

District I
1625 N French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
District II
811 S. 1st St., Artesia, 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-101
Revised August 1, 2011

Energy Minerals and Natural Resources

HOBBS OCD Oil Conservation Division

1220 South St. Francis Dr.

Santa Fe, NM 87505

FEB 13 2012

Permit

RECEIVED

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

¹ Operator Name and Address ConocoPhillips Company 3300 N "A" St Midland, TX 79705		² OGRID Number 217817
		³ API Number 025-20793
⁴ Property Code 31257	⁵ Property Name Vacuum Glorieta East Unit, Tract 16	⁶ Well No. 01

7 Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet from	N/S Line	Feet From	E/W Line	County
D	5	18S	35E		330'	North	660'	West	Lea

8 Pool Information

Vacuum; Graybure-San Andres (62180)	<i>Ka</i>
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Additional Well Information

⁹ Work Type Recomplete	¹⁰ Well Type Oil	¹¹ Cable/Rotary Rotary	¹² Lease Type S	¹³ Ground Level Elevation 3964' GL
¹⁴ Multiple No	¹⁵ Proposed Depth 6300'	¹⁶ Formation Graybur/San Andres	¹⁷ Contractor	¹⁸ Spud Date 07/06/1964
Depth to Ground water 60'		Distance from nearest fresh water well		Distance to nearest surface water

19 Proposed Casing and Cement Program

Type	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
	12 1/4"	8 5/8	24#	1595'	unknown	
	7 7/8"	4 1/2"	10.5#	6250'	unknown	

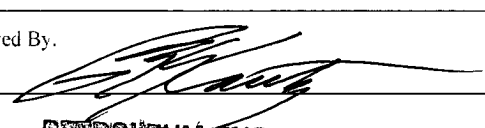
Casing/Cement Program: Additional Comments

Proposed to plug back the Glorieta w/CIBP set @ 6050' 62' above perf and pump 9 sx (1.50 bbls) Class C cmt on top of CIBP. Attached is procedure to recomplete.

Proposed Blowout Prevention Program

Type	Working Pressure	Test Pressure	Manufacturer

**Permit Expires 2 Years From Approval
Date Unless Drilling Underway
plugback**

I hereby certify that the information given above is true and complete to the best of my knowledge and belief. I further certify that the drilling pit will be constructed according to NMOCD guidelines <input type="checkbox"/> , a general permit <input type="checkbox"/> , or an (attached) alternative OCD-approved plan <input checked="" type="checkbox"/> .		OIL CONSERVATION DIVISION	
Printed name. Rhonda Rogers		Approved By. 	
Title. Staff Regulatory Technician		Title: PETROLEUM ENGINEER	
E-mail Address. rogers@conocophillips.com		Approved Date: Expiration Date:	
Date: 02/09/2012 Phone: (432)688-9174		FEB 16 2012	
		Conditions of Approval Attached	

FEB 16 2012

PROCEDURE

FEB 13 2012

1. Test anchors as required. MI & RU WSU. ND WH, NU BOP. COOH w/ tubing.

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	top	bottom	Note
<u>Casing Detail</u>			
8 5/8" 24# J-55	surface	1595	Cmt w/ 870 sx, circ to surface
4 1/2" 10.5# / 9.5# J-55	surface	428	Cmt w/ 950 sx
	428	6250	
<u>Tubing Detail</u>			
2 3/8" 4.6# J-55	surface	327	
<u>Perforation Detail</u>			
Section 1	6112	6132	

2. PU 3 7/8" bit, 4 1/2" scraper and 2 3/8" workstring and cleanout to 6100'. RIH w/ CIBP and set @ 6050'. Load and pressure test casing to 500 psi for 30 minutes. Load hole with 95bbbls of fresh water (surface – 5947'). Cap CIBP @ 6047' w/ 9 sx (1.59 bbl) Class C cmt (100' cement cap). Pull EOT to 5600' (TOC: 5947'). SD minimum 4 hr. RIH and tag cmt. COOH.
Capacity of 4 1/2" 10.5# - .0159 bbl/ft, .0896 sx/ft -
3. RU wireline unit and lubricator. Test lubricator to 3000#. RIH with CIBP. Set CIBP @ 4750'. COOH.

Hold safety meeting before perforating. All cell phones and stray charges should be off

4. RIH with CCL/GR and make a perforating depth control log run from +-4700 to +-4300. Correlate w/ Neutron/GR log dated 7/27/1964 attached below. Perforate using SLB 2 7/8" HSD PowerJet Omega 2906 HMX 16.0gm, EHD 0.34" gun w/ spiral phasing. RD Lubricator and wireline.

Formation	Top	Bottom	Thickness (ft)	SPF	TTL Shots
San Andres	4364	4372	8	2	16
San Andres	4382	4430	48	2	96
San Andres	4440	4468	28	2	56
San Andres	4478	4530	52	2	104
San Andres	4555	4585	30	2	60
San Andres	4595	4607	44	2	88
San Andres	4617	4630	13	2	26
San Andres	4640	4653	13	2	26
TOTAL			236		472

5. PU & RIH w/ 2-3/8", 4.7#, J-55 work string w/ PKR & RBP. Test tbg below slips @ 4500# while RIH (2-3/8", 4.7#, J-55 Internal Yield Prs: 7700#).

Acidize perforated intervals w/ total of 281 bbl (11802 gal) 15% NE Fe HCl:

HOBBS.OCD

Perforated Interval 4617-4653: Acidize w/ 31 bbl 15% NEFE HCl

Set RBP @ 4675 (below lowermost perforation @ 4653).

Pull EOT to 4653. Pump 10 bbl 15% NEFE HCl. SD & allow well to equalize.

Set PKR 4612 (between perforations: 4607-4617)

Pump remaining 21 bbl 15% NEFE HCl. Flush w/ 20 bbl fresh water.

(Anticipated treating prs: 3000# @ 3 BPM)

Record ISIP, SITP(5 min), SITP(10 min) & SITP(15 min)

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Perforated Interval 4555-4607: Acidize w/ 88 bbl 15% NEFE HCl

Set RBP @ 4612 (between perforations: 4607-4617).

Pull EOT to 4607. Pump 10 bbl 15% NEFE HCl. SD & allow well to equalize.

Set PKR @ 4545 (between perforations: 4530-4555).

Pump remaining 78 bbl 15% NEFE HCl. Flush w/ 20 bbl fresh water.

(Anticipated treating prs: 3000# @ 3 BPM)

Record ISIP, SITP(5 min), SITP(10 min) & SITP(15 min).

Perforated Interval 4440-4530: Acidize w/ 95 bbl 15% NEFE HCl

Set RBP @ 4545 (between perforations: 4335-4350).

Pull EOT to 4530. Pump 10 bbl 15% NEFE HCl. SD & allow well to equalize.

Set PKR @ 4435 (between perforations: 4430-4440).

Pump remaining 85 bbl 15% NEFE HCl. Flush w/ 20 bbl fresh water.

(Anticipated treating prs: 3000# @ 3 BPM)

Record ISIP, SITP(5 min), SITP(10 min) & SITP(15 min).

Perforated Interval 4364-4430: Acidize w/ 67 bbl 15% NEFE HCl

Set RBP @ 4435 (between perforations: 4335-4350).

Pull EOT to 4430. Pump 10 bbl 15% NEFE HCl. SD & allow well to equalize.

Set PKR @ 4435 (between perforations: 4430-4440).

Pump remaining 85 bbl 15% NEFE HCl. Flush w/ 20 bbl fresh water.

(Anticipated treating prs: 3000# @ 3 BPM)

Record ISIP, SITP(5 min), SITP(10 min) & SITP(15 min)

POOH w/ tbg, PKR & RBP.

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State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office
FEB 13 2012 ☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-025-20793		² Pool Code 62180	³ Pool Name Vacuum; Grayburg-San Andres
⁴ Property Code 31257	⁵ Property Name Vacuum Glorieta East Unit, Tract 16		⁶ Well Number 01
⁷ OGRID No. 217817	⁸ Operator Name ConocoPhillips Company		⁹ Elevation 3964' GL

¹⁰ Surface Location

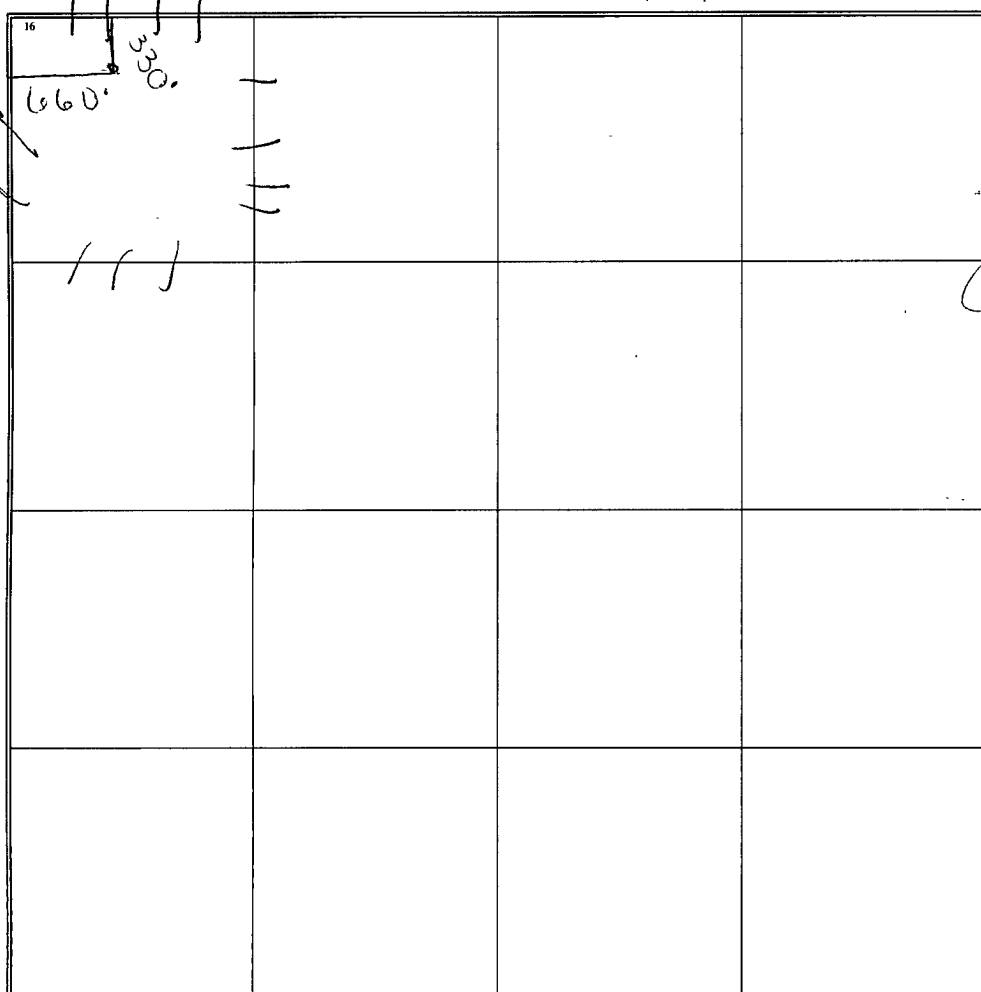
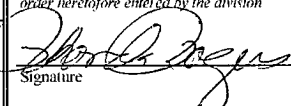
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	5	18S	35E		330'	North	660'	West	Lea

¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County

¹² Dedicated Acres 40	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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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.

	¹⁷ OPERATOR CERTIFICATION <i>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or undivided mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division</i>  Signature 02/09/2012 Date Rhonda Rogers Printed Name rogerrs@conocophillips.com E-mail Address
	¹⁸ SURVEYOR CERTIFICATION <i>I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief</i>
	Date of Survey Signature and Seal of Professional Surveyor: Certificate Number