

ConocoPhillips

COP Deviation Report

HOUCK #3F

Operator BURLINGTON RESOURCES O&G CO LP	Legal WellName HOUCK #3F	API / UWI 3004533882	County SAN JUAN	State/Province NEW MEXICO
Surface Legal Location NMPM,012-029N-010W	N/S Dist (ft) 935.00	N/S Ref N	EW Dist (ft) 1,065.00	EW Ref W

Date	MD (ftKB)	Incl (°)	Method	Survey Company
11/8/2006	75.00	0.50	TOTCO SS	MOTE
11/8/2006	135.00	1.25	TOTCO SS	MOTE
1/26/2007	500.00	1.00	MWD	TELE DRIFT
1/26/2007	960.00	0.50	MWD	TELE DRIFT
1/26/2007	1,490.00	0.50	MWD	TELE DRIFT
1/26/2007	1,980.00	0.50	MWD	TELE DRIFT
1/27/2007	2,480.00	0.50	MWD	TELE DRIFT
1/27/2007	2,546.00	1.75	Incl	TOTCO
1/27/2007	6,822.00	6.00	Incl	WILSON

30 045 33882

Surface 935/N 1065/W

BHL 975/N 1002/W

RCUD APR24'07
OIL CONS. DIV.

md 6700
TVd 6699

DIST. 3

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.

Subscribed and sworn to me this 24th DAY OF APRIL 2007

[Signature]

Notary Public in and for San Juan County, New Mexico

My Commission expires Jan 24, 2011

002

Scientific Drilling Controls

Outrun Survey
for
Burlington Resources

Page 1

Well No.: Houck 3F Date : 23-APR-2007
Job No. : 33K0407332 TRUE Proposal : 0.00

Depth (Feet)	T.V.D. (Feet)	V.S. (Feet)	Inc Deg.	Azimuth Deg.	Latitude (Feet)	Departure (Feet)	D-leg /100
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0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	100.00	-0.22	0.52	241.42	-0.22	-0.40	0.52
200.00	199.99	-0.77	0.72	238.30	-0.77	-1.33	0.20
300.00	299.98	-1.46	0.75	236.36	-1.46	-2.41	0.04
400.00	399.98	-2.19	0.75	235.67	-2.19	-3.50	0.01
500.00	499.97	-2.93	0.78	236.99	-2.93	-4.61	0.04
600.00	599.96	-3.53	0.64	245.89	-3.53	-5.69	0.18
700.00	699.95	-3.96	0.43	237.47	-3.96	-6.52	0.23
800.00	799.95	-4.48	0.48	220.16	-4.48	-7.10	0.14
900.00	899.95	-5.06	0.36	213.88	-5.06	-7.55	0.12
1000.00	999.95	-5.57	0.38	222.11	-5.57	-7.95	0.06
1100.00	1099.94	-6.03	0.37	228.53	-6.03	-8.41	0.04
1200.00	1199.94	-6.42	0.30	230.02	-6.42	-8.86	0.07
1300.00	1299.94	-6.68	0.16	226.02	-6.68	-9.16	0.14
1400.00	1399.94	-6.87	0.13	211.26	-6.87	-9.32	0.05
1500.00	1499.94	-7.09	0.15	209.35	-7.09	-9.44	0.03
1600.00	1599.94	-7.33	0.16	209.92	-7.33	-9.58	0.01
1700.00	1699.94	-7.61	0.24	223.77	-7.61	-9.80	0.09
1800.00	1799.94	-7.83	0.21	246.56	-7.83	-10.11	0.09
1900.00	1899.94	-8.02	0.35	247.72	-8.02	-10.56	0.14
2000.00	1999.93	-8.37	0.51	238.34	-8.37	-11.23	0.17
2100.00	2099.93	-8.94	0.54	224.22	-8.94	-11.94	0.13
2200.00	2199.93	-9.73	0.61	212.40	-9.73	-12.55	0.14
2300.00	2299.92	-10.92	0.93	205.96	-10.92	-13.20	0.33
2400.00	2399.90	-12.36	0.89	202.51	-12.36	-13.85	0.07
2500.00	2499.89	-13.80	0.89	200.85	-13.80	-14.42	0.03
2600.00	2599.88	-15.27	0.88	195.66	-15.27	-14.90	0.08
2700.00	2699.87	-16.71	0.85	198.01	-16.71	-15.34	0.05
2800.00	2799.86	-18.08	0.83	202.75	-18.08	-15.85	0.07
2900.00	2899.85	-19.31	0.72	206.35	-19.31	-16.41	0.12
3000.00	2999.84	-20.51	0.85	210.74	-20.51	-17.07	0.14
3100.00	3099.83	-21.73	0.84	217.77	-21.73	-17.89	0.10
3200.00	3199.82	-22.83	0.82	222.52	-22.83	-18.82	0.07
3300.00	3299.81	-23.92	0.83	219.94	-23.92	-19.78	0.04
3400.00	3399.80	-25.00	0.76	217.90	-25.00	-20.65	0.08
3500.00	3499.79	-26.02	0.75	220.61	-26.02	-21.49	0.04

3600.00	3599.78	-27.10	0.81	215.56	-27.10	-22.32	0.09
3700.00	3699.77	-28.25	0.79	213.36	-28.25	-23.11	0.04
3800.00	3799.76	-29.41	0.79	211.79	-29.41	-23.86	0.02
3900.00	3899.75	-30.65	0.88	210.26	-30.65	-24.60	0.09

[illegible]

Outrun Survey
for
Burlington Resources

Page 2

Well No.: Houck 3F

Date : 23-APR-2007

Job No. : 33K0407332

TRUE

Proposal : 0.00

Depth	T.V.D.	V.S.	Inc	Azimuth	Latitude	Departure	D-leg
(Feet)	(Feet)	(Feet)	Deg.	Deg.	(Feet)	(Feet)	/100
1	1	1	1	1	1	1	1
2	2	2	2	2	2	2	2
3	3	3	3	3	3	3	3
4	4	4	4	4	4	4	4
5	5	5	5	5	5	5	5
6	6	6	6	6	6	6	6
7	7	7	7	7	7	7	7
8	8	8	8	8	8	8	8
9	9	9	9	9	9	9	9
10	10	10	10	10	10	10	10
11	11	11	11	11	11	11	11
12	12	12	12	12	12	12	12
13	13	13	13	13	13	13	13
14	14	14	14	14	14	14	14
15	15	15	15	15	15	15	15
16	16	16	16	16	16	16	16
17	17	17	17	17	17	17	17
18	18	18	18	18	18	18	18
19	19	19	19	19	19	19	19
20	20	20	20	20	20	20	20
21	21	21	21	21	21	21	21
22	22	22	22	22	22	22	22
23	23	23	23	23	23	23	23
24	24	24	24	24	24	24	24
25	25	25	25	25	25	25	25
26	26	26	26	26	26	26	26
27	27	27	27	27	27	27	27
28	28	28	28	28	28	28	28
29	29	29	29	29	29	29	29
30	30	30	30	30	30	30	30
31	31	31	31	31	31	31	31
32	32	32	32	32	32	32	32
33	33	33	33	33	33	33	33
34	34	34	34	34	34	34	34
35	35	35	35	35	35	35	35
36	36	36	36	36	36	36	36
37	37	37	37	37	37	37	37
38	38	38	38	38	38	38	38
39	39	39	39	39	39	39	39
40	40	40	40	40	40	40	40
41	41	41	41	41	41	41	41
42	42	42	42	42	42	42	42
43	43	43	43	43	43	43	43
44	44	44	44	44	44	44	44
45	45	45	45	45	45	45	45
46	46	46	46	46	46	46	46
47	47	47	47	47	47	47	47
48	48	48	48	48	48	48	48
49	49	49	49	49	49	49	49
50	50	50	50	50	50	50	50
51	51	51	51	51	51	51	51
52	52	52	52	52	52	52	52
53	53	53	53	53	53	53	53
54	54	54	54	54	54	54	54
55	55	55	55	55	55	55	55
56	56	56	56	56	56	56	56
57	57	57	57	57</			

4000.00	3999.74	-32.14	0.98	195.50	-32.14	-25.22	0.26
4100.00	4099.72	-33.87	1.07	191.91	-33.87	-25.64	0.11
4200.00	4199.70	-35.63	0.99	192.19	-35.63	-26.01	0.07
4300.00	4299.69	-37.22	0.96	207.58	-37.22	-26.59	0.26
4400.00	4399.68	-38.34	0.87	240.16	-38.34	-27.63	0.52

4500.00	4499.66	-38.94	1.05	256.09	-38.94	-29.18	0.32
4600.00	4599.64	-39.50	1.25	251.89	-39.50	-31.11	0.22
4700.00	4699.62	-40.30	1.04	239.28	-40.30	-32.93	0.33
4800.00	4799.61	-41.07	0.76	242.04	-41.07	-34.30	0.28
4900.00	4899.60	-41.53	0.57	253.31	-41.53	-35.36	0.23

5000.00	4999.60	-41.81	0.44	248.05	-41.81	-36.19	0.14
5100.00	5099.60	-42.06	0.28	244.15	-42.06	-36.77	0.16
5200.00	5199.60	-42.35	0.30	226.38	-42.35	-37.18	0.09
5300.00	5299.59	-42.72	0.28	222.33	-42.72	-37.54	0.03
5400.00	5399.59	-43.13	0.47	236.32	-43.13	-38.04	0.21

5500.00	5499.59	-43.57	0.70	249.18	-43.57	-38.95	0.26
5600.00	5599.57	-44.15	1.19	249.66	-44.15	-40.50	0.50
5700.00	5699.55	-44.56	0.91	266.54	-44.56	-42.26	0.42
5800.00	5799.54	-44.58	1.20	271.35	-44.58	-44.10	0.30
5900.00	5899.51	-44.41	1.30	277.46	-44.41	-46.27	0.17

6000.00	5999.48	-44.09	1.41	277.94	-44.09	-48.62	0.11
6100.00	6099.45	-43.76	1.41	277.41	-43.76	-51.06	0.01
6200.00	6199.43	-43.37	1.28	282.16	-43.37	-53.37	0.17
6300.00	6299.40	-42.69	1.24	294.25	-42.69	-55.45	0.27
6400.00	6399.38	-41.75	1.42	293.61	-41.75	-57.57	0.18

6500.00	6499.35	-40.67	1.37	299.20	-40.67	-59.75	0.14
6600.00	6599.33	-40.12	0.95	267.80	-40.12	-61.63	0.75
6700.00	6699.31	-40.49	0.87	242.82	-40.49	-63.13	0.40

The Horizontal Displacement (in Feet) at
Measured Depth 6700.00 is 75.00 in a Direction of 237.32 Degrees
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