

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

Form C-103
Revised July 18, 2013

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

WELL API NO. 30-025-30851
5. Indicate Type of Lease STATE ☒ FEE ☐
6. State Oil & Gas Lease No.
7. Lease Name or Unit Agreement Name VACUUM GRAYBURG SAN ANDRES UNIT
8. Well Number 156
9. OGRID Number 4323
10. Pool name or Wildcat VACUUM GRAYBURG SAN ANDRES
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3,997'

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 ☐

2. Name of Operator
CHEVRON U.S.A. INC.

3. Address of Operator
6301 DEAUVILLE BLVD, MIDLAND, TX 79706

4. Well Location
Unit Letter E : 1980 feet from the NORTH line and 660 feet from the WEST line
Section 1 Township 18-S Range 34-E NMPM County LEA

11. Elevation (Show whether DR, RKB, RT, GR, etc.)
3,997'

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

NOTICE OF INTENTION TO:	SUBSEQUENT REPORT OF:
PERFORM REMEDIAL WORK ☐	REMEDIAL WORK ☐
TEMPORARILY ABANDON ☐	ALTERING CASING ☐
PULL OR ALTER CASING ☐	COMMENCE DRILLING OPNS. ☐
DOWNHOLE COMMINGLE ☐	CASING/CEMENT JOB ☐
CLOSED-LOOP SYSTEM ☐	OTHER: HYDRAULIC FRACTURE TREATMENT ☒
OTHER: HYDRAULIC FRACTURE TREATMENT ☐	

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.

Workover Summary 3/2/18-5/2/18

MIRU.
Pull ESP.
Dump sand plug, tag at 4553'.
Run frac string and packer to 4190'.
RDMO.
Perform hydraulic fracture stimulation in the Grayburg/San Andres from 4226-4553'.
MIRU, pull frac string and packer.
Cleanout well to PBTD at 4900'.
Run production tubing and packer to 4168' and RTP.

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 Michael Stewart TITLE Production Engineer DATE 5/10/18

Type or print name Michael Stewart E-mail address: michael.stewart@chevron.com PHONE: 432-687-7431

For State Use Only

APPROVED BY: Petroleum Engineer TITLE Petroleum Engineer DATE 05/18/18
Conditions of Approval (if any):

Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	3/14/2018
Job End Date:	3/14/2018
State:	New Mexico
County:	Lea
API Number:	30-025-30851-00-00
Operator Name:	Chevron USA Inc.
Well Name and Number:	Vacuum Grayburg SA Unit 156
Latitude:	32.78217000
Longitude:	-103.51774000
Datum:	NAD27
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	5,000
Total Base Water Volume (gal):	78,421
Total Base Non Water Volume:	8,687



Hydraulic Fracturing Fluid Composition:

Trade Name	Supplier	Purpose	Ingredients	Chemical Abstract Service Number (CAS #)	Maximum Ingredient Concentration in Additive (% by mass)**	Maximum Ingredient Concentration in HF Fluid (% by mass)**	Comments
Water	Operator	Base Carrier Fluid	Water	7732-18-5	100.00000	82.53873	
Sand	Multiple Suppliers	Proppants	Silicon Dioxide	14808-60-7	100.00000	9.47762	
SLC, SDC, TLC, THS, PowerProp, OptiProp, SpearProp, CoolSet	Santrol Proppants	Proppants	Crystalline Silica(Quartz)	14808-60-7	98.00000	3.35162	
			Phenol-formaldehyde Novolak Resin	9003-35-4	5.00000	0.17100	
15% Hydrochloric Acid	Reagent	Scale Dissolver	Water	7732-18-5	85.00000	2.88492	
			36% Hydrochloric Acid	7647-01-0	15.00000	0.50910	
SG-15G	ACE Completions	Gelling Agents	Petroleum Distillate	64742-47-8	60.00000	0.40651	
			Guar Gum	9000-30-0	50.00000	0.33876	
			Bentonite Clay	Proprietary	10.00000	0.06775	CAS # is Proprietary
			Surfactant	Proprietary	10.00000	0.06775	CAS # Proprietary
BF-200	Ace Completions	Buffers / Ph Control					

			Water	7732-18-5	80.00000	0.07325	% is unlisted
			Potassium Hydroxide	1310-58-3	35.00000	0.03205	
MCS-376	Ace Completions	Surfactants					
			Water	7732-18-5	75.00000	0.05605	
			Proprietary	Proprietary	15.00000	0.01121	Proprietary Data
			Ethylene oxide/propylene Oxide co-polymer	9003-11-6	10.00000	0.00747	
			Coconut diethanolamide	88603-42-9	8.00000	0.00598	
			Isotridecanol, ethoxylated	9043-30-5	5.00000	0.00374	
			Poly(oxy-01,2-ethanediyl), alpha hexyl-omega-hydroxy-	31726-34-8	5.00000	0.00374	
			Alcohol	88609-68-7	5.00000	0.00374	
			Solvent Naptha(Petroleum), Heavy	64742-94-5	1.00000	0.00075	
			Diethanolamine	111-42-2	1.00000	0.00075	
Superset W	Santrol	Resin Activator					
			Poly(oxyethylene)nonylphenol ether	9016-45-9	54.00000	0.03051	
			Methanol	67-56-1	50.00000	0.02825	
SI-625	Ace Completions	Scale Inhibitors					
			Water	7732-18-5	90.00000	0.04272	
			Diethylenetriamine penta methyphosphoric acid sodium salts	22042-96-2	20.00000	0.00949	
			Potassium hydroxide solution	1310-58-3	2.00000	0.00095	
GB-150	Chemplex/Solvay	Gel Breakers/Delayed Breakers					
			Water	7732-18-5	90.00000	0.03960	Proprietary Not Listed on SDS
			Sodium Chloride	7647-14-5	15.00000	0.00660	Proprietary Not Listed on SDS
			Ethylene Glycol	107-21-1	5.00000	0.00220	Proprietary Not Listed on SDS
			Mannanase Enzymes	37288-54-3	1.00000	0.00044	Proprietary Not Listed on SDS
CX-14G	Magnablend	Crosslinkers					
			Ulexite	1319-33-1	50.00000	0.01658	
			Petroleum Distillates, hydrotreated light	64742-47-8	40.00000	0.01326	
B-15	Multiple Suppliers	Iron Controller / Reducers					
			Water	7732-18-5	80.00000	0.02111	
			Tetrakis (hydroxymethyl) phosphonium sulfate	55566-30-8	20.00000	0.00528	
FE-4	Finoric LLC	Iron Controller / Reducers					
			Citric Acid Annhydrous	77-92-9	52.00000	0.01266	
			Water	7732-18-5	52.00000	0.01266	
GB-2	Multiple Suppliers	Gel Breakers/Delayed Breakers					
			Ammonium Persulfate	7727-54-0	100.00000	0.01843	
CX-10	Rockwater Energy Solutions	Crosslinkers					
			Proprietary Inorganic Borates	Proprietary	10.00000	0.00657	Components and CAS # are proprietary

I-112	Chemplex/Solvay	Acid Corrosion Inhibitors					
			Methanol	67-56-1	100.00000	0.00524	
			Alcohols, C14-C15, ethoxylated	68951-67-7	7.00000	0.00037	
			Fatty Acids, tall oil	61790-12-3	7.00000	0.00037	
			Propargyl Alcohol	107-19-7	5.00000	0.00026	
			Olefin	Trade Secret	5.00000	0.00026	CAS # is Proprietary
FR-620	SNF	Friction Reducers					
			Water	7732-18-5	35.00000	0.00122	Not Listed on SDS
			Poly(Acrylamide and Adam Methyl Chloride)	69418-26-4	31.00000	0.00108	Not Listed on SDS
			Distillates(petroleum), Hydrotreated light	64742-47-8	30.00000	0.00104	
			Alcohols, C11-14-iso-, C13-rich, ethoxylated	78330-21-9	5.00000	0.00017	
			Sorbitan Monooleate	1338-43-8	3.00000	0.00010	Not Listed on SDS
FR-630	SNF Inc.	Friction Reducers					
			Water	7732-18-5	48.00000	0.00053	
			2-Propenoic acid polymer with acrylamide, sodium salt	25987-30-8	30.00000	0.00033	
			Distillates(petroleum), hydrotreated light	64742-47-8	30.00000	0.00033	
			Buffering agents	Proprietary	22.00000	0.00024	
			Alcohols, C11-14-iso-,C13-rich, ethoxylated	78330-21-9	5.00000	0.00006	
			Proprietary surfactant package	Proprietary	5.00000	0.00006	
			Poly(oxy-1,2-ethanediyl), a-tridecyl-w-hydroxy-, branched	69011-36-5	3.00000	0.00003	
			Acrylamide(as residual)	79-06-1	0.10000	0.00000	

Ingredients shown above are subject to 29 CFR 1910.1200(i) and appear on Material Safety Data Sheets (MSDS). Ingredients shown below are Non-MSDS.

* Total Water Volume sources may include fresh water, produced water, and/or recycled water

** Information is based on the maximum potential for concentration and thus the total may be over 100%

Note: For Field Development Products (products that begin with FDP), MSDS level only information has been provided.

Ingredient information for chemicals subject to 29 CFR 1910.1200(i) and Appendix D are obtained from suppliers Material Safety Data Sheets (MSDS)

[illegible]

Hydraulic Fracturing Fluid Composition:						Slurry Amount (bbbls) 2874	Total Slurry Amount (Gal) 87,128			Total Slurry Mass (Lbs) 782,613	Total Slurry Mass (Lbs) 791,288		
Trade Name	Supplier	Purpose	Ingredients	Chemical Abstract Service Number (CAS #)	Maximum Ingredient Concentration in Additive (% by mass)**	Materials	Stage 1	Total for Well	Specific Gravity	Volume per Component (Gallons)	Mass per Component (LBS)	Mass (LBS)	Maximum Ingredient Concentration in HF Fluid (% by mass)**
Water		Carrier / Base Fluid		7732-18-5	100.00%	Water	1,964	1,964	1.00	78,418	653,203	653,203	62.5574%
Sand	Multiple Suppliers	Proppant	Silicon Dioxide	14808-60-7	100.00%	Sand (LBS)	76,109	75,100	2.65	3,402	75,100	75,100	9.49182%
Super DC/LC TLC/THS	Santrol	Proppant	Silicon Dioxide	14808-60-7	97.00%	Super DC/LC TLC/THS Opti	27,100	27,100	2.60	1,251	26,287	27,100	3.32236%
			P/F Novolak Resin	9003-35-4	5.00%			0			1,355		0.17126%
			Hexamethylenetetramine	1009-7-0	1.00%			0			0		0.03425%
B-15	Multiple Suppliers	Biocide/Iron Controller	Tetrakis (hydroxymethyl) phosphonium sulfate	55566-30-8	20.00%	B-15	23	23	1.09	23	42	209	0.00528%
			Water	7732-18-5	80.00%			0			0		0.02112%
BF-200	Multiple Suppliers	Buffer	Potassium Hydroxide	1310-58-3	25.00%	BF-200	75	75	1.16	75	184	738	0.02331%
			Water	7732-18-5	80.00%			0			590		0.07480%
FR-620	SNF	Friction Reducer	Polyacrylamide derivatives		35.00%	FR-620	3	3	1.04	3	26	26	0.00115%
			Petroleum Distillate	64742-47-8	30.00%			0			26		0.00099%
15% Hydrochloric Acid	Reagent	Scale Dissolver	37% Hydrochloric Acid	7647-01-0	15.00%	15% Hydrochloric Acid	3,000	3,000	1.0749	3,000	4,029	26,862	0.50625%
			Water	7732-18-5	85.00%			0			22,832		2.88578%
I-112	Chemplex L.C.	Acid Corrosion Inhibitor	Methanol	67-56-1	50.00%	I-112	8	8	0.83	8	21	41	0.00262%
			Propargyl Alcohol	107-19-7	4.00%			0			2		0.00021%
SG-15G	Various Suppliers	Polymer	Guar Gum	9000-30-0	50.00%	SG-15G	616	616	1.12	616	2,874	5,747	0.36318%
			Petroleum Distillate(Mineral Oil)	64742-47-8	55.00%			0			3,161		0.39950%
			Bentonite Clay	14808-60-7	2.00%			0			0		0.01453%
			Surfactant	68439-51-0	2.00%			0			0		0.01453%
CX-10	Multiple Suppliers	Crosslinker	Sodium Borate Decahydrate	1303-66-4	29.95%	CX-10	52	52	1.1	52	142	476	0.01801%
			Water	7732-18-5	68.10%			0			329		0.04161%
CX-14G	Multiple Suppliers	Crosslinker	Petroleum Distillates		100.00%	CX-14G	30	30	1.05	30	262		0.03316%
			Organic alcohol	Proprietary	100.00%			0			262		0.03316%
GB-2	Multiple Suppliers	Breaker	Ammonium Persulfate	7727-54-0	100.00%	GB-2	146	146	1.98	9	146	146	0.01845%
FE-4	Multiple Suppliers	Iron Control Additive	Citric Acid Anhydrous	77-92-9	55.00%	FE-4	15	15	1.1833	15	81	148	0.01028%
			Water	7732-18-5	55.00%			0			81		0.01028%
SI-625	Multiple Suppliers	Scale Inhibitor	Methanol	67-56-1	19.90%	SI-625	41	41	1.035	41	70	353	0.00869%
Superset W	Santrol	Resin Activator	Methanol	67-56-1	50.00%	Superset W	59	59	0.91	59	224	447	0.02826%
			Poly(oxethylene)nonphenol ether	9016-45-9	54.00%			0			0		0.03052%