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District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy Minerals and Natural Resources
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-101
Revised November 14, 2012

HOBBS OCD
MAY 29 2018
RECEIVED

☐ AMENDED REPORT

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE

¹ Operator Name and Address ConocoPhillips Company P. O. Box 51810 Midland, TX 79710		² OGRID Number 217817
		³ API Number 025-42115
⁴ Property Code 71172	⁵ Property Name EAST VACUUM GB-SA UNIT	⁶ Well No. 519

7. Surface Location

UL - Lot M	Section 33	Township 17S	Range 35E	Lot Idn	Feet from 1039	N/S Line SOUTH	Feet From 819	E/W Line WEST	County LEA
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8. Proposed Bottom Hole Location

UL - Lot M	Section 3	Township 1	Range 3	Lot Idn	Feet from 1039	N/S Line SOUTH	Feet From 923	E/W Line WEST	County LEA
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9. Pool Information

Pool Name VACUUM; GB-SA	Pool Code 62180
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Additional Well Information

¹¹ Work Type ADD PAY	¹² Well Type OIL	¹³ Cable/Rotary	¹⁴ Lease Type STATE	¹⁵ Ground Level Elevation 3953'
¹⁶ Multiple N	¹⁷ Proposed Depth 5241'	¹⁸ Formation GB-SA	¹⁹ Contractor	²⁰ Spud Date 09/25/2017
Depth to Ground water		Distance from nearest fresh water well		Distance to nearest surface water

21. Proposed Casing and Cement Program

Type	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
SURF	13 1/2"	9 5/8"	36#	1544'	1246 SX	SURF
PROD	8 3/4"	7"	23#	5226'	852 SX	SURF

Casing/Cement Program: Additional Comments

THIS IS TO ADD PAY TO THE GB-SA @ 4774'-4934' PER ATTACHED PROCEDURES

22. Proposed Blowout Prevention Program

Type	Working Pressure	Test Pressure	Manufacturer
DOUBLE RAM	3000	3	S

²³ I hereby certify that the information given above is true and complete to the best of my knowledge and belief. I further certify that I have complied with 19.15.14.9 (A) NMAC <input checked="" type="checkbox"/> and/or 19.15.14.9 (B) NMAC <input checked="" type="checkbox"/> , if applicable. Signature: <i>Rhonda Rogers</i> Printed name: Rhonda Rogers Title: Staff Regulatory Technician E-mail Address: rogersr@conocophillips.com Date: 05/23/2018 Phone: (432)688-9174	OIL CONSERVATION DIVISION	
	Approved By: <i>Mary S Brown</i>	
	Title: <i>ALO II</i>	
	Approved Date: <i>6-6-18</i>	Expiration Date: <i>6-6-20</i>
	Conditions of Approval Attached	

Project Scope**Background and Justification:**

EVGSAU 3332-519 is a new drill well that is currently producing out of the lower TZROZ only. This project will add perforations in the upper TZROZ. This project is in scope of the original new drill plan.

Table 3: Downhole Configuration

Type	Top	Bottom
Cased Hole (unperforated)	17'	5,226'
PBTD (float collar)		5,200'
TD		5,241'

Well Service Procedure:**Before rigging up conduct safety meeting & review JSA**

1. MIRU well service unit.
2. ND GT6 wellhead. NU BOPE. Well Control is Class 2, Category 1.
3. MIRU spoolers for cable and capillary string.
4. POOH with ESP. Send ESP to Schlumberger for testing.
5. RIH with bit/scrapper for 7" 23# casing. Tag for fill. PBTD recorded as 5241'. Record depth of fill, if any.
6. POOH with bit/scrapper.
7. NU full-bore frac valve to 7-1/16" 5M flange. NU 5000 psi lubricator.
8. RU Renegade Injection Survey and water transport(s) as necessary. Run Injection Survey Report on current perforations, 4902'-4934' and 4774'-4812'. Purpose is to get an idea of what perforations are taking(producing) fluid.
9. RD Renegade when complete.
10. MIRU wireline company. Spot unit, crane, and equipment.
11. RIH with RBP. Set RBP at 4770'.
12. Load and pressure test casing to 4876 psi.
13. PU & RIH w/guns to perforate first stage using 2" Titan Slick Gun w/ RTG-2104-421T charges for .21" diameter perf holes. Dress gun for 1 shot per 3 feet. Utilize magnets to keep gun on casing wall. Conduct any repeat gun runs as necessary to perforate as follows:
 - Note: Correlate w/gamma ray from Schlumberger Spectral GR-CCL log dated 10/5/2017.
 - Perforate from 4,710'-4,764' (54' net, 1 shot per 3 feet. Total of 18 perforations)
14. Pull fired guns into lubricator, bleed lubricator, & remove spent guns. Verify all shots fired. Record in WellView.
15. RU acid services to break down perfs with 15% NEFE HCL. Minimum of 8,500 gals of acid will be required for job as well as a frac tank with 20,000 gals of biocide treated fresh water. Staging will be as follows:

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Add Pay

Stage	Net Pay (ft)	Total Perfs	Acid Volume (bbls)	Flush Volume (bbls)
1	54	18	96	25
Acid Pill			10	135
2	54	18	96	175
Total	109	36	202	335

16. Pump 1st acid stage. Establish rate into perfs. Start acid stage pumping 96 bbls (4032 gals) acid. Maximum allowed surface pressure will be 4876 psi. Attempt to pump up to 10 bbls/min rate.
17. Flush with 25 bbls fresh water.
18. Pump acid pill of 10 bbls (420 gals) and flush with 135 bbls fresh water to spot acid on next stage of perfs. Shut down.
19. RIH and set RBP at 4705'.
20. Pressure test casing to 4876 psi.
21. PU & RIH w/guns to perforate first stage using 2" Titan Slick Gun w/ RTG-2104-421T charges for .21" diameter perf holes. Dress gun for 1 shot per 3 feet. Utilize magnets to keep gun on casing wall. Conduct any repeat gun runs as necessary to perforate as follows:
 - Note: Correlate w/gamma ray from Schlumberger Spectral GR-CCL log dated 10/5/2017.
 - Perforate from 4,646'-4,700' (54' net, 1 shot per 3 feet. Total of 18 perforations)
22. Pull fired guns into lubricator, bleed lubricator, & remove spent guns. Verify all shots fired. Record in WellView.
23. Pump 2nd acid stage. Establish rate into perfs. Pump 2nd acid stage of 96 bbls (4032 gals) acid. Maximum allowed surface pressure will be 4876 psi. Attempt to pump 10 bbls/min rate.
24. Flush with 175 bbls fresh water. Shut down.
25. Record treating pressure, rate, diverter action if any, ISIP & pressures at 5 min, 10 min, and 15 min.
26. RDMO acid services and wireline.
27. RIH and retrieve RBP at 4710'.
28. POOH & LD RBP & stand back tubing.
29. RIH and retrieve RBP at 4770'.
30. POOH & LD RBP & stand back tubing.
31. RU cable and CT spoolers. PU & RIH w/ Schlumberger D1750N/MGH ESP assembly, cables, and 2-7/8" production tubing.
 - The ESP will be installed with a pressure discharge line running from the sensor to above the top pump.
 - The CT line should be terminated at or below the sensor.
 - Position bottom of the ESP assembly @ ~4,725' (See attached WellView schematic).

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Add Pay

32. Have SLB tech measure cable to length, splice, and install lower pigtail into hanger.
33. Land tubing in hanger. NDBOP, NUWH, connect upper pigtail.
34. If power is available, energize motor to observe pump action and ensure well pumps up before RD. Startup @ 45
hz unless otherwise instructed. Adjust pump speed per downhole conditions.
35. RDMO, clean location.

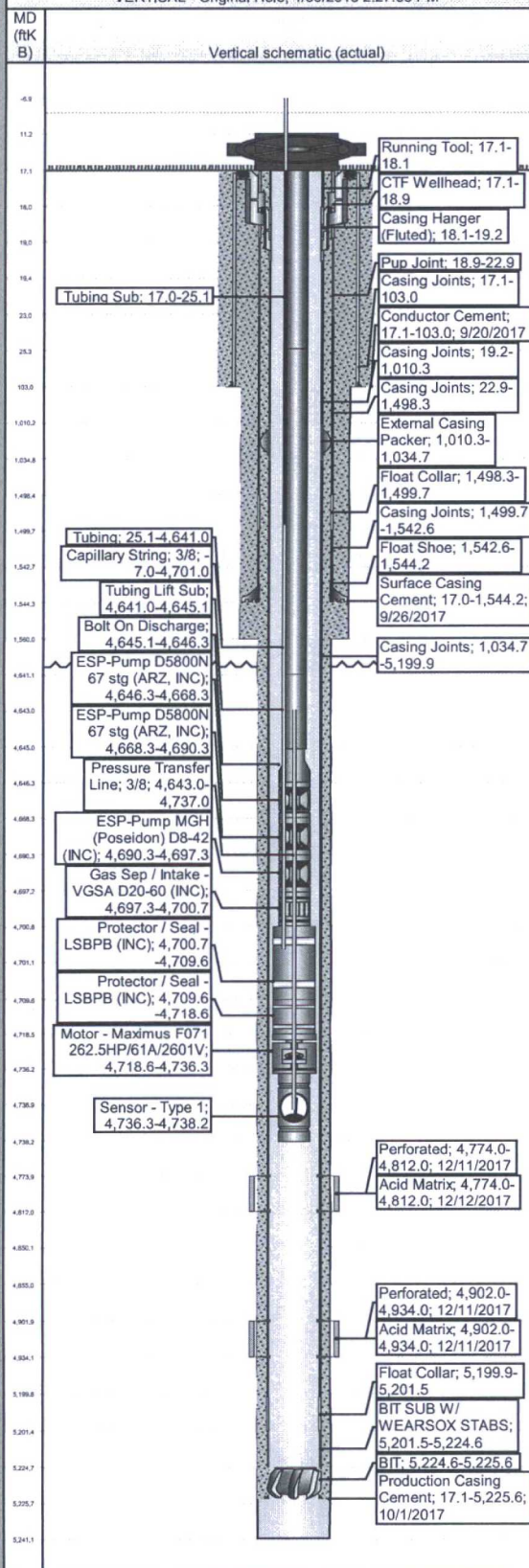


CURRENT DOWNHOLE WELL PROFILE REPORT-Tubing Job

Well Name: EAST VACUUM GBSA UNIT 3332-519

API / UWI	Surface Legal Location	Field Name	License No.	State/Province	Well Configuration Type
3002542115	033-017S-035E	VACUUM		NEW MEXICO	VERTICAL
Ground Elevation (ft)	Original KB/RT Elevation (ft)	KB-Ground Distance (ft)	KB-Casing Flange Distance (ft)	KB-Tubing Hanger Distance (ft)	
3,953.00	3,970.00	17.00	17.00		

VERTICAL - Original Hole, 4/30/2018 2:27:03 PM



Other Strings

Pressure Discharge Line set at 4,737.0ftKB on 1/5/2018 07:15

String Description		Run Date		Set Depth (ftKB)		Pull Date		Pull Reason	
Pressure Discharge Line		1/5/2018		4,737.0					
Item Des	Jts	OD (in)	ID (in)	Wt (lb/ft)	Grade	Top Thread	Len (ft)	Model	
Pressure Transfer Line	1	3/8			316 SS		94.00		

Other In Hole

Des	Run Date	Pull Date	Top (ftKB)	Btm (ftKB)	OD (in)	ID (in)
Bridge Plug - Temporary	12/11/2017	1/3/2018	4,850.0	4,855.0	5 1/2	

Rod Strings

<des> on <dtmrun>

Rod Description		Run Date		Set Depth (ftKB)		String Length (ft)	
Item Des	Jts	Make	Model	OD (in)	Wt (lb/ft)	API Grade	Len (ft)

Perforations

Date	Top (ftKB)	Btm (ftKB)	Zone
12/11/2017	4,774.0	4,812.0	
12/11/2017	4,902.0	4,934.0	

Stimulations & Treatments

Acid Matrix on <dtm>

Job			Type	Zone		Proppant Frm (lb)
INITIAL COMPLETION, 1/2/2018 10:00			Acid Matrix			
Stage Type	Start Date	End Date	Top (ftKB)	Btm (ftKB)	Com	
Acidization	12/11/2017		4,902.0	4,934.0		
Acidization	12/12/2017		4,774.0	4,812.0		

Pumping Units

API Des	Gear Ratio	Other Info
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Pumping Prime Movers

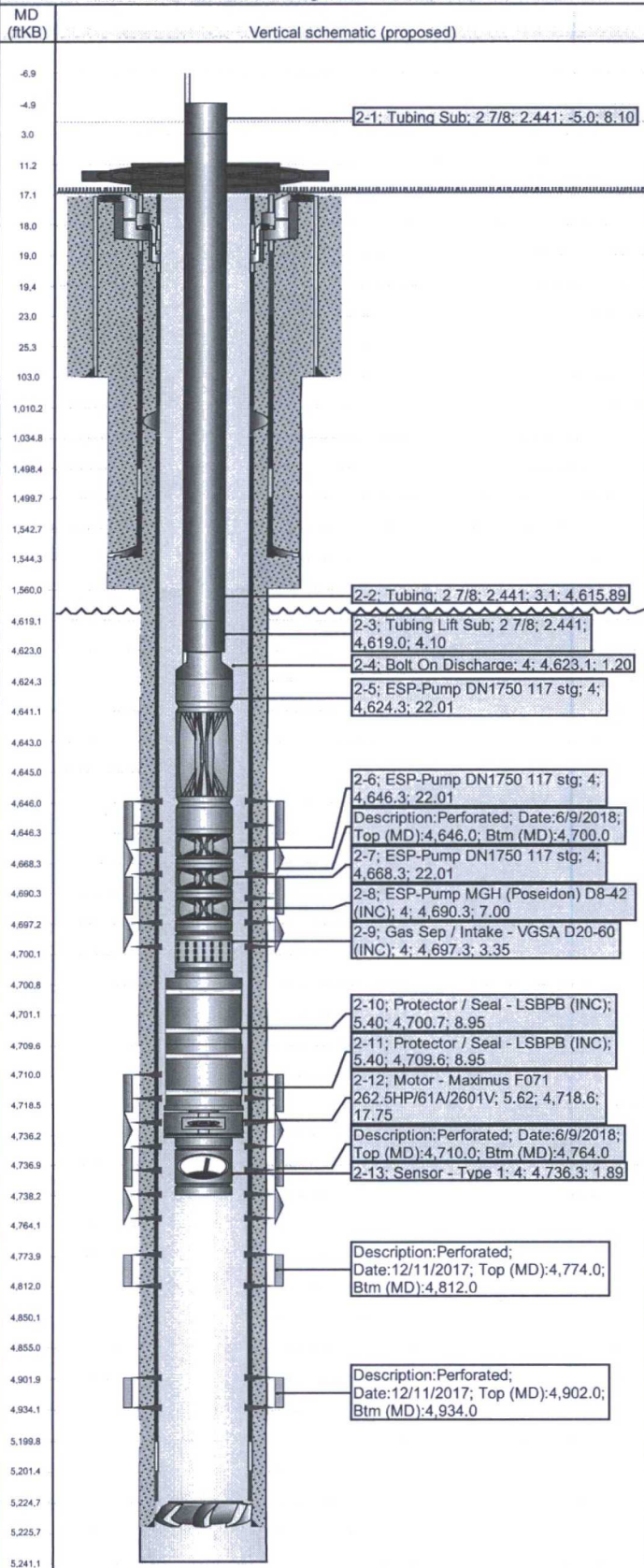
Model	Pwr (hp)
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Rod Pump Details

Cur Strk Len (in)	SPM	Pitman Posn	Rot Dir
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Proposed Rod and Tubing Configuration EAST VACUUM GBSA UNIT 3332-519

VERTICAL - Original Hole, 6/9/2018



Item Des	Jts	OD Nominal (in)	Wt (lb/ft)	Grade	Len (ft)	Btm (ftKB)
Sensor - Type 1	1	4			1.89	4,738.2