District i 1625 N. French Dr., Hobbs, NM 88240 Phone: (575) 393-6161 Fax: (575) 393-0720 District II 811 S. First St., Antesia, NM 88210 Phone: (575) 748-1283 Fax: (575) 748-9720 District III 1000 Rio Brazos Road, Aztec, NM 87410 Phone: (505) 334-6178 Fax: (505) 334-6170 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico

Form C-102

District Office

Energy, Minerals & Natural Research Department/ATION Revised August 1, 2011 OIL CONSERVATION DIVISION DISTRICT Submit one copy to appropriate

1220 South St. Francis DrFEB 0 4 2019 Santa Fe, NM 87505

AMENDED REPORT

RECEIVED

			WELL LOCATION	ON AND	ACREAG	E DEDICA	ΓΙΟΝ PLA [·]	Т		
	¹ API Number 30.015-457/1 98220				³ Pool Name					
_ 30.0	<u>15-4</u>	5711	9822	20		PURPL	E SAGE; WOI	FCAMP	(GAS)	
⁴ Proper	rty Code				roperty Name				6 ,	Well Number
324	971			CB C	AL 15 22 (02				3H
	ID No.			٥"	perator Name					⁹ Elevation
43	23			CHEVE	RON U.S.A. IN	С.			2992'	
	¹⁰ Surface Location									
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/	West line	County
A	15	23 SOUTH	28 EAST, N.M.P.M.		520'	NORTH	1305'	EA	ST	EDDY
			" Bottom H	ole Locat	ion If Diff	erent From S	Surface			
UL or lot no.	Section	Township	Range	Lot Idn	Fect from the	North/South line	Feet from the	East/V	Vest line	County
P	P 22 23 SOUTH 28 EAST, N.M.P.M. 100' SOUTH 330' EAST EDDY						EDDY			
12 Dedicated A	¹² Dedicated Acres ¹³ Joint or Infill ¹⁴ Consolidation Code ¹⁵ Order No.									
640										

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

16	A			^B . ¹⁷ OPERATOR CERTIFICATION
				I hereby certify that the information contained herein is true and complete
	CB CAL 15 22 002 NO. 3H WELL			to the best of my knowledge and belief, and that this organization either
	X= 581,239 NAD 27		N 78°04'10" E	owns a working interest or unleased mineral interest in the land including
	Y= 477,044		996.74	the proposed bottom hole location or has a right to drill this well at this
PROPOSED FIRST TAKE POINT	LAT. 32.311237			location pursuant to a contract with an owner of such a mineral or
X= 582,214 NAD 27	LONG. 104.070376		posed First Take Point 330' FNL, 330' FEL	working interest, or to a voluntary pooling agreement or a compulsary
Y= 477,250	X= 622,422 NAD83			pooling order heretofore entered by the division.
LAT. 32.311797	Y= 477,104 LAT. 32.311358		Sec. 15	
LONG. 104.067218 X= 623,397 NAD83				1 Caylie 11/29/19
Y= 477,310	ELEVATION +2992 NAVD 88		4,988.86	Signature Date
LAT. 32.311918			, ⁶	
LONG. 104.067713			ů u	Kayla McConnell
	CORNER COORDINATES		<u>ک</u>	Printed Name
PROPOSED MID POINT	TABLE (NAD 27)		01.54	gncv@chevron.com
X= 582,217 NAD 27 Y= 472,261	A - Y=477496.90, X=577205.98		i 8,	E-mail Address
LAT. 32.298083	B - Y=477585.85, X=582543.98 C - Y=472181.86, X=577232.84			
LONG. 104.067249	D - Y=472266.72, X=582546.90			
X= 623,400 NAD83	E - Y=466858.95, X=577288.92		Proposed	SURVEYOR CERTIFICATION
Y= 472,321	F - Y=467012.61, X=582560.30		Mid Point	I hereby certify that the well location shown on this
LAT. 32.298204 LONG. 104.067744				plat was plotted from field notes of actual surveys
[LUNG. 104.007744	1		4	made by me or under my supervision, and that the
PROPOSED LAST TAKE POINT				
X= 582,229 NAD 27			1	same is true and correct to the best of my belief.
Y= 467,333				1 L. 482
LAT. 32.284535	PROPOSED BOTTOM HOLE LOCATION		46	10/13/2017 481 L. LASTRA
LONG. 104.067248	X= 582 230 NAD 27		Sec. 22	Date of Survey
X= 623,412 NAD83	Y= 467,103			Signature and Seal offProfessional Surveyor:
Y= 467,392 LAT. 32.284656	LAT. 32.283903			
LONG. 104.067742	LONG. 104.067248			06/05/2018
	X= 623,413 NAD83		d Last Take Point	
	Y= 467,162 LAT. 32,284024	330'	FSL, 330' FEL	1 - Mott X & Stat
	LONG. 104.067742			
				23006 / y - W NA C
	_		330	Certificate Number
L	E		V	

Rup 2-13-19

ONSHORE ORDER NO. 1 Chevron CB CAL 15 22 002 3H Eddy County, NM

CONFIDENTIAL -- TIGHT HOLE DRILLING PLAN

1. FORMATION TOPS

The estimated tops of important geologic markers are as follows:

FORMATION	SUB-SEA TVD	KBTVD	MD
Castille	1917	1103	
Lamar	435	2595	
Bell	398	2622	
Cherry	-414	3434	
Brushy	-1638	4658	
Bone Spring Lime	-3140	6160	
Avalon	-3547	6567	
First Bone Spring Sand	-4272	7292	
SBSG Sand	-5004	8024	
Third Bone Spring Carbonate	-6108	9128	
Third Bone Spring Sand	-6443	9403	
Wolfcamp A		9463	
		0505	1987
Lateral TVD Wolfcamp A	-6545	9565	1987



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	Expected Base of Fresh Water	450
Water	Castille	1103
Water	Cherry Canyon	3434
Oil/Gas	Brushy Canyon	4658
Oil/Gas	First Bone Spring Sand	7292
Oil/Gas	SBSG Sand	8024
Oil/Gas	Third Bone Spring Carbonate	9128
Oil/Gas	Third Bone Spring Sand	9403
Oil/Gas	Wolfcamp A	9463

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). 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. 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 UHS 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.

4. CASING PROGRAM

Purpose	From	То	Hole Size	Csg Size	Weight	Grade	Thread	Condition
Surface	0'	450'	17-1/2"	13-3/8"	54.5 #	J-55	STC	New
Intermediate	0'	9,000'	12-1/4"	9-5/8"	43.5#	L-80IC	LTC	New
Production	0'	19,871'	8-1/2"	5-1/2"	20#	P-110	TXP	New

SF Calculations based on the following "Worst Case" casing design: 450'

Surface Casing:

Intermediate Casing: 9,000' MD

Production Casing:	19,871' MD/9,565' TVD (9,943.39' VS @ 90 deg inc)					
Casing String	Min SF Burst	Min SF Collapse	Min SF Tension	Min SF Tri-Axiai		
Surface	1.42	5.22	2.76	1.76		
Intermediate	1.38	2.19	1.7	1.67		
Production	1.1	1.64	2.19	1.32		

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

	Surf	Int	Prod
Burst Design			
Pressure Test- Surface, Int, Prod Csg	X	X	X
P external: Water			
P internal: Test psi + next section heaviest mud in csg			
Displace to Gas- Surf Csg	×		
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) Pressures- Prod Csg			×
P external: Water			
P internal: Max inj pressure w/ heaviest injected fluid			
Tubing leak- Prod Csg (packer at KOP)			x
P external: Water			
P internal: Leak just below surf, 8.7 ppg packer fluid			
Collapse Design			
Full Evacuation	X	X	x
P external: Water gradient in cement, mud above TOC			
P internal: none			
Cementing- Surf, Int, Prod Csg	X	×	×
P external: Wet cement			
P internal: water			
Tension Design	· [1	

100k lb overpull	X	X	X	
ONSHORE ORDER NO. 1		CONFI	IDENTIAL - TIGHT HOLE	
Chevron	DRILLING PLAN			
CB CAL 15 22 002 3H		PAGE:	3	
Eddy County, NM				

5. CEMENTING PROGRAM

Slurry	Туре	Cemnent Top	Cement Bottom	Weight	Yield	OH %Excess	Sacks	Water
Surface				(ppg)	(sx/cu ft)	Open Hole		gal/sk
Tail	Class C	0'	450'	14.8	1.336	10	257	6.423
Intermediate								
Stage 2 Lead	Class C	0'	1,595'	11.9	2.57	10	217	14.73
Stage 2 Tail	Class C	1,595'	2595'	14.8	1.337	10	258	6.42
DV Tool		2,5	95'					
Stage 1 Lead	Class C	2,595'	8,000'	11.9	2.57	10	724	14.73
Stage 1 Tail	Class C	8,000'	9,000'	14.8	1.337	10	258	6.42
Production								
Tail	Class C	6,000'	18,871	13.2	1.84	10	1763	9.85
Acid Soluable Tail	Class H	18,871	19,871'	15	2.18	10	116	9.55

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.

6. MUD PROGRAM

From	То	Туре	Weight	F. Vis	Filtrate
0'	450'	Spud Mud	8.3 - 8.4	32 - 34	NC - NC
450'	9,000'	Brine/OBM	8.8 - 10	50 -70	5.0 - 10
9,000'	19,871'	OBM	9.5 - 13	50 -70	5.0 - 10

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

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 CSG & Prod	While Drilling	TBD

c. Conventional whole core samples are not planned.

d. A Directional Survey will be run.

8. ABNORMAL PRESSURES AND HYDROGEN SULFIDE

No abnormal Pressures anticipated. Reference Attached H2S Contingency Plan.