

COP Deviation Report

SAN JUAN 32-5 UNIT #118H

RCVD DEC 28 '11
OIL CONS. DIV.
DIST. 2

Operator CONOCOPHILLIPS COMPANY	Legal WellName SAN JUAN 32-5 UNIT #118H	API / UWI 3004535292	County SAN JUAN	State/Province NEW MEXICO
Surface Legal Location 021-032N-006W-G	N/S Dist (ft) 2,140.00	N/S Ref FNL	E/W Dist (ft) 2,305.00	E/W Ref FEL

Survey Data				
Date	MD (ftKB)	Incl (°)	Method	Survey Company
10/14/2011	0.00	0.00	IncAzi-MWD	
10/14/2011	607.00	0.81	IncAzi-MWD	
10/14/2011	667.00	0.95	IncAzi-MWD	
10/14/2011	729.00	0.97	IncAzi-MWD	
10/14/2011	790.00	0.63	IncAzi-MWD	
10/14/2011	851.00	0.68	IncAzi-MWD	
10/14/2011	881.00	0.88	IncAzi-MWD	
10/14/2011	912.00	1.16	IncAzi-MWD	
10/14/2011	942.00	1.47	IncAzi-MWD	
10/14/2011	973.00	1.83	IncAzi-MWD	
10/14/2011	1,004.00	2.36	IncAzi-MWD	
10/14/2011	1,034.00	2.95	IncAzi-MWD	
10/14/2011	1,065.00	3.66	IncAzi-MWD	
10/14/2011	1,095.00	4.34	IncAzi-MWD	
10/14/2011	1,126.00	5.19	IncAzi-MWD	
10/14/2011	1,156.00	6.02	IncAzi-MWD	
10/14/2011	1,187.00	6.89	IncAzi-MWD	
10/14/2011	1,218.00	7.92	IncAzi-MWD	
10/14/2011	1,248.00	9.02	IncAzi-MWD	
10/14/2011	1,279.00	9.97	IncAzi-MWD	
10/14/2011	1,309.00	10.96	IncAzi-MWD	
10/14/2011	1,340.00	11.96	IncAzi-MWD	
10/14/2011	1,370.00	13.25	IncAzi-MWD	
10/14/2011	1,401.00	14.25	IncAzi-MWD	
10/14/2011	1,432.00	15.15	IncAzi-MWD	
10/14/2011	1,462.00	16.20	IncAzi-MWD	
10/14/2011	1,493.00	17.21	IncAzi-MWD	
10/14/2011	1,523.00	18.19	IncAzi-MWD	
10/14/2011	1,554.00	19.24	IncAzi-MWD	
10/14/2011	1,585.00	20.35	IncAzi-MWD	
10/14/2011	1,616.00	21.68	IncAzi-MWD	
10/14/2011	1,646.00	22.94	IncAzi-MWD	
10/14/2011	1,677.00	24.02	IncAzi-MWD	
10/14/2011	1,708.00	24.59	IncAzi-MWD	
10/14/2011	1,738.00	25.47	IncAzi-MWD	
10/14/2011	1,769.00	26.11	IncAzi-MWD	

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 _____

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COP Deviation Report

SAN JUAN 32-5 UNIT #118H

Survey Data

Date	MD (ftKB)	Incl (°)	Method	Survey Company
10/14/2011	1,799.00	27 00	IncAzi-MWD	
10/14/2011	1,831.00	27 70	IncAzi-MWD	
10/14/2011	1,863.00	28 82	IncAzi-MWD	
10/14/2011	1,894.00	29 88	IncAzi-MWD	
10/14/2011	1,926.00	30 86	IncAzi-MWD	
10/14/2011	1,957.00	31.73	IncAzi-MWD	
10/14/2011	1,989.00	32 66	IncAzi-MWD	
10/14/2011	2,021.00	32 92	IncAzi-MWD	
10/14/2011	2,052.00	33 25	IncAzi-MWD	
10/14/2011	2,084.00	33 98	IncAzi-MWD	
10/14/2011	2,116.00	34 39	IncAzi-MWD	
10/14/2011	2,147.00	34.61	IncAzi-MWD	
10/14/2011	2,179.00	35.50	IncAzi-MWD	
10/14/2011	2,211.00	36.32	IncAzi-MWD	
10/14/2011	2,243.00	37.60	IncAzi-MWD	
10/15/2011	2,274.00	38.73	IncAzi-MWD	
10/15/2011	2,306.00	39.67	IncAzi-MWD	
10/15/2011	2,337.00	40.95	IncAzi-MWD	
10/15/2011	2,369.00	41.83	IncAzi-MWD	
10/15/2011	2,401.00	42.92	IncAzi-MWD	
10/15/2011	2,433.00	44 19	IncAzi-MWD	
10/15/2011	2,465.00	45 53	IncAzi-MWD	
10/15/2011	2,496.00	46 99	IncAzi-MWD	
10/15/2011	2,528.00	48 57	IncAzi-MWD	
10/15/2011	2,559.00	49.66	IncAzi-MWD	
10/15/2011	2,591.00	50.89	IncAzi-MWD	
10/15/2011	2,622.00	51.96	IncAzi-MWD	
10/15/2011	2,654.00	52.86	IncAzi-MWD	
10/15/2011	2,686.00	53.76	IncAzi-MWD	
10/15/2011	2,717.00	54.85	IncAzi-MWD	
10/15/2011	2,749.00	55.99	IncAzi-MWD	
10/15/2011	2,780.00	56 49	IncAzi-MWD	
10/15/2011	2,812.00	57 76	IncAzi-MWD	
10/15/2011	2,844.00	58 81	IncAzi-MWD	
10/15/2011	2,876.00	60.13	IncAzi-MWD	
10/15/2011	2,907.00	61.05	IncAzi-MWD	
10/15/2011	2,938.00	62.26	IncAzi-MWD	
10/16/2011	2,970.00	63 12	IncAzi-MWD	
10/16/2011	3,001.00	63.91	IncAzi-MWD	

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 32-5 UNIT #118H

Survey Data					
Date	MD (ftKB)	Incl (%)		Method	Survey Company
10/16/2011	3,032.00	64.93		IncAzi-MWD	
10/16/2011	3,064.00	65.59		IncAzi-MWD	
10/16/2011	3,096.00	66.90		IncAzi-MWD	
10/16/2011	3,120.00	67.45		IncAzi-MWD	
10/16/2011	3,150.00	68.31		IncAzi-MWD	
10/16/2011	3,181.00	69.78		IncAzi-MWD	
10/16/2011	3,211.00	71.45		IncAzi-MWD	
10/16/2011	3,242.00	72.34		IncAzi-MWD	
10/16/2011	3,272.00	73.11		IncAzi-MWD	
10/16/2011	3,302.00	74.02		IncAzi-MWD	
10/16/2011	3,333.00	75.10		IncAzi-MWD	
10/17/2011	3,364.00	74.99		IncAzi-MWD	
10/17/2011	3,395.00	74.95		IncAzi-MWD	
10/17/2011	3,425.00	74.31		IncAzi-MWD	
10/17/2011	3,455.00	74.23		IncAzi-MWD	
10/17/2011	3,486.00	74.28		IncAzi-MWD	
10/17/2011	3,516.00	75.34		IncAzi-MWD	
10/17/2011	3,547.00	76.32		IncAzi-MWD	
10/17/2011	3,578.00	77.55		IncAzi-MWD	
10/17/2011	3,608.00	78.56		IncAzi-MWD	
10/17/2011	3,639.00	79.58		IncAzi-MWD	
10/17/2011	3,669.00	80.58		IncAzi-MWD	
10/17/2011	3,700.00	81.97		IncAzi-MWD	
10/17/2011	3,730.00	82.62		IncAzi-MWD	
10/17/2011	3,761.00	82.42		IncAzi-MWD	
10/17/2011	3,792.00	82.85		IncAzi-MWD	
10/17/2011	3,822.00	82.27		IncAzi-MWD	
10/17/2011	3,853.00	82.38		IncAzi-MWD	
10/17/2011	3,883.00	82.88		IncAzi-MWD	
10/17/2011	3,914.00	82.65		IncAzi-MWD	
10/17/2011	3,944.00	82.75		IncAzi-MWD	
10/17/2011	3,975.00	82.41		IncAzi-MWD	
10/17/2011	4,005.00	81.84		IncAzi-MWD	
10/17/2011	4,036.00	82.28		IncAzi-MWD	
10/17/2011	4,066.00	81.97		IncAzi-MWD	
10/17/2011	4,097.00	82.21		IncAzi-MWD	
10/17/2011	4,127.00	82.14		IncAzi-MWD	
10/17/2011	4,158.00	82.11		IncAzi-MWD	
10/17/2011	4,189.00	82.27		IncAzi-MWD	

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
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Survey Data

Date	MD (ftKB)	Incl. (°)	Method	Survey Company
10/17/2011	4,219.00	82.07	IncAzi-MWD	
10/17/2011	4,250.00	81.83	IncAzi-MWD	
10/17/2011	4,281.00	81.74	IncAzi-MWD	
10/17/2011	4,311.00	81.36	IncAzi-MWD	
10/18/2011	4,342.00	81.49	IncAzi-MWD	
10/18/2011	4,372.00	81.81	IncAzi-MWD	
10/18/2011	4,403.00	82.11	IncAzi-MWD	
10/18/2011	4,433.00	82.14	IncAzi-MWD	
10/18/2011	4,464.00	81.41	IncAzi-MWD	
10/18/2011	4,495.00	83.19	IncAzi-MWD	
10/17/2011	4,525.00	83.39	IncAzi-MWD	
10/17/2011	4,556.00	83.80	IncAzi-MWD	
10/17/2011	4,586.00	83.83	IncAzi-MWD	
10/17/2011	4,617.00	84.07	IncAzi-MWD	
10/17/2011	4,648.00	83.87	IncAzi-MWD	
10/17/2011	4,678.00	83.94	IncAzi-MWD	
10/17/2011	4,709.00	84.04	IncAzi-MWD	
10/17/2011	4,739.00	83.83	IncAzi-MWD	
10/17/2011	4,770.00	84.24	IncAzi-MWD	
10/17/2011	4,802.00	84.61	IncAzi-MWD	
10/17/2011	4,833.00	84.75	IncAzi-MWD	
10/17/2011	4,865.00	86.19	IncAzi-MWD	
10/17/2011	4,896.00	86.43	IncAzi-MWD	
10/17/2011	4,927.00	87.17	IncAzi-MWD	
10/17/2011	4,959.00	88.02	IncAzi-MWD	
10/17/2011	5,001.00	90.20	IncAzi-MWD	
10/25/2011	5,021.00	89.03	IncAzi-MWD	
10/25/2011	5,052.00	89.19	IncAzi-MWD	
10/25/2011	5,084.00	89.23	IncAzi-MWD	
10/25/2011	5,121.00	89.97	IncAzi-MWD	
10/25/2011	5,152.00	90.10	IncAzi-MWD	
10/25/2011	5,184.00	90.64	IncAzi-MWD	
10/25/2011	5,215.00	89.29	IncAzi-MWD	
10/25/2011	5,247.00	89.83	IncAzi-MWD	
10/25/2011	5,279.00	90.07	IncAzi-MWD	
10/25/2011	5,311.00	90.40	IncAzi-MWD	
10/25/2011	5,342.00	90.87	IncAzi-MWD	
10/25/2011	5,374.00	90.27	IncAzi-MWD	
10/25/2011	5,405.00	89.50	IncAzi-MWD	

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 32-5 UNIT #118H

Survey Data

Date	MD, (ftKB)	Incl. (°)	Method	Survey Company
10/25/2011	5,437.00	89.83	IncAzi-MWD	
10/25/2011	5,468.00	90.07	IncAzi-MWD	
10/25/2011	5,500.00	90.34	IncAzi-MWD	
10/25/2011	5,532.00	90.81	IncAzi-MWD	
10/25/2011	5,563.00	91.55	IncAzi-MWD	
10/25/2011	5,595.00	91.18	IncAzi-MWD	
10/25/2011	5,627.00	91.51	IncAzi-MWD	
10/25/2011	5,659.00	91.08	IncAzi-MWD	
10/25/2011	5,691.00	89.70	IncAzi-MWD	
10/25/2011	5,722.00	89.56	IncAzi-MWD	
10/25/2011	5,753.00	89.50	IncAzi-MWD	
10/25/2011	5,785.00	89.90	IncAzi-MWD	
10/25/2011	5,817.00	90.24	IncAzi-MWD	
10/25/2011	5,849.00	90.64	IncAzi-MWD	
10/25/2011	5,881.00	90.87	IncAzi-MWD	
10/25/2011	5,912.00	90.24	IncAzi-MWD	
10/25/2011	5,943.00	90.24	IncAzi-MWD	
10/25/2011	5,975.00	90.27	IncAzi-MWD	
10/25/2011	6,007.00	90.37	IncAzi-MWD	
10/25/2011	6,039.00	90.71	IncAzi-MWD	
10/25/2011	6,070.00	89.63	IncAzi-MWD	
10/26/2011	6,102.00	90.10	IncAzi-MWD	
10/26/2011	6,134.00	91.01	IncAzi-MWD	
10/26/2011	6,165.00	91.28	IncAzi-MWD	
10/26/2011	6,196.00	91.48	IncAzi-MWD	
10/26/2011	6,228.00	92.39	IncAzi-MWD	
10/26/2011	6,260.00	90.24	IncAzi-MWD	
10/26/2011	6,292.00	90.54	IncAzi-MWD	
10/26/2011	6,323.00	91.11	IncAzi-MWD	
10/26/2011	6,355.00	90.61	IncAzi-MWD	
10/26/2011	6,386.00	90.40	IncAzi-MWD	
10/26/2011	6,418.00	91.14	IncAzi-MWD	
10/26/2011	6,449.00	91.31	IncAzi-MWD	
10/26/2011	6,481.00	90.91	IncAzi-MWD	
10/26/2011	6,513.00	89.60	IncAzi-MWD	
10/26/2011	6,544.00	89.56	IncAzi-MWD	
10/26/2011	6,576.00	89.97	IncAzi-MWD	
10/26/2011	6,608.00	90.64	IncAzi-MWD	
10/26/2011	6,640.00	89.93	IncAzi-MWD	

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 (°)	Method	Survey Company
10/26/2011	6,671.00	90.27	IncAzi-MWD	
10/26/2011	6,703.00	90.44	IncAzi-MWD	
10/26/2011	6,735.00	90.91	IncAzi-MWD	
10/26/2011	6,766.00	91.55	IncAzi-MWD	
10/26/2011	6,798.00	91.55	IncAzi-MWD	
10/26/2011	6,830.00	91.38	IncAzi-MWD	
10/26/2011	6,861.00	91.85	IncAzi-MWD	
10/26/2011	6,893.00	92.39	IncAzi-MWD	
10/26/2011	6,924.00	93.06	IncAzi-MWD	
10/26/2011	6,956.00	92.32	IncAzi-MWD	
10/26/2011	6,988.00	92.66	IncAzi-MWD	
10/26/2011	7,019.00	91.58	IncAzi-MWD	
10/26/2011	7,050.00	91.48	IncAzi-MWD	
10/26/2011	7,082.00	92.15	IncAzi-MWD	
10/26/2011	7,114.00	91.78	IncAzi-MWD	
10/26/2011	7,146.00	92.29	IncAzi-MWD	
10/26/2011	7,177.00	90.87	IncAzi-MWD	
10/26/2011	7,208.00	91.08	IncAzi-MWD	
10/26/2011	7,239.00	91.11	IncAzi-MWD	
10/26/2011	7,269.00	91.68	IncAzi-MWD	
10/26/2011	7,300.00	90.91	IncAzi-MWD	
10/26/2011	7,330.00	91.21	IncAzi-MWD	
10/26/2011	7,361.00	89.70	IncAzi-MWD	
10/26/2011	7,392.00	89.87	IncAzi-MWD	
10/26/2011	7,422.00	90.64	IncAzi-MWD	
10/26/2011	7,453.00	91.13	IncAzi-MWD	
10/26/2011	7,484.00	89.56	IncAzi-MWD	
10/26/2011	7,514.00	88.82	IncAzi-MWD	
10/26/2011	7,545.00	89.06	IncAzi-MWD	
10/26/2011	7,575.00	89.49	IncAzi-MWD	
10/26/2011	7,606.00	90.27	IncAzi-MWD	
10/26/2011	7,636.00	89.13	IncAzi-MWD	
10/26/2011	7,667.00	89.33	IncAzi-MWD	
10/26/2011	7,698.00	88.18	IncAzi-MWD	
10/26/2011	7,728.00	88.15	IncAzi-MWD	
10/26/2011	7,759.00	88.82	IncAzi-MWD	
10/26/2011	7,789.00	88.82	IncAzi-MWD	
10/26/2011	7,820.00	89.60	IncAzi-MWD	
10/26/2011	7,851.00	89.26	IncAzi-MWD	

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 32-5 UNIT #118H

Survey Data

Date	MD (ftKB)	Incl (°)	Method	Survey Company
10/26/2011	7,881.00	89.43	IncAzi-MWD	
10/26/2011	7,912.00	89.97	IncAzi-MWD	
10/26/2011	7,943.00	90.24	IncAzi-MWD	
10/26/2011	7,973.00	90.10	IncAzi-MWD	
10/26/2011	8,003.00	90.17	IncAzi-MWD	
10/26/2011	8,034.00	90.57	IncAzi-MWD	
10/26/2011	8,064.00	91.01	IncAzi-MWD	
10/26/2011	8,095.00	91.65	IncAzi-MWD	
10/26/2011	8,126.00	91.28	IncAzi-MWD	
10/26/2011	8,156.00	91.72	IncAzi-MWD	
10/26/2011	8,187.00	90.47	IncAzi-MWD	
10/26/2011	8,217.00	89.29	IncAzi-MWD	
10/26/2011	8,248.00	89.56	IncAzi-MWD	
10/26/2011	8,278.00	89.83	IncAzi-MWD	
10/26/2011	8,309.00	90.07	IncAzi-MWD	
10/26/2011	8,339.00	89.60	IncAzi-MWD	
10/26/2011	8,371.00	90.03	IncAzi-MWD	
10/26/2011	8,402.00	89.97	IncAzi-MWD	
10/26/2011	8,432.00	89.97	IncAzi-MWD	
10/26/2011	8,463.00	90.74	IncAzi-MWD	
10/26/2011	8,493.00	90.87	IncAzi-MWD	
10/26/2011	8,524.00	91.75	IncAzi-MWD	
10/26/2011	8,554.00	90.17	IncAzi-MWD	
10/26/2011	8,585.00	90.47	IncAzi-MWD	
10/26/2011	8,615.00	90.50	IncAzi-MWD	
10/26/2011	8,646.00	91.01	IncAzi-MWD	
10/26/2011	8,677.00	90.34	IncAzi-MWD	
10/26/2011	8,707.00	90.84	IncAzi-MWD	
10/26/2011	8,738.00	89.09	IncAzi-MWD	
10/26/2011	8,768.00	88.72	IncAzi-MWD	
10/26/2011	8,799.00	89.19	IncAzi-MWD	
10/26/2011	8,829.00	89.80	IncAzi-MWD	
10/26/2011	8,860.00	90.34	IncAzi-MWD	
10/26/2011	8,891.00	89.63	IncAzi-MWD	
10/26/2011	8,921.00	89.63	IncAzi-MWD	
10/26/2011	8,968.00	89.43	IncAzi-MWD	
10/26/2011	9,018.00	89.43	Projection	

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

[Signature]

Subscribed and sworn to me this 12/21/11

Notary Public in and for San Juan County, New Mexico

My Commission expires 7/20/14