Scientific Drilling

CONOCOPHILLIPS

OK
AT

Field: Allison
Site: La Plata County, CO
Well: Allison #57N
Wellpath: VH - Job #33K1106940
Survey: 11/13/06

30-045-33893
surface 1200/N 1616/W
1422' BHL 1283/N 1943/W

This survey is correct to the best of my knowledge
and is supported by actual field data.

.....Company Representative

BJ

Scientific Drilling

Scientific Drilling International
Survey Report

Company:	CONOCOPHILLIPS	**Date:** 11/20/2006	**Time:** 16:40:34	**Page:**	1
Field:	Allison	**Co-ordinate(NE) Reference:**	Site: La Plata County, CO, Grid North		
Site:	La Plata County, CO	**Vertical (TVD) Reference:**	SITE 0.0		
Well:	Allison #57N	**Section (VS) Reference:**	Well (0.00N,0.00E,95.93Azi)		
Wellpath:	VH - Job #33K1106940	**Survey Calculation Method:**	Minimum Curvature	**Db:**	Sybase

Survey:	11/13/06 KSRG 0'-1422'	**Start Date:**	11/13/2006
Company:	Scientific Drilling Internatio	**Engineer:**	Newlen
Tool:	Keeper;Keeper Gyro	**Tied-to:**	From Surface

Survey

MD ft	Incl deg	Azim deg	TVD ft	VS ft	N/S ft	E/W ft	DLS deg/100ft	ClsD ft	ClsA deg
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
25.00	0.03	136.65	25.00	0.00	0.00	0.00	0.12	0.01	136.65
50.00	0.39	134.92	50.00	0.08	-0.07	0.07	1.44	0.10	135.15
75.00	0.64	139.33	75.00	0.24	-0.24	0.22	1.02	0.32	136.90
100.00	0.78	126.24	100.00	0.49	-0.44	0.45	0.85	0.63	134.58
125.00	0.81	123.47	124.99	0.80	-0.64	0.73	0.19	0.97	131.13
150.00	0.65	118.75	149.99	1.08	-0.81	1.01	0.67	1.29	128.73
175.00	0.93	132.09	174.99	1.38	-1.01	1.28	1.32	1.63	128.28
200.00	0.84	129.75	199.99	1.70	-1.27	1.57	0.38	2.02	128.79
225.00	1.08	136.56	224.98	2.03	-1.55	1.88	1.06	2.44	129.62
250.00	1.01	114.78	249.98	2.42	-1.82	2.24	1.61	2.89	129.06
275.00	1.02	128.89	274.98	2.81	-2.05	2.61	1.00	3.32	128.11
300.00	1.42	116.67	299.97	3.29	-2.33	3.06	1.92	3.85	127.24
325.00	1.27	109.78	324.96	3.85	-2.56	3.60	0.88	4.42	125.42
350.00	1.26	112.88	349.96	4.38	-2.76	4.12	0.28	4.96	123.86
375.00	1.39	122.22	374.95	4.92	-3.03	4.63	1.00	5.53	123.23
400.00	1.58	108.92	399.94	5.52	-3.30	5.21	1.58	6.17	122.39
425.00	1.64	116.86	424.93	6.19	-3.58	5.85	0.92	6.86	121.43
450.00	1.96	119.48	449.92	6.92	-3.95	6.54	1.31	7.64	121.11
475.00	1.95	113.82	474.91	7.71	-4.33	7.31	0.77	8.49	120.66
500.00	2.10	112.47	499.89	8.56	-4.68	8.12	0.64	9.37	119.95
525.00	2.63	115.00	524.87	9.54	-5.10	9.06	2.16	10.40	119.35
550.00	2.89	115.69	549.84	10.68	-5.61	10.15	1.04	11.60	118.94
575.00	3.37	111.53	574.80	11.98	-6.16	11.40	2.12	12.96	118.36
600.00	3.66	112.41	599.75	13.45	-6.73	12.83	1.20	14.48	117.69
625.00	3.91	107.73	624.70	15.05	-7.29	14.38	1.58	16.12	116.90
650.00	4.05	108.79	649.64	16.75	-7.84	16.02	0.65	17.84	116.07
675.00	4.45	107.95	674.57	18.56	-8.42	17.78	1.60	19.68	115.34
700.00	4.88	107.07	699.49	20.55	-9.03	19.72	1.74	21.69	114.61
725.00	5.02	104.21	724.40	22.67	-9.61	21.80	1.13	23.82	113.80
750.00	5.25	103.47	749.29	24.89	-10.15	23.97	0.96	26.03	112.95
775.00	5.69	102.36	774.18	27.25	-10.68	26.29	1.84	28.38	112.11
800.00	6.01	102.14	799.05	29.79	-11.22	28.78	1.25	30.89	111.30
825.00	6.42	99.57	823.90	32.48	-11.73	31.44	2.00	33.55	110.46
850.00	6.69	99.21	848.74	35.33	-12.19	34.25	1.08	36.36	109.59
875.00	7.02	97.31	873.56	38.31	-12.62	37.21	1.61	39.29	108.74
900.00	7.32	97.19	898.37	41.43	-13.01	40.30	1.19	42.35	107.89
925.00	7.76	96.77	923.15	44.71	-13.41	43.56	1.79	45.58	107.11
950.00	7.90	96.57	947.92	48.12	-13.81	46.94	0.55	48.93	106.39
975.00	8.38	95.19	972.66	51.66	-14.17	50.46	2.09	52.41	105.68
1000.00	8.38	94.89	997.40	55.30	-14.49	54.09	0.18	56.00	104.99
1025.00	8.75	94.20	1022.12	59.02	-14.78	57.80	1.52	59.66	104.35
1050.00	9.02	93.93	1046.82	62.88	-15.06	61.65	1.11	63.46	103.72
1075.00	9.15	92.17	1071.51	66.82	-15.27	65.59	1.23	67.35	103.10
1100.00	9.12	92.94	1096.19	70.78	-15.44	69.56	0.50	71.25	102.52
1125.00	9.36	91.04	1120.86	74.79	-15.58	73.57	1.55	75.20	101.96
1150.00	9.48	91.41	1145.53	78.86	-15.67	77.66	0.53	79.22	101.41
1175.00	9.67	90.26	1170.18	83.00	-15.73	81.82	1.10	83.32	100.88
1200.00	9.93	89.78	1194.81	87.24	-15.73	86.07	1.07	87.50	100.36

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Survey Report

Company:	CONOCOPHILLIPS	**Date:** 11/20/2006	**Time:** 16:40:34	**Page:**	2
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Site:	La Plata County, CO	**Vertical (TVD) Reference:**	SITE 0.0		
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Wellpath:	VH - Job #33K1106940	**Survey Calculation Method:**	Minimum Curvature	**Db:**	Sybase

Survey

MD ft	Incl deg	Azim deg	TVD ft	VS ft	N/S ft	E/W ft	DLS deg/100ft	ClsD ft	ClsA deg
1225.00	10.15	89.59	1219.43	91.57	-15.71	90.43	0.89	91.78	99.85
1250.00	10.55	89.19	1244.03	96.03	-15.66	94.92	1.61	96.20	99.37
1275.00	10.87	87.19	1268.59	100.63	-15.51	99.56	1.97	100.76	98.85
1300.00	10.99	87.54	1293.14	105.32	-15.29	104.30	0.58	105.41	98.34
1325.00	11.09	85.76	1317.67	110.04	-15.01	109.08	1.42	110.10	97.84
1350.00	11.31	85.61	1342.20	114.82	-14.65	113.92	0.86	114.86	97.33
1375.00	11.69	85.52	1366.70	119.72	-14.26	118.89	1.52	119.74	96.84
1400.00	11.71	83.91	1391.18	124.69	-13.79	123.93	1.31	124.70	96.35
1422.00	11.80	84.44	1412.72	129.08	-13.34	128.39	0.64	129.08	95.93

Excessive deviation TO 2100'

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Scientific Drilling

Field: Allison
Site: La Plata County, CO
Well: Allison #57N
Wellpath: VH - Job #33K1106940
Survey: 11/13/06

G/T/M

Azimuths to Grid North
True North: 0.00°
Magnetic North: 0.00°

Magnetic Field
Strength: 0nT
Dip Angle: 0.00°
Date: 11/20/2006
Model: igrf2000

West(-)/East(+) [20ft/in]

South(-)/North(+) [20ft/in]