

DISTRICT I
1625 N. French Dr., Hobbs, N.M. 88240

State of New Mexico
Energy, Minerals & Natural Resources Department

Form C-102
Revised July 10, 2010

DISTRICT II
1301 W. Grand Avenue, Artesia, N.M. 88210

Submit one copy to appropriate
District Office

DISTRICT III
1000 Rio Brazos Rd., Aztec, N.M. 87410

OIL CONSERVATION DIVISION

1220 South St. Francis Dr.
Santa Fe, NM 87505

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

AS DRILLED PLAT

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-039-31089	² Pool Code 72319/71599	³ Pool Name BLANCO MESAVERDE / BASIN DAKOTA
⁴ Property Code 31739	⁵ Property Name SAN JUAN 28-7 UNIT	⁶ Well Number 217N
⁷ GRID No. 217817	⁸ Operator Name CONOCOPHILLIPS COMPANY	⁹ Elevation 6582'

¹⁰ Surface Location

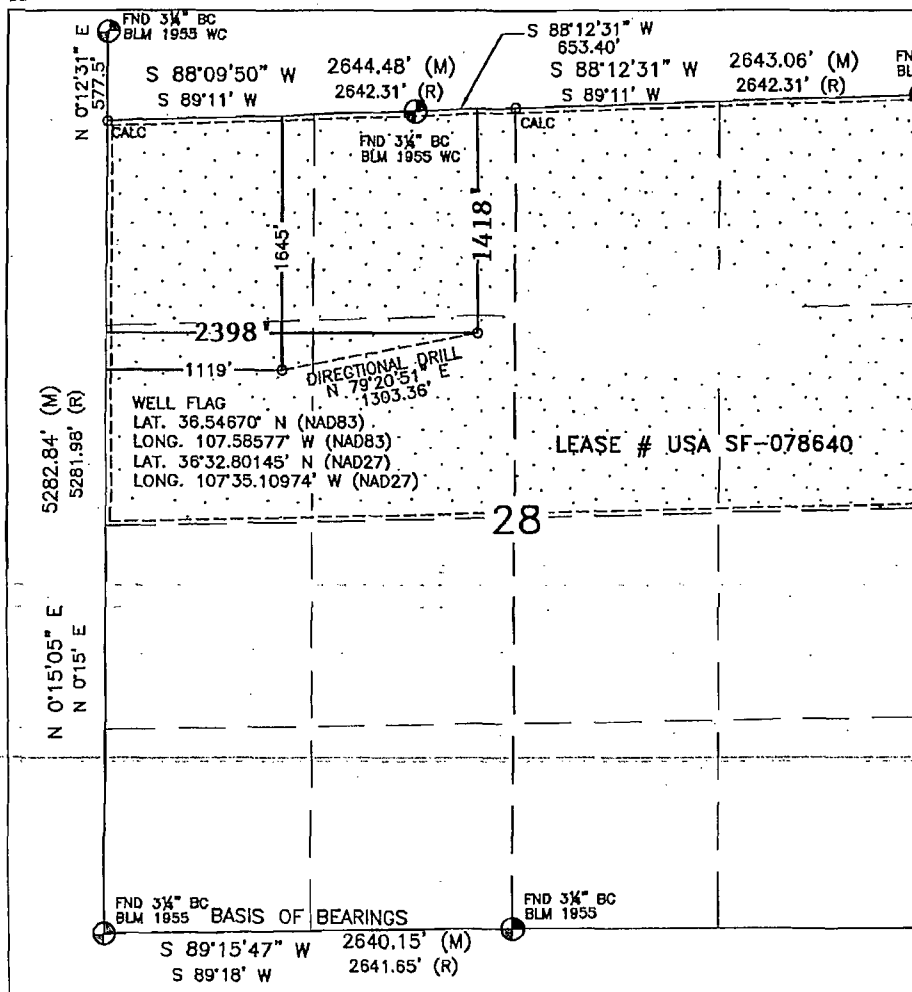
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
E	28	27N	7W		1645'	NORTH	1119'	WEST	RIO ARRIBA

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
F	28	27N	7W		1418'	NORTH	2398'	WEST	RIO ARRIBA

¹² Dedicated Acres 320.00 ACRES N/2	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No. RCVD DEC 6 '12 OIL CONS. DIV. DIST. 2
---	-------------------------------	----------------------------------	--

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.

Arleen Kellywood 12/5/12
Signature Date

Arleen Kellywood
Printed Name

arleen.r.kellywood@conocophillips.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.

JUNE 1, 2011

Date of Survey

Signature and Seal of Professional Surveyor:



DAVID RUSSELL

Certificate Number

10201

AY

PC

COP Deviation Report

SAN JUAN 28-7 UNIT #217N

RCVD DEC 6 '12
OIL CONS. DIV.
DIST. 3

Operator CONOCOPHILLIPS COMPANY	Legal WellName SAN JUAN 28-7 UNIT #217N	API / UWI 3003931089	County RIO ARRIBA	State/Province NEW MEXICO
Surface Legal Location 028-027N-007W-E	N/S Dist (ft) 1,645.00	N/S Ref FNL	E/W Dist (ft) 1,119.00	E/W Ref FWL

Survey Data

Date	MD (ftKB)	Incl (°)	Azm (°)	Method	Survey Company
9/13/2012	128.00	1.00		Inc-Drop	Mo Te Drilling Inc
9/13/2012	248.00	0.75		Inc-Drop	Mo Te Drilling Inc
9/13/2012	353.00	0.75		Inc-Drop	Mo Te Drilling Inc
9/22/2012	358.00	0.60	318.20	IncAzi-MWD	Scientific Drilling
9/22/2012	419.00	0.60	25.18	IncAzi-MWD	Scientific Drilling
9/22/2012	480.00	1.95	66.14	IncAzi-MWD	Scientific Drilling
9/22/2012	541.00	3.33	71.55	IncAzi-MWD	Scientific Drilling
9/22/2012	603.00	4.73	72.30	IncAzi-MWD	Scientific Drilling
9/22/2012	663.00	5.83	75.26	IncAzi-MWD	Scientific Drilling
9/22/2012	725.00	7.27	77.80	IncAzi-MWD	Scientific Drilling
9/22/2012	786.00	8.43	79.95	IncAzi-MWD	Scientific Drilling
9/22/2012	850.00	10.22	84.38	IncAzi-MWD	Scientific Drilling
9/22/2012	946.00	12.27	83.70	IncAzi-MWD	Scientific Drilling
9/22/2012	1,010.00	13.76	81.66	IncAzi-MWD	Scientific Drilling
9/22/2012	1,074.00	14.89	81.91	IncAzi-MWD	Scientific Drilling
9/22/2012	1,139.00	16.07	80.28	IncAzi-MWD	Scientific Drilling
9/22/2012	1,203.00	17.53	81.16	IncAzi-MWD	Scientific Drilling
9/22/2012	1,267.00	18.28	80.94	IncAzi-MWD	Scientific Drilling
9/22/2012	1,331.00	18.65	81.44	IncAzi-MWD	Scientific Drilling
9/22/2012	1,395.00	19.48	80.52	IncAzi-MWD	Scientific Drilling
9/23/2012	1,459.00	20.02	79.95	IncAzi-MWD	Scientific Drilling
9/23/2012	1,521.00	20.68	78.15	IncAzi-MWD	Scientific Drilling
9/23/2012	1,585.00	21.58	78.22	IncAzi-MWD	Scientific Drilling
9/23/2012	1,649.00	22.79	76.30	IncAzi-MWD	Scientific Drilling
9/23/2012	1,714.00	22.68	76.72	IncAzi-MWD	Scientific Drilling
9/23/2012	1,778.00	22.46	76.03	IncAzi-MWD	Scientific Drilling
9/23/2012	1,842.00	24.09	75.91	IncAzi-MWD	Scientific Drilling
9/23/2012	1,907.00	23.52	75.28	IncAzi-MWD	Scientific Drilling
9/23/2012	1,971.00	23.20	76.07	IncAzi-MWD	Scientific Drilling
9/23/2012	2,036.00	23.70	78.51	IncAzi-MWD	Scientific Drilling
9/23/2012	2,100.00	24.69	79.34	IncAzi-MWD	Scientific Drilling
9/23/2012	2,164.00	25.00	79.25	IncAzi-MWD	Scientific Drilling
9/23/2012	2,229.00	25.51	79.03	IncAzi-MWD	Scientific Drilling
9/23/2012	2,293.00	26.23	78.73	IncAzi-MWD	Scientific Drilling
9/23/2012	2,358.00	26.24	80.43	IncAzi-MWD	Scientific Drilling
9/23/2012	2,422.00	24.71	80.92	IncAzi-MWD	Scientific Drilling

I, the undersigned, certify that I acting in my capacity as _____ for ConocoPhillips Company, am authorized by said Company to make this report; and that said report was prepared under my supervision and directions, and that the facts stated herein are true to the best of my knowledge and belief.

Subscribed and sworn to me this _____

Notary Public in and for San Juan County, New Mexico

My Commission expires _____

COP Deviation Report

SAN JUAN 28-7 UNIT #217N

Survey Data						
Date	MD (RKB)	Incl (°)	Azm (°)	Method	Survey Company	
9/23/2012	2,487.00	24.08	80.94	IncAzi-MWD	Scientific Drilling	
9/23/2012	2,551.00	23.66	79.67	IncAzi-MWD	Scientific Drilling	
9/23/2012	2,616.00	22.79	78.74	IncAzi-MWD	Scientific Drilling	
9/23/2012	2,680.00	22.25	79.89	IncAzi-MWD	Scientific Drilling	
9/23/2012	2,746.00	21.64	79.20	IncAzi-MWD	Scientific Drilling	
9/23/2012	2,810.00	21.40	78.95	IncAzi-MWD	Scientific Drilling	
9/23/2012	2,875.00	20.62	78.90	IncAzi-MWD	Scientific Drilling	
9/23/2012	2,939.00	19.78	78.52	IncAzi-MWD	Scientific Drilling	
9/23/2012	3,004.00	19.69	78.97	IncAzi-MWD	Scientific Drilling	
9/23/2012	3,068.00	19.97	79.84	IncAzi-MWD	Scientific Drilling	
9/23/2012	3,133.00	21.91	80.44	IncAzi-MWD	Scientific Drilling	
9/23/2012	3,197.00	21.51	81.39	IncAzi-MWD	Scientific Drilling	
9/23/2012	3,262.00	20.80	81.56	IncAzi-MWD	Scientific Drilling	
9/23/2012	3,326.00	20.38	81.82	IncAzi-MWD	Scientific Drilling	
9/23/2012	3,391.00	19.96	82.18	IncAzi-MWD	Scientific Drilling	
9/23/2012	3,455.00	19.84	81.03	IncAzi-MWD	Scientific Drilling	
9/23/2012	3,520.00	20.15	81.05	IncAzi-MWD	Scientific Drilling	
9/23/2012	3,584.00	20.85	80.91	IncAzi-MWD	Scientific Drilling	
9/24/2012	3,649.00	21.45	81.13	IncAzi-MWD	Scientific Drilling	
9/24/2012	3,713.00	22.45	81.73	IncAzi-MWD	Scientific Drilling	
9/24/2012	3,778.00	23.89	80.68	IncAzi-MWD	Scientific Drilling	
9/24/2012	3,842.00	23.73	81.28	IncAzi-MWD	Scientific Drilling	
9/24/2012	3,907.00	21.47	80.87	IncAzi-MWD	Scientific Drilling	
9/24/2012	3,971.00	19.07	80.16	IncAzi-MWD	Scientific Drilling	
9/24/2012	4,036.00	17.16	78.76	IncAzi-MWD	Scientific Drilling	
9/24/2012	4,100.00	16.52	78.04	IncAzi-MWD	Scientific Drilling	
9/24/2012	4,165.00	15.68	78.83	IncAzi-MWD	Scientific Drilling	
9/24/2012	4,230.00	14.15	78.10	IncAzi-MWD	Scientific Drilling	
9/24/2012	4,294.00	11.78	79.46	IncAzi-MWD	Scientific Drilling	
9/24/2012	4,359.00	10.28	83.93	IncAzi-MWD	Scientific Drilling	
9/24/2012	4,423.00	9.18	88.76	IncAzi-MWD	Scientific Drilling	
9/24/2012	4,488.00	7.25	89.35	IncAzi-MWD	Scientific Drilling	
9/24/2012	4,552.00	5.61	91.16	IncAzi-MWD	Scientific Drilling	
9/24/2012	4,616.00	3.97	95.19	IncAzi-MWD	Scientific Drilling	
9/24/2012	4,681.00	2.62	98.32	IncAzi-MWD	Scientific Drilling	
9/24/2012	4,745.00	1.34	114.74	IncAzi-MWD	Scientific Drilling	
9/24/2012	4,810.00	0.74	149.65	IncAzi-MWD	Scientific Drilling	
9/24/2012	4,874.00	0.67	146.29	IncAzi-MWD	Scientific Drilling	
9/24/2012	4,939.00	0.81	170.12	IncAzi-MWD	Scientific Drilling	

I, the undersigned, certify that I acting in my capacity as _____ for ConocoPhillips Company, am authorized by said Company to make this report; and that said report was prepared under my supervision and directions, and that the facts stated herein are true to the best of my knowledge and belief.

Subscribed and sworn to me this _____

Notary Public in and for San Juan County, New Mexico

My Commission expires _____

COP Deviation Report
SAN JUAN 28-7 UNIT #217N

Survey Data

Date	MD (ftKB)	Incl (°)	Azm (°)	Method	Survey Company
9/24/2012	5,017.00	0.45	176.12	IncAzi-MWD	Scientific Drilling
9/24/2012	5,075.00	0.18	180.58	Projection	Scientific Drilling
9/27/2012	5,325.00	0.50		Inc-MWD	Aztec Well Servicing Co Inc
9/27/2012	5,825.00	0.50		Inc-MWD	Aztec Well Servicing Co Inc
9/28/2012	6,300.00	0.50		Inc-MWD	Aztec Well Servicing Co Inc
9/29/2012	6,800.00	0.50		Inc-MWD	Aztec Well Servicing Co Inc
9/29/2012	7,300.00	1.00		Inc-MWD	Aztec Well Servicing Co Inc
9/30/2012	7,695.00	0.50		Inc-MWD	Aztec Well Servicing Co Inc
9/30/2012	7,695.00	1.00		Inc-Drop	Aztec Well Servicing Co Inc

I, the undersigned, certify that I acting in my capacity as Drilling Engineer for ConocoPhillips Company, am authorized by said Company to make this report; and that said report was prepared under my supervision and directions, and that the facts stated herein are true to the best of my knowledge and belief.

Cara B Goff 12/5/12

Subscribed and sworn to me this Dec 5, 2012

Queen Kellywood

Notary Public in and for San Juan County, New Mexico

My Commission expires May 26, 2015

RCVD DEC 6 '12
OIL CONS. DIV.
DIST. 3

ConocoPhillips

SJB (NM Central)

SEC 28-T27N-R7W

San Juan 28-7 Unit 217N

OH

API-30-039-31089

Design: OH

Standard Survey Report

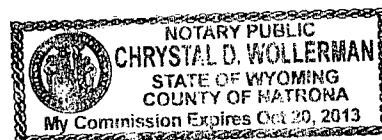
01 October, 2012

This survey is correct to the best of my knowledge and is supported by actual field data.

Notarized this date 1st of October, 2012.

Chrystal D. Wollerman

Notary Signature
County of Natrona
State of Wyoming





Project: SJB (NM Central)
Site: SEC 28-T27N-R7W
Well: San Juan 28-7 Unit 217N
Wellbore: OH
Design: OH



Scientific Drilling

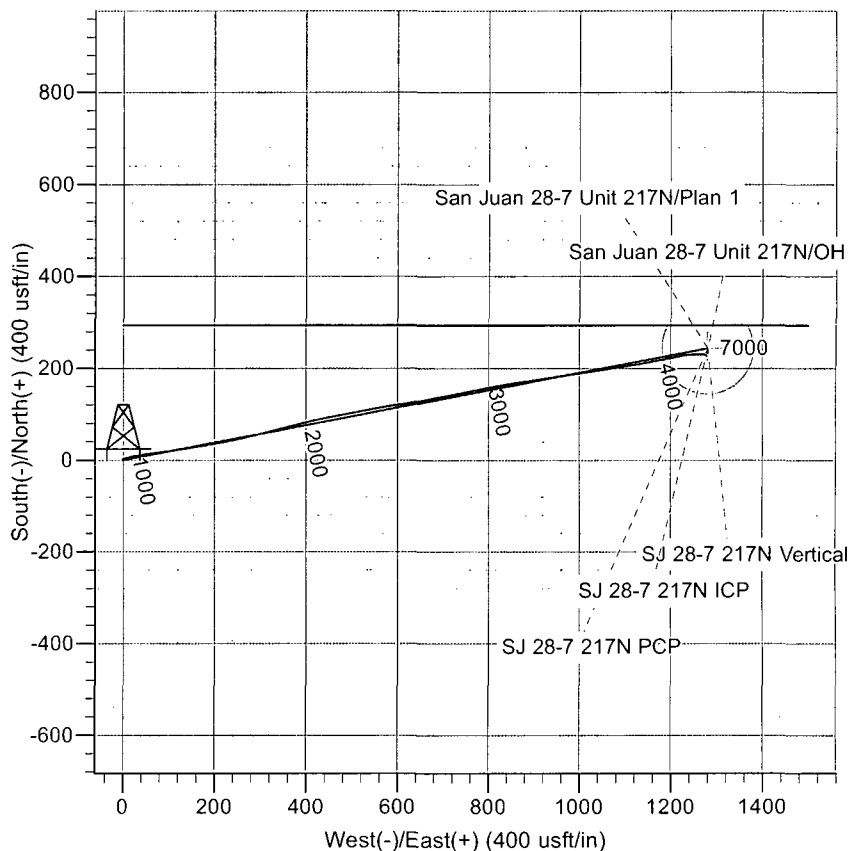
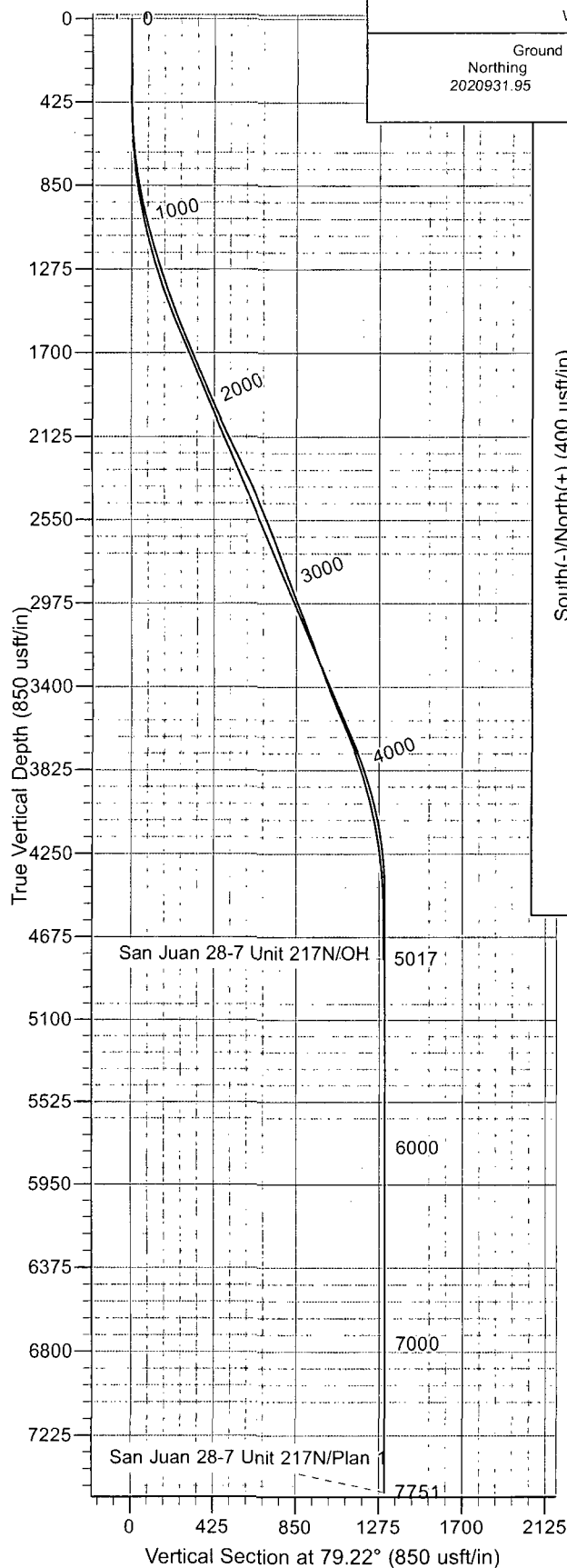
WELL DETAILS: San Juan 28-7 Unit 217N

Ground Level: GL 6581' & KB 15' @ 6596.0usft (AWS 920)
Northing 2020931.95 Easting 107806.24 Latitude 36° 32' 48.087 N Longitude 107° 35' 6.584 W



Azimuths to True North
Magnetic North: 9.69°

Magnetic Field
Strength: 50472.6snT
Dip Angle: 63.28°
Date: 2012/09/17
Model: BGGM2012



REFERENCE INFORMATION

Co-ordinate (N/E) Reference: Well San Juan 28-7 Unit 217N, True North
Vertical (TVD) Reference: GL 6581' & KB 15' @ 6596.0usft (AWS 920)
Section (VS) Reference: Slot - (0.0N, 0.0E)
Measured Depth Reference: GL 6581' & KB 15' @ 6596.0usft (AWS 920)
Calculation Method: Minimum Curvature
Local North: True

PROJECT DETAILS: SJB (NM Central)
Geodetic System: US State Plane 1927 (Exact solution)
Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1866
Zone: New Mexico Central 3002

Scientific Drilling

Survey Report

Company:	ConocoPhillips	Local Co-ordinate Reference:	Well San Juan 28-7 Unit 217N
Project:	SJB (NM Central)	TVD Reference:	GL 6581' & KB 15' @ 6596.0usft (AWS 920)
Site:	SEC 28-T27N-R7W	MD Reference:	GL 6581' & KB 15' @ 6596.0usft (AWS 920)
Well:	San Juan 28-7 Unit 217N	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	FarmingtonDatabase

Project	SJB (NM Central), New Mexico, S-Type MV/DK Wells		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		Using Well Reference Point
Map Zone:	New Mexico Central 3002		Using geodetic scale factor

Site	SEC 28-T27N-R7W		
Site Position:	Lat/Long	Northing:	2,020,885.36 usft
From:		Easting:	107,752.68 usft
Position Uncertainty:	15.0 usft	Slot Radius:	6-1/4 "
		Latitude:	36° 32' 47.619 N
		Longitude:	107° 35' 7.232 W
		Grid Convergence:	-0.80 °

Well	San Juan 28-7 Unit 217N, 1645' FNL 1119' FWL		
Well Position	+N/-S	0.0 usft	Northing:
	+E/-W	0.0 usft	Easting:
Position Uncertainty	0.0 usft	Wellhead Elevation:	usft
		Latitude:	36° 32' 48.087 N
		Longitude:	107° 35' 6.584 W
		Ground Level:	6,581.0 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength
	BGGM2012	2012/09/17	(°)	(°)	(nT)
			9.69	63.28	50,473

Design	OH				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction	
	(usft)	(usft)	(usft)	(°)	
	0.0	0.0	0.0	79.22	

Survey Program	Date	2012/10/01			
From	To	Survey (Wellbore)	Tool Name	Description	
(usft)	(usft)				
358.0	5,017.0	Survey #1 (OH)	MWD SDI	MWD - Standard ver 1.0.1	

Survey										
Measured	Inclination	Azimuth	Vertical	+N/-S	+E/-W	Vertical	Dogleg	Build	Turn	
Depth	(°)	(°)	Depth	(usft)	(usft)	Section	Rate	Rate	Rate	
(usft)			(usft)			(usft)	(°/100usft)	(°/100usft)	(°/100usft)	
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00	
358.0	0.60	318.20	358.0	1.4	-1.2	-1.0	0.17	0.17	0.00	
First SDI MWD Survey										
419.0	0.60	25.18	419.0	1.9	-1.3	-0.9	1.09	0.00	109.80	
480.0	1.95	66.14	480.0	2.6	-0.2	0.3	2.54	2.21	67.15	
541.0	3.33	71.55	540.9	3.6	2.4	3.0	2.30	2.26	8.87	
603.0	4.73	72.30	602.8	5.0	6.5	7.3	2.26	2.26	1.21	
663.0	5.83	75.26	662.5	6.5	11.8	12.8	1.89	1.83	4.93	
725.0	7.27	77.80	724.1	8.1	18.7	19.9	2.37	2.32	4.10	
786.0	8.43	79.95	784.5	9.7	26.9	28.2	1.96	1.90	3.52	
850.0	10.22	84.38	847.7	11.1	37.2	38.6	3.01	2.80	6.92	

Scientific Drilling

Survey Report

Company:	CónocoPhillips	Local Co-ordinate Reference:	Well San Juan 28-7 Unit 217N
Project:	SJB (NM Central)	TVD Reference:	GL 6581' & KB 15' @ 6596.0usft (AWS 920)
Site:	SEC 28-T27N-R7W	MD Reference:	GL 6581' & KB 15' @ 6596.0usft (AWS 920)
Well:	San Juan 28-7 Unit 217N	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	FarmingtonDatabase

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)
946.0	12.27	83.70	941.8	13.0	55.8	57.2	2.14	2.14	-0.71
1,010.0	13.76	81.66	1,004.2	14.9	70.1	71.6	2.44	2.33	-3.19
1,074.0	14.89	81.91	1,066.2	17.2	85.7	87.4	1.77	1.77	0.39
1,139.0	16.07	80.28	1,128.8	19.8	102.9	104.8	1.93	1.82	-2.51
1,203.0	17.53	81.16	1,190.1	22.8	121.1	123.3	2.32	2.28	1.38
1,267.0	18.28	80.94	1,251.0	25.9	140.6	142.9	1.18	1.17	-0.34
1,331.0	18.65	81.44	1,311.7	29.0	160.6	163.2	0.63	0.58	0.78
1,395.0	19.48	80.52	1,372.2	32.3	181.2	184.1	1.38	1.30	-1.44
1,459.0	20.02	79.95	1,432.4	35.9	202.6	205.7	0.90	0.84	-0.89
1,521.0	20.68	78.15	1,490.6	40.0	223.7	227.3	1.47	1.06	-2.90
1,585.0	21.58	78.22	1,550.2	44.8	246.3	250.3	1.41	1.41	0.11
1,649.0	22.79	76.30	1,609.5	50.1	269.9	274.5	2.20	1.89	-3.00
1,714.0	22.68	76.72	1,669.5	56.0	294.3	299.6	0.30	-0.17	0.65
1,778.0	22.46	76.03	1,728.6	61.7	318.2	324.1	0.54	-0.34	-1.08
1,842.0	24.09	75.91	1,787.3	67.9	342.7	349.4	2.55	2.55	-0.19
1,907.0	23.52	75.28	1,846.8	74.4	368.1	375.5	0.96	-0.88	-0.97
1,971.0	23.20	76.07	1,905.6	80.7	392.7	400.9	0.70	-0.50	1.23
2,036.0	23.70	78.51	1,965.2	86.4	417.9	426.7	1.68	0.77	3.75
2,100.0	24.69	79.34	2,023.6	91.4	443.7	452.9	1.64	1.55	1.30
2,164.0	25.00	79.25	2,081.7	96.4	470.1	479.8	0.49	0.48	-0.14
2,229.0	25.51	79.03	2,140.4	101.6	497.3	507.6	0.80	0.78	-0.34
2,293.0	26.23	78.73	2,198.0	107.0	524.7	535.5	1.14	1.13	-0.47
2,358.0	26.24	80.43	2,256.3	112.2	553.0	564.2	1.16	0.02	2.62
2,422.0	24.71	80.92	2,314.1	116.7	580.1	591.7	2.41	-2.39	0.77
2,487.0	24.08	80.94	2,373.3	120.9	606.7	618.6	0.97	-0.97	0.03
2,551.0	23.66	79.67	2,431.8	125.3	632.2	644.5	1.04	-0.66	-1.98
2,616.0	22.79	78.74	2,491.6	130.1	657.4	670.1	1.45	-1.34	-1.43
2,680.0	22.25	79.89	2,550.7	134.6	681.5	694.6	1.09	-0.84	1.80
2,746.0	21.64	79.20	2,611.9	139.1	705.7	719.3	1.00	-0.92	-1.05
2,810.0	21.40	78.95	2,671.4	143.5	728.8	742.7	0.40	-0.38	-0.39
2,875.0	20.62	78.90	2,732.1	148.0	751.6	766.0	1.20	-1.20	-0.08
2,939.0	19.78	78.52	2,792.2	152.3	773.3	788.1	1.33	-1.31	-0.59
3,004.0	19.69	78.97	2,853.4	156.6	794.8	810.1	0.27	-0.14	0.69
3,068.0	19.97	79.84	2,913.6	160.6	816.2	831.8	0.64	0.44	1.36
3,133.0	21.91	80.44	2,974.3	164.6	839.1	855.0	3.00	2.98	0.92
3,197.0	21.51	81.39	3,033.7	168.3	862.4	878.7	0.83	-0.63	1.48
3,262.0	20.80	81.56	3,094.4	171.8	885.6	902.1	1.10	-1.09	0.26
3,326.0	20.38	81.82	3,154.3	175.1	907.9	924.6	0.67	-0.66	0.41
3,391.0	19.96	82.18	3,215.3	178.2	930.1	947.0	0.67	-0.65	0.55
3,455.0	19.84	81.03	3,275.5	181.3	951.6	968.8	0.64	-0.19	-1.80
3,520.0	20.15	81.05	3,336.5	184.8	973.6	991.0	0.48	0.48	0.03
3,584.0	20.85	80.91	3,396.5	188.3	995.7	1,013.4	1.10	1.09	-0.22
3,649.0	21.45	81.13	3,457.1	192.0	1,018.9	1,036.8	0.93	0.92	0.34

Scientific Drilling

Survey Report

Company:	ConocoPhillips	Local Co-ordinate Reference:	Well San Juan 28-7 Unit 217N
Project:	SJB (NM Central)	TVD Reference:	GL 6581' & KB 15' @ 6596.0usft (AWS 920)
Site:	SEC 28-T27N-R7W	MD Reference:	GL 6581' & KB 15' @ 6596.0usft (AWS 920)
Well:	San Juan 28-7 Unit 217N	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	FarmingtonDatabase

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)	
3,713.0	22.45	81.73	3,516.5	195.5	1,042.6	1,060.7	1.60	1.56	0.94	
3,778.0	23.89	80.68	3,576.2	199.5	1,067.8	1,086.3	2.30	2.22	-1.62	
3,842.0	23.73	81.28	3,634.8	203.5	1,093.3	1,112.1	0.45	-0.25	0.94	
3,907.0	21.47	80.87	3,694.8	207.4	1,118.0	1,137.1	3.49	-3.48	-0.63	
3,971.0	19.07	80.16	3,754.8	211.0	1,139.9	1,159.2	3.77	-3.75	-1.11	
4,036.0	17.16	78.76	3,816.6	214.7	1,159.8	1,179.4	3.01	-2.94	-2.15	
4,100.0	16.52	78.04	3,877.8	218.4	1,177.9	1,198.0	1.05	-1.00	-1.13	
4,165.0	15.68	78.83	3,940.3	222.1	1,195.6	1,216.0	1.34	-1.29	1.22	
4,230.0	14.15	78.10	4,003.1	225.4	1,212.0	1,232.7	2.37	-2.35	-1.12	
4,294.0	11.78	79.46	4,065.5	228.2	1,226.0	1,247.1	3.73	-3.70	2.13	
4,359.0	10.28	83.93	4,129.3	230.0	1,238.3	1,259.5	2.65	-2.31	6.88	
4,423.0	9.18	88.76	4,192.3	230.7	1,249.1	1,270.2	2.14	-1.72	7.55	
4,488.0	7.25	89.35	4,256.7	230.9	1,258.4	1,279.4	2.97	-2.97	0.91	
4,552.0	5.61	91.16	4,320.3	230.9	1,265.6	1,286.4	2.58	-2.56	2.83	
4,616.0	3.97	95.19	4,384.0	230.6	1,270.9	1,291.6	2.61	-2.56	6.30	
4,681.0	2.62	98.32	4,448.9	230.2	1,274.6	1,295.2	2.09	-2.08	4.82	
4,745.0	1.34	114.74	4,512.9	229.7	1,276.7	1,297.2	2.17	-2.00	25.66	
4,810.0	0.74	149.65	4,577.9	229.0	1,277.6	1,297.9	1.30	-0.92	53.71	
4,874.0	0.67	146.29	4,641.9	228.3	1,278.1	1,298.2	0.13	-0.11	-5.25	
4,939.0	0.81	170.12	4,706.9	227.6	1,278.4	1,298.4	0.52	0.22	36.66	
5,017.0	0.45	176.12	4,784.9	226.7	1,278.5	1,298.3	0.47	-0.46	7.69	

Design Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
358.0	358.0	1.4	-1.2	First SDI MWD Survey	
5,017.0	4,784.9	226.7	1,278.5	Last SDI MWD Survey	

Checked By: _____ Approved By: _____ Date: _____