Form 3160-5 (August 2007)

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

OCD-HOBBS

FORM APPROVED OMB No 1004-0137 Expires: July 31, 2010

6. If Indian, Allottee or Tribe Name

5. Lease Serial No. LC031695B

SUNDRY NOTICES AND REPORTS ON WELLS

	orm for proposais เ Use Form 3160-3 (A			
SUBMI	T IN TRIPLICATE – Other	instructions on page 2.	7. If Unit of CA/Agreement, Name and/or No.	
1. Type of Well Oil Well Gas W	/ell	/	8. Well Name and No./ Warren Unit #93	
2. Name of Operator ConocoPhillips Company			9. API Well No. 30-025-27584	
3a. Address P.O. Box 51810 Midland, Texas 79710-1810	·	3b. Phone No. (include of 432-688-6913	area code) 10. Field and Pool or Exploratory Area Warren: Blinebry/Tubb O&G	
4. Location of Well (Footage, Sec., T., 660 FSL & 1980 FWL, UL [.] N of Section 33, T20	R.,M., or Survey Description, S, 38E	/	11. Country or Parish, State Lea, NM	
12. CHEC	K THE APPROPRIATE BO	X(ES) TO INDICATE N	NATURE OF NOTICE, REPORT OR OTHER DATA	
TYPE OF SUBMISSION			TYPE OF ACTION	
Notice of Intent	Acidize Alter Casing Casing Repair	Deepen Fracture Treat New Constructi	Production (Start/Resume) Water Shut-Off Reclamation Well Integrity Other Other	
Subsequent Report Final Abandonment Notice	Change Plans Convert to Injection	Plug and Aband Plug Back	don Temporarily Abandon Water Disposal	
testing has been completed. Final determined that the site is ready fo	Abandonment Notices must or final inspection.) the attached procedure for further information.	oe filed only after all requ	ompletion or recompletion in a new interval, a Form 3160-4 must be filed on uirements, including reclamation, have been completed and the operator has pt into the San Andres formation with perfs from 4030-4137'.	
AFTER RECOMPLETION AND PLEASE SUBMIT 3160-4 C REPORT FOR THE Grayla INTERVAL(S) WITHIN 30 DA	OTESTING OMPLETION Arg/Upper San An AYS	dres	RECEIVED MAR 0 4 2009 HOBBSOCD	
14. I hereby certify that the foregoing is t Justin C. Firkins	after well is rue and correct. Name (Printe	<u> </u>	Regulatory Specialist	
Signature / Justice	I fall		02/25/2009	
	THIS SPACE	FOR FEDERAL O	OR STATE OFFICE USE	
Approved by Conditions of approval, if any, are attache that the applicant holds legal or equitable to	itle to those rights in the subje	Titl	Petroleum Engineer FEB 2 8 2009 ffice CFO	
Title 18 U.S.C. Section 1001 and Title 43		crime for any person know	wingly and willfully to make to any department or agency of the United States an	y false

fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

WARREN UNIT #93 WBS ELEMENT – WA5.CNM.

WellView Well Name – WARREN UNIT 093

Re-Completion Procedure

February 3, 2009

Objective: Recomplete to the Grayburg/Upper San Andres formation.

COPC WI: 37.5% Well Status: TA'd

COPC NRI: 25% Well Type: Oil Well

County: Lea

Area: Permian

Field: Blinebry O&G

Team: Permian Oil H₂S: Possible

Venting: Permit not required

Flaring: Permit not required

... ...

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

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 #93, a temporarily abandoned well, to the Grayburg/Upper San Andres formation. The subject well was originally drilled to 7000' in 1982 and completed in the Blinebry from 5792-6170'. The Tubb (6430-6687') and Lower Blinebry (6225-6410') were added in 1994. The overall perf'd interval was from 5835-6285'. The Warren Unit #91 was a disappointing producer. The Blinebry cum'd 15,085 BO, 70,753 Mcf with 12,292 BW during its lifetime. The well was temporarily abandoned in July 1996.

Apache recently drilled and completed the Hawk B-3 #34 to 4550'. The well is a 40 acre offset to the WU #93 and was completed in the equivalent formations. The well was put on 8/11/08 making 20 BO, 196 BW, and 23 Mcf. Another offset well, the Apache Livingston #15, has cum'd over 13,000 BO since it was recompleted in 2004.

An initial rate of 20 BOPD with 25 Mcf/d is projected based upon the initial rates of nearby wells and log data. Economics were performed using an exponential decline rate of 25% per year, a recompletion cost of \$375,000, a facilities cost of \$150,000, and an operating cost of \$7.35/BOE per year. ConocoPhillips owns a 37.5% WI and a NRI of 32.81% in the Warren Unit lease. This project yields an ATAX ROR of 15.6% with a NPV of \$8M at 13%.

AFE Number:

WA5.CNM.____

API Number:

30-025-27584

Field:

Warren Blinebry Tubb O&G

Location:

660' FSL & 1980' FWL; Sec. 33, T-20-S, R-38-E, Lea County, NM

Depths:

TD = 7000

PBTD = 5750'

Elevation:

GR = 3496'

KB = 3507'

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)
Sur. Csg.	9%	1400'	8 921/8.765	36#	K-55	3520	3060	2020	1924	.0773
Prod. Csg	7"	6995'	6.276/6.151	26#	K-55	4980	4330	4320	4114	.0383
Prod. Tbg	27/8"	5321'±	2.441/2 347	6.5#	J-55	7260	6313	7680	7314	.00579

Top of Cement: 2050' by temp survey

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

Proposed Cased Hole Perforations

Formation	Perforation s (MD)	Frac Grad	Perf Feet	SPF	Phase	Zero Hole	Holes	Anticipated Reservoir Pressure	Reservoir Temp
Grayburg	4030-4050'	.75	20	2	90°	No	40	1874	100°
Grayburg	4066-4086'	.75	20	2	90°	No	40	1891	100°
Upper San Andres	4117-4137'	.75	20	2	90°	No	40	1914	100°

Correlation Log: Dresser Atlas Dual Laterolog dated 2/28/82

Gun Type: 4" HEGS-41B HJ SX1, 22.7 gram HMX, (API 19B: Pen – 21.67", EHD - 0.40")

Prepared by: David McPherson: Contract Production Engineer, Panhandle/Permian Group

Office: 1(832) 486-2203

Mobile: 1(903) 316-4272

Home: 1(903) 894-3547

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 WellView 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 **6000** psi for the pressure test during stimulation operations. Maximum treatment pressure during the sand frac will be **5500** psi. MPSP from the zone should not be greater than 2000 psi before & after stimulation operations of the Grayburg/San Andres 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 2000 psi.

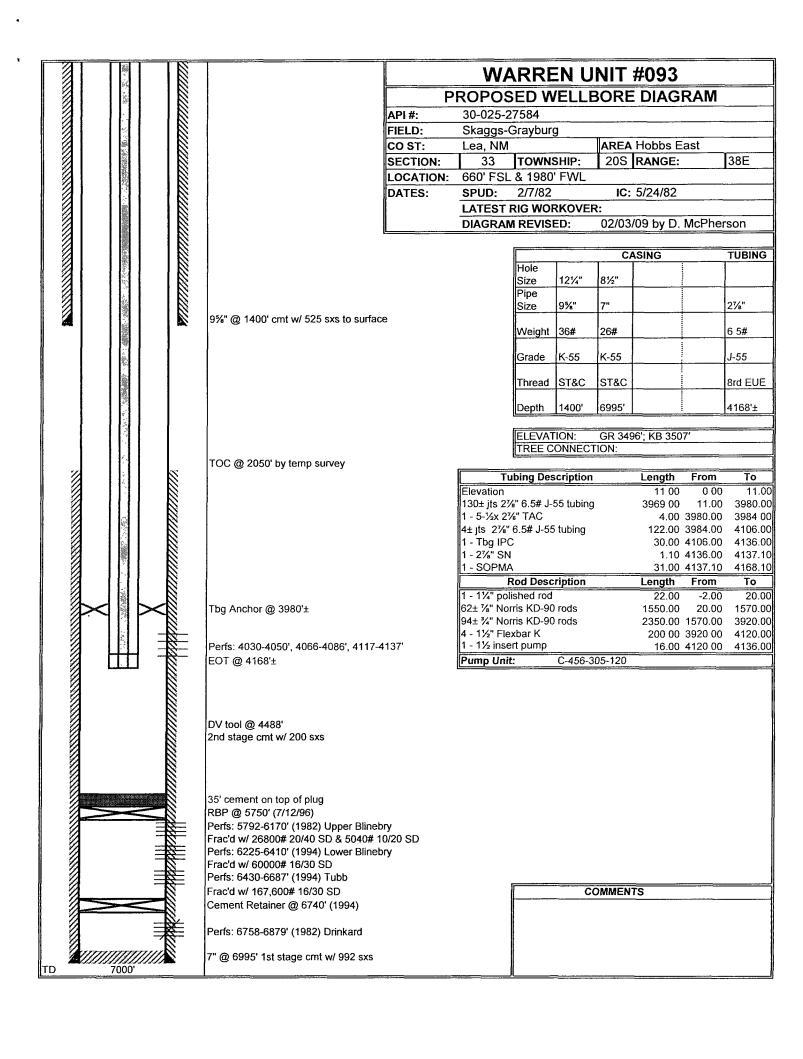
Mid-Continent / Permian / Hobbs East Contact List:

Reservoir Engineer:	D. Pecore	832-486-2145
Production Engineer:	J. Lowder	432-368-1609
Facilities Engineer Tech:	L. Johansen	432-368-1223
Operations Supervisor:	J. Coy	505-391-3127
Projects Planner:	D. Garrett	505-368-1410
Production Foreman:	V. Mackey	505-391-3129

Recommended Procedure

- 1. MIRU workover unit. ND wellhead and NU BOP's and test. Load casing with 9 ppg brine and test to 1000 psi and hold for 30 minutes.
- 2. PU and RIH with 6½" bit and 7" casing scraper on 2½" 6.5# workstring to 5750'± circulating well clean with 2% KCL water. POOH with casing scraper and drill bit. Lay down 2½" tbg. LD casing scraper and drill bit.
- 3. MIRU Schlumberger wireline. RU 1000 psi lubricator. Run GR-CCL-Neutron log from RBP @ 5750'± to 3500'±. Correlate to Dresser Atlas Dual Laterolog dated 2/28/82. Dump bail 35' of cement on top of RBP @ 5750'±. Perforate 4030-4050', 4066-4086', and 4117-4137' with 2 SPF, 90° phasing, from top to bottom, using 4" HEGS-41B HJ SX1, 22.7 gram HMX, (API 19B: Pen 21.67", EHD 0.40").
- 4. RDMO wireline and lubricator.
- 5. PU 3½" workstring and RIH with 5½" packer. Test workstring to 6,000 psi while RIH. Set packer at 4900'±.
- 6. Spot four 500 bbl clean, lined frac tanks and fill 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 that 300 psi over the 5 min. Pressure up casing / tubing annulus to 300 psi and monitor during job.
- 8. Perform acid ballout with 3000 gals of 20% HCl acid at 6-to-10 BPM with 144 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.
- Fracture treat the Grayburg/SA with 39,000 gal of YF125ST containing 80,000 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 5½" packer and 3½" workstring. Lay down 3½" workstring and packer.
- 12.TIH with 4¾" bit to PBTD @ 5705±. Do not drill cement plug. Circulate out any excess sand from frac jobs. When wellbore is clean POOH laying down 2¾" workstring.
- 13. Pick up the 2-\%", 6.5 lb/ft, J-55 tubing string (per Vernon Mackey).

- 14. Run the production tubing in the hole. Place the EOT 31'± @ 4168'± with the tubing anchor set @ 3980'±. Maintain a dynamic fluid column (DFC) while running tubing. (Trickle some 2% KCl water down the tubing head valve.)
- 15.ND BOP's and NU wellhead. RIH with pump and rods. Space and hang well on. Load tubing and check pump action.
- 16. RDMO well service rig and return well to production. Report results on morning report.



			,		WA	RRE	N U	NIT #0	93				
				C	URREI	NT WE	LLB	ORE DIA	\GR	AM			
				API#:	30-025-2	27584							
				FIELD:	Warren I	Blinebry	Tubb O	&G					
				CO ST:	Lea, NM			AREA:	Hobb	os Eas	st		
				SECTION:	33	TOWN	SHIP:	20S	RAN	GE:	38E		
				LOCATION:	660' FSL		'FWL						
				DATES:	SPUD:	2/7/82			5/24/	/82			
					LATEST								
					DIAGRAI	VI REVIS	ED:	10/24/07	by υ.	McPr	erson		
						[CASING			TUBING		
	[Hole	1	CASIN	1		TOBING		
						Size	121/4"	81/2"	<u> </u>	<u> </u>			
						Pipe Size	9%"	7"			None		
	İ		9%" @ 1400' cmt w/ 525 sxs to surface	е		Size	1378	 '	 		TVOTIE		
		Mark.				Weight	36#	26#					
						Grade	K-55	K-55					
						Crade	11-55	110-00	 	<u> </u>			
						Thread	ST&C	ST&C	ļ		ļ		
						Depth	1400'	6995'					
						ВСРи	11400	10000	L	<u> </u>	<u> </u>		
						ELEVAT		GR 3496'; I	KB 350	7'			
	İ		TOO G 005011 /			TREE CONNECTION:							
<i>y</i>		Š	TOC @ 2050' by temp survey			Tubing D	escription	on	Lenat	From	То		
						, <u></u>							
					None								
						•							
						Rod De	scription	n	Lengt	From	То		
					None								
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		§	DV tool @ 4488' 2nd stage cmt w/ 200 sxs		Pump Uni	t:							
			Zild Stage Gill W/ 200 3X3										
		3											
		Š											
		}											
		Š	RBP @ 5750' (7/12/96)										
		*	Perfs: 5792-6170' (1982) Upper Blineb										
		<u> </u>	Frac'd w/ 26800# 20/40 SD & 5040# 1										
		₹	Perfs: 6225-6410' (1994) Lower Blineb Frac'd w/ 60000# 16/30 SD	чу									
		E	Perfs: 6430-6687' (1994) Tubb										
			Frac'd w/ 167,600# 16/30 SD					COMMENT	S				
			Cement Retainer @ 6740' (1994)										
		*	Perfs: 6758-6879' (1982) Drinkard										
	amana T												
TD	//////////////////////////////////////	S	7" @ 6995' 1st stage cmt w/ 992 sxs										
<u> </u>	, 000		1			ــــــــــــــــــــــــــــــــــــــ							