions of approval, if any, are attached.	s legal or equi	table title to those right	ts in the sub	APPROVA	L FOR	TWO YEARS
tle 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crates any false, fictitious or fraudulent statements or representations as	rime for any po to any matter w	erson knowingly and within its jurisdiction.	villfully to m	ake to any department of	or agency of	the United
Continued on page 2)		1/		*(Inst	ructions	on page 2)
Carlsbad Controlled Water Basin		66/14	416	R.		

SEE ATTACHED FOR CONDITIONS OF APPROVAL

Approval Subject to General Requirements & Special Stipulations Attached ONSHORE ORDER NO. 1 Chevron SD WE 24 Fed P23 2H Lea County, NM

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1. FORMATION TOPS

The estimated tops of important geologic markers are as follows:

FORMATION	SUB-SEA TVD	KBTVD	MD
Rustler	2502	740	
Castile	242	3000	
Lamar	-1588	4830	
Bell Canyon	-1628	4870	
Cherry Canyon	-2633	5875	
Brushy Canyon	-4256	7498	
Bone Spring Limestone	-5743	8985	
Upr. Avalon	-5818	9060	
Lateral TD (Upper Avalon)	-5803	9045	19160

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	pected Base of Fresh Water	700
Water	Rustler	740
Water	Bell Canyon	4870
Water	Cherry Canyon	5875
Oil/Gas	Brushy Canyon	7498
Oil/Gas	Bone Spring Limestone	8985
Oil/Gas	Upr. Avalon	9060

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

3. BOP EQUIPMENT

Will have a minimum of a 5000 psi rig stack (see proposed schematic) for drill out below surface casing. Stack will be tested as specified in the attached testing requirements. 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.

Chevron requests a variance to use a FMC UH2 Multibowl wellhead, which will be run through the rig foor 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 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.

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4. CASING PROGRAM See COA

a. The proposed casing program will be as follows:

Purpose	From	То	Hole Size	Csg Size	Weight	Grade	Thread	ondition
Surface	0' 7	50850 '	17-1/2"	13-3/8"	48 #	H-40	STC	New
Intermediate	0' 460	×4,700	12-1/4"	9-5/8"	40 #	HCK-55	LTC	New
Production	0'	19,160'	8-1/2"	5-1/2"	20.0 #	HCP-110	TXP BTC S	New

- 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 recalcuated & 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 base	d on the following "	<u>Worst Case" casing des</u>	<u>ign:</u>	
Surface Casing:	1000'			
Intermediate Casing:	5000'			
Production Casing:	20,000' MD	0/9,135' TVD (6400' VS @	90 deg inc)	
Casing String	Min SF Burst	Min SF Collapse	Min SF Tension	Min SF Tri-Axial
Surface	1.42	1.63	2.29	1.8
Intermediate	1.2	1.44	2.09	1.44
Production	1.26	1.71	2.2	1.46

Min SF is the smallest of a group of safety factors that include the following considerations:

		Surf	Int	Prod
Burst Design				
Pressure Test- Surfa	ce, Int, Prod Csg	Х	X	X
P external:	Water			
P internal:	Test psi + next section heaviest mud in csg			
Displace to Gas- Sur	f Csg	Х		
P external:	Water			
P internal:	Dry Gas from Next Csg Point	_		
Frac at Shoe, Gas to	Surf- Int Csg		X	
P external:	Water			
P internal:	Dry Gas, 15 ppg Frac Gradient			
Stimulation (Frac) Pr	essures- Prod Csg			X
P external:	Water			
P internal:	Max inj pressure w/ heaviest injected fluid			
Tubing leak- Prod Cs	g (packer at KOP)			X
P external:	Water			
P internal:	Leak just below surf, 8.7 ppg packer fluid			
Collapse Design				
Full Evacuation		Х	X	X
P external:	Water gradient in cement, mud above TOC			
P internal:	none			
Cementing- Surf, Int,	Prod Csg	X	X	X
•	Wet cement			
P internal:	water			
Tension Design				
100k lb overpull		X	X	X

ONSHORE ORDER NO. 1 Chevron SD WE 24 Fed P23 2H Lea County, NM

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5. CEMENTING PROGRAM

Slurry	Туре	Тор	Bottom	Weight	Yield	%Excess	Sacks	Water
Surface				(ppg)	(sx/cu ft)	Open Hole		gal/sk
Tail	Class C	0'	850'	14.8	1.33	125	1026	6.57
Intermediate								
Lead	Conventional	0'	3,700'	11.9	2.43	150	1050	14.21
Tail	Conventional	3,700'	4,700'	14.8	1.33	85	464	6.37
Production								
1st Lead	Conventional	3,850'	8,458'	11.5	2.66	50	569	15.51
2nd Lead	Conventional	8,458'	18,160'	12.5	1.59	35	1891	9.64
Tail	SoluCem H	18,160'	19,160'	15	1.59	0	144	11.42

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.

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6. MUD PROGRAM

	From	To 7	💋 Туре	Weight	F. Vis	Filtrate
	0'	850' 🙀	Spud Mud	8.3 - 8.7	28 - 32	NC - NC
7	50-850	4,700'	Brine	9.5 - 10.1	28 - 30	NC - NC
46	× 4,700'	8,458'	Invermul	8.3 - 9.6	70 - 75	30 - 25
	8,458'	9,359'	Invermul	8.3 - 9.6	70 - 75	30 - 25
	9,359'	19,160'	Invermul	8.3 - 9.6	70 - 75	30 - 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	Vendor
Mudlogs	2 man mudlog	Int Csg to TD	Drillout of Int Csg	TBD
LWD	MWD Gamma	Int. and Prod. Hole	While Drilling	TBD

c. Conventional whole core samples are not planned.

d. A Directional Survey will be run.

8. ABNORMAL PRESSURES AND HYDROGEN SULFIDE

a. No abnormal pressures or temperatures are expected. Estimated BHP is: 4500 psi

b. Hydrogen sulfide gas is not anticipated. An H2S Contingency plan is attached with this APD in the event that H2S is encountered

CERTIFICATION

I hereby certify that I, or someone under my direct supervision, have inspected the drill site and access route proposed herein; that I am familiar with the conditions which currently exist; that I have full knowledge of state and Federal laws applicable to this operation; that the statements made in this APD package are, to the best of my knowledge, true and correct; and, that the work associated with the operations proposed will be performed in conformity with this APD package and the terms and conditions under which it is approved. I also certify that I, or the company I represent, am responsible for the operations conducted under this application. These statements are subject to the provisions of 18 U.S.C. 1001 for the filing of a false statement.

Executed this 29th day of February, 2016

Name:

James Ward - Project Manager

Address: <u>1400 Smith Street, 40050</u> Houston, TX 77002

Office 713-372-1748

E-mail: jwgb@chevron.com

BLOWOUT PREVENTOR SCHEMATIC

Minimum Requirements

OPERATION : Intermediate and Production Hole Sections

Minimum System Pressure Rating : 5,000 psi





<section-header><form></form></section-header>			B	OPE Testir	ng	
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Construction of the event of the second			em must be performed	I, verified, and check	ked off at least once pe	
with nitroging as only. Tested preclarge pressures must be recorded for each individual both and sceptable pressure in the origon of the weak in the origon of the origon of the origon of the origon of the weak in the origon of the origon origon of the origon origon or the origon origon or the origon origon origon or the origon origon origon origon origon origon origon or the origon origon origon origon origon origon origon origon or the origon oris origon oris origon origon origon origon origon origon		pressure testin	g of BOP equipment. 1	This must be repeate	d after 6 months on the	e same well.
Securation of the second sec	\Box ,	with nitrogen gas only.	Tested precharge pres	sures must be recor	ded for each individual	bottle and kept on location
pressure	Check	Accumulator working		Desired precharge		
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Irans, close the annular preventer, and rélan a minimum of 200 på above the maximum acceptable précharge pressure recorded and kept on location through the end of the vell. Irans, close the annular preventer, and rélan a minimum of 200 på above the maximum acceptable précharge pressure recorded and kept on location through the end of the vell. Accoundator fluid recervit will be beaution through the submet fluid volume of the execution will be recorded. Resorvoir of the recervited along with manufacturer's recommendations. Usable fluid volume will be recorded. Resorvoir and the recorded along with manufacturer's recommendation. All will be kept on location through the end of the well. Closing unit system will have two independent power sources (not counting accumulator bottles) to close the preventers. Power for the closing unit pumps will be available to the unit at all times so that the pumps will automatically start into a counnulator bottles is loolated, closing unit will be capable of opening the hydraulically-operated choke line valve (if used) plus close the annular preventer on the smallest size drill pipe within 2 minutes and obtain a minimum of 200 par above maximum acceptable prechange pressure (see table above) on the closing mainfield. Test pressure and closing unit will be capable of opening the hydraulically-operated choke line valve (if used) plus close the annular preventer on the smallest size drill pipe within 2 minutes and obtaing all preventers and the BOPE system will be capable of closing all preventers. Remote controls for the BOPE system will be capable of the well. Master controls for the BOPE system will be capable of densing all preventers. Boot BOPE system will be cound by a capable of closing all preventers. Remote controls for the BOPE system will be capable of closing all preventers. Boot BOPE system will be capable of closing all preventers. Boot BOPE system will be capable of closing all preventers. <p< td=""><td></td><td></td><td></td><td></td><td></td><td></td></p<>						
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Preventers. Preverventers. Preventers. Preventers. Preventers.		will be maintained at ma be recorded. Reservoir t ocation through the end	nufacturer's recomme luid level will be recor of the well.	ndations. Usable flu ded along with many	id volume will be recon ufacturer's recommend	ded. Reservior capacity w ation. All will be kept on
when the obsing valve manifold pressure decreases to the pre-set level. It is recommended to check that air line to accumulator pump is ONP during seah tour change. With accumulator bottles isolated, closing unit will be capable of opening the hydraulically-operated choke line valve (if used) plus close the annular preventer on the smallest size drill pipe within 2 minutes and obtain a minimum of 200 per labore maximum acceptable preventary extrements (see table above) on the closing manifest and closing all preventer and the BOPE system will be reactive that all the accumulator and will be capable of opening and closing all preventer and the choke line valve (if used) Master controls for the BOPE system will be reactily accessible (clear path) to the driller and located on the rig floor (not in the dog house). Remote controls will be capable of closing all preventers. Record accumulator tests in drilling reports and IADC sheet BLM will be given at least 4 hour notice prior to beginning BOPE testing Valve on casing head below test plug will be open Test will be performed using clear water. The following item must be performed during the BOPE testing and then checked off BOPE will be pressure tested when initially installed, whenever any seal subject to test pressure is broken, following related repairs, and at a minimum of 30 days intervals. Test pressure and 5,000 psi (high). Annular type preventer and all related well control equipment will be tested to 250 psi (how) and 5,000 psi (high). Valves will be tested from the working pressure side with all down stream valves open. The check valve will be held open to test the kill in valve(have two independent	power sources (not	counting accumulator	bottles) to close the
if used) plus close the annular preventer on the smallest size drill pipe within 2 minutes and obtain a minimum of 200 pei above maximum acceptable preventares are discing time will be recorded and kept on location through the end of the well. Master controls for the BOPE system will be located at the accumulator and will be capable of opening and closing all preventer and the choke line valve (if used) Remote controls for the BOPE system will be located at the accumulator and will be capable of opening and closing all preventers. Remote controls for the BOPE system will be chosted at the accumulator and will be capable of opening and closing all preventers. Record accumulator tests in drilling reports and IADC sheet BOPE Test Checklist The following item must be ckecked off prior to beginning test BLM will be given at least 4 hour notice prior to beginning BOPE testing Valve on casing head below test plug will be open Test will be preformed using clear water. The following item must be performed during the BOPE testing and then checked off BOPE will be pressure tested when initially installed, whenever any seal subject to test pressure is broken, following related repairs, and at an ininium of 30 days intervals. Test pressure and times will be recorded by a 3 rd party on a test charf and kept on location through the end of the well. Test plug will be used Ram type preventer and all related well control equipment will be tested to 250 psi (low) and 5,000 psi (high). Valves will be tested from the working pressure side with all down		when the closing valve n	nanifold pressure decr	eases to the pre-set		
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BOPE Test Checklist The following item must be ckecked off prior to beginning test BLM will be given at least 4 hour notice prior to beginning BOPE testing Valve on casing head below test plug will be open Test will be performed using clear water. BOPE will be pressure tested when initially installed, whenever any seal subject to test pressure is broken. 600ving related repairs, and at a minimum of 30 days intervals. Test pressure and times will be recorded by a 3 st party on a test chart and kept on location through the end of the well. Test plug will be used Ram type preventer and all related well control equipment will be tested to 250 psi (low) and 5,000 psi (high). Valves will be tested from the working pressure side with all down stream valves open. The check valve will be held open to test the kill line valve(s) Each pressure test will be held for 10 minutes with no allowable leak off. Master controls and remote controls to the closing unit (accumulator) must be function tested as part of the BOP test Record BOP tests and pressures in drilling reports and IADC sheet Atter Installation Checklist is complete, fill out the information below and email to Superintendent and Drilling Engineer also with any all BOP and accumulator test charts and reports from 3 st parties.		Remote controls for the	BOPE system will be m	eadily accessible (cl		and located on the rig
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