

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

RECEIVED

AUG 30 2010

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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-101
May 27, 2004

Submit to appropriate District Office

☐ AMENDED REPORT

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

¹ Operator Name and Address ConocoPhillips Company 3300 N. "A" St., Bldg. 6 Midland, TX 79705		² GRID Number 217817
³ Property Code 31156		⁴ API Number 30-025-03003
⁵ Property Name Vacuum Abo Unit, Tract #6		⁶ Well No. 61
⁹ Proposed Pool 1 Vacuum; Grayburg-San Andres		¹⁰ Proposed Pool 2

⁷ Surface Location

UL or lot no. G	Section 34	Township 17S	Range 35E	Lot Idn	Feet from the 2080	North/South line NORTH	Feet from the 2080	East/Westline EAST	County LEA
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⁸ Proposed 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/Westline	County
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Additional Well Information

¹¹ Work Type Code P	¹² Well Type Code O	¹³ Cable/Rotary R	¹⁴ Lease Type Code S	¹⁵ Ground Level Elevation 3925' GR
¹⁶ Multiple N	¹⁷ Proposed Depth 9100'	¹⁸ Formation Grayburg-San Andre	¹⁹ Contractor	²⁰ Spud Date / /2010
Depth to Groundwater		Distance from nearest fresh water well		Distance from nearest surface water
Pit: Liner: Synthetic <input type="checkbox"/> milst thick Clay <input type="checkbox"/> Pit Volume: bbls Drilling Method: Fresh Water <input type="checkbox"/> Brine <input type="checkbox"/> Diesel/Oil-based <input type="checkbox"/> Gas/Air <input type="checkbox"/>				
Closed-Loop System <input type="checkbox"/>				

²¹ Proposed Casing and Cement Program

Hole Size	Casing Size	Casing weight/foot	Setting Depth	Sacks of Cement	Estimated TOC
17"	13-3/8"	48#	334'	190	surface
11"	8-5/8"	24#	3250'	250	surface
7-7/8"	4-1/2"	15#	9099'	1000	surface

²² Describe the proposed program. If this application is to DEEPEN or PLUG BACK, give the data on the present productive zone and proposed new productive zone. Describe the blowout prevention program, if any. Use additional sheets if necessary.

Well is presently completed in the Vacuum; Abo Reef pool, as part of the Vacuum Abo Unit (VAU).

Propose to re-complete to the Vacuum; Grayburg-San Andres pool and bring well into the East Vacuum Grayburg-San Andres Unit (EVGSAU). **<62180>** **<31172>**

Propose to set CIBP below the San Andres and perforate 4589' - 4639', swab tests to determine next step, then return to production. Steel tanks will be used - see attached procedure.

Permit Expires 2 Years From Approval
Date Unless Drilling Underway
Plug back

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 the drilling pit will be constructed according to NMOCD guidelines ☐, a general permit ☐, or an (attached) alternative OCD-approved plan ☐.

Printed name: Jalyn N. Fiske

Title: Regulatory Specialist

E-mail Address: Jalyn.Fiske@conocophillips.com

Date: 08/20/2010

Phone: (432)688-6813

OIL CONSERVATION DIVISION

Approved by:

Title:

PETROLEUM ENGINEER

Approval Date: NOV 23 2010

Expiration Date:

OCD Hobbs - Notice

Property Name & Property Code will be changed when the completion paperwork is approved.

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State of New Mexico

Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION

1220 South St. Francis Dr. AUG 30 2010

Santa Fe, NM 87505

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Form C-102

Revised October 15, 2009

Submit one copy to appropriate

District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-025-03003		² Pool Code 62180	³ Pool Name Vacuum; Abo Reef Grayburg - San Andres
⁴ Property Code 31158	⁵ Property Name Vacuum Abo Unit, Tract #64		⁶ Well Number 61
⁷ OGRID No. 217817	⁸ Operator Name ConocoPhillips Company		⁹ Elevation 3925' GR

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
G	34	17S	35E		2080	NORTH	2080	EAST	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

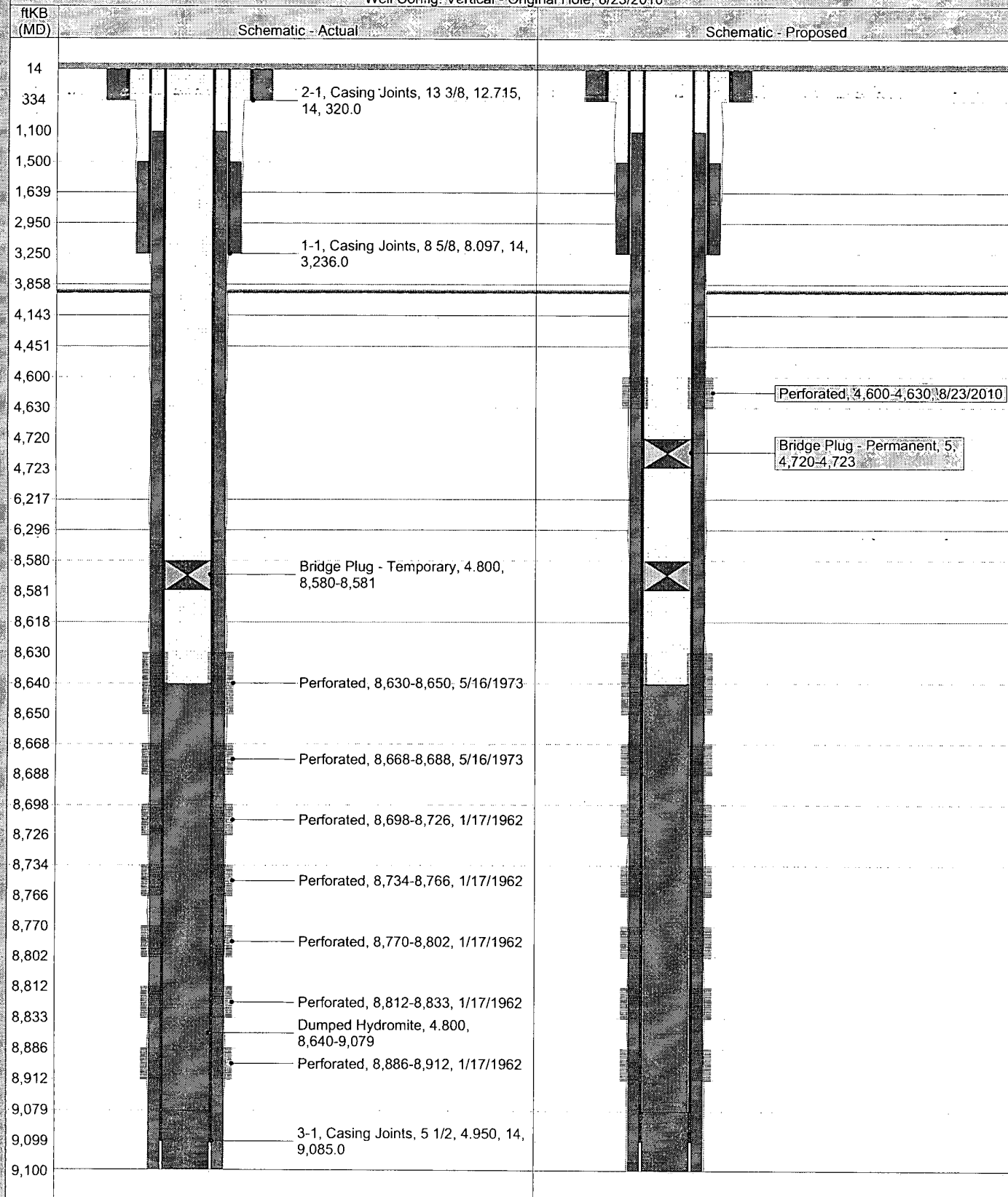
¹² Dedicated Acres 40	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

¹⁶	¹⁷ OPERATOR CERTIFICATION 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 unleased 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. Signature: <i>J. N. Fiske</i> Date: 08/20/2010 Printed Name: Jalyn N. Fiske	
	¹⁸ SURVEYOR CERTIFICATION 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. Date of Survey: Signature and Seal of Professional Surveyor:	
	Certificate Number	

District PERMIAN	Field Name VACUUM	API / UWI 300250300300	County LEA	State/Province NEW MEXICO
Original Spud Date 12/12/1961	Surface Legal Location SEC. 34, T17S, R35E	E/W Dist (ft) 2,080.00	E/W Ref FEL	N/S Dist (ft) 2,080.00
			N/S Ref FNL	

Well Config: Vertical - Original Hole, 8/23/2010



OBJECTIVE: Set CIBP below bottom San Andres and perforate and 4589 - 4639' (San Andres)
Swab test to determine next plan of action

WI 46.16%
Est. Cost: \$30.00 M Gross 13.85 M Net
Est. Rig Days: 1

WELL DATA:

API: 30-025-03003

Elevation: 3939' KB

PBTD: 8580' KB

TD: 9100' KB

Well History: This well was drilled and cased in Dec '61 down to the Abo (TD 9100'KB).
Perfs were shot and acidized between 8698 and 8912' KB. IP was 1065 BOPD.
Due to economics, well was temporarily abandoned in 1992.

Artificial lift Type None

Est. Res Pressure 1800

Well Failure Date:

Current Rate (Bbl): 0 Est. Rate Post Remedial (Mcf/d): 0 5

Production Engineer: Chibuike Njoku Office: (432) 368 1211 Cell: (713) 382 5402

Alternate Engineer: Scott Bles Office: (432) 368 1335

MSO: Bradley Boroughs Cell - 575 - 390 - 5833

Area Foreman: Kenny Kidd Cell - 575 - 631 - 5835

Production Specialist Steve Slater Cell - 575 - 390 - 1749

Notify Operator (or Supervisor) prior to commencing any work, and after job is completed. Coordinate any required facility work being done in conjunction with workover.

PROCEDURE:

1 MI & RU service unit and tested lubricator GIH with CIBP. Set CIBP at 4720. POOH

Below is current well configuration.

	top	bottom	Note
<u>Casing Detail</u>			
13.375" 48# H-40	surface	334	circ to surf
8 5/8" 24# J-55	surface	3250	no circ to surf
4 1/2" 9.5# J-55	surface	9099	no circ to surf
<u>Plug Detail</u>			
RBP	8580	8581	
Hydromite	8640	9079	
<u>Perforation Detail</u>			
Section 1	8630	8650	2
Section 2	8668	8688	2
Section 3	8698	8726	2
Section 4	8734	8766	2
Section 5	8770	8802	2
Section 6	8812	8833	2
Section 7	8886	8912	2

2 RIH with CCL/GR and perforate intervals in San Andres. Correlate to SLB compensated neutron log (05/21/09)
POOH

Formation	Top	Bottom	Thickness (ft)	SPF	TTL Shots
San Andres	4600	4630	30	2	60
Total			30		

3 RIH with workstring, setting tool and treating packer. Set packer at 4580'. Spot 1000 gal 15% Acid across perforated interval at 4bpm. COOH with workstring and treating packer

4 RU workstring for swabbing operations. Swab well in increasing periods.

Swab	2hrs	
Swab	5hrs	
Swab	7hrs	