Submit 3 Copies To Appropriate District Office District 1	State of New Mexico Energy, Minerals and Natural Resources		Form C-103 June 19, 2008			
1625 N. French Dr., Hobbs, NM 88240 <u>District II</u>	OH CONGERNATION DIVI	CION	WELL API NO. 30-045-07810			
1301 W. Grand Ave., Artesia, NM 88210 <u>District III</u>	OIL CONSERVATION DIVISION 1220 South St. Francis Dr.		5. Indicate Type of Lease STATE FEE X			
1000 Rio Brazos Rd , Aztec, NM 87410 District IV	Santa Fe, NM 87505		6. State Oil & Gas Lease No.			
1220 S. St. Francis Dr., Santa Fe, NM 87505	S AND DEPORTS ON WELLS		7. Lease Name or Unit Agreement Name			
SUNDRY NOTICES AND REPORTS ON WELLS (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A						
DIFFERENT RESERVOIR USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)			Mangum			
1. Type of Well: Oil Well Gas Well X Other			8. Well Number			
2. Name of Operator	DCES OH & CAS COMPANY I D		9. OGRID Number			
3. Address of Operator	RCES OIL & GAS COMPANY LP		10. Pool name or Wildcat			
4. Well Location	Farmington, NM 87499		Fulcher Kutz PC			
Unit Letter J : 16: Section 28	feet from the South line Township 29N Range	e and 11W	1650 feet from the East line NMPM San Juan			
11. El	evation (Show whether DR, RKB, RT, GR, e	etc.)				
12. Check A _l NOTICE OF INT	opropriate Box to Indicate Nature	of Noti	ice, Report or Other Data SUBSEQUENT REPORT OF:			
·	<u> </u>	EMEDIAL				
	H 1		CE DRILLING OPNS. P AND A EMENT JOB			
OTHER:	on	THER:				
• •		_	ive pertinent dates, including estimated date			
of starting any proposed work). or recompletion.	SEE RULE 1103. For Multiple Completion	ns: Attacl	th wellbore diagram of proposed completion			
			RCVD AUG 17'09			
M .			OIL CONS. DIV.			
			DIST. 3			
Burlington Resources wishes to P&	A this well per the attached procedures and	well bore	e schematic.			
•						
SPUD DATE: 7/31/	1947 RIG RELEASE I	DATE:				
I hereby certify that the information above	is thue and complete to the best of my know	wledge an	nd belief.			
SIGNATURE DAGNOG	Mus. TITLE	Staff Reg	gulatory Technician DATE 8/12/2009			
Type or print name Rhonda For State Use Only			onocophillips.com PHONE: 505-599-4018			
APPPROVED BY Zalg C. Co.	Dep TITLE	outy O	Dil & Gas Inspector, DATE AUG 2 7 2010 District #3			
Conditions of Approval (if any): \mathcal{N}_{ϵ}	TIFY NMOCD AZTEC 24 HOUR	rs Pr	ZIOR TO BEGINNING OPERATIONS			

ConocoPhillips MANGUM #3 (PC) P&A

Lat 36° 41' 38.508" N

Long 107° 59' 35.376" W

Prepared by:

Jonathan Coberly

Date:

08/03/09

Scope of Work:

Use a rig to P&A the well.

Est. Rig Days: Est. Uplift:

Area:

Formation:

22 PC Route:

250

WELL DATA

3004507810

0 MCFD

API:

Spud Date: 7/31/1947 1650' FSL & 1650' FEL, Spot J, Section 28 -T 029N - R 011W

KB:

LOCATION:

Total Depth:

1748'

TBG Depth:

1633'

PBTD: BTM Perf: 1747' 1670'

EOT to PBTD:

114'

BTM Perf to PBTD:

77'

Perforations:

1628'-1670' (PC)

Tubular	OD	Weight	Grade	Connection	ID ¹	Drift ID	Depth
Casing	16"	60		STC			40'
Casing	5 1/2"	14		STC	5.012	4.887	1630'
Casing	3 1/2"			STC		}	1747'
Tubing	1.9"	2.9	J-55] IJ	1.610	1.530	1633'
F_Nipple	1.9"	2.9	J-55	IJ	1.460	1.430	1600'

Well History/Justification

The Mangum #3 was spud in 1947 and completed into the Pictured Cliffs formation. In 1966, the well was perf'd and frac'd into the Pictured Cliffs Formation and then re-frac'd into the Pictured Cliffs formation again in 1998. The well has currently produced 0.787 Bcf with 16 MMcf remaining. A string a of 1 9" OD IJ tubing was installed in 1999 as a velocity string. This well has been logged off since September of 2008. A fluid level analysis completed on 12/11/2008, when the well was shut in, showed that there was no fluid level in the tubing and no fluid above the seat nipple in the casing. Tubing and casing pressures are both 55 psia and they cannot beat the line pressure at 125 psig. The expected rate of 15 Mcfd will not pay for a compressor. Looking at the decline curves and cumulative production of the surrounding wells, this well looks to be depleted. For example, the Mangum #6 is a well that is completed within an 80 acre spacing of the Mangum #3 as part of an 80 acre infill pilot. It is only expected to produce around 25 to 30 Mcf/d with a similiar Pictured Cliffs completion.

Recommendation

It is recommended to pull the tubing and P&A the Mangum #3 with a rig.

Bradenhead Failure/History

None noted.

B2 Adapters are required on all wells other than pumping wells.

Artificial lift on well (type):

None

Est. Reservoir Pressure (psia):

55 psi

Well Failure Date:

9/1/08

Earthen Pit Required:

NO

Current Rate:

0 MCFD

Est. Rate Post Remedial:

0 MCFD

Special Requirements:

3 1/2" Wireline Set Cement Retainer (1), 3 1/2" Tubing Set Cement Retainer (3), Class B

Cement (645 sx)

H2S:

0 ppm

Contacts	<u>N</u> ame	Office #	Cell #
PE Production Engineer	Jonathan Coberly	324-5112	320-0772
PE Backup	Conrad Puls	324-6176	320-6420
MSO	Trevor Coleman		486-6654
Spec	Fred Haskill		486-2373
Area Foreman	Ryan Frost	324-5143	320-0953

ConocoPhillips MANGUM #3 (PC) P&A

Lat 36° 41' 38.508" N

Long 107° 59' 35.376" W

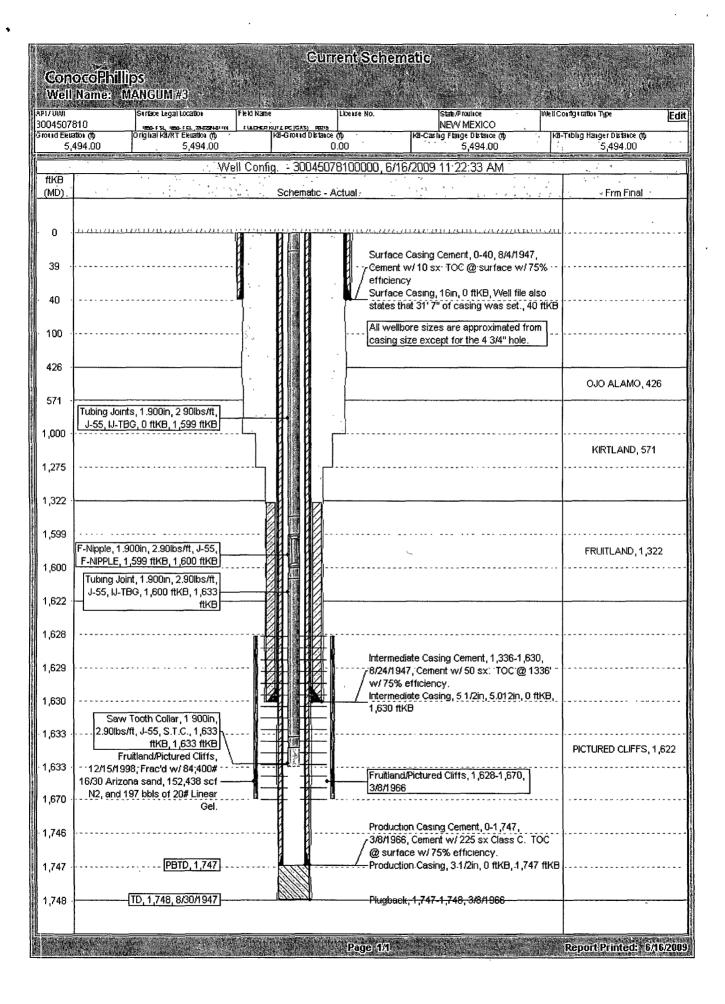
Note: All cement volumes use 100% excess outside pipe and 50' excess inside. The stabilizing wellbore fluid will be 8.3 ppg, sufficient to balance all exposed formation pressures. All cement will be Class B, mixed at 15.6 ppg with a 1.18 cf/sx yield.

Procedure

- 1. This project requires a NMOCD C-144 CLEZ Closed-Loop System Permit for the use of a steel tank to handle waste fluids circulated from the well and cement wash up.
- 2. Hold pre-job safety meeting. Comply with all NMOCD, BLM, and COPC safety and environmental regulations.
- 3. MIRU. NU BOP. NU flow T and blooie line to flowback tank. NU injector.
- 4. TOOH with tubing:
 - 1- Saw Tooth Collar
 - 1- 1.9" 2.9# J-55 IJ Tubing Joint
 - 1- 1.43"ID F-Nipple
 - 49- 1.9" 2.9# J-55 IJ Tubing Joints

Inspect tubing for bad joints and replace all bad joints if most of the tubing is in good shape. If tubing is heavily corroded, lay down the bad tubing and use a work string for the rest of the job.

- 5. Plug 1: RIH with wireline and a 3 1/2" cement retainer and set the CR at 1578'. RIH with tubing. Mix 5 sx of cement. Sting out of CR and drop 5 sx on top of retainer
- 6. Pressure test the casing to 800 psi. If casing does not test, locate the failure, then spot or tag subsequent plugs as necessary. POOH with tubing.
- 7. Plug 2: Perforate 2 squeeze holes at 1320'. Set a 3 1/2 " cement retainer @ 1270'. Establish rate into squeeze holes. Mix 42 sx of cement. Squeeze 30 sx cement outside the casing, leave 9 sx cement inside the casing under the cement retainer. Sting out of the cement retainer and drop 3 sx of cement on top of cement retainer.
- 8. Plug 3: Perforate 2 squeeze holes @ 621'. Set a 3 1/2" cement retainer @ 571'. Establish rate into squeeze holes. Mix 202 sx cement. Squeeze 196 sx cement outside the casing and leave 3 sx below the CR in the casing. Sting out of the retainer and drop 3 sx of cement on top of the CR.
- 9. Plug 4: Perforate 2 squeeze holes @ 476'. Set a 3 1/2" cement retainer @ 426'. Establish rate into squeeze holes. Mix 202 sx of cement. Squeeze 196 sx cement outside the casing and leave 3 sx below the CR in the casing. Sting out of the retainer and drop 3 sx of cement on top of the CR.
- 10. Plug 5: Perforate 2 squeeze holes at 90'. Establish rate into squeeze holes. Mix 194 sx cement. Squeeze 186 sx outside the casing and leave 8 sx inside the casing. POOH with tubing.
- 11. ND BOP and flow T. Cut off wellhead below surface casing flange. Install P&A marker with cement to comply with regulations. RDCTU, MOL and cut off anchors. Restore location per BLM stipulations.



PROPOSED WELLBORE ConocoPhillips MANGUM #3 Field Name OPE / LISAN State/Province Countre Edit SOUTH FULCHER KUTZ PC (GAS) 3004507810 SAN JUAN NEW MEXICO Original Spud Date Surface Legal Location E/W Dist (ft) E/W Ref N/S Dist (ft) 7/31/1947 1650- FSL, 1650- FEL, 28-029N-011W 1,650 00 1,650.00 S .Well Config: - 30045078100000, 7/13/2009 1:37 51 PM ftKB Schematic - Actual Frm Final : (MD) Surface Casing Cement, 0-40, 8/4/1947, :Cement:w/d0.sx::TOC:@:surface.w/.75%:u Ω Hole sizes used for Surface Casing, 16in, 0 ftKB, Well file also 39 cement calculations: states that 31' 7" of casing was set., 40 40 Squeeze Perfs, 90, 6/24/2009 Surface: 17-1/4" Plug 5, 0-90, 6/24/2009, Plug w/ 8 sx Class Intermediate 1: 15-1/2" 90 Intermediate 2. 11-1/4" Plug 5 Squeeze, 0-90, 6/24/2009, Squeeze Intermediate 3: 8-5/8" 100 w/.186 sx Class B------Production: 4-3/4" All wellbore sizes are approximated from casing size except for the 4 3/4" hole 426 Cement Retainer, 426-428 Squeeze Perfs, 476, 6/24/2009 428 Plug 4 Squeeze, 376-476, 6/24/2009. OJO ALAMO, 426 Squeeze w/ 196 sx Class B. 476 Plug 4, 366-486, 6/24/2009, Plug W/ Class B 3 sx below CR and 3 sx above CR 571 Cement Retainer, 571-573 Squeeze Perfs, 621, 6/24/2009 573 Plug 3 Squeeze, 521-621, 6/24/2009, Squeeze w/196 sx Class B. Plug 3, 511-631, 6/24/2009, Plug w/ Class B 621 3 sx below CR and 3 sx above CR. 1,000 1,270 KIRTLAND, 571 Cement Retainer, 1,270-1,272 1,272 1,275 Squeeze Perfs, 1,320, 6/24/2009 Plug 2 Squeeze, 1,272-1,320, 6/24/2009, 1,320 Squeeze w/30 sx Class B. Plug 2, 1,222-1,372, 6/24/2009, Plug w/ 1,322 Class B. 9 sx below CR and 3 sx above CR. Plug 1, 1,466-1,578, 6/24/2009, Plug w/ -1,578 Class B: 5:sx above CR:---Cement Retainer, 1,578-1,580 1,580 FRUITLAND, 1,322 1,628 Intermediate Casing Cement; 1;336-1;630; -8/24/1947, Cement w/ 50 sx TOC @ 1336 w/.75% efficiency. ... 1,629 Intermediate Casing, 5 1/2in, 5 012in, 0 ftKB, Fruitland/Pictured Cliffs. 1,630 ftKB 1,630 12/15/1998, Frac'd w/ 84,400# Fruitland/Pictured Cliffs, 1,628-1,670, 16/30 Arizona sand, 152,438 scf 3/8/1966 1,670 -N2, and 197-bbls of 20# Linear Production Casing Cement, 0-1,747, 3/8/1966, Cement w/ 225 sx Class C. TOC -PICTURED CLIFFS, 1,630 1,746 @ surface w/75% efficiency. Production Casing, 3 1/2in, 0 ftKB, 1,747 PBTD, 1,747 1,747 TD, 1,748, 8/30/1947 1,748 Plugback, 1,747-1,748, 3/8/1966 Page 1/1 Report Printed: 7/13/2009