

RCVD JUN 17 '10
OIL CONS. DIV.
DST. 3

ConocoPhillips

SJB (NM Central)
SEC 35-T30N-R7W
SJ 30-6 #101M

Original Hole

API - 30-039-30756

Survey: Actual - Gyro Survey

Standard Survey Report

24 May, 2010

SorSaee 1923/N 945/E ✓
BNL 1955/S 850/E

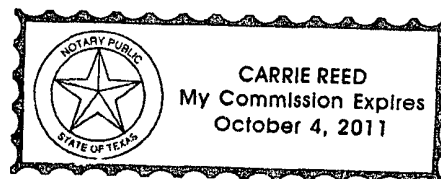
This survey is correct to the best of my knowledge and is supported by actual field data.

Richard

Notorized this date 24th of May, 2010.

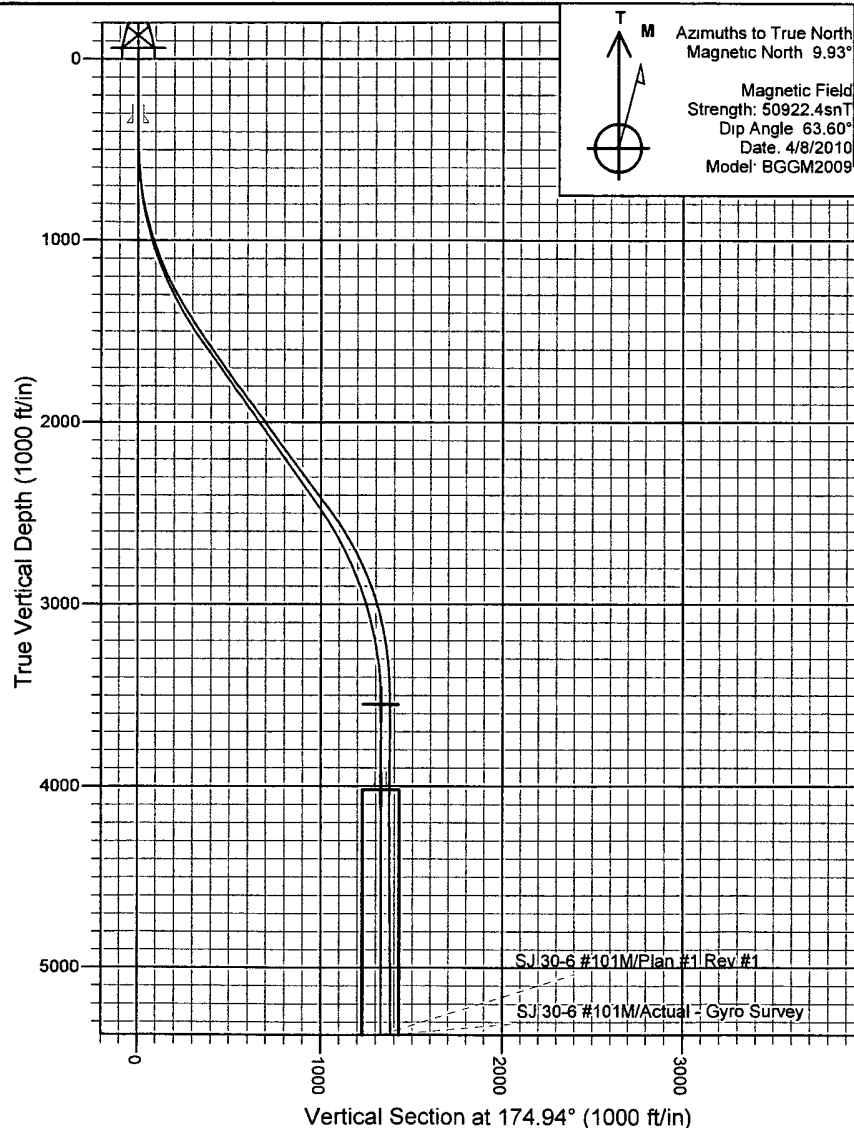
Carrie Reed

Notary Signature
County of Midland
State of Texas

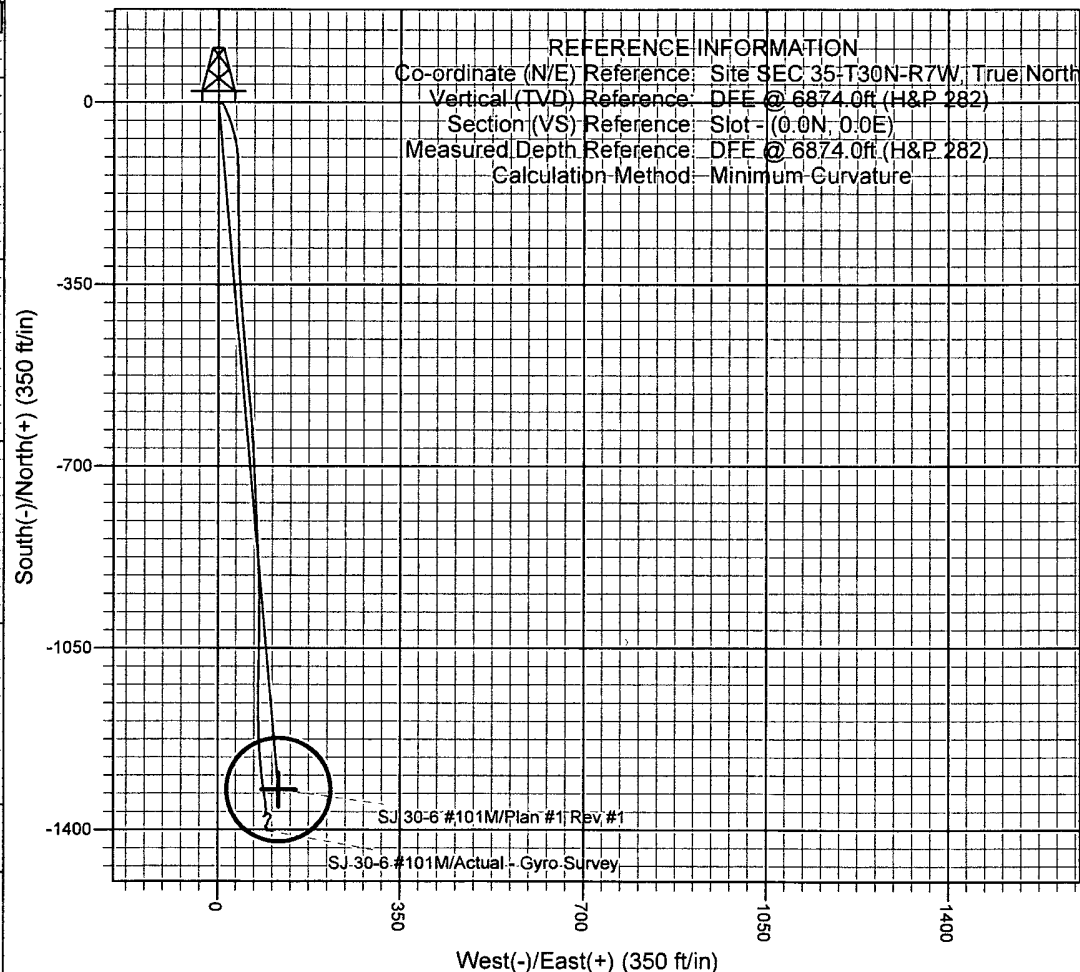




Project: SJB (NM Central)
SEC 35-T30N-R7W
Well: SJ 30-6 #101M
Wellbore: Original Hole
Design: Plan #1 Rev #1
Site:



WELL DETAILS: SJ 30-6 #101M
DFE @ 6874.0ft (H&P 282)
Ground Level: 6858.0
Easting 123953.02
Latitude 36° 46' 15.816 N
Longitude 107° 32' 2.100 W
Slot



COMPANY DETAILS: ConocoPhillips
Calculation Method: Minimum Curvature
Error System: ISCWSA
Scan Method: Closest Approach 3D
Error Surface: Combined Covariances
Warning Method: Risk Ratio

PROJECT DETAILS: SJB (NM Central)
Geodetic System: US State Plane 1927 (Exact solution)
Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1866
Zone: New Mexico Central 3002
System Datum: Mean Sea Level

SITE DETAILS: SEC 35-T30N-R7W
Rio Arriba County NM
Site Centre Latitude: 36° 46' 15.816 N
Longitude: 107° 32' 2.100 W
Positional Uncertainty: 0.0
Convergence: -0.77
Local North: True

Scientific Drilling International, Inc.

Survey Report

Company:	ConocoPhillips	Local Co-ordinate Reference:	Site SEC 35-T30N-R7W
Project:	SJB (NM Central)	TVD Reference:	DFE @ 6874.0ft (H&P 282)
Site:	SEC 35-T30N-R7W	MD Reference:	DFE @ 6874.0ft (H&P 282)
Well:	SJ 30-6 #101M	North Reference:	True
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Actual - E-field	Database:	edmCOP

Project	SJB (NM Central), New Mexico, S-Type MV/DK Wells		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		Using Well Reference Point
Map Zone:	New Mexico Central 3002		Using geodetic scale factor

Site	SEC 35-T30N-R7W		
Site Position:		Northing:	2,102,410.77 ft
From:	Lat/Long	Easting:	123,953.02 ft
Position Uncertainty:	0.0 ft	Slot Radius:	6-1/8"
		Latitude:	36° 46' 15.816 N
		Longitude:	107° 32' 2.100 W
		Grid Convergence:	-0.77 °

Well	SJ 30-6 #101M, S-Type MV/DK Well		
Well Position	+N/-S	0.0 ft	Northing: 2,102,410.77 ft
	+E/-W	0.0 ft	Easting: 123,953.02 ft
Position Uncertainty	3.5 ft	Wellhead Elevation:	ft
		Latitude:	36° 46' 15.816 N
		Longitude:	107° 32' 2.100 W
		Ground Level:	6,858.0 ft

Wellbore	Original Hole		
Magnetics	Model Name	Sample Date	Declination
			(°)
	BGGM2009	4/8/2010	9.94
			Dip Angle (°)
			63.60
			Field Strength (nT)
			50,922

Design	Actual - E-field		
Audit Notes:			
Version:	1.0	Phase:	ACTUAL
		Tie On Depth:	0.0
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W
	(ft)	(ft)	(ft)
	0.0	0.0	0.0
			Direction
			(°)
			175.97

Survey Program	Date 5/24/2010		
From	To	Survey (Wellbore)	Tool Name
(ft)	(ft)		
417.0	4,083.0	Actual (Original Hole)	MWD SDI
			Description
			MWD - Standard ver 1.0.1

Survey									
Measured Depth	Inclination	Azimuth	Vertical Depth	+N/-S	+E/-W	Vertical Section	Dogleg Rate	Build Rate	Turn Rate
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(°/100ft)	(°/100ft)	(°/100ft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
30.0	0.36	110.61	30.0	0.0	0.1	0.0	1.20	1.20	0.00
60.0	0.52	110.51	60.0	-0.1	0.3	0.1	0.53	0.53	-0.33
90.0	0.73	114.00	90.0	-0.2	0.6	0.3	0.71	0.70	11.63
120.0	0.83	115.96	120.0	-0.4	1.0	0.5	0.34	0.33	6.53
150.0	0.95	118.91	150.0	-0.6	1.4	0.7	0.43	0.40	9.83
180.0	1.00	119.14	180.0	-0.9	1.8	1.0	0.17	0.17	0.77
210.0	1.10	120.79	210.0	-1.2	2.3	1.3	0.35	0.33	5.50
240.0	1.12	117.56	240.0	-1.4	2.8	1.6	0.22	0.07	-10.77
270.0	1.12	114.19	270.0	-1.7	3.3	1.9	0.22	0.00	-11.23
300.0	1.07	108.31	300.0	-1.9	3.9	2.2	0.41	-0.17	-19.60
330.0	1.03	100.28	330.0	-2.0	4.4	2.3	0.51	-0.13	-26.77
360.0	0.99	79.91	360.0	-2.0	4.9	2.4	1.20	-0.13	-67.90

Scientific Drilling International, Inc.
Survey Report

Company:	ConocoPhillips	Local Co-ordinate Reference:	Site SEC 35-T30N-R7W
Project:	SJB (NM Central)	TVD Reference:	DFE @ 6874.0ft (H&P 282)
Site:	SEC 35-T30N-R7W	MD Reference:	DFE @ 6874.0ft (H&P 282)
Well:	SJ 30-6 #101M	North Reference:	True
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Actual - E-field	Database:	edmCOP

Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
390.0	0.99	80.36	390.0	-1.9	5.4	2.3	0.03	0.00	1.50	
420.0	1.01	77.24	419.9	-1.8	6.0	2.3	0.19	0.07	-10.40	
450.0	1.11	87.62	449.9	-1.8	6.5	2.2	0.72	0.33	34.60	
480.0	1.52	117.43	479.9	-1.9	7.1	2.4	2.61	1.37	99.37	
510.0	2.29	134.35	509.9	-2.5	7.9	3.1	3.15	2.57	56.40	
540.0	3.22	143.01	539.9	-3.6	8.9	4.3	3.39	3.10	28.87	
570.0	4.26	149.04	569.8	-5.3	9.9	6.0	3.70	3.47	20.10	
600.0	4.91	152.28	599.7	-7.4	11.1	8.1	2.33	2.17	10.80	
630.0	5.59	154.95	629.6	-9.8	12.3	10.7	2.41	2.27	8.90	
660.0	6.74	156.58	659.4	-12.8	13.6	13.7	3.88	3.83	5.43	
690.0	8.08	156.74	689.2	-16.3	15.2	17.3	4.47	4.47	0.53	
720.0	8.94	156.92	718.8	-20.4	16.9	21.5	2.87	2.87	0.60	
750.0	10.16	157.42	748.4	-25.0	18.9	26.2	4.08	4.07	1.67	
780.0	11.30	158.71	777.9	-30.2	20.9	31.6	3.88	3.80	4.30	
810.0	13.12	161.16	807.2	-36.1	23.1	37.7	6.31	6.07	8.17	
840.0	13.89	162.30	836.4	-42.8	25.3	44.5	2.72	2.57	3.80	
870.0	14.18	162.88	865.5	-49.7	27.5	51.5	1.07	0.97	1.93	
900.0	15.06	165.22	894.5	-57.0	29.6	58.9	3.53	2.93	7.80	
930.0	16.07	167.33	923.4	-64.8	31.5	66.9	3.86	3.37	7.03	
960.0	16.88	169.13	952.2	-73.1	33.2	75.3	3.19	2.70	6.00	
990.0	17.71	171.25	980.8	-81.9	34.7	84.2	3.47	2.77	7.07	
1,020.0	18.28	172.63	1,009.4	-91.1	36.0	93.4	2.37	1.90	4.60	
1,050.0	19.04	175.51	1,037.8	-100.7	37.0	103.0	3.98	2.53	9.60	
1,080.0	19.79	177.73	1,066.1	-110.6	37.6	113.0	3.51	2.50	7.40	
1,110.0	20.60	178.16	1,094.2	-121.0	37.9	123.3	2.74	2.70	1.43	
1,140.0	21.78	178.24	1,122.2	-131.8	38.3	134.2	3.93	3.93	0.27	
1,170.0	23.09	179.06	1,149.9	-143.2	38.6	145.6	4.49	4.37	2.73	
1,200.0	23.93	179.50	1,177.4	-155.2	38.7	157.5	2.86	2.80	1.47	
1,230.0	24.60	179.78	1,204.8	-167.5	38.8	169.9	2.27	2.23	0.93	
1,260.0	26.00	179.58	1,231.9	-180.4	38.9	182.6	4.68	4.67	-0.67	
1,290.0	26.81	179.55	1,258.8	-193.7	39.0	196.0	2.70	2.70	-0.10	
1,320.0	27.69	179.66	1,285.5	-207.4	39.0	209.7	2.94	2.93	0.37	
1,350.0	29.01	179.48	1,311.9	-221.7	39.2	223.9	4.41	4.40	-0.60	
1,380.0	30.04	179.62	1,338.0	-236.5	39.3	238.6	3.44	3.43	0.47	
1,410.0	30.87	179.62	1,363.8	-251.7	39.4	253.8	2.77	2.77	0.00	
1,440.0	31.75	179.73	1,389.5	-267.3	39.5	269.4	2.94	2.93	0.37	
1,470.0	32.57	179.66	1,414.9	-283.2	39.5	285.3	2.74	2.73	-0.23	
1,500.0	33.16	178.43	1,440.1	-299.5	39.8	301.6	2.97	1.97	-4.10	
1,530.0	33.30	177.24	1,465.1	-315.9	40.4	318.0	2.22	0.47	-3.97	
1,560.0	33.68	176.32	1,490.2	-332.5	41.4	334.5	2.11	1.27	-3.07	
1,590.0	34.06	175.96	1,515.1	-349.1	42.5	351.3	1.43	1.27	-1.20	
1,620.0	34.12	175.87	1,539.9	-365.9	43.7	368.1	0.26	0.20	-0.30	
1,650.0	34.26	175.72	1,564.7	-382.7	44.9	384.9	0.54	0.47	-0.50	
1,680.0	34.51	175.54	1,589.5	-399.6	46.2	401.9	0.90	0.83	-0.60	
1,710.0	34.56	175.52	1,614.2	-416.6	47.5	418.9	0.17	0.17	-0.07	
1,740.0	34.89	175.35	1,638.9	-433.6	48.9	436.0	1.15	1.10	-0.57	
1,770.0	34.99	175.23	1,663.5	-450.7	50.3	453.2	0.40	0.33	-0.40	
1,800.0	34.69	174.99	1,688.1	-467.8	51.8	470.3	1.10	-1.00	-0.80	
1,830.0	34.95	174.85	1,712.7	-484.9	53.3	487.4	0.91	0.87	-0.47	
1,860.0	35.33	174.87	1,737.2	-502.1	54.8	504.7	1.27	1.27	0.07	
1,890.0	35.55	174.84	1,761.7	-519.4	56.4	522.1	0.74	0.73	-0.10	
1,920.0	35.94	174.89	1,786.0	-536.8	58.0	539.6	1.30	1.30	0.17	
1,950.0	36.13	174.99	1,810.3	-554.4	59.5	557.2	0.66	0.63	0.33	
1,980.0	36.64	175.11	1,834.4	-572.2	61.1	575.0	1.72	1.70	0.40	

Scientific Drilling International, Inc.
Survey Report

Company:	ConocoPhillips	Local Co-ordinate Reference:	Site SEC 35-T30N-R7W
Project:	SJB (NM Central)	TVD Reference:	DFE @ 6874.0ft (H&P 282)
Site:	SEC 35-T30N-R7W	MD Reference:	DFE @ 6874.0ft (H&P 282)
Well:	SJ 30-6 #101M	North Reference:	True
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Actual - E-field	Database:	edmCOP

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
2,010.0	36.59	175.18	1,858.5	-590.0	62.6	592.9	0.22	-0.17	0.23
2,040.0	36.86	175.36	1,882.6	-607.9	64.1	610.9	0.97	0.90	0.60
2,070.0	36.34	176.00	1,906.7	-625.7	65.4	628.8	2.15	-1.73	2.13
2,100.0	35.99	176.50	1,930.9	-643.4	66.6	646.5	1.53	-1.17	1.67
2,130.0	36.22	176.61	1,955.1	-661.0	67.6	664.1	0.80	0.77	0.37
2,160.0	36.46	176.89	1,979.3	-678.8	68.6	681.9	0.97	0.80	0.93
2,190.0	36.38	176.91	2,003.4	-696.5	69.6	699.7	0.27	-0.27	0.07
2,220.0	35.17	177.21	2,027.8	-714.1	70.5	717.3	4.08	-4.03	1.00
2,250.0	35.01	177.45	2,052.3	-731.3	71.3	734.5	0.70	-0.53	0.80
2,280.0	35.27	177.44	2,076.8	-748.5	72.1	751.8	0.87	0.87	-0.03
2,310.0	35.15	177.43	2,101.3	-765.8	72.8	769.0	0.40	-0.40	-0.03
2,340.0	35.39	177.35	2,125.8	-783.1	73.6	786.4	0.81	0.80	-0.27
2,370.0	35.75	177.42	2,150.2	-800.6	74.4	803.8	1.21	1.20	0.23
2,400.0	36.08	177.34	2,174.5	-818.1	75.2	821.4	1.11	1.10	-0.27
2,430.0	36.03	177.41	2,198.8	-835.8	76.0	839.1	0.22	-0.17	0.23
2,460.0	36.37	177.36	2,223.0	-853.5	76.9	856.8	1.14	1.13	-0.17
2,490.0	36.70	177.43	2,247.1	-871.3	77.7	874.6	1.11	1.10	0.23
2,520.0	36.53	177.71	2,271.2	-889.2	78.4	892.5	0.79	-0.57	0.93
2,550.0	36.48	178.10	2,295.3	-907.0	79.1	910.3	0.79	-0.17	1.30
2,580.0	36.63	178.48	2,319.4	-924.9	79.6	928.2	0.91	0.50	1.27
2,610.0	36.66	178.84	2,343.5	-942.8	80.0	946.1	0.72	0.10	1.20
2,640.0	36.50	179.24	2,367.6	-960.7	80.3	963.9	0.96	-0.53	1.33
2,670.0	37.01	179.76	2,391.6	-978.6	80.5	981.9	1.99	1.70	1.73
2,700.0	36.45	180.52	2,415.6	-996.6	80.4	999.7	2.40	-1.87	2.53
2,730.0	36.14	181.20	2,439.8	-1,014.3	80.2	1,017.4	1.69	-1.03	2.27
2,760.0	36.39	181.38	2,464.0	-1,032.1	79.8	1,035.1	0.91	0.83	0.60
2,790.0	36.31	181.35	2,488.2	-1,049.8	79.3	1,052.8	0.27	-0.27	-0.10
2,820.0	35.69	181.28	2,512.4	-1,067.5	78.9	1,070.4	2.07	-2.07	-0.23
2,850.0	34.55	181.31	2,537.0	-1,084.7	78.6	1,087.5	3.80	-3.80	0.10
2,880.0	33.58	180.68	2,561.8	-1,101.5	78.3	1,104.3	3.44	-3.23	-2.10
2,910.0	32.54	179.85	2,587.0	-1,117.9	78.2	1,120.6	3.78	-3.47	-2.77
2,940.0	31.45	179.65	2,612.4	-1,133.8	78.3	1,136.5	3.65	-3.63	-0.67
2,970.0	30.57	179.86	2,638.1	-1,149.2	78.3	1,151.9	2.96	-2.93	0.70
3,000.0	29.69	180.08	2,664.1	-1,164.3	78.3	1,166.9	2.96	-2.93	0.73
3,030.0	28.32	179.57	2,690.3	-1,178.8	78.4	1,181.4	4.64	-4.57	-1.70
3,060.0	26.70	178.77	2,716.9	-1,192.7	78.6	1,195.3	5.54	-5.40	-2.67
3,090.0	25.64	178.40	2,743.8	-1,205.9	78.9	1,208.5	3.57	-3.53	-1.23
3,120.0	24.45	178.04	2,771.0	-1,218.6	79.3	1,221.2	4.00	-3.97	-1.20
3,150.0	23.65	177.57	2,798.4	-1,230.8	79.8	1,233.4	2.74	-2.67	-1.57
3,180.0	22.85	176.38	2,826.0	-1,242.6	80.4	1,245.2	3.09	-2.67	-3.97
3,210.0	21.94	175.35	2,853.7	-1,254.0	81.2	1,256.7	3.30	-3.03	-3.43
3,240.0	20.78	174.93	2,881.7	-1,264.9	82.1	1,267.6	3.90	-3.87	-1.40
3,270.0	19.63	174.81	2,909.8	-1,275.3	83.1	1,277.9	3.84	-3.83	-0.40
3,300.0	18.81	175.24	2,938.1	-1,285.1	83.9	1,287.8	2.77	-2.73	1.43
3,330.0	17.42	174.69	2,966.6	-1,294.4	84.7	1,297.1	4.67	-4.63	-1.83
3,360.0	16.07	173.06	2,995.4	-1,303.0	85.6	1,305.8	4.76	-4.50	-5.43
3,390.0	15.12	171.56	3,024.3	-1,311.0	86.7	1,313.8	3.44	-3.17	-5.00
3,420.0	14.21	171.39	3,053.3	-1,318.5	87.8	1,321.4	3.04	-3.03	-0.57
3,450.0	13.29	171.71	3,082.4	-1,325.5	88.9	1,328.5	3.08	-3.07	1.07
3,480.0	12.20	171.28	3,111.7	-1,332.1	89.9	1,335.1	3.65	-3.63	-1.43
3,510.0	11.18	171.13	3,141.1	-1,338.1	90.8	1,341.2	3.40	-3.40	-0.50
3,540.0	10.29	171.73	3,170.5	-1,343.6	91.6	1,346.7	2.99	-2.97	2.00
3,570.0	9.31	174.11	3,200.1	-1,348.7	92.3	1,351.8	3.53	-3.27	7.93
3,600.0	8.53	175.89	3,229.7	-1,353.3	92.7	1,356.5	2.76	-2.60	5.93

Scientific Drilling International, Inc.

Survey Report

Company:	ConocoPhillips	Local Co-ordinate Reference:	Site SEC 35-T30N-R7W
Project:	SJB (NM Central)	TVD Reference:	DFE @ 6874.0ft (H&P 282)
Site:	SEC 35-T30N-R7W	MD Reference:	DFE @ 6874.0ft (H&P 282)
Well:	SJ 30-6 #101M	North Reference:	True
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Actual - E-field	Database:	edmCOP

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
3,630.0	7.66	177.11	3,259.4	-1,357.5	92.9	1,360.7	2.96	-2.90	4.07
3,660.0	6.53	178.74	3,289.2	-1,361.2	93.1	1,364.4	3.83	-3.77	5.43
3,690.0	5.33	182.82	3,319.1	-1,364.3	93.0	1,367.5	4.24	-4.00	13.60
3,720.0	4.49	186.47	3,348.9	-1,366.9	92.8	1,370.0	2.99	-2.80	12.17
3,750.0	3.36	194.25	3,378.9	-1,368.9	92.5	1,372.0	4.16	-3.77	25.93
3,780.0	2.44	204.81	3,408.8	-1,370.3	92.0	1,373.4	3.53	-3.07	35.20
3,810.0	2.04	212.54	3,438.8	-1,371.4	91.5	1,374.4	1.67	-1.33	25.77
3,840.0	1.77	214.58	3,468.8	-1,372.2	90.9	1,375.2	0.93	-0.90	6.80
3,870.0	1.49	218.03	3,498.8	-1,372.9	90.4	1,375.8	0.99	-0.93	11.50
3,900.0	1.21	222.64	3,528.8	-1,373.4	89.9	1,376.4	1.00	-0.93	15.37
3,930.0	1.07	221.91	3,558.8	-1,373.9	89.5	1,376.8	0.47	-0.47	-2.43
3,960.0	1.02	221.44	3,588.8	-1,374.3	89.2	1,377.1	0.17	-0.17	-1.57
3,990.0	0.84	218.95	3,618.8	-1,374.6	88.9	1,377.5	0.61	-0.60	-8.30
4,020.0	0.18	146.06	3,648.8	-1,374.9	88.8	1,377.7	2.69	-2.20	-242.97
4,050.0	0.81	63.85	3,678.8	-1,374.8	89.0	1,377.7	2.69	2.10	-274.03
4,080.0	1.43	55.99	3,708.8	-1,374.5	89.5	1,377.4	2.12	2.07	-26.20
4,110.0	1.56	53.31	3,738.7	-1,374.0	90.1	1,377.0	0.49	0.43	-8.93
4,140.0	1.65	50.91	3,768.7	-1,373.5	90.8	1,376.5	0.37	0.30	-8.00
4,170.0	1.77	49.20	3,798.7	-1,373.0	91.5	1,376.0	0.43	0.40	-5.70
4,200.0	1.75	51.76	3,828.7	-1,372.4	92.2	1,375.5	0.27	-0.07	8.53
4,230.0	1.66	51.49	3,858.7	-1,371.8	92.9	1,375.0	0.30	-0.30	-0.90
4,260.0	1.74	53.89	3,888.7	-1,371.3	93.6	1,374.5	0.36	0.27	8.00
4,290.0	1.60	56.94	3,918.7	-1,370.8	94.3	1,374.0	0.55	-0.47	10.17
4,320.0	1.59	57.90	3,948.7	-1,370.3	95.0	1,373.6	0.10	-0.03	3.20
4,350.0	1.42	64.73	3,978.6	-1,370.0	95.7	1,373.3	0.82	-0.57	22.77
4,380.0	1.41	72.59	4,008.6	-1,369.7	96.4	1,373.1	0.65	-0.03	26.20
4,410.0	1.25	78.13	4,038.6	-1,369.5	97.0	1,372.9	0.68	-0.53	18.47
4,440.0	1.10	79.55	4,068.6	-1,369.4	97.7	1,372.9	0.51	-0.50	4.73
4,470.0	0.88	86.79	4,098.6	-1,369.3	98.2	1,372.8	0.84	-0.73	24.13
4,500.0	0.72	92.95	4,128.6	-1,369.3	98.6	1,372.9	0.60	-0.53	20.53
4,530.0	0.61	108.10	4,158.6	-1,369.4	98.9	1,372.9	0.69	-0.37	50.50
4,560.0	0.57	115.56	4,188.6	-1,369.5	99.2	1,373.1	0.29	-0.13	24.87
4,590.0	0.43	129.47	4,218.6	-1,369.6	99.4	1,373.2	0.61	-0.47	46.37
4,620.0	0.45	141.33	4,248.6	-1,369.8	99.6	1,373.4	0.31	0.07	39.53
4,650.0	0.41	145.96	4,278.6	-1,370.0	99.7	1,373.6	0.18	-0.13	15.43
4,680.0	0.50	141.49	4,308.6	-1,370.2	99.9	1,373.8	0.32	0.30	-14.90
4,710.0	0.48	145.69	4,338.6	-1,370.4	100.0	1,374.0	0.14	-0.07	14.00
4,740.0	0.49	144.61	4,368.6	-1,370.6	100.2	1,374.2	0.05	0.03	-3.60
4,770.0	0.49	138.90	4,398.6	-1,370.8	100.3	1,374.4	0.16	0.00	-19.03
4,800.0	0.53	140.90	4,428.6	-1,371.0	100.5	1,374.7	0.15	0.13	6.67
4,830.0	0.55	138.89	4,458.6	-1,371.2	100.7	1,374.9	0.09	0.07	-6.70
4,860.0	0.58	133.04	4,488.6	-1,371.4	100.9	1,375.1	0.22	0.10	-19.50
4,890.0	0.58	134.11	4,518.6	-1,371.6	101.1	1,375.3	0.04	0.00	3.57
4,920.0	0.59	141.75	4,548.6	-1,371.8	101.3	1,375.6	0.26	0.03	25.47
4,950.0	0.54	142.98	4,578.6	-1,372.1	101.5	1,375.8	0.17	-0.17	4.10
4,980.0	0.54	147.73	4,608.6	-1,372.3	101.6	1,376.1	0.15	0.00	15.83
5,010.0	0.51	160.23	4,638.6	-1,372.6	101.8	1,376.3	0.39	-0.10	41.67
5,040.0	0.47	168.34	4,668.6	-1,372.8	101.8	1,376.6	0.27	-0.13	27.03
5,070.0	0.37	167.98	4,698.6	-1,373.0	101.9	1,376.8	0.33	-0.33	-1.20
5,100.0	0.44	179.44	4,728.6	-1,373.2	101.9	1,377.0	0.36	0.23	38.20
5,130.0	0.47	188.41	4,758.6	-1,373.5	101.9	1,377.2	0.26	0.10	29.90
5,160.0	0.39	185.14	4,788.6	-1,373.7	101.9	1,377.5	0.28	-0.27	-10.90
5,190.0	0.47	184.88	4,818.6	-1,373.9	101.8	1,377.7	0.27	0.27	-0.87
5,220.0	0.48	190.61	4,848.6	-1,374.2	101.8	1,377.9	0.16	0.03	19.10

Scientific Drilling International, Inc.
Survey Report

Company:	ConocoPhillips	Local Co-ordinate Reference:	Site SEC 35-T30N-R7W
Project:	SJB (NM Central)	TVD Reference:	DFE @ 6874.0ft (H&P 282)
Site:	SEC 35-T30N-R7W	MD Reference:	DFE @ 6874.0ft (H&P 282)
Well:	SJ 30-6 #101M	North Reference:	True
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Actual - E-field	Database:	edmCOP

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
5,250.0	0.37	188.13	4,878.6	-1,374.4	101.8	1,378.1	0.37	-0.37	-8.27
5,280.0	0.37	183.62	4,908.6	-1,374.6	101.8	1,378.3	0.10	0.00	-15.03
5,310.0	0.40	187.17	4,938.6	-1,374.8	101.7	1,378.5	0.13	0.10	11.83
5,340.0	0.34	192.30	4,968.6	-1,375.0	101.7	1,378.7	0.23	-0.20	17.10
5,370.0	0.35	191.62	4,998.6	-1,375.1	101.7	1,378.9	0.04	0.03	-2.27
5,400.0	0.39	191.37	5,028.6	-1,375.3	101.6	1,379.1	0.13	0.13	-0.83
5,430.0	0.33	188.15	5,058.6	-1,375.5	101.6	1,379.3	0.21	-0.20	-10.73
5,460.0	0.35	194.25	5,088.6	-1,375.7	101.6	1,379.4	0.14	0.07	20.33
5,490.0	0.30	186.71	5,118.6	-1,375.9	101.5	1,379.6	0.22	-0.17	-25.13
5,520.0	0.28	190.69	5,148.6	-1,376.0	101.5	1,379.7	0.09	-0.07	13.27
5,550.0	0.27	188.56	5,178.6	-1,376.1	101.5	1,379.9	0.05	-0.03	-7.10
5,580.0	0.34	190.58	5,208.6	-1,376.3	101.5	1,380.0	0.24	0.23	6.73
5,610.0	0.34	200.25	5,238.6	-1,376.5	101.4	1,380.2	0.19	0.00	32.23
5,640.0	0.33	200.20	5,268.6	-1,376.6	101.3	1,380.4	0.03	-0.03	-0.17
5,670.0	0.31	201.95	5,298.6	-1,376.8	101.3	1,380.5	0.07	-0.07	5.83
5,700.0	0.36	197.22	5,328.6	-1,377.0	101.2	1,380.7	0.19	0.17	-15.77
5,730.0	0.34	196.74	5,358.6	-1,377.1	101.2	1,380.8	0.07	-0.07	-1.60
5,760.0	0.43	202.32	5,388.6	-1,377.3	101.1	1,381.0	0.32	0.30	18.60
5,790.0	0.39	198.43	5,418.6	-1,377.5	101.0	1,381.2	0.16	-0.13	-12.97
5,820.0	0.36	195.99	5,448.6	-1,377.7	101.0	1,381.4	0.11	-0.10	-8.13
5,850.0	0.36	201.79	5,478.6	-1,377.9	100.9	1,381.6	0.12	0.00	19.33
5,880.0	0.46	214.64	5,508.6	-1,378.1	100.8	1,381.8	0.45	0.33	42.83
5,910.0	0.45	214.22	5,538.6	-1,378.3	100.7	1,381.9	0.04	-0.03	-1.40
5,940.0	0.34	242.16	5,568.6	-1,378.4	100.5	1,382.1	0.73	-0.37	93.13
5,970.0	0.31	251.25	5,598.6	-1,378.5	100.4	1,382.1	0.20	-0.10	30.30
6,000.0	0.30	200.03	5,628.6	-1,378.6	100.3	1,382.2	0.88	-0.03	-170.73
6,030.0	0.25	199.19	5,658.6	-1,378.7	100.2	1,382.4	0.17	-0.17	-2.80
6,060.0	0.25	181.15	5,688.6	-1,378.8	100.2	1,382.5	0.26	0.00	-60.13
6,090.0	0.27	188.45	5,718.6	-1,379.0	100.2	1,382.6	0.13	0.07	24.33
6,120.0	0.30	198.53	5,748.6	-1,379.1	100.1	1,382.8	0.19	0.10	33.60
6,150.0	0.36	205.23	5,778.6	-1,379.3	100.1	1,382.9	0.24	0.20	22.33
6,180.0	0.53	206.05	5,808.6	-1,379.5	100.0	1,383.1	0.57	0.57	2.73
6,210.0	0.65	220.12	5,838.6	-1,379.8	99.8	1,383.4	0.62	0.40	46.90
6,240.0	0.75	223.35	5,868.6	-1,380.0	99.6	1,383.6	0.36	0.33	10.77
6,270.0	0.82	222.37	5,898.6	-1,380.3	99.3	1,383.9	0.24	0.23	-3.27
6,300.0	0.83	224.98	5,928.6	-1,380.6	99.0	1,384.2	0.13	0.03	8.70
6,330.0	0.88	221.12	5,958.6	-1,381.0	98.7	1,384.5	0.25	0.17	-12.87
6,360.0	0.87	217.18	5,988.6	-1,381.3	98.4	1,384.8	0.20	-0.03	-13.13
6,390.0	0.89	219.69	6,018.6	-1,381.7	98.1	1,385.2	0.14	0.07	8.37
6,420.0	0.88	217.82	6,048.6	-1,382.0	97.8	1,385.5	0.10	-0.03	-6.23
6,450.0	0.81	215.22	6,078.6	-1,382.4	97.6	1,385.8	0.27	-0.23	-8.67
6,480.0	0.66	212.04	6,108.6	-1,382.7	97.3	1,386.1	0.52	-0.50	-10.60
6,510.0	0.63	206.36	6,138.6	-1,383.0	97.2	1,386.4	0.24	-0.10	-18.93
6,540.0	0.58	203.06	6,168.6	-1,383.3	97.0	1,386.7	0.20	-0.17	-11.00
6,570.0	0.58	206.62	6,198.6	-1,383.6	96.9	1,387.0	0.12	0.00	11.87
6,600.0	0.55	204.08	6,228.6	-1,383.8	96.8	1,387.2	0.13	-0.10	-8.47
6,630.0	0.57	196.41	6,258.6	-1,384.1	96.7	1,387.5	0.26	0.07	-25.57
6,660.0	0.58	201.72	6,288.6	-1,384.4	96.6	1,387.8	0.18	0.03	17.70
6,690.0	0.57	194.52	6,318.6	-1,384.7	96.5	1,388.0	0.24	-0.03	-24.00
6,720.0	0.56	196.99	6,348.6	-1,385.0	96.4	1,388.3	0.09	-0.03	8.23
6,750.0	0.56	194.19	6,378.6	-1,385.3	96.3	1,388.6	0.09	0.00	-9.33
6,780.0	0.58	193.34	6,408.6	-1,385.5	96.3	1,388.9	0.07	0.07	-2.83
6,810.0	0.58	191.43	6,438.6	-1,385.8	96.2	1,389.2	0.06	0.00	-6.37
6,840.0	0.66	192.64	6,468.6	-1,386.2	96.1	1,389.5	0.27	0.27	4.03

Scientific Drilling International, Inc.

Survey Report

Company:	ConocoPhillips	Local Co-ordinate Reference:	Site SEC 35-T30N-R7W
Project:	SJB (NM Central)	TVD Reference:	DFE @ 6874 0ft (H&P 282)
Site:	SEC 35-T30N-R7W	MD Reference:	DFE @ 6874 0ft (H&P 282)
Well:	SJ 30-6 #101M	North Reference:	True
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Actual - E-field	Database:	edmCOP

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
6,870.0	0.65	195.73	6,498.5	-1,386.5	96.0	1,389.8	0.12	-0.03	10.30
6,900.0	0.69	193.01	6,528.5	-1,386.8	96.0	1,390.1	0.17	0.13	-9.07
6,930.0	0.68	193.67	6,558.5	-1,387.2	95.9	1,390.5	0.04	-0.03	2.20
6,960.0	0.66	192.65	6,588.5	-1,387.5	95.8	1,390.8	0.08	-0.07	-3.40
6,990.0	0.69	195.09	6,618.5	-1,387.9	95.7	1,391.2	0.14	0.10	8.13
7,020.0	0.63	197.84	6,648.5	-1,388.2	95.6	1,391.5	0.23	-0.20	9.17
7,050.0	0.56	198.63	6,678.5	-1,388.5	95.5	1,391.8	0.23	-0.23	2.63
7,080.0	0.59	205.65	6,708.5	-1,388.8	95.4	1,392.0	0.26	0.10	23.40
7,110.0	0.57	199.75	6,738.5	-1,389.0	95.3	1,392.3	0.21	-0.07	-19.67
7,140.0	0.56	202.66	6,768.5	-1,389.3	95.2	1,392.6	0.10	-0.03	9.70
7,170.0	0.54	211.18	6,798.5	-1,389.6	95.1	1,392.8	0.28	-0.07	28.40
7,200.0	0.52	213.14	6,828.5	-1,389.8	94.9	1,393.0	0.09	-0.07	6.53
7,230.0	0.54	219.94	6,858.5	-1,390.0	94.7	1,393.3	0.22	0.07	22.67
7,260.0	0.46	225.26	6,888.5	-1,390.2	94.6	1,393.4	0.31	-0.27	17.73
7,290.0	0.40	225.35	6,918.5	-1,390.4	94.4	1,393.6	0.20	-0.20	0.30
7,320.0	0.51	223.53	6,948.5	-1,390.6	94.2	1,393.7	0.37	0.37	-6.07
7,350.0	0.45	215.06	6,978.5	-1,390.8	94.1	1,393.9	0.31	-0.20	-28.23
7,380.0	0.52	218.89	7,008.5	-1,391.0	93.9	1,394.1	0.26	0.23	12.77
7,410.0	0.47	217.45	7,038.5	-1,391.2	93.8	1,394.3	0.17	-0.17	-4.80
7,440.0	0.47	212.82	7,068.5	-1,391.4	93.6	1,394.5	0.13	0.00	-15.43
7,470.0	0.44	222.15	7,098.5	-1,391.5	93.5	1,394.7	0.27	-0.10	31.10
7,500.0	0.41	223.76	7,128.5	-1,391.7	93.3	1,394.8	0.11	-0.10	5.37
7,530.0	0.42	223.98	7,158.5	-1,391.9	93.2	1,395.0	0.03	0.03	0.73
7,560.0	0.38	231.25	7,188.5	-1,392.0	93.0	1,395.1	0.22	-0.13	24.23
7,590.0	0.49	228.31	7,218.5	-1,392.2	92.8	1,395.2	0.37	0.37	-9.80
7,620.0	0.42	224.31	7,248.5	-1,392.3	92.7	1,395.4	0.26	-0.23	-13.33
7,650.0	0.41	223.56	7,278.5	-1,392.5	92.5	1,395.5	0.04	-0.03	-2.50
7,680.0	0.41	218.98	7,308.5	-1,392.6	92.4	1,395.7	0.11	0.00	-15.27
7,710.0	0.41	207.32	7,338.5	-1,392.8	92.3	1,395.9	0.28	0.00	-38.87
7,740.0	0.37	214.90	7,368.5	-1,393.0	92.2	1,396.0	0.22	-0.13	25.27
7,770.0	0.36	212.62	7,398.5	-1,393.2	92.1	1,396.2	0.06	-0.03	-7.60
7,800.0	0.35	208.52	7,428.5	-1,393.3	92.0	1,396.3	0.09	-0.03	-13.67
7,830.0	0.41	210.19	7,458.5	-1,393.5	91.9	1,396.5	0.20	0.20	5.57
7,860.0	0.42	207.93	7,488.5	-1,393.7	91.8	1,396.7	0.06	0.03	-7.53
7,890.0	0.43	208.77	7,518.5	-1,393.9	91.7	1,396.9	0.04	0.03	2.80
7,920.0	0.33	190.79	7,548.5	-1,394.1	91.6	1,397.0	0.51	-0.33	-59.93
7,950.0	0.30	156.68	7,578.5	-1,394.2	91.6	1,397.2	0.62	-0.10	-113.70
7,980.0	0.46	145.03	7,608.5	-1,394.4	91.7	1,397.4	0.59	0.53	-38.83
8,010.0	0.52	135.70	7,638.5	-1,394.6	91.9	1,397.6	0.33	0.20	-31.10
8,040.0	0.62	132.14	7,668.5	-1,394.8	92.1	1,397.8	0.35	0.33	-11.87
8,070.0	0.76	129.43	7,698.5	-1,395.0	92.4	1,398.1	0.48	0.47	-9.03
8,100.0	0.79	130.12	7,728.5	-1,395.3	92.7	1,398.3	0.10	0.10	2.30
8,130.0	0.91	132.35	7,758.5	-1,395.6	93.0	1,398.7	0.41	0.40	7.43
8,160.0	0.76	115.09	7,788.5	-1,395.8	93.4	1,398.9	0.97	-0.50	-57.53
8,190.0	0.85	130.86	7,818.5	-1,396.0	93.7	1,399.2	0.79	0.30	52.57
8,220.0	0.93	125.82	7,848.5	-1,396.3	94.1	1,399.5	0.37	0.27	-16.80
8,250.0	0.84	127.03	7,878.4	-1,396.6	94.4	1,399.8	0.31	-0.30	4.03
8,280.0	0.73	121.87	7,908.4	-1,396.8	94.8	1,400.0	0.44	-0.37	-17.20
8,310.0	0.73	138.91	7,938.4	-1,397.1	95.1	1,400.3	0.72	0.00	56.80
8,340.0	0.96	163.37	7,968.4	-1,397.5	95.3	1,400.7	1.41	0.77	81.53
8,370.0	1.27	172.34	7,998.4	-1,398.0	95.4	1,401.3	1.18	1.03	29.90
8,400.0	1.23	178.43	8,028.4	-1,398.7	95.4	1,401.9	0.46	-0.13	20.30
8,430.0	1.16	187.86	8,058.4	-1,399.3	95.4	1,402.6	0.69	-0.23	31.43
8,460.0	1.20	189.48	8,088.4	-1,399.9	95.3	1,403.2	0.17	0.13	5.40

Scientific Drilling International, Inc.

Survey Report

Company:	ConocoPhillips	Local Co-ordinate Reference:	Site SEC 35-T30N-R7W
Project:	SJB (NM Central)	TVD Reference:	DFE @ 6874.0ft (H&P 282)
Site:	SEC 35-T30N-R7W	MD Reference:	DFE @ 6874.0ft (H&P 282)
Well:	SJ 30-6 #101M	North Reference:	True
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Actual - E-field	Database:	edmCOP

Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
8,490.0	1.24	189.91	8,118.4	-1,400.6	95.2	1,403.8	0.14	0.13	1.43	
8,520.0	1.32	190.69	8,148.4	-1,401.2	95.1	1,404.4	0.27	0.27	2.60	
8,550.0	1.69	189.51	8,178.4	-1,402.0	94.9	1,405.2	1.24	1.23	-3.93	
8,560.0	1.70	189.18	8,188.4	-1,402.3	94.9	1,405.5	0.14	0.10	-3.30	