

DISTRICT I
1825 N. French Dr., Hobbs, N.M. 88240

State of New Mexico
Energy, Minerals & Natural Resources Department

Form C-102
Revised October 12, 2005

DISTRICT II
1301 West Grand Avenue, Artesia, N.M. 88210

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

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

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

AS DRILLED PLAT

AMENDED REPORT

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

*API Number 30-039-30591		*Pool Code 71599 / 72319		*Pool Name BASIN DAKOTA/BLANCO MESAVERDE	
*Property Code 7452		*Property Name SAN JUAN 27-4 UNIT			*Well Number 123P
*GRID No. 14538		*Operator Name BURLINGTON RESOURCES OIL AND GAS COMPANY LP			*Elevation 6908'

¹⁰ Surface Location

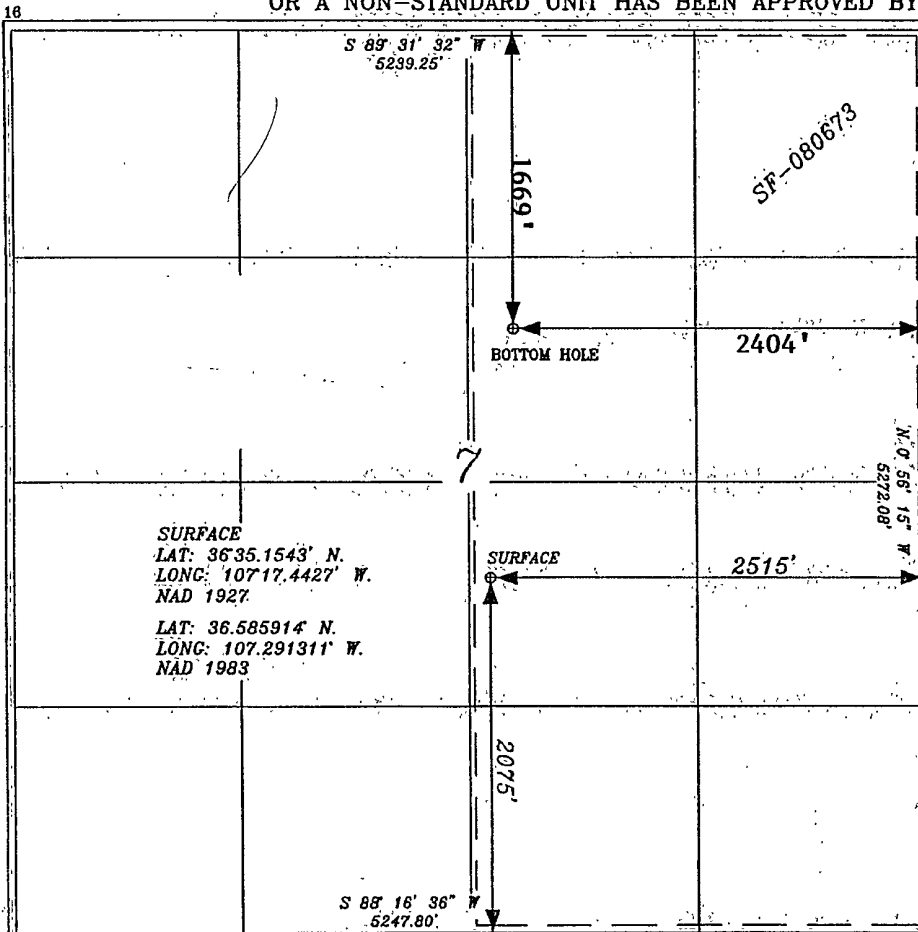
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
J	7	27-N	4-W		2075'	SOUTH	2515'	EAST	RIO ARRIBA

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
G	7	27-N	4-W		1669'	NORTH	2404'	EAST	RIO ARRIBA

¹² Dedicated Acres 320.00		¹³ Joint or Infill		¹⁴ Consolidation Code		¹⁵ Order No.			
---	--	-------------------------------	--	----------------------------------	--	-------------------------	--	--	--

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



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 a working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Marie E. Jaramillo
Signature
Marie E. Jaramillo/21/11
Printed Name

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.

10-18-11
Date of Sign
Signature
NEW MEXICO
LICENSED PROFESSIONAL SURVEYOR
15703
Colin W. Russell
Certificate Number 15703

RCVD JUL 25 '11
OIL CONS. DIV.

DIST. 3



COP Deviation Report
SAN JUAN 27-4 UNIT #123P

Operator BURLINGTON RESOURCES OIL & GAS COMPANY LP	Legal WellName SAN JUAN 27-4 UNIT #123P	API / UWI 3003930591	County RIO ARRIBA	State/Province NEW MEXICO
Surface Legal Location 007-027N-004W-J	N/S Dist (ft) 2,075.00	N/S Ref FSL	E/W Dist (ft) 2,515.00	E/W Ref FEL

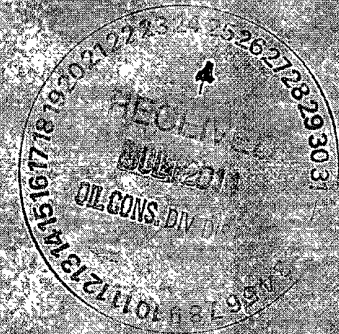
Survey Data					
Date	MD (ftKB)	Incl (°)		Method	Survey Company
5/19/2011	129.00	1.00		Inc-Drop	MO-TE DRILLING INC
5/19/2011	239.00	2.50		Inc-Drop	MO-TE DRILLING INC
5/29/2011	247.00	2.71		IncAzi-MWD	Scientific Drilling
5/29/2011	309.00	2.11		IncAzi-MWD	Scientific Drilling
5/29/2011	371.00	1.06		IncAzi-MWD	Scientific Drilling
5/29/2011	431.00	0.34		IncAzi-MWD	Scientific Drilling
5/29/2011	493.00	1.31		IncAzi-MWD	Scientific Drilling
5/29/2011	554.00	2.39		IncAzi-MWD	Scientific Drilling
5/29/2011	615.00	3.54		IncAzi-MWD	Scientific Drilling
5/30/2011	677.00	5.09		IncAzi-MWD	Scientific Drilling
5/30/2011	739.00	6.69		IncAzi-MWD	Scientific Drilling
5/30/2011	800.00	8.20		IncAzi-MWD	Scientific Drilling
5/30/2011	862.00	9.38		IncAzi-MWD	Scientific Drilling
5/30/2011	926.00	10.84		IncAzi-MWD	Scientific Drilling
5/30/2011	989.00	12.12		IncAzi-MWD	Scientific Drilling
5/30/2011	1,054.00	13.95		IncAzi-MWD	Scientific Drilling
5/30/2011	1,116.00	15.47		IncAzi-MWD	Scientific Drilling
5/30/2011	1,180.00	16.88		IncAzi-MWD	Scientific Drilling
5/30/2011	1,243.00	18.00		IncAzi-MWD	Scientific Drilling
5/30/2011	1,307.00	19.14		IncAzi-MWD	Scientific Drilling
5/30/2011	1,370.00	20.64		IncAzi-MWD	Scientific Drilling
5/30/2011	1,434.00	22.11		IncAzi-MWD	Scientific Drilling
5/30/2011	1,497.00	24.13		IncAzi-MWD	Scientific Drilling
5/30/2011	1,561.00	25.90		IncAzi-MWD	Scientific Drilling
5/30/2011	1,624.00	27.08		IncAzi-MWD	Scientific Drilling
5/30/2011	1,688.00	27.83		IncAzi-MWD	Scientific Drilling
5/30/2011	1,752.00	28.50		IncAzi-MWD	Scientific Drilling
5/30/2011	1,815.00	29.11		IncAzi-MWD	Scientific Drilling
5/30/2011	1,879.00	29.52		IncAzi-MWD	Scientific Drilling
5/30/2011	1,942.00	29.36		IncAzi-MWD	Scientific Drilling
5/30/2011	2,006.00	30.04		IncAzi-MWD	Scientific Drilling
5/30/2011	2,069.00	29.63		IncAzi-MWD	Scientific Drilling
5/30/2011	2,133.00	30.15		IncAzi-MWD	Scientific Drilling
5/30/2011	2,196.00	30.07		IncAzi-MWD	Scientific Drilling
5/30/2011	2,260.00	29.12		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 _____





COP Deviation Report

SAN JUAN 27-4 UNIT #123P

Survey Data:					
Date	MD (ftKB)	Incl (°)	Method	Survey Company	
5/30/2011	2,323.00	29.66	IncAzi-MWD	Scientific Drilling	
5/30/2011	2,450.00	28.30	IncAzi-MWD	Scientific Drilling	
5/30/2011	2,514.00	28.03	IncAzi-MWD	Scientific Drilling	
5/30/2011	2,577.00	27.14	IncAzi-MWD	Scientific Drilling	
5/30/2011	2,641.00	27.01	IncAzi-MWD	Scientific Drilling	
5/30/2011	2,704.00	26.85	IncAzi-MWD	Scientific Drilling	
5/30/2011	2,768.00	26.74	IncAzi-MWD	Scientific Drilling	
5/30/2011	2,832.00	26.39	IncAzi-MWD	Scientific Drilling	
5/30/2011	2,895.00	26.31	IncAzi-MWD	Scientific Drilling	
5/30/2011	2,959.00	26.01	IncAzi-MWD	Scientific Drilling	
5/30/2011	3,022.00	26.40	IncAzi-MWD	Scientific Drilling	
5/30/2011	3,086.00	26.35	IncAzi-MWD	Scientific Drilling	
5/30/2011	3,149.00	25.67	IncAzi-MWD	Scientific Drilling	
5/30/2011	3,213.00	26.34	IncAzi-MWD	Scientific Drilling	
5/30/2011	3,276.00	26.76	IncAzi-MWD	Scientific Drilling	
5/30/2011	3,340.00	27.37	IncAzi-MWD	Scientific Drilling	
5/30/2011	3,403.00	26.61	IncAzi-MWD	Scientific Drilling	
5/30/2011	3,467.00	27.36	IncAzi-MWD	Scientific Drilling	
5/31/2011	3,530.00	27.25	IncAzi-MWD	Scientific Drilling	
5/31/2011	3,593.00	27.42	IncAzi-MWD	Scientific Drilling	
5/31/2011	3,657.00	26.61	IncAzi-MWD	Scientific Drilling	
5/31/2011	3,721.00	26.08	IncAzi-MWD	Scientific Drilling	
5/31/2011	3,784.00	25.17	IncAzi-MWD	Scientific Drilling	
5/31/2011	3,848.00	23.35	IncAzi-MWD	Scientific Drilling	
5/31/2011	3,911.00	22.85	IncAzi-MWD	Scientific Drilling	
5/31/2011	3,975.00	22.67	IncAzi-MWD	Scientific Drilling	
5/31/2011	4,038.00	20.57	IncAzi-MWD	Scientific Drilling	
5/31/2011	4,102.00	19.69	IncAzi-MWD	Scientific Drilling	
5/31/2011	4,165.00	19.42	IncAzi-MWD	Scientific Drilling	
6/1/2011	4,229.00	18.77	IncAzi-MWD	Scientific Drilling	
6/1/2011	4,292.00	17.08	IncAzi-MWD	Scientific Drilling	
6/1/2011	4,356.00	15.36	IncAzi-MWD	Scientific Drilling	
6/1/2011	4,419.00	12.75	IncAzi-MWD	Scientific Drilling	
6/2/2011	4,483.00	11.17	IncAzi-MWD	Scientific Drilling	
6/2/2011	4,546.00	9.92	IncAzi-MWD	Scientific Drilling	
6/2/2011	4,610.00	8.74	IncAzi-MWD	Scientific Drilling	
6/2/2011	4,673.00	6.79	IncAzi-MWD	Scientific Drilling	
6/2/2011	4,737.00	4.88	IncAzi-MWD	Scientific Drilling	
6/2/2011	4,800.00	3.82	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 (°)	Method	Survey Company
6/2/2011	4,856.00	3.70	Projection	Scientific Drilling
6/11/2011	8,400.00	2.00	Inc-WL	Phoenix Services LLC

I, the undersigned, certify that I acting in my capacity as Dallin Engman 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 7/21/11

Mario R. Zimello

Notary Public in and for San Juan County, New Mexico

My Commission expires 7/28/14



Scientific Drilling
Directional Drilling Operations

ConocoPhillips

SJB (NM Central)
SEC 07-T27N-R4W
SJ 27-4 #123P



Original Hole

API # 3003930591

Design: Original Hole

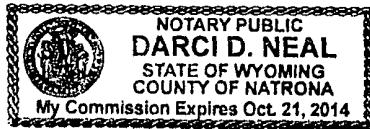
Standard Survey Report

06 June, 2011

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

Notarized this date 10th of June, 2011.
Darci D. Neal

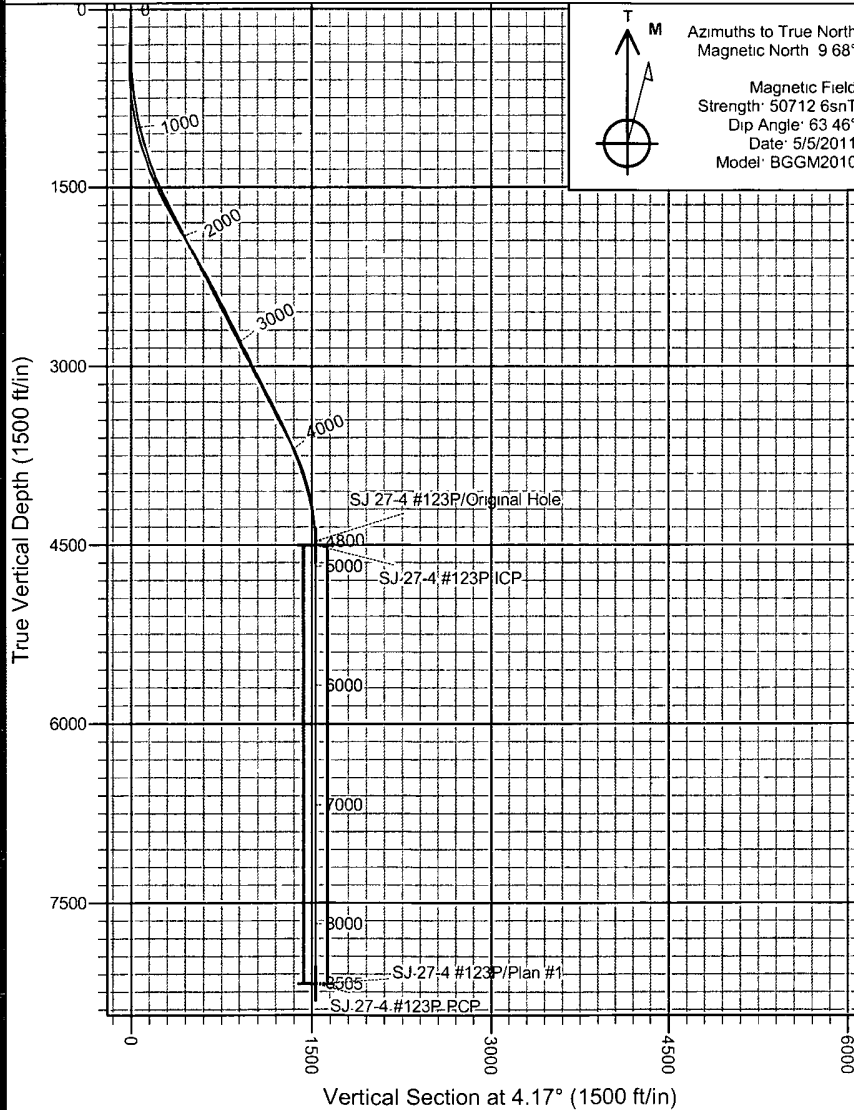
Notary Signature
County of Natrona
State of Wyoming



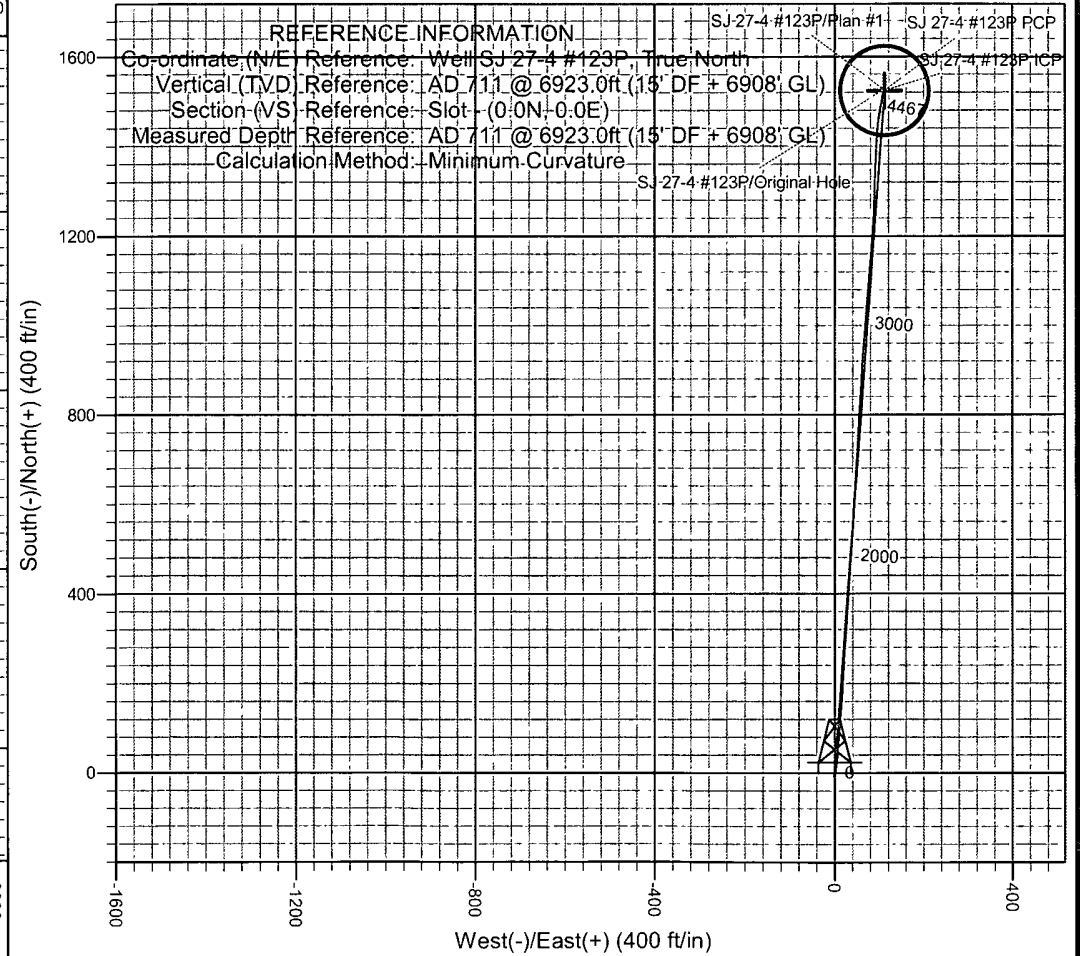
ConocoPhillips



Project: SJB (NM Central)
 Site: SEC 07-T27N-R4W
 Well: SJ 27-4 #123P
 Wellbore: Original Hole
 Design: Original Hole



WELL DETAILS: SJ 27-4 #123P				
AD 711 @ 6923.0ft (15' DF + 6908' GL)				
Ground Level: 6908 0				
+N/-S	+E/-W	Northing	Easting	Latitude
0.0	0.0	2034134.12	194458 93	36° 35' 9.204 N
			Longitude	Slo
			107° 17' 26 532 W	



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 07-T27N-R4W
 Rio Arriba County NM
 Site Centre Latitude: 36° 35' 9.204 N
 Longitude: 107° 17' 26.532 W
 Positional Uncertainty: 7.5
 Convergence: -0.62
 Local North: True

Company:	ConocoPhillips	Local Co-ordinate Reference:	Well SJ 27-4 #123P
Project:	SJB (NM Central)	TVD Reference:	AD 711 @ 6923.0ft (15' DF + 6908' GL)
Site:	SEC 07-T27N-R4W	MD Reference:	AD 711 @ 6923.0ft (15' DF + 6908' GL)
Well:	SJ 27-4 #123P	North Reference:	True
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	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 07-T27N-R4W				
Site Position:	Northing:	2,034,134.12 ft	Latitude:	36° 35' 9.204 N	
From:	Lat/Long	Easting:	194,458 93 ft	Longitude:	107° 17' 26.532 W
Position Uncertainty:	15 0 ft	Slot Radius:	6-1/8"	Grid Convergence:	-0.62 °

Well	SJ 27-4 #123P, S-Type MV/DK Well					
Well Position	+N/-S	0 0 ft	Northing:	2,034,134.12 ft	Latitude:	36° 35' 9.204 N
	+E/-W	0 0 ft	Easting:	194,458 93 ft	Longitude:	107° 17' 26.532 W
Position Uncertainty		3 5 ft	Wellhead Elevation:	ft	Ground Level:	6,908.0 ft

Wellbore	Original Hole				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2010	5/5/2011	9.68	63.46	50,713

Design	Original Hole				
Audit Notes:					
Version:	1 0	Phase:	ACTUAL	Tie On Depth:	0 0
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)	
	0 0	0 0	0 0	4.17	

Survey Program	Date	6/6/2011		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
247.0	4,800 0	Survey #1 (Original Hole)	MWD SDI	MWD - Standard ver 1.0 1

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)	
0 0	0 00	0.00	0.0	0.0	0 0	0 0	0 00	0.00	0.00	
247 0	2 71	176.09	246.9	-5 8	0 4	-5 8	1.10	1.10	0 00	
First SDI MWD Survey										
309.0	2 11	182.42	308 9	-8 4	0 4	-8 4	1.06	-0.97	10 21	
371.0	1 06	196.48	370.8	-10 1	0 2	-10 1	1.79	-1 69	22 68	
431.0	0 34	263.11	430.8	-10 7	-0 1	-10 7	1 63	-1 20	111.05	
493.0	1 31	352.68	492.8	-10 0	-0 4	-10 0	2 18	1 56	144 47	
554 0	2 39	1 20	553 8	-8 0	-0 4	-8 0	1 82	1 77	13 97	
615.0	3 54	10 64	614.7	-4 9	-0 1	-4 9	2 04	1 89	15 48	
677.0	5 09	11 87	676.5	-0 3	0 9	-0 3	2 50	2 50	1 98	
739.0	6 69	10 23	738 2	5 9	2 1	6 0	2 59	2 58	-2 65	
800.0	8 20	8 67	798 7	13 7	3 4	13 9	2 50	2 48	-2 56	
862.0	9 38	7 51	860.0	23 1	4 7	23 4	1 92	1 90	-1 87	

Company:	ConocoPhillips	Local Co-ordinate Reference:	Well SJ 27-4 #123P
Project:	SJB (NM Central)	TVD Reference:	AD 711 @ 6923.0ft (15' DF + 6908' GL)
Site:	SEC 07-T27N-R4W	MD Reference:	AD 711 @ 6923.0ft (15' DF + 6908' GL)
Well:	SJ 27-4 #123P	North Reference:	True
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	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)	
926.0	10.84	4.71	923.0	34.3	5.9	34.6	2.41	2.28	-4.38	
989.0	12.12	2.95	984.7	46.8	6.7	47.1	2.11	2.03	-2.79	
1,054.0	13.95	5.61	1,048.0	61.4	7.8	61.8	2.96	2.82	4.09	
1,116.0	15.47	4.57	1,108.0	77.1	9.2	77.5	2.49	2.45	-1.68	
1,180.0	16.88	4.34	1,169.4	94.8	10.6	95.4	2.21	2.20	-0.36	
1,243.0	18.00	5.31	1,229.6	113.7	12.2	114.2	1.84	1.78	1.54	
1,307.0	19.14	4.96	1,290.2	134.0	14.0	134.6	1.79	1.78	-0.55	
1,370.0	20.64	5.24	1,349.5	155.3	15.9	156.0	2.39	2.38	0.44	
1,434.0	22.11	3.78	1,409.1	178.6	17.7	179.4	2.44	2.30	-2.28	
1,497.0	24.13	3.03	1,467.0	203.2	19.2	204.1	3.24	3.21	-1.19	
1,561.0	25.90	2.82	1,525.0	230.3	20.6	231.2	2.77	2.77	-0.33	
1,624.0	27.08	2.79	1,581.4	258.3	21.9	259.2	1.87	1.87	-0.05	
1,688.0	27.83	4.36	1,638.2	287.8	23.8	288.8	1.63	1.17	2.45	
1,752.0	28.50	3.91	1,694.6	317.9	26.0	319.0	1.10	1.05	-0.70	
1,815.0	29.11	3.62	1,749.8	348.2	28.0	349.3	0.99	0.97	-0.46	
1,879.0	29.52	3.51	1,805.6	379.5	29.9	380.6	0.65	0.64	-0.17	
1,942.0	29.36	3.54	1,860.5	410.4	31.8	411.6	0.26	-0.25	0.05	
2,006.0	30.04	3.75	1,916.1	442.0	33.8	443.3	1.07	1.06	0.33	
2,069.0	29.63	3.74	1,970.7	473.3	35.9	474.7	0.65	-0.65	-0.02	
2,133.0	30.15	4.07	2,026.2	505.1	38.0	506.6	0.85	0.81	0.52	
2,196.0	30.07	3.93	2,080.7	536.7	40.2	538.2	0.17	-0.13	-0.22	
2,260.0	29.12	3.09	2,136.3	568.2	42.2	569.8	1.62	-1.48	-1.31	
2,323.0	29.66	3.25	2,191.2	599.1	43.9	600.7	0.87	0.86	0.25	
2,450.0	28.30	3.58	2,302.3	660.5	47.6	662.2	1.08	-1.07	0.26	
2,514.0	28.03	3.72	2,358.7	690.6	49.5	692.4	0.43	-0.42	0.22	
2,577.0	27.14	3.47	2,414.6	719.8	51.3	721.6	1.42	-1.41	-0.40	
2,641.0	27.01	3.09	2,471.6	748.8	53.0	750.7	0.34	-0.20	-0.59	
2,704.0	26.85	2.55	2,527.7	777.3	54.4	779.2	0.46	-0.25	-0.86	
2,768.0	26.74	2.99	2,584.9	806.1	55.8	808.1	0.35	-0.17	0.69	
2,832.0	26.39	4.06	2,642.1	834.7	57.5	836.7	0.93	-0.55	1.67	
2,895.0	26.31	3.41	2,698.6	862.6	59.4	864.7	0.48	-0.13	-1.03	
2,959.0	26.01	3.46	2,756.0	890.8	61.0	892.9	0.47	-0.47	0.08	
3,022.0	26.40	3.41	2,812.5	918.6	62.7	920.7	0.62	0.62	-0.08	
3,086.0	26.35	5.07	2,869.9	946.9	64.8	949.1	1.15	-0.08	2.59	
3,149.0	25.67	4.65	2,926.5	974.4	67.2	976.7	1.12	-1.08	-0.67	
3,213.0	26.34	4.32	2,984.0	1,002.4	69.3	1,004.8	1.07	1.05	-0.52	
3,276.0	26.76	4.56	3,040.4	1,030.5	71.5	1,033.0	0.69	0.67	0.38	
3,340.0	27.37	4.87	3,097.4	1,059.5	73.9	1,062.1	0.98	0.95	0.48	
3,403.0	26.61	4.73	3,153.5	1,088.0	76.3	1,090.7	1.21	-1.21	-0.22	
3,467.0	27.36	4.55	3,210.5	1,116.9	78.7	1,119.7	1.18	1.17	-0.28	
3,530.0	27.25	4.79	3,266.5	1,145.7	81.0	1,148.6	0.25	-0.17	0.38	
3,593.0	27.42	4.01	3,322.5	1,174.6	83.2	1,177.5	0.63	0.27	-1.24	
3,657.0	26.61	4.08	3,379.5	1,203.6	85.3	1,206.6	1.27	-1.27	0.11	
3,721.0	26.08	3.76	3,436.8	1,231.9	87.2	1,235.0	0.86	-0.83	-0.50	
3,784.0	25.17	2.98	3,493.6	1,259.1	88.8	1,262.2	1.54	-1.44	-1.24	
3,848.0	23.35	1.25	3,552.0	1,285.4	89.8	1,288.5	3.05	-2.84	-2.70	
3,911.0	22.85	2.00	3,609.9	1,310.1	90.5	1,313.2	0.92	-0.79	1.19	
3,975.0	22.67	2.38	3,669.0	1,334.8	91.5	1,338.0	0.36	-0.28	0.59	
4,038.0	20.57	2.19	3,727.5	1,358.0	92.4	1,361.2	3.34	-3.33	-0.30	
4,102.0	19.69	2.25	3,787.6	1,380.0	93.2	1,383.2	1.38	-1.38	0.09	
4,165.0	19.42	3.04	3,847.0	1,401.1	94.2	1,404.2	0.60	-0.43	1.25	
4,229.0	18.77	4.27	3,907.5	1,422.0	95.5	1,425.2	1.19	-1.02	1.92	
4,292.0	17.08	4.76	3,967.4	1,441.3	97.1	1,444.6	2.69	-2.68	0.78	
4,356.0	15.36	7.60	4,028.8	1,459.1	99.0	1,462.4	2.96	-2.69	4.44	

Company:	ConocoPhillips	Local Co-ordinate Reference:	Well SJ 27-4 #123P
Project:	SJB (NM Central)	TVD Reference:	AD 711 @ 6923.0ft (15' DF + 6908' GL)
Site:	SEC 07-T27N-R4W	MD Reference:	AD 711 @ 6923.0ft (15' DF + 6908' GL)
Well:	SJ 27-4 #123P	North Reference:	True
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	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)	
4,419.0	12.75	9.65	4,090.0	1,474.2	101.2	1,477.7	4.22	-4.14	3.25	
4,483.0	11.17	10.40	4,152.6	1,487.3	103.5	1,490.9	2.48	-2.47	1.17	
4,546.0	9.92	10.27	4,214.5	1,498.6	105.6	1,502.3	1.98	-1.98	-0.21	
4,610.0	8.74	10.45	4,277.7	1,508.8	107.5	1,512.7	1.84	-1.84	0.28	
4,673.0	6.79	12.51	4,340.1	1,517.2	109.2	1,521.1	3.13	-3.10	3.27	
4,737.0	4.88	12.18	4,403.7	1,523.5	110.5	1,527.5	2.98	-2.98	-0.52	
4,800.0	3.82	9.19	4,466.6	1,528.2	111.4	1,532.3	1.72	-1.68	-4.75	
Last SDI MWD Survey										

Checked By: _____ Approved By: _____ Date: _____