

"As Drilled Plat"

RCVD NOV 10 '08
OIL CONS. DIV.
DIST. 3

DISTRICT I
1826 N. French Dr., Hobbs, N.M. 88240

State of New Mexico
Energy, Minerals & Natural Resources Department

Form C-102

DISTRICT II-
1301 W. Grand Avenue, Artesia, N.M. 88210

Revised October 12, 2005

DISTRICT III
1000 Rio Brazos Rd., Aztec, N.M. 87410

OIL CONSERVATION DIVISION

1220 South St. Francis Dr.
Santa Fe, N.M. 87505

DISTRICT IV
1220 S. St. Francis Dr., Santa Fe, N.M. 87505

Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-039-30518	² Pool Code 71599	³ Pool Name BASIN DAKOTA
⁴ Property Code 7454	⁵ Property Name SAN JUAN 27-5 UNIT	⁶ Well Number 126E
⁷ OGED No. 14538	⁸ Operator Name BURLINGTON RESOURCES OIL & GAS COMPANY LP.	⁹ Elevation 6636

¹⁰ Surface Location

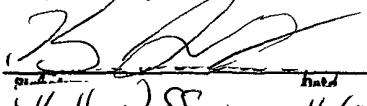
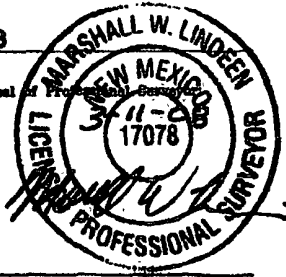
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
L	7	27 N	5 W		2626	SOUTH	185	WEST	RIO ARRIBA

¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
H	7	27 N	5 W		2614'	NORTH	1607	West	RIO ARRIBA

¹² Dedicated Acres 322.04	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No. R-72868C project area
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NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

16 N 89°36'22" E 2742.23'	N 89°37'10" E 2714.31'	¹⁷ OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.  Printed Name Kelly J. Jones 11-6-8
USA SF-079391		
SECTION 7		
185' 1607' → NAD 83 LAT: 36.588791° N LONG: 107.408930° W NAD 27 LAT: 36° 35.3269' N LONG: 107° 24.4996' W		
2631.01' N 0°05'46" E	2616.10' S 0°23'21" E	¹⁸ SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief. 3/03/08 Date of Survey Signature and Seal of Professional Surveyor  17078 Certificate Number
2633.48' N 0°03'18" E	2616.10' S 0°35'07" E	
S 89°34'47" W 2762.34'	S 89°36'22" W 2745.85'	

○ = SURFACE LOCATION
● = BOTTOM HOLE LOCATION

2 11/20



COP Deviation Report

SAN JUAN 27-5 UNIT HZ #126E

Operator BURLINGTON RESOURCES OIL & GAS COMPANY LP	Legal WellName SAN JUAN 27-5 UNIT HZ #126E	API / UWI 3003930518	County RIO ARRIBA	State/Province NEW MEXICO
Surface Legal Location 007-027N-005W-L	N/S Dist (ft) 2,626.00	N/S Ref FSL	E/W Dist (ft) 185.00	E/W Ref FWL

Date	MD (ftKB)	Incl (°)	Method	Survey Company
8/7/2008	100.00	0.53	Gyro MS	Scientific Drilling
7/29/2008	130.00	1.00	Incl	TOTCO
8/7/2008	200.00	0.56	Gyro MS	Scientific Drilling
7/29/2008	240.00	1.00	Incl	TOTCO
8/7/2008	300.00	0.67	Gyro MS	Scientific Drilling
8/7/2008	400.00	0.63	Gyro MS	Scientific Drilling
8/1/2008	454.00	1.00	Incl	TELEDRIFT
8/7/2008	500.00	0.73	Gyro MS	Scientific Drilling
8/7/2008	600.00	1.13	Gyro MS	Scientific Drilling
8/1/2008	699.00	1.00	Incl	TELEDRIFT
8/7/2008	700.00	1.51	Gyro MS	Scientific Drilling
8/7/2008	800.00	2.05	Gyro MS	Scientific Drilling
8/7/2008	900.00	2.21	Gyro MS	Scientific Drilling
8/2/2008	984.00	1.00	Incl	TELEDRIFT
8/7/2008	1,000.00	2.36	Gyro MS	Scientific Drilling
8/7/2008	1,100.00	2.68	Gyro MS	Scientific Drilling
8/2/2008	1,146.00	2.00	Incl	TELEDRIFT
8/7/2008	1,200.00	2.46	Gyro MS	Scientific Drilling
8/2/2008	1,241.00	2.00	Incl	TELEDRIFT
8/7/2008	1,300.00	2.59	Gyro MS	Scientific Drilling
8/2/2008	1,364.00	2.00	Incl	TELEDRIFT
8/7/2008	1,400.00	2.68	Gyro MS	Scientific Drilling
8/2/2008	1,491.00	2.00	Incl	TELEDRIFT
8/7/2008	1,500.00	2.82	Gyro MS	Scientific Drilling
8/7/2008	1,600.00	3.00	Gyro MS	Scientific Drilling
8/7/2008	1,700.00	3.59	Gyro MS	Scientific Drilling
8/2/2008	1,740.00	3.00	Incl	TELEDRIFT
8/7/2008	1,800.00	3.67	Gyro MS	Scientific Drilling
8/7/2008	1,900.00	3.22	Gyro MS	Scientific Drilling
8/3/2008	1,991.00	3.00	Incl	TELEDRIFT
8/7/2008	2,000.00	2.67	Gyro MS	Scientific Drilling
8/7/2008	2,100.00	2.40	Gyro MS	Scientific Drilling
8/3/2008	2,115.00	2.00	Incl	TELEDRIFT
8/7/2008	2,200.00	2.24	Gyro MS	Scientific Drilling
8/3/2008	2,242.00	2.00	Incl	TELEDRIFT

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 _____

REC'D NOV 10 '08
OIL CONS. DIV.
0107-3

COP Deviation Report

SAN JUAN 27-5 UNIT HZ #126E

Survey Data					
Date	MD (ftKB)	Incl (°)	Method	Survey Company	
8/7/2008	2,300.00	1.96	Gyro MS	Scientific Drilling	
8/3/2008	2,368.00	1.00	Incl	TELEDRIFT	
8/7/2008	2,400.00	1.81	Gyro MS	Scientific Drilling	
8/7/2008	2,500.00	1.36	Gyro MS	Scientific Drilling	
8/7/2008	2,600.00	1.26	Gyro MS	Scientific Drilling	
8/4/2008	2,620.00	1.00	Incl	TELEDRIFT	
8/7/2008	2,700.00	1.12	Gyro MS	Scientific Drilling	
8/4/2008	2,775.00	2.00	Incl	TELEDRIFT	
8/7/2008	2,800.00	0.90	Gyro MS	Scientific Drilling	
8/7/2008	2,900.00	1.21	Gyro MS	Scientific Drilling	
8/4/2008	2,932.00	1.00	Incl	TELEDRIFT	
8/7/2008	3,000.00	1.31	Gyro MS	Scientific Drilling	
8/5/2008	3,035.00	1.00	Incl	TELEDRIFT	
8/7/2008	3,100.00	1.41	Gyro MS	Scientific Drilling	
8/7/2008	3,200.00	1.59	Gyro MS	Scientific Drilling	
8/7/2008	3,300.00	1.42	Gyro MS	Scientific Drilling	
8/5/2008	3,342.00	1.00	Incl	TELEDRIFT	
8/7/2008	3,400.00	1.47	Gyro MS	Scientific Drilling	
8/7/2008	3,500.00	1.45	Gyro MS	Scientific Drilling	
8/5/2008	3,594.00	1.00	Incl	TELEDRIFT	
8/7/2008	3,600.00	1.56	Gyro MS	Scientific Drilling	
8/10/2008	3,754.00	1.35	MWD	Scientific Drilling	
8/10/2008	3,846.00	1.16	MWD	Scientific Drilling	
8/10/2008	3,909.00	0.58	MWD	Scientific Drilling	
8/10/2008	4,003.00	0.17	MWD	Scientific Drilling	
8/10/2008	4,193.00	1.07	MWD	Scientific Drilling	
8/10/2008	4,288.00	1.43	MWD	Scientific Drilling	
8/10/2008	4,382.00	1.49	MWD	Scientific Drilling	
8/10/2008	4,476.00	1.72	MWD	Scientific Drilling	
8/10/2008	4,665.00	1.71	MWD	Scientific Drilling	
8/10/2008	4,758.00	1.78	MWD	Scientific Drilling	
8/10/2008	4,852.00	2.45	MWD	Scientific Drilling	
8/10/2008	4,947.00	2.05	MWD	Scientific Drilling	
8/10/2008	5,134.00	2.56	MWD	Scientific Drilling	
8/10/2008	5,227.00	2.96	MWD	Scientific Drilling	
8/10/2008	5,322.00	2.29	MWD	Scientific Drilling	
8/10/2008	5,416.00	2.20	MWD	Scientific Drilling	
8/10/2008	5,607.00	1.57	MWD	Scientific Drilling	
8/11/2008	5,700.00	0.94	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 _____



COP Deviation Report
SAN JUAN 27-5 UNIT HZ #126E

Survey Data

Date	MD (ftKB)	Incl (°)	Method	Survey Company
8/11/2008	5,795.00	0.48	MWD	Scientific Drilling
8/11/2008	5,890.00	0.56	MWD	Scientific Drilling
8/11/2008	5,985.00	1.44	MWD	Scientific Drilling
8/11/2008	6,080.00	1.93	MWD	Scientific Drilling
8/11/2008	6,174.00	2.33	MWD	Scientific Drilling
8/11/2008	6,299.00	1.45	MWD	Scientific Drilling
8/13/2008	6,394.00	2.09	MWD	Scientific Drilling
8/13/2008	6,583.00	1.79	MWD	Scientific Drilling
8/13/2008	6,679.00	1.96	MWD	Scientific Drilling
8/14/2008	6,772.00	1.68	MWD	Scientific Drilling
8/14/2008	6,866.00	1.70	MWD	Scientific Drilling
8/15/2008	7,041.00	1.67	MWD	Scientific Drilling
8/15/2008	7,136.00	1.34	MWD	Scientific Drilling
8/15/2008	7,269.00	0.40	MWD	Scientific Drilling
8/17/2008	7,314.00	0.34	MWD	Scientific Drilling
9/4/2008	7,344.00	3.34	MWD	Scientific Drilling
8/17/2008	7,375.00	8.86	MWD	Scientific Drilling
8/18/2008	7,407.00	14.30	MWD	Scientific Drilling
8/18/2008	7,439.00	18.52	MWD	Scientific Drilling
8/18/2008	7,470.00	21.21	MWD	Scientific Drilling
8/18/2008	7,500.00	24.00	MWD	Scientific Drilling
8/18/2008	7,532.00	27.23	MWD	Scientific Drilling
8/19/2008	7,563.00	30.08	MWD	Scientific Drilling
8/19/2008	7,595.00	33.29	MWD	Scientific Drilling
8/19/2008	7,626.00	37.62	MWD	Scientific Drilling
8/23/2008	7,658.00	42.57	MWD	Scientific Drilling
8/23/2008	7,689.00	47.39	MWD	Scientific Drilling
8/23/2008	7,720.00	51.18	MWD	Scientific Drilling
8/23/2008	7,752.00	55.14	MWD	Scientific Drilling
8/24/2008	7,783.00	59.16	MWD	Scientific Drilling
8/24/2008	7,815.00	62.16	MWD	Scientific Drilling
8/24/2008	7,846.00	64.77	MWD	Scientific Drilling
8/24/2008	7,878.00	66.83	MWD	Scientific Drilling
8/24/2008	7,909.00	69.50	MWD	Scientific Drilling
8/24/2008	7,941.00	72.48	MWD	Scientific Drilling
8/24/2008	7,973.00	73.62	MWD	Scientific Drilling
8/24/2008	8,005.00	74.83	MWD	Scientific Drilling
8/24/2008	8,036.00	74.65	MWD	Scientific Drilling
8/28/2008	8,056.00	74.72	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 _____

COP Deviation Report **SAN JUAN 27-5 UNIT HZ #126E**

Survey Data

Date	MD (ftKB)	Incl (°)	Method	Survey Company
8/28/2008	8,088.00	75.46	MWD	Scientific Drilling
8/28/2008	8,120.00	76.90	MWD	Scientific Drilling
8/28/2008	8,137.00	77.95	MWD	Scientific Drilling
8/28/2008	8,152.00	78.89	MWD	Scientific Drilling
8/28/2008	8,178.00	79.92	MWD	Scientific Drilling
8/28/2008	8,215.00	84.25	MWD	Scientific Drilling
9/3/2008	8,247.00	86.51	MWD	Scientific Drilling
9/3/2008	8,279.00	87.18	MWD	Scientific Drilling
9/4/2008	8,311.00	87.92	MWD	Scientific Drilling
9/4/2008	8,343.00	89.03	MWD	Scientific Drilling
9/4/2008	8,410.00	89.70	MWD	Scientific Drilling
9/4/2008	8,442.00	88.99	MWD	Scientific Drilling
9/4/2008	8,474.00	88.66	MWD	Scientific Drilling
9/25/2008	8,504.00	89.66	MWD	Scientific Drilling
9/25/2008	8,537.00	90.44	MWD	Scientific Drilling
9/25/2008	8,570.00	90.54	MWD	Scientific Drilling
9/25/2008	8,601.00	90.81	MWD	Scientific Drilling
9/26/2008	8,633.00	90.74	MWD	Scientific Drilling
9/26/2008	8,665.00	90.34	MWD	Scientific Drilling
9/27/2008	8,697.00	90.67	MWD	Scientific Drilling
9/27/2008	8,729.00	90.00	MWD	Scientific Drilling
10/7/2008	8,760.00	89.93	MWD	Scientific Drilling
10/7/2008	8,822.00	88.05	MWD	Scientific Drilling
10/7/2008	8,853.00	87.88	MWD	Scientific Drilling
10/7/2008	8,885.00	87.29	MWD	Scientific Drilling
10/7/2008	8,917.00	86.84	MWD	Scientific Drilling

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.

Ash Galt

Subscribed and sworn to me this Nov 7 2008



Notary Public in and for San Juan County, New Mexico

My Commission expires Oct 9 2012



Scientific Drilling
Directional Drilling Operations

ConocoPhillips

**SAN JUAN BASIN
SEC 7-T27N-R5W
SJ 27-5 #126E**

OH Lateral #1

Design: Composite Survey

Standard Survey Report

20 October, 2008

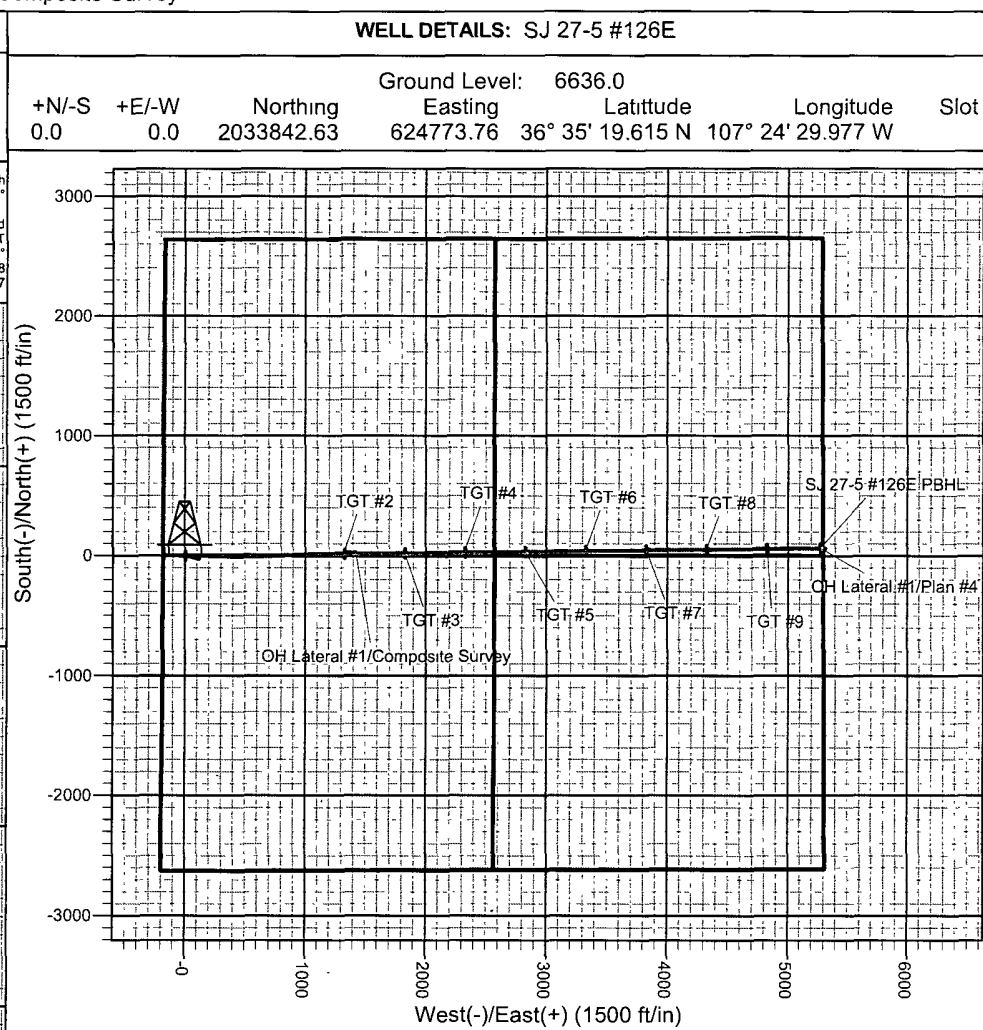
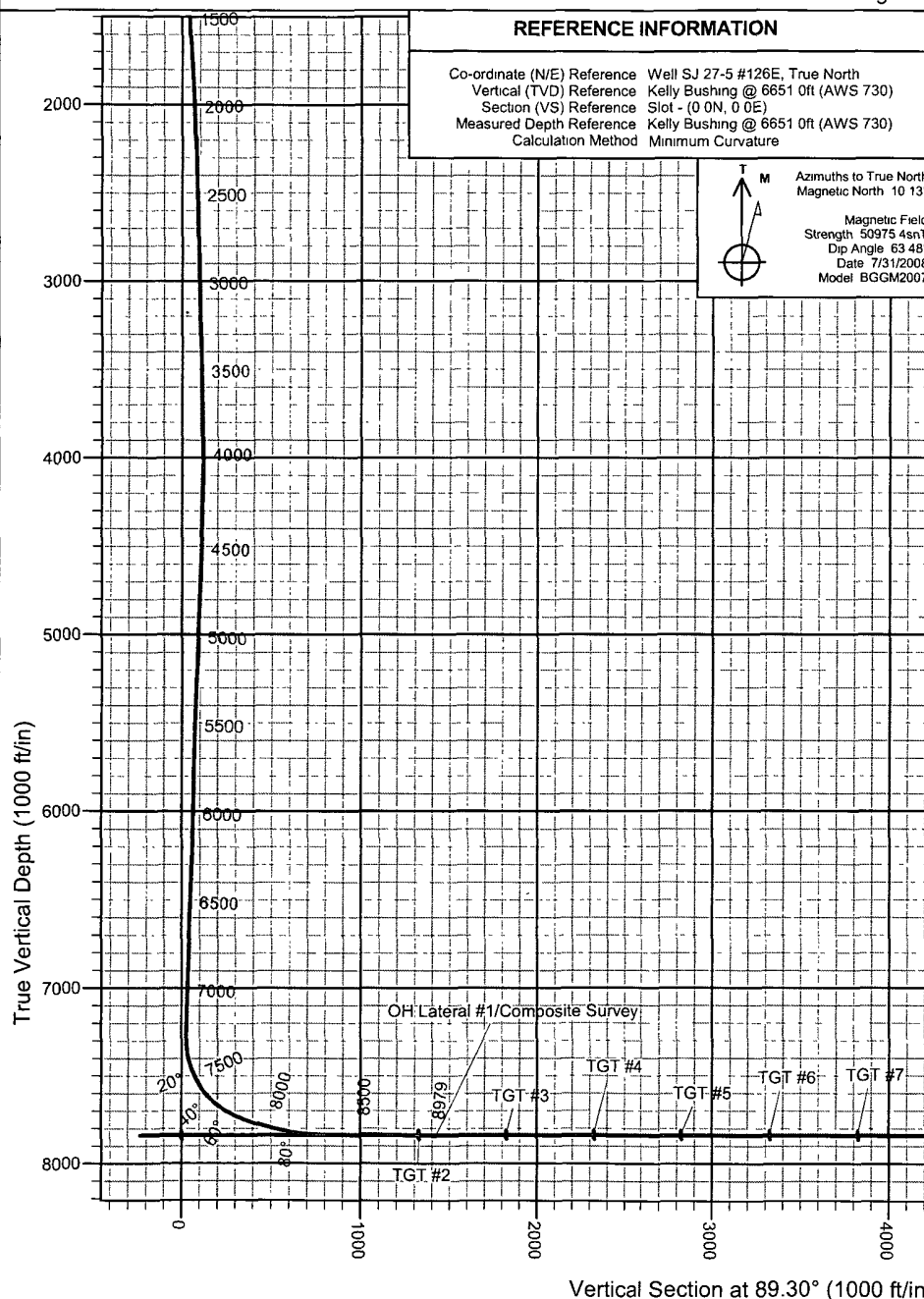
RCVD NOV 10 '08

OIL CONS. DIV.
DIST. 3


ConocoPhillips



Project: SAN JUAN BASIN
Site: SEC 7-T27N-R5W
Well: SJ 27-5 #126E
Wellbore: OH Lateral #1
Design: Composite Survey



PROJECT DETAILS

Geodetic System US State Plane 1927 (Exact solution)
Datum NAD 1927 (NADCON CONUS)
Ellipsoid Clarke 1866
Zone New Mexico West 3003
System Datum Mean Sea Level

SITE DETAILS: SEC 7-T27N-R5W

Rio Arriba County NM
Site Centre Latitude 36° 35' 19.788 N
Longitude 107° 24' 30.276 W
Positional Uncertainty 15 0
Convergence 0 25
Local North True

Company:	ConocoPhillips	Local Co-ordinate Reference:	Well SJ 27-5 #126E
Project:	SAN JUAN BASIN	TVD Reference:	Kelly Bushing @ 6651.0ft (AWS 730)
Site:	SEC 7-T27N-R5W	MD Reference:	Kelly Bushing @ 6651 0ft (AWS 730)
Well:	SJ 27-5 #126E	North Reference:	True
Wellbore:	OH Lateral #1	Survey Calculation Method:	Minimum Curvature
Design:	Composite Survey	Database:	EDM 2003 21 Single User Db

Project	SAN JUAN BASIN, NEW MEXICO		
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 West 3003		Using geodetic scale factor

Site	SEC 7-T27N-R5W		
Site Position:		Northing:	2,033,859.99ft
From:	Lat/Long	Easting:	624,749 32ft
Position Uncertainty:	30 0 ft	Slot Radius:	6-1/8"
		Latitude:	36° 35' 19 788 N
		Longitude:	107° 24' 30.276 W
		Grid Convergence:	0 25 °

Well	SJ 27-5 #126E, Dakota Horizontal		
Well Position	+N-S	0.0 ft	Northing: 2,033,842.63 ft
	+E-W	0.0 ft	Easting: 624,773.76 ft
Position Uncertainty	15.0 ft	Wellhead Elevation:	ft
		Latitude:	36° 35' 19 615 N
		Longitude:	107° 24' 29 977 W
		Ground Level:	6,636.0 ft

Wellbore	OH Lateral #1		
Magnetics	Model Name	Sample Date	Declination
	BGGM2007	7/31/2008	(°) 10 14
			Dip Angle (°) 63 48
			Field Strength (nT) 50,975

Design	Composite Survey		
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 (°) 89.30

Survey Program	Date	10/20/2008		
From	To	Survey (Wellbore)	Tool Name	Description
(ft)	(ft)			
100.0	3,600 0	SDI GYRO (OH Lateral #1)	Standard Keeper	Standard Wireline Keeper ver 1.0 2
3,754.0	8,979 0	SDI MWD (OH Lateral #1)	MWD SDI	MWD - Standard ver 1.0 1

Survey										
Measured	Inclination	Azimuth	Vertical	+N-S	+E-W	Vertical	Dogleg	Build	Turn	
Depth	(°)	(°)	Depth	(ft)	(ft)	Section	Rate	Rate	Rate	
(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	
100.0	0.53	91.05	100.0	0.0	0.5	0.5	0 53	0.53	0.00	
200.0	0.56	98.52	200.0	-0.1	1.4	1.4	0.08	0.03	7.47	
300.0	0.67	89 37	300.0	-0.2	2.5	2.5	0.15	0.11	-9.15	
400.0	0 63	83 96	400.0	-0.1	3.6	3 6	0.07	-0.04	-5.41	
500.0	0.73	102.08	500 0	-0.2	4 8	4.8	0.24	0.10	18.12	
600.0	1.13	98.44	600.0	-0.4	6.4	6 4	0.40	0.40	-3 64	
700.0	1 51	98 27	699.9	-0.8	8.7	8.6	0.38	0.38	-0.17	
800.0	2.05	89.07	799 9	-0.9	11.7	11 7	0.61	0.54	-9 20	
900.0	2.21	96.43	899.8	-1.1	15.5	15 4	0.32	0.16	7.36	
1,000.0	2.36	91 96	999.7	-1 4	19 4	19.4	0 23	0 15	-4.47	
1,100.0	2.68	95 89	1,099.6	-1.7	23.8	23 8	0.36	0.32	3 93	

Company:	ConocoPhillips	Local Co-ordinate Reference:	Well SJ 27-5 #126E
Project:	SAN JUAN BASIN	TVD Reference:	Kelly Bushing @ 6651.0ft (AWS 730)
Site:	SEC 7-T27N-R5W	MD Reference:	Kelly Bushing @ 6651.0ft (AWS 730)
Well:	SJ 27-5 #126E	North Reference:	True
Wellbore:	OH Lateral #1	Survey Calculation Method:	Minimum Curvature
Design:	Composite Survey	Database:	EDM 2003.21 Single User Db

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)	
1,200.0	2.46	99.30	1,199.5	-2.3	28.3	28.2	0.27	-0.22	3.41	
1,300.0	2.59	101.06	1,299.4	-3.1	32.6	32.5	0.15	0.13	1.76	
1,400.0	2.68	104.05	1,399.3	-4.1	37.1	37.0	0.16	0.09	2.99	
1,500.0	2.82	106.67	1,499.2	-5.4	41.7	41.6	0.19	0.14	2.62	
1,600.0	3.00	110.53	1,599.1	-7.0	46.5	46.4	0.27	0.18	3.86	
1,700.0	3.59	109.29	1,698.9	-8.9	51.9	51.8	0.59	0.59	-1.24	
1,800.0	3.67	113.06	1,798.7	-11.2	57.8	57.7	0.25	0.08	3.77	
1,900.0	3.22	109.50	1,898.5	-13.4	63.4	63.2	0.50	-0.45	-3.56	
2,000.0	2.67	108.43	1,998.4	-15.1	68.3	68.1	0.55	-0.55	-1.07	
2,100.0	2.40	106.72	2,098.3	-16.4	72.5	72.3	0.28	-0.27	-1.71	
2,200.0	2.24	106.51	2,198.2	-17.6	76.4	76.1	0.16	-0.16	-0.21	
2,300.0	1.96	96.37	2,298.2	-18.3	79.9	79.7	0.46	-0.28	-10.14	
2,400.0	1.81	97.50	2,398.1	-18.7	83.2	83.0	0.15	-0.15	1.13	
2,500.0	1.36	101.54	2,498.1	-19.2	85.9	85.7	0.46	-0.45	4.04	
2,600.0	1.26	98.35	2,598.0	-19.6	88.2	87.9	0.12	-0.10	-3.19	
2,700.0	1.12	102.53	2,698.0	-19.9	90.2	90.0	0.16	-0.14	4.18	
2,800.0	0.90	95.27	2,798.0	-20.2	91.9	91.7	0.25	-0.22	-7.26	
2,900.0	1.21	95.73	2,898.0	-20.4	93.8	93.5	0.31	0.31	0.46	
3,000.0	1.31	93.29	2,998.0	-20.6	96.0	95.7	0.11	0.10	-2.44	
3,100.0	1.41	95.54	3,097.9	-20.8	98.3	98.1	0.11	0.10	2.25	
3,200.0	1.59	106.67	3,197.9	-21.3	100.9	100.6	0.34	0.18	11.13	
3,300.0	1.42	109.85	3,297.9	-22.1	103.4	103.1	0.19	-0.17	3.18	
3,400.0	1.47	111.68	3,397.8	-23.0	105.7	105.5	0.07	0.05	1.83	
3,500.0	1.45	114.69	3,497.8	-24.0	108.1	107.8	0.08	-0.02	3.01	
3,600.0	1.56	106.45	3,597.8	-24.9	110.5	110.2	0.24	0.11	-8.24	
3,754.0	1.35	106.14	3,751.7	-26.0	114.3	114.0	0.14	-0.14	-0.20	
3,846.0	1.16	111.34	3,843.7	-26.6	116.2	115.9	0.24	-0.21	5.65	
3,909.0	0.58	97.21	3,906.7	-26.9	117.1	116.8	0.97	-0.92	-22.43	
4,003.0	0.17	285.05	4,000.7	-26.9	117.4	117.1	0.80	-0.44	-183.15	
4,193.0	1.07	286.59	4,190.7	-26.4	115.5	115.1	0.47	0.47	0.81	
4,288.0	1.43	284.75	4,285.7	-25.8	113.5	113.2	0.38	0.38	-1.94	
4,382.0	1.49	282.21	4,379.6	-25.2	111.2	110.8	0.09	0.06	-2.70	
4,476.0	1.72	284.89	4,473.6	-24.6	108.6	108.3	0.26	0.24	2.85	
4,665.0	1.71	291.52	4,662.5	-22.9	103.2	102.9	0.11	-0.01	3.51	
4,758.0	1.78	291.96	4,755.5	-21.8	100.6	100.3	0.08	0.08	0.47	
4,852.0	2.45	290.80	4,849.4	-20.6	97.4	97.1	0.71	0.71	-1.23	
4,947.0	2.05	290.90	4,944.3	-19.2	93.9	93.6	0.42	-0.42	0.11	
5,134.0	2.56	290.61	5,131.2	-16.6	86.8	86.6	0.27	0.27	-0.16	
5,227.0	2.96	295.77	5,224.1	-14.8	82.7	82.6	0.51	0.43	5.55	
5,322.0	2.29	291.69	5,319.0	-13.0	78.8	78.6	0.73	-0.71	-4.29	
5,416.0	2.20	300.32	5,412.9	-11.4	75.5	75.3	0.37	-0.10	9.18	
5,607.0	1.57	309.38	5,603.8	-7.9	70.3	70.2	0.36	-0.33	4.74	
5,700.0	0.94	283.96	5,696.8	-6.9	68.6	68.5	0.89	-0.68	-27.33	
5,795.0	0.48	262.20	5,791.8	-6.8	67.4	67.3	0.55	-0.48	-22.91	
5,890.0	0.56	257.99	5,886.8	-6.9	66.6	66.5	0.09	0.08	-4.43	
5,985.0	1.44	278.64	5,981.7	-6.8	64.9	64.8	0.99	0.93	21.74	
6,080.0	1.93	268.48	6,076.7	-6.7	62.1	62.1	0.60	0.52	-10.69	
6,174.0	2.33	271.85	6,170.6	-6.7	58.6	58.6	0.45	0.43	3.59	
6,299.0	1.45	266.33	6,295.6	-6.7	54.5	54.4	0.72	-0.70	-4.42	
6,394.0	2.09	279.08	6,390.5	-6.5	51.6	51.5	0.79	0.67	13.42	
6,583.0	1.79	276.70	6,579.4	-5.6	45.3	45.2	0.16	-0.16	-1.26	
6,679.0	1.96	283.57	6,675.4	-5.1	42.2	42.1	0.29	0.18	7.16	
6,772.0	1.68	276.26	6,768.3	-4.5	39.3	39.2	0.39	-0.30	-7.86	
6,866.0	1.70	267.48	6,862.3	-4.5	36.5	36.5	0.28	0.02	-9.34	

Company:	ConocoPhillips	Local Co-ordinate Reference:	Well SJ 27-5 #126E
Project:	SAN JUAN BASIN	TVD Reference:	Kelly Bushing @ 6651.0ft (AWS 730)
Site:	SEC 7-T27N-R5W	MD Reference:	Kelly Bushing @ 6651.0ft (AWS 730)
Well:	SJ 27-5 #126E	North Reference:	True
Wellbore:	OH Lateral #1	Survey Calculation Method:	Minimum Curvature
Design:	Composite Survey	Database:	EDM 2003.21 Single User Db

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)
7,041.0	1.67	274.17	7,037.2	-4.4	31.4	31.3	0.11	-0.02	3.82
7,136.0	1.34	267.36	7,132.2	-4.3	28.9	28.9	0.39	-0.35	-7.17
7,269.0	0.40	241.87	7,265.1	-4.6	26.9	26.9	0.75	-0.71	-19.17
7,314.0	0.34	263.65	7,310.1	-4.7	26.7	26.6	0.34	-0.13	48.40
7,344.0	3.34	90.96	7,340.1	-4.7	27.5	27.4	12.26	10.00	-575.63
7,375.0	8.86	91.36	7,370.9	-4.8	30.8	30.7	17.81	17.81	1.29
7,407.0	14.30	87.88	7,402.3	-4.7	37.2	37.1	17.13	17.00	-10.88
7,439.0	18.52	83.98	7,433.0	-4.0	46.2	46.1	13.62	13.19	-12.19
7,470.0	21.21	82.93	7,462.1	-2.8	56.6	56.6	8.75	8.68	-3.39
7,500.0	24.00	85.78	7,489.8	-1.7	68.1	68.1	9.99	9.30	9.50
7,532.0	27.23	90.41	7,518.7	-1.3	81.9	81.9	11.87	10.09	14.47
7,563.0	30.08	91.63	7,545.9	-1.6	96.8	96.8	9.38	9.19	3.94
7,595.0	33.29	92.25	7,573.1	-2.1	113.6	113.6	10.08	10.03	1.94
7,626.0	37.62	91.48	7,598.3	-2.7	131.6	131.5	14.04	13.97	-2.48
7,658.0	42.57	89.92	7,622.8	-3.0	152.2	152.1	15.78	15.47	-4.88
7,689.0	47.39	90.39	7,644.7	-3.0	174.1	174.0	15.59	15.55	1.52
7,720.0	51.18	90.23	7,665.0	-3.1	197.6	197.5	12.23	12.23	-0.52
7,752.0	55.14	89.95	7,684.1	-3.2	223.2	223.1	12.39	12.38	-0.88
7,783.0	59.16	90.49	7,701.0	-3.3	249.2	249.1	13.05	12.97	1.74
7,815.0	62.16	91.86	7,716.6	-3.9	277.1	277.0	10.09	9.38	4.28
7,846.0	64.77	92.55	7,730.5	-4.9	304.8	304.7	8.65	8.42	2.23
7,878.0	66.83	90.40	7,743.6	-5.7	334.0	333.9	8.89	6.44	-6.72
7,909.0	69.50	89.75	7,755.1	-5.7	362.7	362.6	8.83	8.61	-2.10
7,941.0	72.48	90.20	7,765.5	-5.7	393.0	392.9	9.41	9.31	1.41
7,973.0	73.62	90.73	7,774.9	-5.9	423.6	423.5	3.90	3.56	1.66
8,005.0	74.83	90.62	7,783.6	-6.3	454.4	454.3	3.80	3.78	-0.34
8,036.0	74.65	90.27	7,791.7	-6.5	484.3	484.2	1.23	-0.58	-1.13
8,056.0	74.72	91.18	7,797.0	-6.8	503.6	503.5	4.40	0.35	4.55
8,088.0	75.46	90.85	7,805.3	-7.3	534.5	534.4	2.52	2.31	-1.03
8,120.0	76.90	90.54	7,812.9	-7.7	565.6	565.4	4.60	4.50	-0.97
8,137.0	77.95	89.79	7,816.6	-7.8	582.2	582.0	7.53	6.18	-4.41
8,152.0	78.89	89.56	7,819.6	-7.7	596.9	596.7	6.44	6.27	-1.53
8,178.0	79.92	88.90	7,824.4	-7.3	622.4	622.3	4.68	3.96	-2.54
8,215.0	84.25	87.20	7,829.5	-6.1	659.0	658.9	12.56	11.70	-4.59
8,247.0	86.51	86.42	7,832.1	-4.3	690.9	690.8	7.47	7.06	-2.44
8,279.0	87.18	86.08	7,833.8	-2.2	722.8	722.7	2.35	2.09	-1.06
8,311.0	87.92	86.05	7,835.2	0.0	754.7	754.6	2.31	2.31	-0.09
8,343.0	89.03	86.97	7,836.0	1.9	786.6	786.5	4.50	3.47	2.88
8,410.0	89.70	89.04	7,836.8	4.3	853.5	853.5	3.25	1.00	3.09
8,442.0	88.99	88.20	7,837.1	5.0	885.5	885.5	3.44	-2.22	-2.63
8,474.0	88.66	87.97	7,837.8	6.1	917.5	917.5	1.26	-1.03	-0.72
8,504.0	89.66	87.23	7,838.2	7.4	947.5	947.5	4.15	3.33	-2.47
8,537.0	90.44	87.11	7,838.2	9.0	980.4	980.5	2.39	2.36	-0.36
8,570.0	90.54	87.44	7,837.9	10.6	1,013.4	1,013.4	1.04	0.30	1.00
8,601.0	90.81	86.73	7,837.6	12.1	1,044.3	1,044.4	2.45	0.87	-2.29
8,633.0	90.74	87.55	7,837.1	13.7	1,076.3	1,076.4	2.57	-0.22	2.56
8,665.0	90.34	88.19	7,836.8	14.9	1,108.3	1,108.4	2.36	-1.25	2.00
8,697.0	90.67	87.84	7,836.6	16.0	1,140.3	1,140.4	1.50	1.03	-1.09
8,728.0	90.54	88.57	7,836.2	17.0	1,171.2	1,171.4	2.39	-0.42	2.35
8,760.0	89.93	88.63	7,836.1	17.8	1,203.2	1,203.4	1.92	-1.91	0.19
8,822.0	88.05	87.86	7,837.2	19.7	1,265.2	1,265.3	3.28	-3.03	-1.24
8,853.0	87.88	87.80	7,838.3	20.8	1,296.1	1,296.3	0.58	-0.55	-0.19
8,885.0	87.29	87.84	7,839.6	22.1	1,328.1	1,328.3	1.85	-1.84	0.13
8,917.0	86.84	88.51	7,841.3	23.1	1,360.0	1,360.2	2.52	-1.41	2.09



Scientific Drilling International
Survey Report



Company:	ConocoPhillips	Local Co-ordinate Reference:	Well SJ 27-5 #126E
Project:	SAN JUAN BASIN	TVD Reference:	Kelly Bushing @ 6651.0ft (AWS 730)
Site:	SEC 7-T27N-R5W	MD Reference:	Kelly Bushing @ 6651.0ft (AWS 730)
Well:	SJ 27-5 #126E	North Reference:	True
Wellbore:	OH Lateral #1	Survey Calculation Method:	Minimum Curvature
Design:	Composite Survey	Database:	EDM 2003 21 Single User Db

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)
8,979.0	85.97	88.51	7,845.2	24.7	1,421.9	1,422.1	1.40	-1.40	0.00



Scientific Drilling International
Survey Report



Company:	ConocoPhillips	Local Co-ordinate Reference:	Well SJ 27-5 #126E
Project:	SAN JUAN BASIN	TVD Reference:	Kelly Bushing @ 6651.0ft (AWS 730)
Site:	SEC 7-T27N-R5W	MD Reference:	Kelly Bushing @ 6651.0ft (AWS 730)
Well:	SJ 27-5 #126E	North Reference:	True
Wellbore:	OH Lateral #1	Survey Calculation Method:	Minimum Curvature
Design:	Composite Survey	Database:	EDM 2003.21 Single User Db

Design Targets										
Target Name	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	
- hit/miss target	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(ft)			
- Shape										
TGT #6	0.00	0.00	7,838.0	40.6	3,324.8	2,033,897.95	628,098.08	36° 35' 20.015 N	107° 23' 49.211 W	
- actual wellpath misses by 1902.9ft at 8979.0ft MD (7845.2 TVD, 24.7 N, 1421.9 E)										
- Point										
SJ 27-5 #126E PBHL	0.00	0.00	7,838.0	64.2	5,274.6	2,033,930.15	630,047.68	36° 35' 20.245 N	107° 23' 25.303 W	
- actual wellpath misses by 3852.9ft at 8979.0ft MD (7845.2 TVD, 24.7 N, 1421.9 E)										
- Point										
TGT #4	0.00	0.00	7,838.0	28.4	2,324.8	2,033,881.31	627,098.28	36° 35' 19.895 N	107° 24' 1.472 W	
- actual wellpath misses by 903.0ft at 8979.0ft MD (7845.2 TVD, 24.7 N, 1421.9 E)										
- Point										
TGT #2	0.00	0.00	7,838.0	16.2	1,324.9	2,033,864.67	626,098.49	36° 35' 19.775 N	107° 24' 13.732 W	
- actual wellpath misses by 5.9ft at 8881.5ft MD (7839.5 TVD, 21.9 N, 1324.6 E)										
- Point										
TGT #7	0.00	0.00	7,838.0	46.7	3,824.7	2,033,906.27	628,597.98	36° 35' 20.075 N	107° 23' 43.081 W	
- actual wellpath misses by 2402.9ft at 8979.0ft MD (7845.2 TVD, 24.7 N, 1421.9 E)										
- Point										
TGT #5	0.00	0.00	7,838.0	34.5	2,824.8	2,033,889.63	627,598.18	36° 35' 19.955 N	107° 23' 55.341 W	
- actual wellpath misses by 1402.9ft at 8979.0ft MD (7845.2 TVD, 24.7 N, 1421.9 E)										
- Point										
TGT #3	0.00	0.00	7,838.0	22.3	1,824.9	2,033,872.99	626,598.39	36° 35' 19.835 N	107° 24' 7.602 W	
- actual wellpath misses by 403.0ft at 8979.0ft MD (7845.2 TVD, 24.7 N, 1421.9 E)										
- Point										
TGT #9	0.00	0.00	7,838.0	58.9	4,824.6	2,033,922.90	629,597.77	36° 35' 20.194 N	107° 23' 30.820 W	
- actual wellpath misses by 3402.9ft at 8979.0ft MD (7845.2 TVD, 24.7 N, 1421.9 E)										
- Point										
TGT #8	0.00	0.00	7,838.0	52.8	4,324.7	2,033,914.58	629,097.87	36° 35' 20.134 N	107° 23' 36.951 W	
- actual wellpath misses by 2902.9ft at 8979.0ft MD (7845.2 TVD, 24.7 N, 1421.9 E)										
- Point										
Section Lines (7-T27N)	0.00	0.00	7,840.0	0.0	0.0	2,033,842.63	624,773.76	36° 35' 19.615 N	107° 24' 29.977 W	
- actual wellpath misses by 261.6ft at 7689.0ft MD (7644.7 TVD, -3.0 N, 174.1 E)										
- Polygon										
Point 1			7,840.0	2,637.3	-168.5	2,036,478.98	624,593.62			
Point 2			7,840.0	2,644.0	2,573.8	2,036,497.81	627,335.68			
Point 3			7,840.0	2,650.2	5,288.2	2,036,516.01	630,049.85			
Point 4			7,840.0	3.8	5,294.6	2,033,869.84	630,067.95			
Point 5			7,840.0	-2,612.4	5,309.7	2,031,253.90	630,094.61			
Point 6			7,840.0	-2,619.3	2,563.7	2,031,234.86	627,348.85			
Point 7			7,840.0	-2,627.5	-198.8	2,031,214.45	624,586.60			
Point 8			7,840.0	3.6	-185.6	2,033,845.41	624,588.16			
E/W Quarter Sec Line	0.00	0.00	7,840.0	0.0	0.0	2,033,842.63	624,773.76	36° 35' 19.615 N	107° 24' 29.977 W	
- actual wellpath misses by 261.6ft at 7689.0ft MD (7644.7 TVD, -3.0 N, 174.1 E)										
- Polygon										
Point 1			7,840.0	3.6	-185.6	2,033,845.41	624,588.16			
Point 2			7,840.0	3.8	5,294.6	2,033,869.84	630,067.95			
N/S Quarter Sec Line	0.00	0.00	7,840.0	0.0	0.0	2,033,842.63	624,773.76	36° 35' 19.615 N	107° 24' 29.977 W	
- actual wellpath misses by 261.6ft at 7689.0ft MD (7644.7 TVD, -3.0 N, 174.1 E)										
- Polygon										
Point 1			7,840.0	2,644.0	2,573.8	2,036,497.81	627,335.68			
Point 2			7,840.0	-2,619.3	2,563.7	2,031,234.86	627,348.85			

Checked By: _____ Approved By: _____ Date: _____