

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

DEC 02 2013

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

WELL COMPLETION OR RECOMPLETION REPORT AND LOG RECEIVED

1a. Type of Well ☒ Oil Well ☐ Gas Well ☐ Dry ☐ Other		6. If Indian, Allottee or Tribe Name	
b. Type of Completion ☒ New Well ☐ Work Over ☐ Deepen ☐ Plug Back ☐ Diff. Resvr. Other		7. Unit or CA Agreement Name and No.	
2. Name of Operator CONOCOPHILLIPS COMPANY		8. Lease Name and Well No. BUCK 17 FEDERAL COM 3H	
3. Address 3300 N "A" ST BLDG 6 MIDLAND, TX 79705		9. API Well No. 30-025-40900-00-S1	
4. Location of Well (Report location clearly and in accordance with Federal requirements)* At surface NWNE 10FNL 2625FEL At top prod interval reported below NWNE 554FSL 2249FWL At total depth NENW 350FNL 2203FWL		10. Field and Pool, or Exploratory JENNINGS	
14. Date Spudded 03/08/2013		15. Date T.D. Reached 04/01/2013	
16. Date Completed ☐ D & A ☒ Ready to Prod. 08/06/2013		17. Elevations (DF, KB, RT, GL)* 3176 GL	
18. Total Depth: MD 14080 TVD 9233		19. Plug Back T.D.: MD 14080 TVD 9233	
20. Depth Bridge Plug Set: MD TVD		21. Type Electric & Other Mechanical Logs Run (Submit copy of each) 3176 GL	
22. Was well cored? ☒ No ☐ Yes (Submit analysis) Was DST run? ☒ No ☐ Yes (Submit analysis) Directional Survey? ☒ No ☐ Yes (Submit analysis)			

23. Casing and Liner Record (Report all strings set in well)

Hole Size	Size/Grade	Wt. (#/ft.)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Sk. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
17.500	13.375 J-55	54.5	0	1028		930	260	0	
12.250	9.625 J-55	36.0	0	4475	2490	1840	582	0	
8.750	7.000 P-110	29.0	0	9525		440	199	0	
6.125	4.500 P-110	11.6	9209	14070					

24. Tubing Record

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)
2.875	9203							

25. Producing Intervals

26. Perforation Record

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) BONE SPRING	8152	14080	9587 TO 14046			PRODUCING
B)						
C)						
D)						

27. Acid, Fracture, Treatment, Cement Squeeze, Etc.

Depth Interval	Amount and Type of Material
9587 TO 14046	TOTAL PROPPANTS= 2,737,031

28. Production - Interval A

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
11/13/2013	11/13/2013	24	→	596.0	1644.0	1716.0	46.3		
Choke Size	Tbg. Press. Flwg. 640 SI	Csg. Press.	24 Hr. Rate →	Oil BBL 596	Gas MCF 1644	Water BBL 1716	Gas:Oil Ratio	Well Status POW	

28a. Production - Interval B

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate →	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	

(See Instructions and spaces for additional data on reverse side)

ELECTRONIC SUBMISSION #226777 VERIFIED BY THE BLM WELL INFORMATION SYSTEM

** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED **

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28b. Production - Interval C									
Date First Produced	Test Date	Hours Tested	Test Production 	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate 	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	

28c. Production - Interval D									
Date First Produced	Test Date	Hours Tested	Test Production 	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate 	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	

29. Disposition of Gas(Sold, used for fuel, vented, etc.)
CAPTURED

30. Summary of Porous Zones (Include Aquifers):	31. Formation (Log) Markers
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Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

31. Formation (Log) Markers

[illegible]

32. Additional remarks (include plugging procedure):

33. Circle enclosed attachments:

- | | | | |
|---|--------------------|---------------|-----------------------|
| 1. Electrical/Mechanical Logs (1 full set req'd.) | 2. Geologic Report | 3. DST Report | 4. Directional Survey |
| 5. Sundry Notice for plugging and cement verification | 6. Core Analysis | 7. Other: | |

34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions):

Electronic Submission #226777 Verified by the BLM Well Information System.
For CONOCOPHILLIPS COMPANY, sent to the Hobbs
Committed to AFMSS for processing by JOHNNY DICKERSON on 11/19/2013 (14JLD0800SE)

Name (please print) ASHLEY BERGEN Title STAFF REGULATORY TECH

Signature _____ (Electronic Submission) Date 11/14/2013

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

**** REVISED ** REVISED ** REVISED ** REVISED ** REVISED ** REVISED ** REVISED ** REVISED ****



Conoco Phillips

**Lea County, New Mexico
Sec 20, T26S, 32E
Buck Federal 17 #3H**

Wellbore #1

Survey: MWD

DDC Survey Report

04 April, 2013

HOBBS OCD

DEC 02 2013

RECEIVED





Survey Certification Sheet

Conoco Phillips.
Company

GC-13193
Job Number

4/4/13
Date

Sec20, T26S, R32E
Lease

Buck Federal 17#3H
Well Name

Lea, NM
County & State

API: 30-025-40900

Surveyed from a depth of: 169 feet to 14080 feet MD

Type of Survey: MWD

Directional Supervisor/Surveyor: Kevin Whittington

The data and calculations for this survey have been checked by me and conform to the standards and procedures set forth by **The Directional Drilling Company (DDC)**. This report represents a true and correct Directional survey of this well based on the original data obtained at the well site. Wellbore Coordinates are calculated using minimum curvature.

Digitally signed by Larry
Wright
DN: cn=Larry Wright, o=The
Directional Drilling Company,
ou=GM of Guidance Services,
email=larryw@directionaldrill
rs.com, c=US
Date: 2013.04.08 15:32:59
-05'00'

Larry Wright
MWD General Manager

Company:	Conoco Phillips	Local Co-ordinate Reference:	Well Buck Federal 17 #3H
Project:	Lea County, New Mexico	TVD Reference:	WELL @ 3192.0usft (Precision #827)
Site:	Sec 20, T26S, 32E	MD Reference:	WELL @ 3192.0usft (Precision #827)
Well:	Buck Federal 17 #3H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM 5000.1 Single User Db

Project	Lea County, New Mexico		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		

Site	Sec 20, T26S, 32E		
Site Position:		Northing:	376,829.70 usft
From:	Map	Easting:	698,257.30 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 2' 3.859 N
		Longitude:	103° 41' 36.778 W
		Grid Convergence:	0.34 °

Well	Buck Federal 17 #3H		
Well Position	+N/-S	0.0 usft	Northing: 377,175.88 usft
	+E/-W	0.0 usft	Easting: 697,317.44 usft
Position Uncertainty	0.0 usft	Wellhead Elevation:	usft
		Latitude:	32° 2' 7.340 N
		Longitude:	103° 41' 47.673 W
		Ground Level:	3,176.0 usft

Wellbore	Wellbore #1		
Magnetics	Model Name	Sample Date	Declination
	BGGM2012	3/5/2013	(°)
			7.53
			Dip Angle (°)
			59.90
			Field Strength (nT)
			48,343

Design	Wellbore #1		
Audit Notes:			
Version:	1.0	Phase:	ACTUAL
		Tie On Depth:	0.0
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W
	(usft)	(usft)	(usft)
	0.0	0.0	0.0
			Direction
			(°)
			354.96

Survey Program	Date 4/2/2013		
From	To	Survey (Wellbore)	Tool Name
(usft)	(usft)		
169.0	14,080.0	MWD (Wellbore #1)	MWD default
			Description
			MWD - Standard

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
FIRST MWD SURVEY @ 169' MD / 169' TVD									
169.0	1.10	275.10	169.0	0.1	-1.6	0.3	0.65	0.65	0.00
264.0	1.10	276.30	264.0	0.3	-3.4	0.6	0.02	0.00	1.26
356.0	1.00	269.10	356.0	0.4	-5.1	0.9	0.18	-0.11	-7.83
464.0	0.30	24.40	464.0	0.7	-5.9	1.2	1.07	-0.65	106.76
553.0	0.40	298.50	553.0	1.0	-6.1	1.5	0.54	0.11	-96.52
643.0	0.70	280.00	642.9	1.3	-6.9	1.9	0.38	0.33	-20.56
732.0	1.40	194.60	731.9	0.3	-7.7	1.0	1.70	0.79	-95.96
822.0	1.50	179.80	821.9	-1.9	-8.0	-1.2	0.43	0.11	-16.44
911.0	0.30	74.20	910.9	-3.0	-7.8	-2.3	1.81	-1.35	-118.65

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Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM 5000.1 Single User Db

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
978.0	1.40	13.20	977.9	-2.2	-7.4	-1.5	1.91	1.64	-91.04
1,132.0	3.60	352.40	1,131.7	4.4	-7.6	5.1	1.52	1.43	-13.51
1,222.0	4.10	311.10	1,221.5	9.3	-10.4	10.2	3.06	0.56	-45.89
1,311.0	6.10	291.10	1,310.2	13.1	-17.2	14.6	2.97	2.25	-22.47
1,400.0	7.50	274.50	1,398.6	15.3	-27.5	17.6	2.70	1.57	-18.65
1,490.0	6.90	264.40	1,487.9	15.2	-38.7	18.6	1.55	-0.67	-11.22
1,579.0	7.00	261.20	1,576.2	13.9	-49.4	18.2	0.45	0.11	-3.60
1,669.0	8.90	264.20	1,665.3	12.3	-61.7	17.7	2.16	2.11	3.33
1,758.0	9.90	265.90	1,753.2	11.1	-76.2	17.7	1.17	1.12	1.91
1,848.0	8.50	266.30	1,842.0	10.1	-90.6	18.0	1.56	-1.56	0.44
1,937.0	8.30	267.70	1,930.0	9.4	-103.5	18.5	0.32	-0.22	1.57
2,027.0	9.00	267.70	2,019.0	8.9	-117.1	19.1	0.78	0.78	0.00
2,116.0	9.10	266.80	2,106.9	8.2	-131.0	19.7	0.19	0.11	-1.01
2,206.0	8.90	268.00	2,195.8	7.6	-145.1	20.3	0.30	-0.22	1.33
2,295.0	8.60	267.00	2,283.8	7.0	-158.6	20.9	0.38	-0.34	-1.12
2,385.0	10.10	269.80	2,372.6	6.6	-173.2	21.8	1.74	1.67	3.11
2,474.0	9.50	270.90	2,460.3	6.7	-188.4	23.2	0.71	-0.67	1.24
2,564.0	8.90	270.90	2,549.1	6.9	-202.8	24.7	0.67	-0.67	0.00
2,653.0	8.20	271.60	2,637.1	7.2	-216.0	26.2	0.80	-0.79	0.79
2,743.0	9.10	268.60	2,726.1	7.2	-229.5	27.3	1.12	1.00	-3.33
2,832.0	9.10	265.40	2,814.0	6.5	-243.6	27.8	0.57	0.00	-3.60
2,921.0	8.60	264.40	2,901.9	5.3	-257.2	27.8	0.59	-0.56	-1.12
3,011.0	10.30	267.50	2,990.7	4.3	-272.0	28.1	1.97	1.89	3.44
3,100.0	9.80	269.10	3,078.3	3.8	-287.5	29.0	0.64	-0.56	1.80
3,190.0	9.90	267.70	3,167.0	3.4	-302.9	29.9	0.29	0.11	-1.56
3,279.0	10.50	266.80	3,254.6	2.6	-318.6	30.6	0.70	0.67	-1.01
3,369.0	9.90	268.60	3,343.2	1.9	-334.5	31.3	0.75	-0.67	2.00
3,458.0	8.90	268.80	3,431.0	1.6	-349.1	32.3	1.12	-1.12	0.22
3,548.0	7.70	269.10	3,520.0	1.4	-362.1	33.2	1.33	-1.33	0.33
3,637.0	7.60	269.50	3,608.2	1.2	-373.9	34.1	0.13	-0.11	0.45
3,726.0	6.90	268.90	3,696.5	1.1	-385.1	34.9	0.79	-0.79	-0.67
3,816.0	5.80	268.20	3,786.0	0.8	-395.1	35.5	1.23	-1.22	-0.78
3,906.0	4.70	266.60	3,875.6	0.5	-403.3	35.9	1.23	-1.22	-1.78
3,995.0	3.50	262.80	3,964.4	-0.1	-409.7	35.9	1.38	-1.35	-4.27
4,085.0	2.70	249.10	4,054.2	-1.2	-414.4	35.2	1.21	-0.89	-15.22
4,174.0	2.00	239.90	4,143.2	-2.7	-417.7	34.0	0.89	-0.79	-10.34
4,263.0	0.50	261.00	4,232.1	-3.6	-419.4	33.3	1.73	-1.69	23.71
4,398.0	0.70	241.50	4,367.1	-4.0	-420.7	32.9	0.21	0.15	-14.44
4,541.0	0.60	241.00	4,510.1	-4.8	-422.1	32.3	0.07	-0.07	-0.35
4,586.0	0.60	243.30	4,555.1	-5.0	-422.5	32.1	0.05	0.00	5.11
4,675.0	0.60	246.20	4,644.1	-5.4	-423.4	31.8	0.03	0.00	3.26
4,765.0	0.70	264.70	4,734.1	-5.7	-424.4	31.6	0.26	0.11	20.56
4,854.0	0.80	284.60	4,823.1	-5.6	-425.5	31.8	0.31	0.11	22.36
4,944.0	0.70	302.90	4,913.1	-5.1	-426.6	32.4	0.29	-0.11	20.33

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Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
5,033.0	0.80	296.90	5,002.1	-4.5	-427.6	33.0	0.14	0.11	-6.74
5,122.0	0.80	296.40	5,091.1	-4.0	-428.7	33.7	0.01	0.00	-0.56
5,212.0	0.70	283.50	5,181.1	-3.6	-429.8	34.2	0.22	-0.11	-14.33
5,301.0	0.80	273.10	5,270.1	-3.4	-430.9	34.5	0.19	0.11	-11.69
5,390.0	0.90	260.50	5,359.0	-3.5	-432.2	34.5	0.24	0.11	-14.16
5,480.0	0.70	295.80	5,449.0	-3.4	-433.4	34.7	0.58	-0.22	39.22
5,614.0	1.00	275.10	5,583.0	-2.9	-435.3	35.3	0.32	0.22	-15.45
5,748.0	1.00	280.00	5,717.0	-2.6	-437.7	35.9	0.06	0.00	3.66
5,883.0	0.70	289.30	5,852.0	-2.1	-439.6	36.5	0.24	-0.22	6.89
6,017.0	0.80	289.10	5,986.0	-1.6	-441.2	37.2	0.07	0.07	-0.15
6,106.0	0.70	283.20	6,075.0	-1.2	-442.4	37.6	0.14	-0.11	-6.63
6,241.0	0.90	273.90	6,210.0	-1.0	-444.2	38.1	0.18	0.15	-6.89
6,420.0	1.10	258.00	6,388.9	-1.2	-447.3	38.1	0.19	0.11	-8.88
6,598.0	1.10	255.20	6,566.9	-2.0	-450.6	37.6	0.03	0.00	-1.57
6,688.0	1.00	207.10	6,656.9	-2.9	-451.8	36.8	0.96	-0.11	-53.44
6,777.0	0.80	116.50	6,745.9	-3.9	-451.6	35.8	1.45	-0.22	-101.80
6,867.0	1.00	109.80	6,835.9	-4.5	-450.3	35.1	0.25	0.22	-7.44
6,956.0	1.10	120.70	6,924.8	-5.2	-448.9	34.3	0.25	0.11	12.25
7,046.0	1.10	123.70	7,014.8	-6.1	-447.4	33.3	0.06	0.00	3.33
7,135.0	0.90	75.60	7,103.8	-6.4	-446.0	32.8	0.94	-0.22	-54.04
7,225.0	0.90	70.10	7,193.8	-6.0	-444.7	33.1	0.10	0.00	-6.11
7,314.0	0.70	90.50	7,282.8	-5.7	-443.5	33.3	0.39	-0.22	22.92
7,404.0	0.70	113.40	7,372.8	-5.9	-442.4	32.9	0.31	0.00	25.44
7,493.0	0.90	132.50	7,461.8	-6.6	-441.4	32.2	0.37	0.22	21.46
7,582.0	0.40	237.80	7,550.8	-7.3	-441.1	31.5	1.21	-0.56	118.31
7,717.0	0.50	238.00	7,685.8	-7.8	-442.0	31.0	0.07	0.07	0.15
7,851.0	0.50	188.40	7,819.8	-8.7	-442.6	30.2	0.31	0.00	-37.01
7,985.0	1.10	187.90	7,953.8	-10.6	-442.9	28.4	0.45	0.45	-0.37
8,119.0	0.30	258.60	8,087.8	-11.9	-443.4	27.1	0.78	-0.60	52.76
8,253.0	0.40	294.10	8,221.7	-11.8	-444.2	27.3	0.17	0.07	26.49
8,387.0	0.30	292.30	8,355.7	-11.5	-444.9	27.7	0.08	-0.07	-1.34
8,522.0	0.70	263.80	8,490.7	-11.4	-446.1	27.8	0.34	0.30	-21.11
8,656.0	0.70	231.10	8,624.7	-12.0	-447.5	27.3	0.29	0.00	-24.40
8,741.0	1.70	227.30	8,709.7	-13.2	-448.8	26.3	1.18	1.18	-4.47
8,786.0	3.30	308.10	8,754.7	-12.9	-450.4	26.7	7.69	3.56	179.56
8,830.0	8.50	332.90	8,798.4	-9.2	-452.8	30.6	12.90	11.82	56.36
8,875.0	13.50	343.80	8,842.6	-1.2	-455.8	38.9	11.99	11.11	24.22
8,920.0	17.40	346.50	8,886.0	10.4	-458.9	50.7	8.81	8.67	6.00
8,965.0	22.30	345.60	8,928.3	25.2	-462.6	65.8	10.91	10.89	-2.00
9,009.0	26.80	348.40	8,968.3	43.0	-466.6	83.9	10.56	10.23	6.36
9,054.0	30.00	354.00	9,007.9	64.2	-469.8	105.2	9.25	7.11	12.44
9,099.0	33.00	355.60	9,046.2	87.6	-472.0	128.7	6.92	6.67	3.56
9,144.0	37.30	357.50	9,083.0	113.4	-473.5	154.6	9.86	9.56	4.22

Company:	Conoco Phillips	Local Co-ordinate Reference:	Well Buck Federal 17 #3H
Project:	Lea County, New Mexico	TVD Reference:	WELL @ 3192.0usft (Precision #827)
Site:	Sec 20, T26S, 32E	MD Reference:	WELL @ 3192.0usft (Precision #827)
Well:	Buck Federal 17 #3H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM 5000.1 Single User Db.

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
9,188.0	40.90	0.70	9,117.2	141.2	-473.9	182.3	9.38	8.18	7.27
9,233.0	46.30	1.00	9,149.7	172.2	-473.4	213.1	12.01	12.00	0.67
9,278.0	52.20	0.00	9,179.1	206.3	-473.2	247.0	13.22	13.11	-2.22
9,322.0	58.60	359.30	9,204.1	242.5	-473.4	283.1	14.60	14.55	-1.59
9,367.0	65.20	358.80	9,225.3	282.1	-474.0	322.7	14.70	14.67	-1.11
9,412.0	71.80	359.10	9,241.8	324.0	-474.8	364.4	14.68	14.67	0.67
9,457.0	78.70	0.30	9,253.2	367.5	-475.0	407.8	15.55	15.33	2.67
9,492.0	85.00	0.70	9,258.2	402.1	-474.7	442.2	18.04	18.00	1.14
9,544.0	92.30	1.00	9,259.4	454.0	-474.0	493.9	14.05	14.04	0.58
9,589.0	93.30	0.90	9,257.2	499.0	-473.2	538.6	2.23	2.22	-0.22
9,680.0	94.20	3.20	9,251.2	589.7	-470.0	628.7	2.71	0.99	2.53
9,771.0	93.30	3.70	9,245.3	680.4	-464.5	718.5	1.13	-0.99	0.55
9,862.0	90.80	4.20	9,242.0	771.1	-458.2	808.4	2.80	-2.75	0.55
9,952.0	91.00	4.90	9,240.6	860.8	-451.1	897.1	0.81	0.22	0.78
10,043.0	90.70	3.50	9,239.3	951.5	-444.4	986.9	1.57	-0.33	-1.54
10,134.0	89.90	0.30	9,238.8	1,042.5	-441.4	1,077.2	3.62	-0.88	-3.52
10,225.0	88.70	359.50	9,239.9	1,133.5	-441.6	1,167.9	1.58	-1.32	-0.88
10,315.0	87.50	359.60	9,242.9	1,223.4	-442.3	1,257.5	1.34	-1.33	0.11
10,406.0	91.10	0.70	9,244.0	1,314.4	-442.0	1,348.1	4.14	3.96	1.21
10,497.0	90.30	1.70	9,242.9	1,405.3	-440.1	1,438.6	1.41	-0.88	1.10
10,588.0	91.40	2.10	9,241.5	1,496.3	-437.1	1,528.9	1.29	1.21	0.44
10,678.0	90.90	2.10	9,239.7	1,586.2	-433.8	1,618.2	0.56	-0.56	0.00
10,769.0	91.40	359.50	9,237.9	1,677.2	-432.6	1,708.7	2.91	0.55	-2.86
10,860.0	90.40	359.80	9,236.5	1,768.2	-433.1	1,799.4	1.15	-1.10	0.33
10,950.0	90.10	358.80	9,236.1	1,858.1	-434.2	1,889.1	1.16	-0.33	-1.11
11,041.0	89.20	357.90	9,236.6	1,949.1	-436.8	1,979.9	1.40	-0.99	-0.99
11,132.0	90.10	358.90	9,237.2	2,040.1	-439.4	2,070.8	1.48	0.99	1.10
11,222.0	91.40	359.60	9,236.0	2,130.1	-440.5	2,160.5	1.64	1.44	0.78
11,313.0	92.00	357.50	9,233.3	2,221.0	-442.9	2,251.3	2.40	0.66	-2.31
11,404.0	90.00	357.00	9,231.7	2,311.9	-447.2	2,342.2	2.27	-2.20	-0.55
11,495.0	89.60	358.80	9,232.0	2,402.8	-450.5	2,433.1	2.03	-0.44	1.98
11,585.0	88.00	358.80	9,233.9	2,492.7	-452.4	2,522.9	1.78	-1.78	0.00
11,676.0	88.60	359.30	9,236.6	2,583.7	-453.9	2,613.6	0.86	0.66	0.55
11,767.0	89.30	359.10	9,238.3	2,674.7	-455.2	2,704.3	0.80	0.77	-0.22
11,857.0	90.70	359.80	9,238.3	2,764.7	-456.1	2,794.0	1.74	1.56	0.78
11,948.0	90.30	0.20	9,237.5	2,855.7	-456.1	2,884.7	0.62	-0.44	0.44
12,039.0	90.80	0.50	9,236.6	2,946.6	-455.5	2,975.3	0.64	0.55	0.33
12,130.0	89.90	0.30	9,236.1	3,037.6	-454.9	3,065.9	1.01	-0.99	-0.22
12,220.0	91.60	359.60	9,234.9	3,127.6	-455.0	3,155.5	2.04	1.89	-0.78
12,311.0	91.40	359.80	9,232.5	3,218.6	-455.4	3,246.2	0.31	-0.22	0.22
12,402.0	88.20	0.30	9,232.8	3,309.6	-455.4	3,336.8	3.56	-3.52	0.55
12,492.0	88.70	1.60	9,235.3	3,399.5	-453.9	3,426.3	1.55	0.56	1.44
12,583.0	89.10	1.00	9,237.0	3,490.5	-451.8	3,516.7	0.79	0.44	-0.66

Company:	Conoco Phillips	Local Co-ordinate Reference:	Well Buck Federal 17 #3H
Project:	Lea County, New Mexico	TVD Reference:	WELL @ 3192.0usft (Precision #827)
Site:	Sec 20, T26S, 32E	MD Reference:	WELL @ 3192.0usft (Precision #827)
Well:	Buck Federal 17 #3H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM 5000.1 Single User Db

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
12,674.0	90.40	1.70	9,237.4	3,581.5	-449.7	3,607.1	1.62	1.43	0.77
12,764.0	87.80	0.20	9,238.8	3,671.4	-448.2	3,696.6	3.34	-2.89	-1.67
12,855.0	88.40	1.00	9,241.8	3,762.4	-447.2	3,787.1	1.10	0.66	0.88
12,946.0	89.10	1.70	9,243.8	3,853.3	-445.1	3,877.5	1.09	0.77	0.77
13,037.0	89.50	2.30	9,244.9	3,944.3	-441.9	3,967.8	0.79	0.44	0.66
13,127.0	89.90	0.90	9,245.4	4,034.2	-439.4	4,057.2	1.62	0.44	-1.56
13,218.0	90.10	359.80	9,245.4	4,125.2	-438.8	4,147.8	1.23	0.22	-1.21
13,309.0	91.60	359.10	9,244.1	4,216.2	-439.7	4,238.5	1.82	1.65	-0.77
13,399.0	89.80	358.90	9,243.0	4,306.2	-441.3	4,328.3	2.01	-2.00	-0.22
13,490.0	88.60	358.80	9,244.2	4,397.2	-443.1	4,419.1	1.32	-1.32	-0.11
13,581.0	89.30	358.80	9,245.9	4,488.1	-445.0	4,509.9	0.77	0.77	0.00
13,671.0	90.10	359.30	9,246.4	4,578.1	-446.5	4,599.6	1.05	0.89	0.56
13,762.0	91.10	358.90	9,245.4	4,669.1	-447.9	4,690.4	1.18	1.10	-0.44
13,853.0	92.10	359.60	9,242.9	4,760.0	-449.1	4,781.1	1.34	1.10	0.77
13,944.0	92.50	359.50	9,239.2	4,851.0	-449.8	4,871.7	0.45	0.44	-0.11
13,989.0	92.90	359.60	9,237.1	4,895.9	-450.2	4,916.5	0.92	0.89	0.22
TD @ 14080' MD / 9232.5' TVD									
14,080.0	92.90	359.60	9,232.5	4,986.8	-450.8	5,007.1	0.00	0.00	0.00

Survey Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
169.0	169.0	0.1	-1.6	FIRST MWD SURVEY @ 169' MD / 169' TVD
14,080.0	9,232.5	4,986.8	-450.8	TD @ 14080' MD / 9232.5' TVD

Checked By: _____ Approved By: _____ Date: _____

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-8738
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811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720
District III
1000 Rio Brazos Road, Aztec, NM 87410
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District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3460

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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
☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-025-40900		² Pool Code 97838		³ Pool Name JENNINGS; UPPER BONE SPRING SHALE	
⁴ Property Code 39606		⁵ Property Name BUCK 17 FEDERAL COM			⁶ Well Number 3H
⁷ OGRID No. 217817		⁸ Operator Name ConocoPhillips Company			⁹ Elevation 3176'

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
B	20	26S	32E		10	NORTH	2625	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
C	17	26S	32E		350	NORTH	2203	WEST	LEA

¹² Dedicated Acres	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 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 Date: 08/06/2013	
	Ashley Bergen Printed Name	
	ashley.bergen@cop.com E-mail Address	
	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		