

ConocoPhillips

Directional Survey

SAN JUAN 32-7 UNIT #93M

30 046 33733

Wellbore Name Original Hole		Parent Wellbore Original Hole		Kick Off Depth (ftKB)		Vertical Section Direction (°)	
Date 10/11/2006		Definitive? No		Description RYAN		Proposed? No	
MD Tie In (ftKB) 0.00	TVDTie In (ftKB) 0.00	Inclination Tie In (°) 0.00		Azimuth Tie In (°) 0.00	NSTie In (ft)	EWTie In (ft)	

Survey Data										
Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Method	Survey Company
10/11/2006	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	MWD	RIG CREW
10/11/2006	261.00	0.90	58.30	260.99	1.67	1.08	1.74	0.34	MWD	RIG CREW
10/11/2006	352.00	2.30	58.30	351.95	3.74	2.41	3.91	1.54	MWD	RIG CREW
10/11/2006	443.00	5.10	68.20	442.75	8.88	4.87	9.22	3.14	MWD	RIG CREW
10/11/2006	534.00	7.60	78.40	533.19	18.34	7.59	18.87	3.00	MWD	RIG CREW
10/11/2006	626.00	10.20	85.70	624.08	32.28	9.42	32.95	3.08	MWD	RIG CREW
10/11/2006	716.00	12.80	90.30	712.27	50.13	9.97	50.87	3.06	MWD	RIG CREW
10/11/2006	809.00	14.20	92.40	802.69	71.82	9.44	72.57	1.59	MWD	RIG CREW
10/11/2006	902.00	15.80	92.40	892.52	95.88	8.43	96.62	1.72	MWD	RIG CREW
10/11/2006	997.00	18.60	89.70	983.27	123.93	7.96	124.70	3.06	MWD	RIG CREW
10/11/2006	1,093.00	18.30	89.60	1,074.33	154.24	8.15	155.08	0.31	MWD	RIG CREW
10/11/2006	1,189.00	18.40	91.00	1,165.45	184.41	7.99	185.30	0.47	MWD	RIG CREW
10/11/2006	1,283.00	18.50	91.70	1,254.62	214.13	7.29	215.04	0.26	MWD	RIG CREW
10/11/2006	1,376.00	18.30	91.40	1,342.87	243.46	6.50	244.39	0.24	MWD	RIG CREW
10/11/2006	1,470.00	17.50	89.60	1,432.32	272.31	6.23	273.27	1.03	MWD	RIG CREW
10/11/2006	1,564.00	16.90	90.00	1,522.11	300.04	6.33	301.07	0.65	MWD	RIG CREW
10/11/2006	1,658.00	17.10	91.00	1,612.00	327.48	6.09	328.55	0.38	MWD	RIG CREW
10/11/2006	1,753.00	18.20	90.00	1,702.53	356.24	5.85	357.35	1.20	MWD	RIG CREW
10/11/2006	1,848.00	17.40	88.90	1,792.98	385.20	6.12	386.39	0.91	MWD	RIG CREW
10/11/2006	1,942.00	18.50	88.90	1,882.41	414.07	6.68	415.35	1.17	MWD	RIG CREW
10/11/2006	2,038.00	17.50	89.60	1,973.71	443.64	7.07	445.01	1.07	MWD	RIG CREW
10/11/2006	2,133.00	17.90	88.20	2,064.21	472.42	7.63	473.89	0.61	MWD	RIG CREW
10/11/2006	2,228.00	16.50	87.50	2,154.96	500.37	8.67	501.96	1.49	MWD	RIG CREW
10/11/2006	2,320.00	15.60	88.60	2,243.37	525.68	9.55	527.38	1.03	MWD	RIG CREW
10/11/2006	2,415.00	15.90	88.90	2,334.80	551.37	10.11	553.16	0.33	MWD	RIG CREW
10/11/2006	2,506.00	16.10	88.60	2,422.28	576.36	10.66	578.24	0.24	MWD	RIG CREW
10/11/2006	2,599.00	15.20	86.80	2,511.83	601.31	11.65	603.30	1.10	MWD	RIG CREW
10/11/2006	2,694.00	13.80	86.80	2,603.80	624.93	12.98	627.05	1.47	MWD	RIG CREW
10/13/2006	2,789.00	12.90	87.10	2,696.24	646.71	14.15	648.96	0.95	MWD	RIG CREW
10/13/2006	2,883.00	12.70	85.70	2,787.90	667.37	15.45	669.74	0.39	MWD	RIG CREW
10/13/2006	2,976.00	11.60	86.10	2,878.81	686.76	16.86	689.26	1.19	MWD	RIG CREW
10/13/2006	3,071.00	9.70	94.90	2,972.18	704.23	16.82	706.77	2.63	MWD	RIG CREW
10/13/2006	3,163.00	6.70	92.80	3,063.23	717.35	15.90	719.85	3.28	MWD	RIG CREW
10/13/2006	3,265.00	3.40	121.60	3,164.83	725.97	14.02	728.38	3.98	MWD	RIG CREW
10/13/2006	3,315.00	1.60	121.60	3,214.78	727.90	12.88	730.23	3.60	MWD	RIG CREW
10/13/2006	3,765.00	2.25	121.60	3,664.53	741.26	4.96	743.11	0.14	MWD	RIG CREW
10/13/2006	4,063.00	0.75	121.60	3,962.42	748.15	0.87	749.75	0.50	MWD	RIG CREW
1/24/2007	8,425.00	2.00	121.60	8,323.07	840.64	-53.97	838.90	0.03	MWD	RIG CREW

Surface 1965/N 10/W
BHL 2019/N 849/W

RCVD JAN 25 2007

OIL CONS. DIV.

DIST. 3

ConocoPhillips**COP Deviation Report****SAN JUAN 32-7 UNIT #93M**

Operator CONOCOPHILLIPS	Legal Well Name SAN JUAN 32-7 UNIT #93M	API / UWI 300453373300	County SAN JUAN	State/Province NEW MEXICO
Surface Legal Location NMPM-32N-07W-36-E		N/S Dist (ft) 1,965.00	N/S Ref N	E/W Dist (ft) 10.00 E/W Ref W

Survey Data					
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10/11/2006	443.00	5.10	MWD	RIG CREW	
10/11/2006	534.00	7.60	MWD	RIG CREW	
10/11/2006	626.00	10.20	MWD	RIG CREW	
10/11/2006	716.00	12.80	MWD	RIG CREW	
10/11/2006	809.00	14.20	MWD	RIG CREW	
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10/11/2006	1,658.00	17.10	MWD	RIG CREW	
10/11/2006	1,753.00	18.20	MWD	RIG CREW	
10/11/2006	1,848.00	17.40	MWD	RIG CREW	
10/11/2006	1,942.00	18.50	MWD	RIG CREW	
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10/11/2006	2,599.00	15.20	MWD	RIG CREW	
10/11/2006	2,694.00	13.80	MWD	RIG CREW	
10/13/2006	2,789.00	12.90	MWD	RIG CREW	
10/13/2006	2,883.00	12.70	MWD	RIG CREW	
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10/13/2006	3,071.00	9.70	MWD	RIG CREW	
10/13/2006	3,163.00	6.70	MWD	RIG CREW	
10/13/2006	3,265.00	3.40	MWD	RIG CREW	
10/13/2006	3,315.00	1.60	MWD	RIG CREW	
10/13/2006	3,765.00	2.25	MWD	RIG CREW	

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 1-25-07


Notary Public in and for San Juan County, New Mexico

My Commission expires 1-10-2011

Survey Data

Date	MD (ftKB)	Incl (°)	Method	Survey Company
10/13/2006	4,063.00	0.75	MWD	RIG CREW
1/24/2007	8,425.00	2.00	MWD	RIG CREW

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 1-25-07

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