

State of New Mexico

Form C-102

District I
1625 N. French Dr., Hobbs, NM 88240

District II
1301 W. Grand Avenue, Artesia, NM 88210

District III
1000 Rio Brazos Rd., Aztec, NM 87410

District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

RECEIVED
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION

MAR 04 2009
1220 South St. Francis Dr.
Santa Fe, NM 87505

Revised October 12, 2005
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-025-07853		² Pool Code 62965		³ Pool Name Warren: Blinebry-Tubb Oil & Gas	
⁴ Property Code		⁵ Property Name Warren Unit			⁶ Well Number 6
⁷ OGRID No. 217817		⁸ Operator Name ConocoPhillips Company			⁹ Elevation 3515' 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
N	29	20S	38E		660	South	1980	West	Lea, NM

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.

<p>16</p>	<p>¹⁷ OPERATOR CERTIFICATION</p> <p>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.</p> <p><i>Justin C. Firkins</i> 01/30/2009 Signature Date</p> <p>Justin C. Firkins Printed Name</p>	
	<p>¹⁸ SURVEYOR CERTIFICATION</p> <p>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.</p>	
	<p>Date of Survey</p> <p>Signature and Seal of Professional Surveyor:</p>	
	<p>Certificate Number</p>	

WARREN UNIT #6
WBS ELEMENT – WA5.CNM.
WellView Well Name – **WARREN UNIT 006**
Re-Completion Procedure

January 29, 2009

Objective: Recomplete to the Blinebry

COPC WI: 37.5%

Well Status: TA'd

Area: Permian

Venting: Permit not required

Well Control: Class 2 Category 1 (post perforating & post stimulation)

COPC NRI: 32.55%

Well Type: Oil Well

Field: Warren

Flaring: Permit not required

County: Lea

Team: Permian Oil

H₂S: Possible

IMPORTANCE OF SAFETY

Safe operations are of utmost importance at all ConocoPhillips properties and facilities. To further this goal, the ConocoPhillips Supervisor at the location shall request tailgate safety meetings prior to initiation of work and also prior to any critical operations. All company, contract, and service personnel then present shall attend these tailgate safety meetings at the location. All parties shall review the proposed upcoming steps, procedures, and potentially hazardous situations. Occurrence of these meetings shall be recorded in the WellView daily report.

History / Justification

The purpose of the proposed project is to recomplete the Warren Unit #0006, a temporarily abandoned well, to the Blinebry formation. The subject well was originally drilled to 9160' in 1950 and completed in the McKee from 9011-9116'. The McKee produced 783,037 BO, 542,948 MCFG with 857,424 BW during its lifetime. The well was TA'd in June 1994 with an RBP set at 8680'.

An initial rate of 30 BOPD with 75 MCFD is projected based upon offset production. Economics were performed using an exponential decline rate of 25% per year, a recompletion cost of \$418,000 a facilities cost of \$350,000, and an operating cost of \$7.35/BOE per year. ConocoPhillips owns a 37.5% WI and an NRI of 32.55% in the Blinebry formation. This project yields an ATAX ROR of 24% with an NPV of \$62M at 13%. The PEEP case was run using 1/9/09 price premise.

GENERAL NOTES

1. No project or task is to be performed unless it can be done safely and without harm to the environment. All work must comply with all State and Federal regulations and with COPC Safety and Environmental Policies.
2. Conduct daily safety meetings and review all procedures with all contractors prior to performing the operation.
3. Report all activity on the Well View Daily Completion Work-Over Report.
4. Insure contractors are familiar with and comply with all relevant COPC safety/environmental policies.
5. Spills are to be prevented. Utilize a vacuum truck as necessary.
6. **All references to 2% KCl water is powdered 2% KCl.**
7. Throughout the entire completion process, any fluids from the well-bore that are displaced or produced must be sent through the flow-back equipment so that the fluids can be properly disposed.
8. Verify that all pressured lines and fittings meet or exceed the MPSP (Maximum Predicted Surface Pressure) for the treatment lines of **5500** psi for the pressure test during stimulation operations. Maximum treatment pressure during the frac jobs will be **5500** psi. MPSP from the zone should not be greater than 2000 psi before & after stimulation operations of the Blinebry zone.
9. Well control for this well will be Class 2, Category 1 before and after stimulation. Expected Shut in Casing Pressures (SICP) before & after stimulation should not exceed 600 psi.

Warren Unit #6
Re-Complete to the Blinebry

AFE Number: WA5.CNM._____

API Number: 30-025-07853

Field: Warren

Location: 660' FSL & 1980' FWL, Sec. 29, T-20-S, R-38-E, Lea County, NM

Depths: TD = 9160' PBTD = 8680'

Elevation: GR = 3515' DF = 3527' KB = 3528'

Casing Data:

Existing & Proposed Casing, Tubing and Packer Information

	OD (in)	Depth (ft)	ID/Drift (inches)	Weight (#/ft)	Grade	Burst	Burst w/ 1.15 D.F.	Collapse (psi)	Collapse w/ 1.05 D.F.	Volume (Bbls/Ft)
Int. Csg.	7"	2893'	7.025/6.900	24#	H-40	2750	2391	2040	1943	.0479
Prod. Csg	5½"	9159'	4.950/4.825	15.5#/ 17#	J-55/N-80	4800	4174	4040	3847	.0238
Prod.	2½"	5570'±	2.441/2.347	6.5#	J-55	7260	6313	7680	7314	.00579

Top of Cement: 4650 by temp survey

Casing Fluid: 2% KCl (0.438 psi/ft)

Proposed Cased Hole Perforations

Formation	Perforations (MD)	Frac Grad	Perf Feet	SPF	Phase	Zero Hole	Holes	Anticipated Reservoir Pressure	Reservoir Temp
Blinebry	5880-5887'	.75	7	2	60°	No	14	2734	104°
	5897-5906'	.75	9	2	60°	No	18	2742	104°
	5990-6010'	.75	20	2	60°	No	40	2785	104°
	6058-6067'	.75	9	2	60°	No	18	2817	104°

Correlation Log: GR/Compensated Neutron Log dated 12/9/08
Gun Type: 3½" High Shot Density, 34JL Ultrajet, HMX 22.7g, (API 19B: Pen – 28.94", EHD - 0.37")

Mid-Continent / Permian / Hobbs East Contact List:

Reservoir Engineer:	D. Pecore	832-486-2145
Geologist:	V. Leon	832-486-2478
Production Engineer:	J. Lowder	432-368-1609
Facilities Engineer Tech:	L. Johansen	432-368-1223
Operations Supervisor:	J. Coy	575-391-3127
Projects Planner:	D. Garrett	432-368-1410
Production Foreman:	V. Mackey	575-391-3129

Prepared by: David McPherson:
Contract Production Engineer, Panhandle/Permian Group
Mobile: 1 (903) 316-4272 Home: 1 (903) 894-3547

Recommended Procedure

1. MIRU well service unit. ND wellhead and NU BOP's and test. Load casing with 9 ppg brine, test to 700 psi, and hold for 30 minutes. Haul in 2 $\frac{7}{8}$ " 6.5# production tubing for use as a workstring.
2. PU and RIH with 4 $\frac{3}{4}$ " bit on 2 $\frac{7}{8}$ " 6.5# production tubing as workstring to 6950'±, circulating well clean with 2% KCL water. POOH with 2 $\frac{7}{8}$ " workstring and bit. Lay down drill bit.
3. MIRU Schlumberger wireline. RU 1000 psi lubricator. Run GR-CBL-CCL log from 6900'± to 3500'±. Correlate to GR/Compensated Neutron Log dated 12/9/08. Call engineer with top of cement per CBL log. Dump bail 35' of cement on top of RBP @ 8680'. TIH and set CIBP @ 6900'±. Perforate the Blinebry from 5880-5887', 5897-5906', 5990-6010', and 6058-6067' with 2 SPF, 60° phasing (90 holes), using 3 $\frac{1}{8}$ " High Shot Density, 34JL Ultrajet, HMX 22.7g, (API 19B: Pen - 28.94", EHD - 0.37")
4. RDMO wireline and lubricator.
5. PU 3 $\frac{1}{2}$ " workstring and RIH with 5 $\frac{1}{2}$ " packer. Test 3 $\frac{1}{2}$ " workstring to 8,000 psi while RIH. Set packer at 5800'±.
6. Spot three 500 bbl clean, lined frac tanks and fill frac tanks with 2% KCl. Add biocide to the first load of each tank.
7. MIRU Schlumberger pumping services equipment. RU and test all lines to 7,500 psi and monitor for 5 min. Make sure the pressure does not decrease more than 300 psi over the 5 min. Pressure up casing / tubing annulus to 300 psi and monitor during job.
8. Perform acid ballout with 2250 gals of 20% HCl acid at 6-to-10 BPM with 54 1.1 SG Bioballs as per schedule.. Surge the well 2-3 times to dislodge balls. Shut down for 30 minutes to allow balls to fall.

Note: It is a ConocoPhillips policy to have shower facilities on location when using acid.
9. Fracture treat the Blinebry with 38,000 gal of YF125ST containing 72,000 lbs of 20/40 Jordan sand with prop net as per attached treating schedule. Set treating line pop off at 7000 psi. Set pump trips at 6500 psi. Set annulus pop off at 700 psi. Frac at 30± BPM with maximum wellhead treating pressure of 5500 psi.
10. Obtain ISIP and 5 minute, 10 minute, and 15 minute shut-in pressures. Close Hydraulic Master Valve. RD Schlumberger Iron.
11. Unseat packer. Tag for fill, reverse out any excess sand from tubing if flush volume not achieved. POOH with 5 $\frac{1}{2}$ " packer and 3 $\frac{1}{2}$ " workstring. Stand back 3 $\frac{1}{2}$ " workstring and packer.
12. TIH with 4 $\frac{3}{4}$ " bit on 2 $\frac{7}{8}$ " workstring to CIBP @ 6900'±. Circulate out any excess sand from frac job. When wellbore is clean, POOH with 2 $\frac{7}{8}$ " workstring.
13. RIH with the 2 $\frac{7}{8}$ " production tubing (per tubing design in Well View). Place the EOT at 6098'± with the tubing anchor at 5830'±. Maintain a dynamic fluid column (DFC) while running tubing. (Trickle some 2% KCl water down the tubing head valve.)

14. ND BOP's and NU wellhead. RIH with pump and rods (per rod design in WellView). Space and hang well on. Load tubing and check pump action.
15. RDMO well service rig. Release any ancillary equipment. Clean up location.
16. Turn well over to Operations. Place well on production. Report well tests on morning report. Place stabilized well test in Field View. Contact chemical representative to place well on corrosion inhibition and scale squeeze program if needed. Submit change of status report

WARREN UNIT #006

PROPOSED WELLBORE DIAGRAM

API #: 30-025-07853
 FIELD: Warren
 CO ST: Lea, NM AREA: Hobbs East
 SECTION: 29 TOWNSHIP: 20S RANGE: 38E
 LOCATION: 660' FSL & 1980' FWL
 DATES: SPUD: 8/19/50 IC: 10/15/50
 LATEST RIG WORKOVER:
 DIAGRAM REVISED: 01/06/09 by D. McPherson

	CASING			TUBING
Hole Size	17½"	12¼"	8¾"	
Pipe Size	10¾"	7½"	5½"	2⅞"
Weight	32.75#	24#	15.5# 17#	6.5#
Grade	H-40	H-40	J-55 N-80	J-55
Thread				8 rd
Depth	243'	2893'	6578' 9159'	6098'±

ELEVATION: GR - 3515' ; KB 3527'
 TREE CONNECTION:

10¾" @ 243' cmt w/ 200 sxs

Cmt to surface

TOC @ 800' by Temp Survey

7½" @ 2893' cmt w/ 1145 sxs

TOC @ 4650' by Temp Survey

PERFS: 5880-5887', 5897-5906'
 PERFS: 5990-6010', 6058-6067'

CIBP @ 6900'±

35' cement on top
 RBP @ 8680' 8/5/94

PERFS: 9011-9019', 9034-9044'

PERFS: 9055-9065', 9073-9081'

PERFS: 9085-9116'

5½" @ 9159' cmt w/ 220 sxs

COMMENTS

TD 9160

WARREN UNIT #006

CURRENT WELLBORE DIAGRAM

API #: 30-025-07853
 FIELD: Warren
 CO ST: Lea, NM AREA: Hobbs East
 SECTION: 29 TOWNSHIP: 20S RANGE: 38E
 LOCATION: 660' FSL & 1980' FWL
 DATES: SPUD: 8/19/50 IC: 10/15/50
 LATEST RIG WORKOVER:
 DIAGRAM REVISED: 10/09/08 by D. McPherson

	CASING			TUBING
Hole Size	17½"	12¼"	8¾"	
Pipe Size	10¾"	7½"	5½"	None
Weight	32.75#	24#	15 5#	
Grade	H-40	H-40	J-55	
Thread			N-80	
Depth	243'	2893'	6578'	9159'

ELEVATION: GR - 3515' ; KB 3527'
 TREE CONNECTION:

Tubing Description	Length	From	To
None			
Rod Description	Length	From	To
None			
Pump Unit:			

10¾" @ 243' cmt w/ 200 sxs
 Cmt to surface
 TOC @ 800' by Temp Survey

7½" @ 2893' cmt w/ 1145 sxs

TOC @ 4650' by Temp Survey

RBP @ 8680' 8/5/94

PERFS: 9011-9019'; 9034-9044'

PERFS: 9055-9065'; 9073-9081'

PERFS: 9085-9116'

5½" @ 9159' cmt w/ 220 sxs

COMMENTS

TD

9160