



COP Deviation Report
SAN JUAN 28-7 UNIT #111N

Operator CONOCOPHILLIPS COMPANY	Legal WellName SAN JUAN 28-7 UNIT #111N	API / UWI 3003930808	County RIO ARRIBA	State/Province NEW MEXICO
Surface Legal Location 020-027N-007W-D	N/S Dist (ft) 1,130 00	N/S Ref FNL	E/W Dist (ft) 925 00	E/W Ref FWL

Survey Data						
Date	MD (ftKB)	Incl (°)	Azm (°)	Method	Survey Company	
10/31/2011	128 00	0.25		Inc-WL	MOTE	
10/31/2011	228 00	0.25		Inc-WL	MOTE	
10/31/2011	326 00	0.25		Inc-WL	MOTE	
12/3/2011	358.00	0.14	211.58	IncAzi-MWD	Scientific Drilling	
12/3/2011	419.00	0.21	148.47	IncAzi-MWD	Scientific Drilling	
12/3/2011	481 00	0.28	131.36	IncAzi-MWD	Scientific Drilling	
12/3/2011	541 00	0.30	140.98	IncAzi-MWD	Scientific Drilling	
12/3/2011	603 00	0.54	137.34	IncAzi-MWD	Scientific Drilling	
12/3/2011	665 00	0.77	134.78	IncAzi-MWD	Scientific Drilling	
12/3/2011	727 00	1.18	117.02	IncAzi-MWD	Scientific Drilling	
12/3/2011	788 00	1.27	114.38	IncAzi-MWD	Scientific Drilling	
12/3/2011	819 00	1.31	119.36	IncAzi-MWD	Scientific Drilling	
12/3/2011	881 00	1.85	129.13	IncAzi-MWD	Scientific Drilling	
12/4/2011	943 00	2.95	131.68	IncAzi-MWD	Scientific Drilling	
12/4/2011	1,008 00	4.26	132.96	IncAzi-MWD	Scientific Drilling	
12/4/2011	1,071.00	5.88	132.11	IncAzi-MWD	Scientific Drilling	
12/4/2011	1,135.00	7.26	131.41	IncAzi-MWD	Scientific Drilling	
12/4/2011	1,198.00	8.40	133.64	IncAzi-MWD	Scientific Drilling	
12/4/2011	1,262.00	9.89	135.38	IncAzi-MWD	Scientific Drilling	
12/4/2011	1,325.00	10.39	135.71	IncAzi-MWD	Scientific Drilling	
12/4/2011	1,389.00	10.47	134.88	IncAzi-MWD	Scientific Drilling	
12/4/2011	1,452 00	10.17	134.77	IncAzi-MWD	Scientific Drilling	
12/5/2011	1,516 00	10.42	132.70	IncAzi-MWD	Scientific Drilling	
12/5/2011	1,579.00	11.07	135.14	IncAzi-MWD	Scientific Drilling	
12/5/2011	1,643 00	12.27	136.79	Inc-MWD	Scientific Drilling	
12/5/2011	1,707 00	13.26	136.45	IncAzi-MWD	Scientific Drilling	
12/5/2011	1,770 00	15.11	135.58	IncAzi-MWD	Scientific Drilling	
12/5/2011	1,834.00	16.46	134.08	IncAzi-MWD	Scientific Drilling	
12/5/2011	1,897.00	17.15	131.19	IncAzi-MWD	Scientific Drilling	
12/5/2011	1,961.00	18.37	127.58	IncAzi-MWD	Scientific Drilling	
12/5/2011	2,024.00	19.56	124.56	IncAzi-MWD	Scientific Drilling	
12/5/2011	2,088.00	20.96	124.76	IncAzi-MWD	Scientific Drilling	
12/5/2011	2,151.00	22.53	124.73	IncAzi-MWD	Scientific Drilling	
12/5/2011	2,215.00	24.04	125.37	IncAzi-MWD	Scientific Drilling	
12/5/2011	2,278.00	24.51	125.51	IncAzi-MWD	Scientific Drilling	
12/5/2011	2,342.00	24.99	124.53	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 _____

RCVD FEB 10 '12
 OIL CONS. DIV.
 DIST. 3

Notary Public in and for San Juan County, New Mexico

My Commission expires _____

COP Deviation Report

SAN JUAN 28-7 UNIT #111N

Survey Data

Date	MD (ftKB)	Incl (°)	Azm (°)	Method	Survey Company
12/5/2011	2,406 00	25.31	124.06	IncAzi-MWD	Scientific Drilling
12/5/2011	2,469 00	25.71	123.41	IncAzi-MWD	Scientific Drilling
12/5/2011	2,533 00	25.96	123 06	IncAzi-MWD	Scientific Drilling
12/5/2011	2,596 00	26.11	122.71	IncAzi-MWD	Scientific Drilling
12/5/2011	2,660.00	26.12	122 33	IncAzi-MWD	Scientific Drilling
12/5/2011	2,723 00	25.83	121 66	IncAzi-MWD	Scientific Drilling
12/5/2011	2,787 00	26.02	121.96	IncAzi-MWD	Scientific Drilling
12/5/2011	2,850 00	25.91	122.18	IncAzi-MWD	Scientific Drilling
12/5/2011	2,914.00	25.47	122 03	IncAzi-MWD	Scientific Drilling
12/5/2011	2,978 00	24.54	122.51	IncAzi-MWD	Scientific Drilling
12/5/2011	3,041 00	24.84	122.90	IncAzi-MWD	Scientific Drilling
12/6/2011	3,104 00	25.45	123.12	IncAzi-MWD	Scientific Drilling
12/6/2011	3,168 00	25.14	123 27	IncAzi-MWD	Scientific Drilling
12/6/2011	3,232 00	24.15	124.63	IncAzi-MWD	Scientific Drilling
12/6/2011	3,295 00	22.48	124.72	IncAzi-MWD	Scientific Drilling
12/6/2011	3,359 00	21.41	123 48	IncAzi-MWD	Scientific Drilling
12/6/2011	3,423 00	19.77	122 09	IncAzi-MWD	Scientific Drilling
12/6/2011	3,486.00	17.84	121.36	IncAzi-MWD	Scientific Drilling
12/6/2011	3,550.00	16.59	121 69	IncAzi-MWD	Scientific Drilling
12/6/2011	3,613 00	15.03	123 34	IncAzi-MWD	Scientific Drilling
12/6/2011	3,677.00	14.39	125.91	IncAzi-MWD	Scientific Drilling
12/6/2011	3,740 00	13 71	126.74	IncAzi-MWD	Scientific Drilling
12/6/2011	3,804 00	12.75	125.53	IncAzi-MWD	Scientific Drilling
12/6/2011	3,867.00	12 25	124.15	IncAzi-MWD	Scientific Drilling
12/6/2011	3,931.00	11 69	124.01	IncAzi-MWD	Scientific Drilling
12/6/2011	3,994.00	9.92	123.53	IncAzi-MWD	Scientific Drilling
12/6/2011	4,058.00	8.79	121.35	IncAzi-MWD	Scientific Drilling
12/6/2011	4,121.00	7 92	122.43	IncAzi-MWD	Scientific Drilling
12/6/2011	4,185.00	5 68	121.71	IncAzi-MWD	Scientific Drilling
12/6/2011	4,248.00	4 24	122.32	IncAzi-MWD	Scientific Drilling
12/6/2011	4,312.00	4.09	124.39	IncAzi-MWD	Scientific Drilling
12/6/2011	4,375.00	3 28	129.47	IncAzi-MWD	Scientific Drilling
12/6/2011	4,439 00	2 90	124.80	IncAzi-MWD	Scientific Drilling
12/6/2011	4,502.00	3 14	127.36	IncAzi-MWD	Scientific Drilling
12/6/2011	4,566.00	2 99	129.70	IncAzi-MWD	Scientific Drilling
12/7/2011	4,629.00	2 44	132.17	IncAzi-MWD	Scientific Drilling
12/7/2011	4,693.00	2.68	125.21	IncAzi-MWD	Scientific Drilling
12/7/2011	4,756.00	2.64	125.79	IncAzi-MWD	Scientific Drilling
12/7/2011	4,820.00	2.35	136.76	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 _____

Survey Data

Date	MD (ftKB)	Incl (°)	Azm (°)	Method	Survey Company
12/7/2011	4,883.00	2.16	131.33	IncAzi-MWD	Scientific Drilling
12/12/2011	5,048.00	2.00	0.00	Inc-MWD	Aztec Well Servicing Co Inc
12/12/2011	5,500.00	1.00	0.00	Inc-MWD	Aztec Well Servicing Co Inc
12/13/2011	6,000.00	1.00	0.00	Inc-MWD	Aztec Well Servicing Co Inc
12/13/2011	6,500.00	1.00	0.00	Inc-MWD	Aztec Well Servicing Co Inc
12/14/2011	7,000.00	1.00	0.00	Inc-MWD	Aztec Well Servicing Co Inc
12/16/2011	7,414.00	0.00	0.00	Inc-MWD	Aztec Well Servicing Co Inc
12/21/2011	7,614.00	3.50		Inc-WL	Phoenix Services LLC
12/16/2011	7,654.00	1.00	0.00	Inc-MWD	Aztec Well Servicing Co Inc

I, the undersigned, certify that I acting in my capacity as Darling Brexner 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.

[Signature]

Subscribed and sworn to me this 2/9/12

[Signature]

Notary Public in and for San Juan County, New Mexico

My Commission expires 7/28/14