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

NM OIL CONSERVATION
ARTESIA DISTRICT
MAR 27 2017
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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 July 18, 2013

	WELL API NO. 30-015-43892
	5. Indicate Type of Lease STATE X FEE
	6. State Oil & Gas Lease No.
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.)	7. Lease Name or Unit Agreement Name Gravitas 2 State SWD (316753)
1. Type of Well: Oil Well Gas Well Other **SWD**	8. Well Number 002
2. Name of Operator CHEVRON U.S.A. INC.	9. OGRID Number 4323
3. Address of Operator 6301 Deauville Blvd., MIDLAND, TX 79706	10. Pool name or Wildcat SWD; Devonian – Silurian (97869)
4. Well Location Unit Letter: N 400 feet from the South line and 1560 feet from the West line Section 2 Township 26S Range 27E NMPM County LEA	
	11. Elevation *(Show whether DR, RKB, RT, GR, etc.)*

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

NOTICE OF INTENTION TO:				SUBSEQUENT REPORT OF:			
PERFORM REMEDIAL WORK	☐	PLUG AND ABANDON	☐	REMEDIAL WORK	☐	ALTERING CASING	☐
TEMPORARILY ABANDON	☐	CHANGE PLANS	☐	COMMENCE DRILLING OPNS.	☐	P AND A	☐
PULL OR ALTER CASING	☐	MULTIPLE COMPL	☐	CASING/CEMENT JOB	☐		
DOWNHOLE COMMINGLE	☐						
CLOSED-LOOP SYSTEM	☐						
OTHER:				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 recompletion.

Chevron respectfully requests to make changes to the 8-5/8 production casing and cement slurry on the original permit.

Change the 8-5/8 long string of production casing will be converted to liner and tie-back to surface. Also due to losses, the cement blend will be changed to a 14.5 ppg to help combat losses and get cement to surface. Chevron also requests to update the cement program for the production liner cement slurry.

Please refer to the Production Casing and Cement slurry changed attached.

Please contact Dorian 432.687.7631 or djvo@chevron.com.

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 TITLE: REGULATORY SPECIALIST DATE: 03/20/2017

Type or print name: DORIAN K. FUENTES E-mail address: DJVO@CHEVRON.COM PHONE: 432-687-7631

For State Use Only

APPROVED BY: TITLE Staff Manager DATE 3-29-17

Conditions of Approval (if any):

Delaware Basin
Changes to Permit for Federal Well

Well Names:

Gravitas 2 State SWD 2 **API#: 30-015-43892**

Rig: Patterson 815

CVX CONTACT:

Roderick Milligan
MCBU Drilling Engineer
Chevron North America Exploration and Production Co.
MidContinent Business Unit
Office: (713) 372-2011
Cell: (281) 413-9794
Email: RXMQ@CHEVRON.COM

Summary of Changes to APD Submission

Chevron respectfully request the ability to change the 8-5/8" long string of production casing will be converted to liner and tie-back to surface. Also due to losses, the cement blend will be changed to a 14.5 ppg. to help combat losses and get cement to surface. We would also like to update the cement program for the production liner cement slurry.

Sequencing of Events

Running 8-5/8" Liner Hanger tie-back and cementing

1. Hold Pre-job safety meeting.
2. TOH with 11.8 ppg mud and hold 12.5 ppge back pressure.
    1. TOH to the next casing shoe (9,827') and spot and heavy weighted pill per MI-Swaco procedure.
    2. Rabbit drill pipe while tripping out of the hole.
3. L/D BHA and prep equipment for running casing 8-5/8" 44# TN-110HC TENARIS Wedge 521 production casing.
4. R/U casing crew, torque-turn, and casing running equipment. Function test same.
    1. Use an 8-5/8" 150-ton SLX elevator to pick up a single joint out of the v-door and a 420-ton CRTi in conjunction with 350-ton 10 foot bail extensions as an elevator to lower the string
    2. Operate conventionally with power tongs, a 500-ton spider on the floor, and a casing crew including CRT technicians
5. Run ~4080' 8-5/8" Production casing and pick up Baker "CSFL ZXP 2-RH RS EBS LWP" Liner Hanger
    1. Continue lowering the tieback extension below the rotary table. Set DP slips on the lift nipple of the liner hanger assembly.
    2. Run the assembly into the well on drill pipe at a speed of 2-3 minutes a stand.
    3. **No rotation is allowed while running in hole** (Running Tool releases with RIGHT HAND rotation).
6. Set 8-5/8" Liner Hanger as per Baker Liner Hanger setting procedure
7. Circulate 1-1/2 times casing volume or two bottoms up, whichever is greater.
8. Rig up SLB cementing crew
9. Cement 8-5/8" Baker liner string.
10. Set packer on liner hanger.
11. Circulate out excess cement.
12. Run mill assembly to run polish, polish bore receptacle.
13. Run tie-back assembly on 8-5/8" casing to surface.
14. Cement 8-5/8" production casing.

5. **CEMENTING PROGRAM**

Slurry	Type	Top	Bottom	Weight (ppg)	Yield (sx/cu ft)	Sacks	Water gal/sk
Surface							
Tail	Class C	0'	450'	14.8	1.33	422	6.37
Intermediate							
Stage 2 Lead	50:50 Poz: Class C + Antifoam, Extender, Salt, Retarder	0'	1,100'	11.9	2.43	194	14.21
Stage 2 Tail	Class C + Antifoam, Retarder, Viscosifier	1,100'	2,100'	14.8	1.33	321	6.37
Stage 1 Lead	50:50 Poz: Class C + Extender, Antifoam, Retarder, Salt, Viscosifier	2,100'	6,600'	11.9	2.43	792	13.76
Stage 1 Tail	Class H + Retarder, Extender, Dispersant	6,600'	7,600'	15.6	1.21	353	5.54
Intermediate Liner							
Lead	Class H + Extender, Antifoam, Dispersant, , Retarder	7,300'	9,316'	15.6	1.2	293	5.54
Tail	Class H + Viscosifier, Antifoam, Dispersant, Fluid Loss, Retarder, Expanding Agent	9,316'	9,816'	15.6	1.2	328	5.30
Production							
Tie-back Tail	50:50 Poz: Class H + Extender, Antifoam, Dispersant, , Retarder	500'	9,050'	14.5	1.39	2691	5.97
Liner Top Tail	Class H + Viscosifier, Antifoam, Dispersant, Fluid Loss, Retarder, Expanding Agent	9,050'	13,595'	14.5	1.39	930	5.97
Production Liner							
Tail	TXI	13,595'	13,944'	12.5	1.61	100	21.8

Changes Summary

Summary: Variance to change the 8-5/8" long string of production casing will be converted to liner and tie-back to surface. Also due to losses, the cement blend will be changed to a 14.5 ppg. to help combat losses and get cement to surface. We would also like to update the cement program for the production liner cement slurry.