

COP Deviation Report

JOHNS #1B

Operator BURLINGTON RESOURCES OIL & GAS COMPANY LP	Legal WellName JOHNS #1B	API / UWI 3004535253	County SAN JUAN	State/Province NEW MEXICO
Surface Legal Location 019-032N-011W-G	N/S Dist (ft) 1,690.00	N/S Ref FNL	E/W Dist (ft) 2,205.00	E/W Ref FEL

Survey Data						
Date	MD (ftKB)	Incl (°)	Azm (°)	Method	Survey Company	
4/13/2012	0.00	0.00	0.00	IncAzi-MWD	Scientific Drilling	
4/5/2012	128.00	1.25		Inc-Drop	MO-TE DRILLING INC.	
4/5/2012	248.00	1.00		Inc-Drop	MO-TE DRILLING INC.	
4/5/2012	360.00	1.25		Inc-Drop	MO-TE DRILLING INC.	
4/13/2012	422.00	2.09	326.52	IncAzi-MWD	Scientific Drilling	
4/13/2012	483.00	2.28	331.16	IncAzi-MWD	Scientific Drilling	
4/13/2012	544.00	2.12	319.82	IncAzi-MWD	Scientific Drilling	
4/13/2012	606.00	1.89	297.44	IncAzi-MWD	Scientific Drilling	
4/13/2012	668.00	1.71	290.26	IncAzi-MWD	Scientific Drilling	
4/13/2012	729.00	1.62	273.29	IncAzi-MWD	Scientific Drilling	
4/13/2012	790.00	1.62	261.09	IncAzi-MWD	Scientific Drilling	
4/13/2012	886.00	2.17	240.91	IncAzi-MWD	Scientific Drilling	
4/13/2012	950.00	2.05	237.56	IncAzi-MWD	Scientific Drilling	
4/13/2012	1,013.00	2.02	238.17	IncAzi-MWD	Scientific Drilling	
4/13/2012	1,076.00	1.83	236.22	IncAzi-MWD	Scientific Drilling	
4/13/2012	1,140.00	1.88	230.33	IncAzi-MWD	Scientific Drilling	
4/13/2012	1,202.00	1.89	225.61	IncAzi-MWD	Scientific Drilling	
4/13/2012	1,265.00	1.98	220.40	IncAzi-MWD	Scientific Drilling	
4/13/2012	1,329.00	1.93	218.58	IncAzi-MWD	Scientific Drilling	
4/13/2012	1,392.00	1.96	218.34	IncAzi-MWD	Scientific Drilling	
4/13/2012	1,456.00	1.93	216.36	IncAzi-MWD	Scientific Drilling	
4/13/2012	1,519.00	1.80	214.98	IncAzi-MWD	Scientific Drilling	
4/13/2012	1,583.00	1.81	213.68	IncAzi-MWD	Scientific Drilling	
4/13/2012	1,646.00	1.55	224.08	IncAzi-MWD	Scientific Drilling	
4/14/2012	1,709.00	1.31	238.04	IncAzi-MWD	Scientific Drilling	
4/14/2012	1,741.00	1.27	247.06	IncAzi-MWD	Scientific Drilling	
4/14/2012	1,772.00	1.69	256.59	IncAzi-MWD	Scientific Drilling	
4/14/2012	1,804.00	2.24	264.55	IncAzi-MWD	Scientific Drilling	
4/14/2012	1,835.00	2.95	265.13	IncAzi-MWD	Scientific Drilling	
4/14/2012	1,867.00	3.66	266.52	IncAzi-MWD	Scientific Drilling	
4/14/2012	1,898.00	4.40	263.67	IncAzi-MWD	Scientific Drilling	
4/14/2012	1,930.00	5.15	262.57	IncAzi-MWD	Scientific Drilling	
4/14/2012	1,961.00	5.78	261.56	IncAzi-MWD	Scientific Drilling	
4/14/2012	1,993.00	6.48	261.48	IncAzi-MWD	Scientific Drilling	
4/14/2012	2,025.00	7.06	261.83	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 JUNE 12

OIL CONS. DIV.

DIST. 3

Notary Public in and for San Juan County, New Mexico

My Commission expires _____

Survey Data

Date	MD (ftKB)	Incl (°)	Azm (°)	Method	Survey Company
4/14/2012	2,056.00	7.69	260.79	IncAzi-MWD	Scientific Drilling
4/14/2012	2,088.00	8.37	260.21	IncAzi-MWD	Scientific Drilling
4/14/2012	2,120.00	8.90	258.51	IncAzi-MWD	Scientific Drilling
4/14/2012	2,151.00	9.32	255.77	IncAzi-MWD	Scientific Drilling
4/14/2012	2,183.00	9.93	254.89	IncAzi-MWD	Scientific Drilling
4/14/2012	2,215.00	10.52	255.56	IncAzi-MWD	Scientific Drilling
4/14/2012	2,246.00	11.21	256.22	IncAzi-MWD	Scientific Drilling
4/14/2012	2,277.00	11.82	256.42	IncAzi-MWD	Scientific Drilling
4/14/2012	2,309.00	12.37	257.72	IncAzi-MWD	Scientific Drilling
4/14/2012	2,341.00	12.78	259.41	IncAzi-MWD	Scientific Drilling
4/14/2012	2,373.00	13.29	259.28	IncAzi-MWD	Scientific Drilling
4/14/2012	2,404.00	13.86	261.02	IncAzi-MWD	Scientific Drilling
4/14/2012	2,436.00	14.39	259.98	IncAzi-MWD	Scientific Drilling
4/14/2012	2,467.00	14.75	259.12	IncAzi-MWD	Scientific Drilling
4/14/2012	2,499.00	15.38	259.54	IncAzi-MWD	Scientific Drilling
4/14/2012	2,531.00	15.86	258.68	IncAzi-MWD	Scientific Drilling
4/14/2012	2,562.00	16.91	259.42	IncAzi-MWD	Scientific Drilling
4/14/2012	2,594.00	17.52	259.94	IncAzi-MWD	Scientific Drilling
4/14/2012	2,625.00	17.95	259.93	IncAzi-MWD	Scientific Drilling
4/14/2012	2,657.00	18.51	261.22	IncAzi-MWD	Scientific Drilling
4/14/2012	2,688.00	18.66	261.53	IncAzi-MWD	Scientific Drilling
4/14/2012	2,720.00	18.72	261.07	IncAzi-MWD	Scientific Drilling
4/14/2012	2,752.00	19.47	261.18	IncAzi-MWD	Scientific Drilling
4/14/2012	2,783.00	19.67	261.07	IncAzi-MWD	Scientific Drilling
4/14/2012	2,814.00	19.63	260.21	IncAzi-MWD	Scientific Drilling
4/14/2012	2,846.00	20.04	260.41	IncAzi-MWD	Scientific Drilling
4/14/2012	2,877.00	21.05	260.01	IncAzi-MWD	Scientific Drilling
4/14/2012	2,908.00	21.67	259.93	IncAzi-MWD	Scientific Drilling
4/14/2012	2,940.00	22.51	260.40	IncAzi-MWD	Scientific Drilling
4/14/2012	2,971.00	23.69	261.06	IncAzi-MWD	Scientific Drilling
4/14/2012	3,003.00	23.86	260.97	IncAzi-MWD	Scientific Drilling
4/14/2012	3,034.00	24.47	260.30	IncAzi-MWD	Scientific Drilling
4/14/2012	3,066.00	24.91	260.27	IncAzi-MWD	Scientific Drilling
4/14/2012	3,098.00	25.58	260.40	IncAzi-MWD	Scientific Drilling
4/14/2012	3,130.00	26.14	260.25	IncAzi-MWD	Scientific Drilling
4/14/2012	3,161.00	26.45	260.03	IncAzi-MWD	Scientific Drilling
4/14/2012	3,193.00	26.82	260.82	IncAzi-MWD	Scientific Drilling
4/14/2012	3,225.00	27.66	260.61	IncAzi-MWD	Scientific Drilling
4/14/2012	3,256.00	27.79	260.25	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 (ft)	Incl. (°)	Azm. (°)	Method	Survey Company
4/14/2012	3,287.00	27.95	260.77	IncAzi-MWD	Scientific Drilling
4/14/2012	3,350.00	27.24	259.70	IncAzi-MWD	Scientific Drilling
4/14/2012	3,381.00	27.05	259.39	IncAzi-MWD	Scientific Drilling
4/14/2012	3,413.00	26.68	259.31	IncAzi-MWD	Scientific Drilling
4/14/2012	3,444.00	26.24	258.57	IncAzi-MWD	Scientific Drilling
4/14/2012	3,475.00	25.27	257.33	IncAzi-MWD	Scientific Drilling
4/14/2012	3,506.00	24.85	257.47	IncAzi-MWD	Scientific Drilling
4/15/2012	3,538.00	24.92	257.41	IncAzi-MWD	Scientific Drilling
4/15/2012	3,569.00	25.04	256.68	IncAzi-MWD	Scientific Drilling
4/15/2012	3,601.00	24.47	255.96	IncAzi-MWD	Scientific Drilling
4/15/2012	3,632.00	24.24	255.88	IncAzi-MWD	Scientific Drilling
4/15/2012	3,664.00	23.79	256.20	IncAzi-MWD	Scientific Drilling
4/15/2012	3,696.00	22.96	255.33	IncAzi-MWD	Scientific Drilling
4/15/2012	3,727.00	22.61	255.58	IncAzi-MWD	Scientific Drilling
4/15/2012	3,759.00	22.74	255.48	IncAzi-MWD	Scientific Drilling
4/15/2012	3,790.00	22.89	256.65	IncAzi-MWD	Scientific Drilling
4/15/2012	3,822.00	22.71	257.49	IncAzi-MWD	Scientific Drilling
4/15/2012	3,854.00	22.80	257.60	IncAzi-MWD	Scientific Drilling
4/15/2012	3,885.00	23.26	259.65	IncAzi-MWD	Scientific Drilling
4/15/2012	3,917.00	23.18	259.83	IncAzi-MWD	Scientific Drilling
4/15/2012	3,949.00	22.87	261.09	IncAzi-MWD	Scientific Drilling
4/15/2012	3,981.00	22.24	261.68	IncAzi-MWD	Scientific Drilling
4/15/2012	4,013.00	22.04	260.57	IncAzi-MWD	Scientific Drilling
4/15/2012	4,045.00	21.47	259.52	IncAzi-MWD	Scientific Drilling
4/15/2012	4,076.00	21.31	260.07	IncAzi-MWD	Scientific Drilling
4/15/2012	4,108.00	21.74	259.46	IncAzi-MWD	Scientific Drilling
4/15/2012	4,139.00	21.78	256.85	IncAzi-MWD	Scientific Drilling
4/15/2012	4,170.00	21.36	256.45	IncAzi-MWD	Scientific Drilling
4/15/2012	4,202.00	21.24	256.21	IncAzi-MWD	Scientific Drilling
4/16/2012	4,233.00	21.04	256.03	IncAzi-MWD	Scientific Drilling
4/16/2012	4,264.00	21.22	257.88	IncAzi-MWD	Scientific Drilling
4/16/2012	4,296.00	21.86	258.57	IncAzi-MWD	Scientific Drilling
4/16/2012	4,327.00	21.35	259.62	IncAzi-MWD	Scientific Drilling
4/16/2012	4,359.00	21.16	261.40	IncAzi-MWD	Scientific Drilling
4/16/2012	4,390.00	21.89	263.68	IncAzi-MWD	Scientific Drilling
4/16/2012	4,420.00	22.11	263.71	IncAzi-MWD	Scientific Drilling
4/16/2012	4,454.00	22.85	264.74	IncAzi-MWD	Scientific Drilling
4/16/2012	4,485.00	23.03	265.18	IncAzi-MWD	Scientific Drilling
4/16/2012	4,517.00	22.94	264.27	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	
4/16/2012	4,548.00	23 19	264.37	IncAzi-MWD	Scientific Drilling	
4/16/2012	4,580.00	21.33	263 52	IncAzi-MWD	Scientific Drilling	
4/16/2012	4,611.00	19 37	264 78	IncAzi-MWD	Scientific Drilling	
4/16/2012	4,643.00	18.21	265 74	IncAzi-MWD	Scientific Drilling	
4/16/2012	4,675.00	17.48	265 55	IncAzi-MWD	Scientific Drilling	
4/16/2012	4,706.00	16 70	264.65	IncAzi-MWD	Scientific Drilling	
4/16/2012	4,738.00	16.23	264.77	IncAzi-MWD	Scientific Drilling	
4/16/2012	4,801.00	15 04	264.81	IncAzi-MWD	Scientific Drilling	
4/16/2012	4,863.00	13 33	264.31	IncAzi-MWD	Scientific Drilling	
4/17/2012	4,927.00	12.56	262 37	IncAzi-MWD	Scientific Drilling	
4/17/2012	4,959.00	12 43	262.68	IncAzi-MWD	Scientific Drilling	
4/17/2012	4,990.00	12.62	262 45	IncAzi-MWD	Scientific Drilling	
4/17/2012	5,022.00	12.66	262 68	IncAzi-MWD	Scientific Drilling	
4/17/2012	5,054.00	12.29	263 04	IncAzi-MWD	Scientific Drilling	
4/18/2012	5,085.00	11.81	264 41	IncAzi-MWD	Scientific Drilling	
4/18/2012	5,117.00	11 22	265 27	IncAzi-MWD	Scientific Drilling	
4/18/2012	5,148.00	10.27	266.49	IncAzi-MWD	Scientific Drilling	
4/18/2012	5,180.00	9 46	269.44	IncAzi-MWD	Scientific Drilling	
4/18/2012	5,212.00	8.60	272 64	IncAzi-MWD	Scientific Drilling	
4/18/2012	5,243.00	7.67	275 29	IncAzi-MWD	Scientific Drilling	
4/18/2012	5,275.00	7.02	274.31	IncAzi-MWD	Scientific Drilling	
4/18/2012	5,306.00	6.60	274.09	IncAzi-MWD	Scientific Drilling	
4/18/2012	5,337.00	6.11	274 24	IncAzi-MWD	Scientific Drilling	
4/18/2012	5,369.00	5 85	274.14	IncAzi-MWD	Scientific Drilling	
4/18/2012	5,401.00	5 33	275.21	IncAzi-MWD	Scientific Drilling	
4/18/2012	5,440.00	4 99	273.56	IncAzi-MWD	Scientific Drilling	
4/18/2012	5,494.00	4.64	271.28	Projection	Scientific Drilling	
4/25/2012	8,025.00	1.00		Inc-WL	Phoenix Services LLC	

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.

[Signature]

Subscribed and sworn to me this 6/5/12

[Signature]
Notary Public in and for San Juan County, New Mexico

My Commission expires 7/29/14