

Submit 1 Copy To Appropriate District
Office
District I - (575) 393-6161
1625 N. French Dr., Hobbs, NM 88240
District II - (575) 748-1283
811 S. First St., Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Rd., Aztec, NM 87410
District IV - (505) 476-3460
1220 S. St. Francis Dr., Santa Fe, NM
87505

State of New Mexico
Energy, Minerals and Natural Resources

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-103
Revised August 1, 2011

WELL API NO. 30-015-22754
5. Indicate Type of Lease STATE ☒ FEE ☐
6. State Oil & Gas Lease No.
7. Lease Name or Unit Agreement Name CULEBRA BLUFF SWD
8. Well Number 1
9. OGRID Number 4323
10. Pool name or Wildcat SWD DELAWARE
11. Elevation (Show whether DR, RKB, RT, GR, etc.)

SUNDRY NOTICES AND REPORTS ON WELLS
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A
DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH
PROPOSALS.)

1. Type of Well: Oil Well ☐ Gas Well ☐ Other SWD
2. Name of Operator
CHEVRON U.S.A. INC.
3. Address of Operator
15 SMITH ROAD, MIDLAND, TEXAS 79705
4. Well Location
Unit Letter E : 1980 feet from the NORTH line and 860 feet from the WEST line
Section 2 Township 23-S Range 28-E NMPM County EDDY

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐
TEMPORARILY ABANDON ☐ CHANGE PLANS ☐
PULL OR ALTER CASING ☐ MULTIPLE COMPL ☐
DOWNHOLE COMMINGLE ☐

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐
COMMENCE DRILLING OPNS. ☐ P AND A ☐
CASING/CEMENT JOB ☐

OTHER: RUN STEP RATE TEST & STIMULATION

OTHER

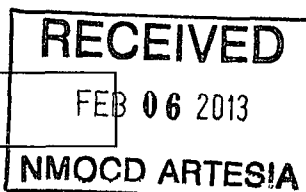
13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recomple

CHEVRON U.S.A. INC. REQUESTS APPROVAL TO CONDUCT A STEP RATE TEST ON THE SUBJECT WELL.

PLEASE FIND ATTACHED, THE INTENDED PROCEDURE, WELLBORE DIAGRAM, AND C-144 INFORMATION.

Spud Date:

Rig Release Date:



I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE

Denise Pinkerton

TITLE: REGULATORY SPECIALIST

DATE: 02-04-2013

Type or print name: DENISE PINKERTON

E-mail address: leakejd@chevron.com

PHONE: 432-687-7375

For State Use Only

APPROVED BY:

Quinn Ingram

TITLE: COMPLIANCE OFFICER

DATE: 2/7/13

Conditions of Approval (if any):

API # 3001522754

State/County: NM/ Eddy

SEC 2-23S-28E, 1980 FNL & 860 FEL

Job: Conduct Step-Rate Test

Well Data:

- Currently injecting approximately 1200-1700 bbls at 1010 psi
- Max surface pressure is 1,052 psi as per IPI approved by NMOCD in December 2007
- Perforations from 4300'-4800'
- TD @ 12900'

Procedure:

1. *This procedure is based on the most recent information regarding wellbore configuration and equipment that could be found in the Midland Office well files and computer databases as of 1/16/2013. Verify what is in the hole with the well file in the Eunice Field office. Discuss w/ WEO Engineer, Workover Rep, OS, ALS, and FS prior to rigging up on well regarding any hazards or unknown issues pertaining to the well.*
2. Ensure that the well has been shut in for 2 days prior to the test. For verification call Production Engineer, Alyssa Davanzo, at (720) 244-4417 or (432) 687-7659.
3. MIRU step rate test control trailer. RU pump truck and transport.
4. NU lubricator and test to 4500 psi.
5. RIH BH pressure gauge using slickline operations to ~4550', the midpoint of the perforations.
6. Begin conducting step rate test. Maintain a stable rate of 100 BWIPD for 10 minutes and wait for the pressure to stabilize before continuing the test.
7. Pump each 10 minute interval at the following injection rates: 250 BPD, 500 BPD, 1000 BPD, 1500 BPD, 2000 BPD, 2500 BPD and 3000 BPD. Injection rates may vary based on collected data from the previous step and the estimated frac pressure. Three data points above and below the frac pressure are required for a complete test. Pump approximately 80 bbls total, assuming each stage is 10 minutes.

Potential Pumping Schedule (10 min/Stage)				
Stage	BWIPD	BWIPM	Volume/Stage	Rounded Volume/Stage
1	100	0.07	0.69	1.00
2	250	0.17	1.74	2.00
3	500	0.35	3.47	4.00
4	1000	0.69	6.94	7.00
5	1500	1.04	10.42	11.00
6	2000	1.39	13.89	14.00
7	2500	1.74	17.36	18.00
8	3000	2.08	20.83	21.00
		Total bbls	75.35	80.00

8. Record stabilized pressure and injection rate for each step and chart results.
9. POOH with BH pressure gauge.
10. ND lubricator.
11. RDMO step rate test equipment and pump truck.

Current Wellbore Schematic

WELL (PN): CULEBRA BLUFF SWD(CVX) (891198)
 FIELD OFFICE: BRG - BRG PETROLEUM
 FIELD: HERRADURA BEND
 STATE / COUNTY: NEW MEXICO / EDDY
 LOCATION: SEC 2-23S-28E, 1980 FNL & 860 FWL
 ROUTE: HOB-NM-ROUTE 18- CONTRACT PUMPER
 ELEVATION: GL: 3,009.0 KB: 3,028.0 KB Height: 19.0
 DEPTHS: TD: 12,900.0



API #: 3001522754

Serial #:

SPUD DATE: 12/13/1978

RIG RELEASE: 12/9/1985

FIRST SALES:

Original Hole, 10/19/2012 2:01:24 PM		Surface Casing; Set @ 400.0 ftKB ; Original Hole																			
Vertical schematic (actual)		Zones		Set Tension (kips)		Mud Weight		Cut Pull Date		Depth Cut Pull (ftKB)											
16 in; 65.00 lb/ft; H-40; 400.0 ftKB Cmt w/ 500 sx; Circ TOC by TS 10 3/4 in; 40.50 lb/ft; K-55; 2,900.0 ftKB Cmt w/ 1800 sx; Circ w/ 75 sx Sand Frac; 4,300.0-4,800.0 ftKB; 4/13/1993 Acidizing; 4,300.0-4,800.0 ftKB; 4/13/1993 Plug Back Total Depth; 5,765.0 ftKB Cemented Bridge Plug; 7 in; 5,765.0 ftKB CIBP w/ 35' cmt Sand Frac; 6,062.0-6,126.0 ftKB; 12/9/1985 Acidizing; 6,062.0-6,126.0 ftKB; 12/9/1985 Sand Frac; 6,178.0-6,225.0 ftKB; 3/25/1991 Acidizing; 6,178.0-6,225.0 ftKB; 3/25/1991 Cemented Bridge Plug; 7 in; 6,265.0 ftKB CIBP w/ 35' cmt Acidizing; 6,349.0-6,718.0 ftKB; 1/6/1982 CIBP Cast Iron Bridge Plug; 7 in; 7,212.0 ftKB Acidizing; 7,654.0-7,680.0 ftKB; 6/28/1981 CIBP Cast Iron Bridge Plug; 7 in; 8,600.0 ftKB Acidizing; 8,740.0-8,790.0 ftKB; 6/28/1981 Cemented Bridge Plug; 7 in; 10,965.0 ftKB CIBP w/ 35' cmt Top of Liner 7 5/8 in; 33.70 lb/ft; S-95; 11,450.0 ftKB Cmt w/ 1850 sx Acidizing; 11,512.0-11,516.0 ftKB; 4/18/1979 Acidizing; 11,722.0-11,730.0 ftKB; 4/3/1979 Cemented Bridge Plug; 5 in; 12,165.0 ftKB CIBP w/ 35' cmt Acidizing; 12,326.0-12,423.0 ftKB; 2/19/1979 5 1/2 in; 17.93 lb/ft; M-80; 12,900.0 ftKB Cmt w/ 285 sx																					
		Item Des		OD (in)		ID (in)		Drift (in)		Wt (lb/ft)		Grade		Top Thread		Top (ftKB)		Btm (ftKB)		Len (ft)	
		Casing Joints		16		15.250		15.062		65.00		H-40		ST&C		19.0		399.0		380.00	
		Float Shoe		16												399.0		400.0		1.00	
Intermediate 1 Casing; Set @ 2,900.0 ftKB ; Original Hole																					
		Set Tension (kips)		Mud Weight		Cut Pull Date		Depth Cut Pull (ftKB)													
		Item Des		OD (in)		ID (in)		Drift (in)		Wt (lb/ft)		Grade		Top Thread		Top (ftKB)		Btm (ftKB)		Len (ft)	
		Casing Joints		10 3/4		10.050		9.894		40.50		K-55		ST&C		19.0		2,899.0		2,880.00	
		Float Shoe		10 3/4												2,899.0		2,900.0		1.00	
Intermediate 2 Casing; Set @ 11,450.0 ftKB ; Original Hole																					
		Set Tension (kips)		Mud Weight		Cut Pull Date		Depth Cut Pull (ftKB)													
		Item Des		OD (in)		ID (in)		Drift (in)		Wt (lb/ft)		Grade		Top Thread		Top (ftKB)		Btm (ftKB)		Len (ft)	
		Casing Joints		7 5/8		6.765		6.640		33.70		S-95		LT&C		19.0		11,449.0		11,430.00	
		Float Shoe		7 5/8												11,449.0		11,450.0		1.00	
Liner Casing; Set @ 12,900.0 ftKB ; Original Hole																					
		Set Tension (kips)		Mud Weight		Cut Pull Date		Depth Cut Pull (ftKB)													
		Item Des		OD (in)		ID (in)		Drift (in)		Wt (lb/ft)		Grade		Top Thread		Top (ftKB)		Btm (ftKB)		Len (ft)	
		Liner Hanger		5 1/2												11,115.0		11,125.0		10.00	
		Casing Joints		5 1/2		4.892		4.767		17.93		M-80		ST&C		11,125.0		12,899.0		1,774.00	
		Float Shoe		5 1/2												12,899.0		12,900.0		1.00	
		Description: Surface Casing Cement																			
		19.0-400.0																			
		Top of Cement (ftKB): 19.0 Top Measurement Method:																			
		Fluid		Pump Start Date		Amount (sacks)		Class		Dens (lb/gal)		Vol Pumped (bbl)		Yield (ft³/sack)							
				12/13/1978		500															
		Description: Intermediate Casing Cement																			
		19.0-2,900.0																			
		Top of Cement (ftKB): 19.0 Top Measurement Method:																			
		Fluid		Pump Start Date		Amount (sacks)		Class		Dens (lb/gal)		Vol Pumped (bbl)		Yield (ft³/sack)							
				12/19/1978		1,800															
		Description: Intermediate Casing Cement																			
		1,955.0-11,450.0																			
		Top of Cement (ftKB): 1,955.0 Top Measurement Method: Temperature Log																			
		Fluid		Pump Start Date		Amount (sacks)		Class		Dens (lb/gal)		Vol Pumped (bbl)		Yield (ft³/sack)							
				1/12/1979		1,850															
		Description: Liner Cement																			
		11,115.0-12,900.0																			
		Top of Cement (ftKB): 11,115.0 Top Measurement Method:																			
		Fluid		Pump Start Date		Amount (sacks)		Class		Dens (lb/gal)		Vol Pumped (bbl)		Yield (ft³/sack)							
				2/12/1979		285															
		Description: Cement Squeeze																			
		6,062.0-6,126.0																			
		Top of Cement (ftKB): 6,062.0 Top Measurement Method:																			

Current Wellbore Schematic

WELL (PN): CULEBRA BLUFF SWD(CVX) (891198)
 FIELD OFFICE: BRG - BRG PETROLEUM
 FIELD: HERRADURA BEND
 STATE / COUNTY: NEW MEXICO / EDDY
 LOCATION: SEC 2-23S-28E, 1980 FNL & 860 FWL
 ROUTE: HOB-NM-ROUTE 18- CONTRACT PUMPER
 ELEVATION: GL: 3,009.0 KB: 3,028.0 KB Height: 19.0
 DEPTHS: TD: 12,900.0



API #: 3001522754

Serial #:

SPUD DATE: 12/13/1978

RIG RELEASE: 12/9/1985

FIRST SALES:

Original Hole, 10/19/2012 2:01:25 PM		Fluid	Pump Start Date	Amount (sacks)	Class	Dens (lb/gal)	Vol Pumped (bbl)	Yield (ft³/sack)
Vertical schematic (actual)		Zones						
16 in; 65.00 lb/ft; H-40; 400.0 ftKB Cmt w/ 500 sx. Circ TOC by TS 10 3/4 in; 40.50 lb/ft; K-55; 2,900.0 ftKB Cmt w/ 1800 sx. Circ w/ 75 sx Sand Frac; 4,300.0-4,800.0 ftKB; 4/13/1993 Acidizing; 4,300.0-4,800.0 ftKB; 4/13/1993 Plug Back Total Depth; 5,765.0 ftKB Cemented Bridge Plug; 7 in; 5,765.0 ftKB CIBP w/ 35' cmt Sand Frac; 6,062.0-6,126.0 ftKB; 12/9/1985 Acidizing; 6,062.0-6,126.0 ftKB; 12/9/1985 Sand Frac; 6,178.0-6,225.0 ftKB; 3/25/1991 Acidizing; 6,178.0-6,225.0 ftKB; 3/25/1991 Cemented Bridge Plug; 7 in; 6,265.0 ftKB CIBP w/ 35' cmt Acidizing; 6,349.0-6,718.0 ftKB; 1/6/1982 CIBP Cast Iron Bridge Plug; 7 in; 7,212.0 ftKB Acidizing; 7,654.0-7,680.0 ftKB; 6/28/1981 CIBP Cast Iron Bridge Plug; 7 in; 8,600.0 ftKB Acidizing; 8,740.0-8,790.0 ftKB; 6/28/1981 Cemented Bridge Plug; 7 in; 10,965.0 ftKB CIBP w/ 35' cmt Top of Liner 7 5/8 in; 33.70 lb/ft; S-95; 11,450.0 ftKB Cmt w/ 1850 sx Acidizing; 11,512.0-11,516.0 ftKB; 4/18/1979 Acidizing; 11,722.0-11,730.0 ftKB; 4/3/1979 Cemented Bridge Plug; 5 in; 12,165.0 ftKB CIBP w/ 35' cmt Acidizing; 12,326.0-12,423.0 ftKB; 2/19/1979 5 1/2 in; 17.93 lb/ft; M-80; 12,900.0 ftKB Cmt w/ 285 sx		DELAW... BRUSH... BRUSH... BONE SPRING, Original Hole BONE... BONE... ATOKA, Original Hole MORR...						
Tubing String: Tubing - Production								
Set Depth (ftKB)		Wellbore		Run Date	Pull Date	Cut Pull Date	Depth Cut Pull (ft...)	
4,245.0		Original Hole						
Tubing String: <Tubing Description?>								
Set Depth (ftKB)		Wellbore		Run Date	Pull Date	Cut Pull Date	Depth Cut Pull (ft...)	
		Original Hole						
Perforations								
Date	Zone	Top (ftKB)	Btm (ftKB)	Shot Dens (shots/ft)	Current Status			
4/13/1993	DELAWARE, Original Hole	4,300.0	4,800.0					
12/9/1985	BRUSHY CANYON LWR, Original Hole	6,062.0	6,126.0	4.0	Squeezed			
3/25/1991	BRUSHY CANYON LWR, Original Hole	6,178.0	6,225.0					
1/6/1982	BONE SPRING, Original Hole	6,349.0	6,382.0	4.0				
1/6/1982	BONE SPRING, Original Hole	6,440.0	6,445.0	4.0				
1/6/1982	BONE SPRING, Original Hole	6,442.0	6,480.0	2.0				
1/6/1982	BONE SPRING, Original Hole	6,492.0	6,520.0	4.0				
1/6/1982	BONE SPRING, Original Hole	6,688.0	6,718.0	2.0				
6/28/1981	BONE SPRING SAND, Original Hole	7,654.0	7,680.0	2.0				
6/28/1981	BONE SPRING LWR, Original Hole	8,740.0	8,790.0	1.0				
4/18/1979	ATOKA, Original Hole	11,512.0	11,516.0	4.0				
4/3/1979	ATOKA, Original Hole	11,722.0	11,730.0	4.0				
2/19/1979	MORROW, Original Hole	12,326.0	12,423.0	4.0				
Stimulations & Treatments								
<Zone/Formation?>, <Stage Number?>, Acidizing, 11/12/2003								
Min Top Dep...	Max Btm De...	Total Clean...	Avg Treat Pr...	Q Treat Avg...	Post ISIP (psi)	Comment		
4,300.0	8,790.0							
<Zone/Formation?>, <Stage Number?>, Acidizing, 11/12/2003								
Min Top Dep...	Max Btm De...	Total Clean...	Avg Treat Pr...	Q Treat Avg...	Post ISIP (psi)	Comment		
11,512.0	12,423.0							
BONE...	Sand Size	Type	Amount	Conc (lb/gal)				
<Zone/Formation?>, <Stage Number?>, Sand Frac, 4/13/1993								
Min Top Dep...	Max Btm De...	Total Clean...	Avg Treat Pr...	Q Treat Avg...	Post ISIP (psi)	Comment		
4,300.0	6,225.0							
Well Notes								
Date	Type 1	Type 2	Com					
2/19/1979	Schematic	Notes	PERF @ 12326-12333 & 12415-12423 w/ 4 jsp. ACDZ w/ 3500 gal 7.5% acid.					
4/3/1979	Schematic	Notes	CIBP @ 12200' w/ 35' cmt. PERF @ 11722-730 w/ 4 jsp. ACDZ w/ 2000 gal 7.5% acid.					
4/18/1979	Schematic	Notes	ACDZ w/ 2000 gal 7.5% acid. PERF @ 11512-516 w/ 4 jsp. ACDZ w/ 3000 gal 7.5% acid.					
6/28/1981	Schematic	Notes	CIBP @ 11000' w/ 35' cmt. PERF @ 8740-90 w/ 1 jsp. ACDZ w/ 5000 gal 15% HCl. CIBP @ 8600'. PERF @ 7654-7680 w/ 2 jsp. ACDZ w/ 10000 gal gld 15% HCl & 12000 gal 30# gld brine and 18000# 100 mesh salt.					
1/6/1982	Schematic	Notes	CIBP @ 7212'. PERF Bone Springs @ 6349-82, 6440-45, 6492-6520 w/ 4 jsp. PERF @ 6442-71, 75-80, 6688-6718 w/ 2 jsp. ACDZ w/ 5000 gal 15% Ne HCL.					
12/9/1985	Schematic	Notes	CIBP @ 6300' w/ 35' cmt. PERF @ 6062-6126 w/ 4 jsp. ACDZ w/ 500 gal 7.5% NeFe. FRAC w/ 7560 gal gld FL w/ 10600# 12/20 Ottawa sd.					

Current Wellbore Schematic

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 FIELD OFFICE: BRG - BRG PETROLEUM
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 STATE / COUNTY: NEW MEXICO / EDDY
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 ELEVATION: GL: 3,009.0 KB: 3,028.0 KB Height: 19.0
 DEPTHS: TD: 12,900.0



API #: 3001522754

Serial #:

SPUD DATE: 12/13/1978

RIG RELEASE: 12/9/1985

FIRST SALES:

Original Hole, 10/19/2012 2:01:25 PM		Well Notes			
Vertical schematic (actual)		Date	Type 1	Type 2	Com
		3/25/1991	Schematic	Notes	PERF @ 6178-6225 w/ 32 holes. ACDZ w/ 2000 gal 7.5% HCl. SQZD perms @ 6062-6126. DO cmt. FRAC 6178-6225 w/ 18700# 20/40 sd & 18000 gal gld wtr.
		4/13/1993	Schematic	Notes	CIBP @ 5800' w/ 35' cmt. PERF @ 4300-4800. ACDZ w/ 5000 gal 15% HCl. FRAC w/ 66000 gal x link w/ 108000# 12/20 sd.
		6/7/2000	Schematic	Notes	ACDZ w/ 2000 gal 15% NeFe.
		8/13/2001	Schematic	Notes	ACDZ w/ 2000 gal 15% NeFe.
		7/15/2003	Schematic	Notes	ACDZ w/ 2000 gal 15% HCl.
	DELA...	11/12/2003	Schematic	Notes	ACDZj w/ 2000 gal 15% HCl.
	BRUSH...				
	BRUSH...				
	BONE SPRING, Original Hole				
	BONE...				
	BONE...				
	ATOKA, Original Hole				
	MORR...				