RCVD JUN 25 '12
OIL CONS. DIV.
DIST. 3

DISTRICT I
1625 N. French Dr., Hobbs, N.M. 88240

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

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

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

State of New Mexico
Energy, Minerals & Natural Resources Department

AS DRILLED PLAT

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

Form C-102
Revised July 10, 2010

Submit one copy to appropriate District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

1 API Number	2 Pool Code	3 Pool Name
30-039-31074	72319 / 71599	BLANCO MESAVERDE / BASIN DAKOTA

4 Property Code	5 Property Name	6 Well Number
7460	SAN JUAN 28-5 UNIT	69N

7 OGRID No.	8 Operator Name	9 Elevation
14538	BURLINGTON RESOURCES OIL & GAS COMPANY LP	6607'

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
B	33	28N	5W		1238'	NORTH	1518'	EAST	RIO ARRIBA

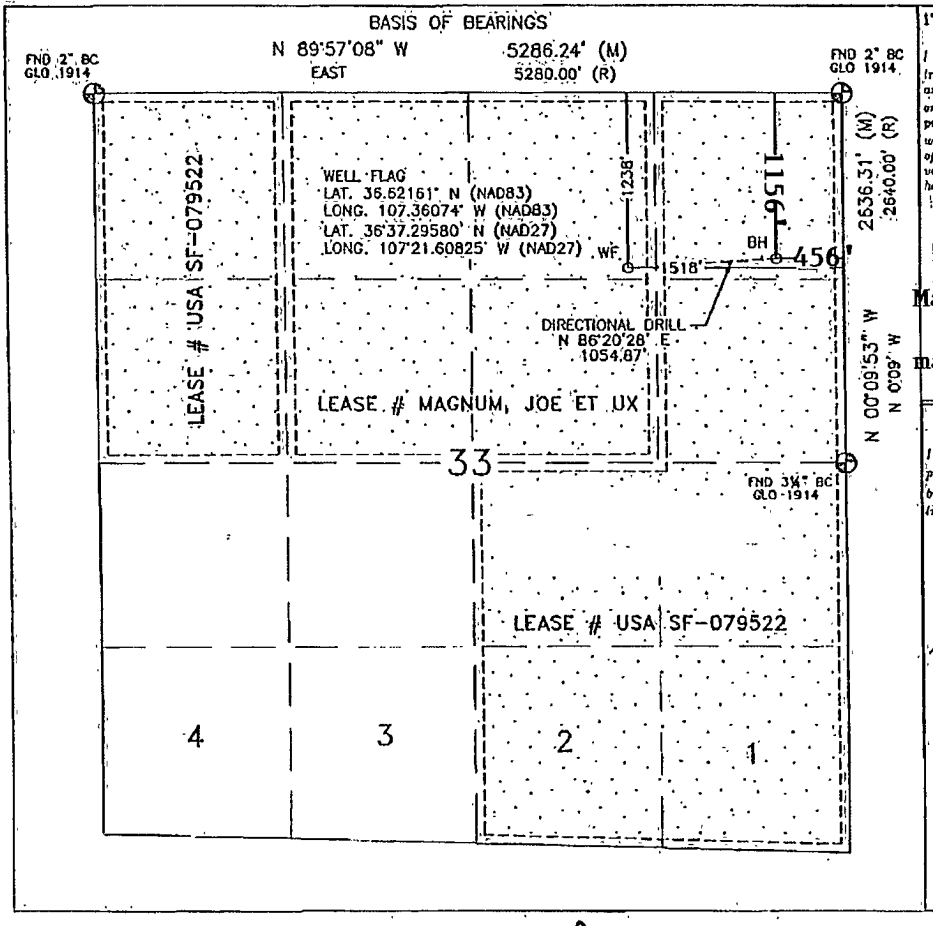
11 Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	33	28N	5W		1156'	NORTH	456'	EAST	RIO ARRIBA

12 Dedicated Acres	13 Joint or Infill	14 Consolidation Code	15 Order No.
MV-320.00 ACRES N/2 DK-325.46 ACRES E/2			

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



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.

Signature — Date 6/22/12

Marie E. Jaramillo 6/22/12
Printed Name

marie.e.jaramillo@conocophillips
E-mail Address

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.

DECEMBER 14, 2010
Date of Survey

Signature and Seal of Professional Surveyor:

DAVID RUSSELL
NEW MEXICO
10201
REGISTERED PROFESSIONAL LAND SURVEYOR

DAVID RUSSELL
Certificate Number 10201

PV

ConocoPhillips

COP Deviation Report

SAN JUAN 28-5 UNIT #69N

Operator	Legal WellName	API / UWI	County	State/Province
BURLINGTON RESOURCES OIL & GAS COMPANY LP	SAN JUAN 28-5 UNIT #69N	3003931074	RIO ARRIBA	NEW MEXICO

Surface Legal Location	N/S Dist (ft)	N/S Ref	E/W Dist (ft)	E/W Ref
033-028N-005W-B	1,238 00	FNL	1,518.00	FEL

Survey Data

Date	MD (ftKB)	Incl (°)	Azm (°)	Method	Survey Company
5/5/2012	0.00	0.00	0.00	IncAzi-MWD	Scientific Drilling
3/21/2012	130.00	0.75		Inc-WL	MO TE DRILLING INC
3/21/2012	239.00	0.75		Inc-WL	MO TE DRILLING INC
5/3/2012	284 00	0.34	273.75	IncAzi-MWD	Scientific Drilling
5/3/2012	314.00	0.14	215.27	IncAzi-MWD	Scientific Drilling
5/3/2012	344.00	0.41	141.72	IncAzi-MWD	Scientific Drilling
5/3/2012	375.00	0.95	117.48	IncAzi-MWD	Scientific Drilling
5/3/2012	406 00	1.56	105.57	IncAzi-MWD	Scientific Drilling
5/3/2012	437.00	2.42	101.18	IncAzi-MWD	Scientific Drilling
5/3/2012	468.00	3.03	96.59	IncAzi-MWD	Scientific Drilling
5/3/2012	499.00	3.60	95.94	IncAzi-MWD	Scientific Drilling
5/5/2012	529.00	4.17	94.99	IncAzi-MWD	Scientific Drilling
5/3/2012	560.00	4.69	94.32	IncAzi-MWD	Scientific Drilling
5/3/2012	591.00	5 35	94.83	IncAzi-MWD	Scientific Drilling
5/3/2012	622 00	6.05	93.92	IncAzi-MWD	Scientific Drilling
5/3/2012	653 00	6.71	94.23	IncAzi-MWD	Scientific Drilling
5/3/2012	684 00	7 17	92.25	IncAzi-MWD	Scientific Drilling
5/3/2012	714.00	7.97	90.47	IncAzi-MWD	Scientific Drilling
5/3/2012	745.00	8 50	89.80	IncAzi-MWD	Scientific Drilling
5/3/2012	776.00	9.15	89 64	IncAzi-MWD	Scientific Drilling
5/3/2012	806.00	9.99	88 61	IncAzi-MWD	Scientific Drilling
5/3/2012	837.00	10.69	87 97	IncAzi-MWD	Scientific Drilling
5/3/2012	868.00	11.40	87.61	IncAzi-MWD	Scientific Drilling
5/3/2012	899.00	11.80	85.78	IncAzi-MWD	Scientific Drilling
5/3/2012	929.00	12.42	85.96	IncAzi-MWD	Scientific Drilling
5/3/2012	959 00	13.33	86 08	IncAzi-MWD	Scientific Drilling
5/3/2012	990 00	13.97	86.03	IncAzi-MWD	Scientific Drilling
5/3/2012	1,021 00	14.71	85.52	IncAzi-MWD	Scientific Drilling
5/5/2012	1,051 00	15 32	85 91	IncAzi-MWD	Scientific Drilling
5/3/2012	1,083 00	15.84	85 33	IncAzi-MWD	Scientific Drilling
5/3/2012	1,114 00	16 43	84.80	IncAzi-MWD	Scientific Drilling
5/3/2012	1,146.00	16.75	84.86	IncAzi-MWD	Scientific Drilling
5/3/2012	1,177.00	17.41	84.07	IncAzi-MWD	Scientific Drilling
5/3/2012	1,209.00	18 00	84 17	IncAzi-MWD	Scientific Drilling
5/3/2012	1,241.00	18 30	84.68	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.

_____

Subcribed and sworn to me this _____

_____

Notary Public in and for San Juan County, New Mexico

My Commission expires _____

Report Printed: 6/20/2012

ConocoPhillips

COP Deviation Report

SAN JUAN 28-5 UNIT #69N

Survey Data

Date	MD (ftKB)	Incl (°)	Azm (°)	Method	Survey Company
5/3/2012	1,272 00	19 05	85.14	IncAzi-MWD	Scientific Drilling
5/3/2012	1,304 00	19 80	85.69	IncAzi-MWD	Scientific Drilling
5/3/2012	1,335.00	20.33	86.01	IncAzi-MWD	Scientific Drilling
5/3/2012	1,367 00	20.89	86.64	IncAzi-MWD	Scientific Drilling
5/3/2012	1,398 00	21.67	85.76	IncAzi-MWD	Scientific Drilling
5/3/2012	1,430 00	21.86	86.86	IncAzi-MWD	Scientific Drilling
5/3/2012	1,461 00	22.69	85.93	IncAzi-MWD	Scientific Drilling
5/3/2012	1,493.00	23.08	86 32	IncAzi-MWD	Scientific Drilling
5/5/2012	1,525 00	23.53	86.69	IncAzi-MWD	Scientific Drilling
5/3/2012	1,557.00	24.12	86.45	IncAzi-MWD	Scientific Drilling
5/3/2012	1,588 00	24.30	87.07	IncAzi-MWD	Scientific Drilling
5/3/2012	1,620.00	24.60	86.81	IncAzi-MWD	Scientific Drilling
5/3/2012	1,683.00	25.01	86 50	IncAzi-MWD	Scientific Drilling
5/3/2012	1,746.00	25 29	85.65	IncAzi-MWD	Scientific Drilling
5/3/2012	1,809.00	25 89	85.86	IncAzi-MWD	Scientific Drilling
5/4/2012	1,872.00	25.56	85 17	IncAzi-MWD	Scientific Drilling
5/4/2012	1,936 00	26.17	85.49	IncAzi-MWD	Scientific Drilling
5/4/2012	1,999 00	26.25	84.52	IncAzi-MWD	Scientific Drilling
5/4/2012	2,063.00	26.03	85.72	IncAzi-MWD	Scientific Drilling
5/4/2012	2,127.00	26.60	86.15	IncAzi-MWD	Scientific Drilling
5/4/2012	2,190 00	25.98	87 48	IncAzi-MWD	Scientific Drilling
5/4/2012	2,254.00	24 80	87.90	IncAzi-MWD	Scientific Drilling
5/4/2012	2,317.00	24.74	87 35	IncAzi-MWD	Scientific Drilling
5/4/2012	2,380.00	24 96	86.96	IncAzi-MWD	Scientific Drilling
5/4/2012	2,444.00	23 95	87.02	IncAzi-MWD	Scientific Drilling
5/4/2012	2,507 00	23.57	86.93	IncAzi-MWD	Scientific Drilling
5/4/2012	2,571 00	23.49	86.43	IncAzi-MWD	Scientific Drilling
5/4/2012	2,634.00	23.55	86.17	IncAzi-MWD	Scientific Drilling
5/4/2012	2,698 00	23.19	85.48	IncAzi-MWD	Scientific Drilling
5/4/2012	2,761.00	23.41	85 53	IncAzi-MWD	Scientific Drilling
5/4/2012	2,824.00	24 27	84 93	IncAzi-MWD	Scientific Drilling
5/4/2012	2,887.00	23.44	85.19	IncAzi-MWD	Scientific Drilling
5/4/2012	2,951.00	22.09	84.14	IncAzi-MWD	Scientific Drilling
5/4/2012	3,014.00	21.50	83.76	IncAzi-MWD	Scientific Drilling
5/4/2012	3,077 00	20.48	85.64	IncAzi-MWD	Scientific Drilling
5/4/2012	3,141 00	19.01	84.80	IncAzi-MWD	Scientific Drilling
5/4/2012	3,204 00	18.32	84.74	IncAzi-MWD	Scientific Drilling
5/4/2012	3,268 00	18.32	84.74	IncAzi-MWD	Scientific Drilling
5/5/2012	3,299.00	16 95	85.41	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.

_____

Subcribed and sworn to me this _____

_____

Notary Public in and for San Juan County, New Mexico

My Commission expires _____

ConocoPhillips

COP Deviation Report

SAN JUAN 28-5 UNIT #69N

Survey Data

Date	MD (ftKB)	Incl (°)	Azm (°)	Method	Survey Company
5/5/2012	3,331.00	16.79	84.32	IncAzi-MWD	Scientific Drilling
5/5/2012	3,362.00	16.06	82 91	IncAzi-MWD	Scientific Drilling
5/5/2012	3,394.00	15.20	81.81	IncAzi-MWD	Scientific Drilling
5/5/2012	3,426 00	14.49	81 08	IncAzi-MWD	Scientific Drilling
5/5/2012	3,458 00	13.88	80 99	IncAzi-MWD	Scientific Drilling
5/5/2012	3,490 00	12.65	80 43	IncAzi-MWD	Scientific Drilling
5/5/2012	3,521.00	12.08	80.67	IncAzi-MWD	Scientific Drilling
5/5/2012	3,553 00	11.80	79.49	IncAzi-MWD	Scientific Drilling
5/5/2012	3,584.00	11.16	76.03	IncAzi-MWD	Scientific Drilling
5/5/2012	3,616.00	9.80	73 95	IncAzi-MWD	Scientific Drilling
5/5/2012	3,647.00	9 04	72 32	IncAzi-MWD	Scientific Drilling
5/5/2012	3,679.00	8 10	75.49	IncAzi-MWD	Scientific Drilling
5/5/2012	3,710.00	6.95	77.51	IncAzi-MWD	Scientific Drilling
5/5/2012	3,742 00	6.04	77.16	IncAzi-MWD	Scientific Drilling
5/5/2012	3,773 00	5.42	78.77	IncAzi-MWD	Scientific Drilling
5/5/2012	3,805 00	4.79	80.72	IncAzi-MWD	Scientific Drilling
5/5/2012	3,837.00	3.87	82.49	IncAzi-MWD	Scientific Drilling
5/5/2012	3,869.00	2 97	80 25	IncAzi-MWD	Scientific Drilling
5/5/2012	3,917.00	1 56	76 75	IncAzi-MWD	Scientific Drilling
5/14/2012	8,003 00	0.75		Inc-WL	Phoenix Services LLC

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.

Subcribed and sworn to me this 6/20/12

Notary Public in and for San Juan County, New Mexico

My Commission expires 2/28/2014

Report Printed: 6/20/2012

ConocoPhillips

ConocoPhillips

SJB (NM Central)
SEC 33-T28N-R5W
San Juan 28-5 Unit #69N

OH

Design: OH

API # 3003931024

Standard Survey Report

17 May, 2012

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

Notarized this date 17th of May, 2012.

Notary Signature
County of Natrona
State of Wyoming

NOTARY PUBLIC
CHRYSTAL D. WOLLERMAN
STATE OF WYOMING
COUNTY OF NATRONA
My Commission Expires Oct 20, 2013

Scientific Drilling

ConocoPhillips

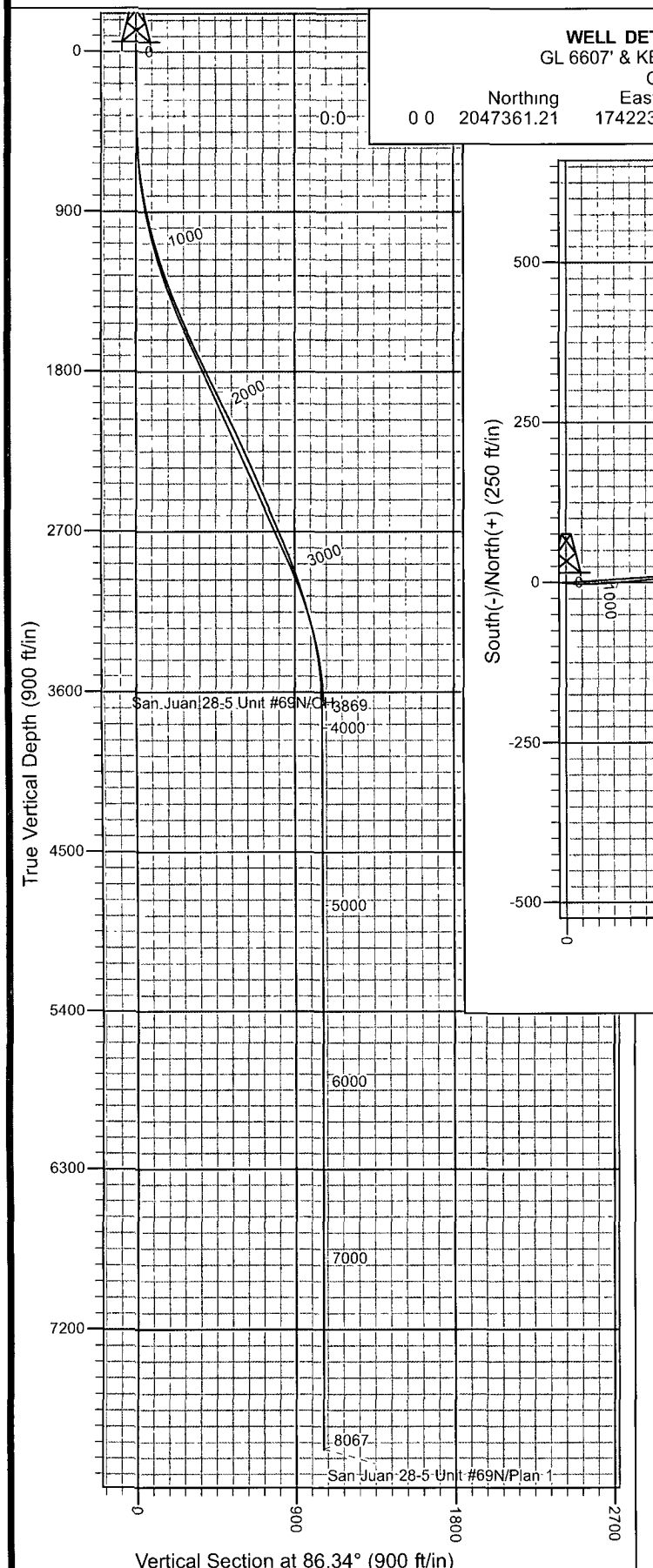
Project: SJB (NM Central)
Site: SEC 33-T28N-R5W
Well: San Juan 28-5 Unit #69N
Wellbore: OH
Design: OH

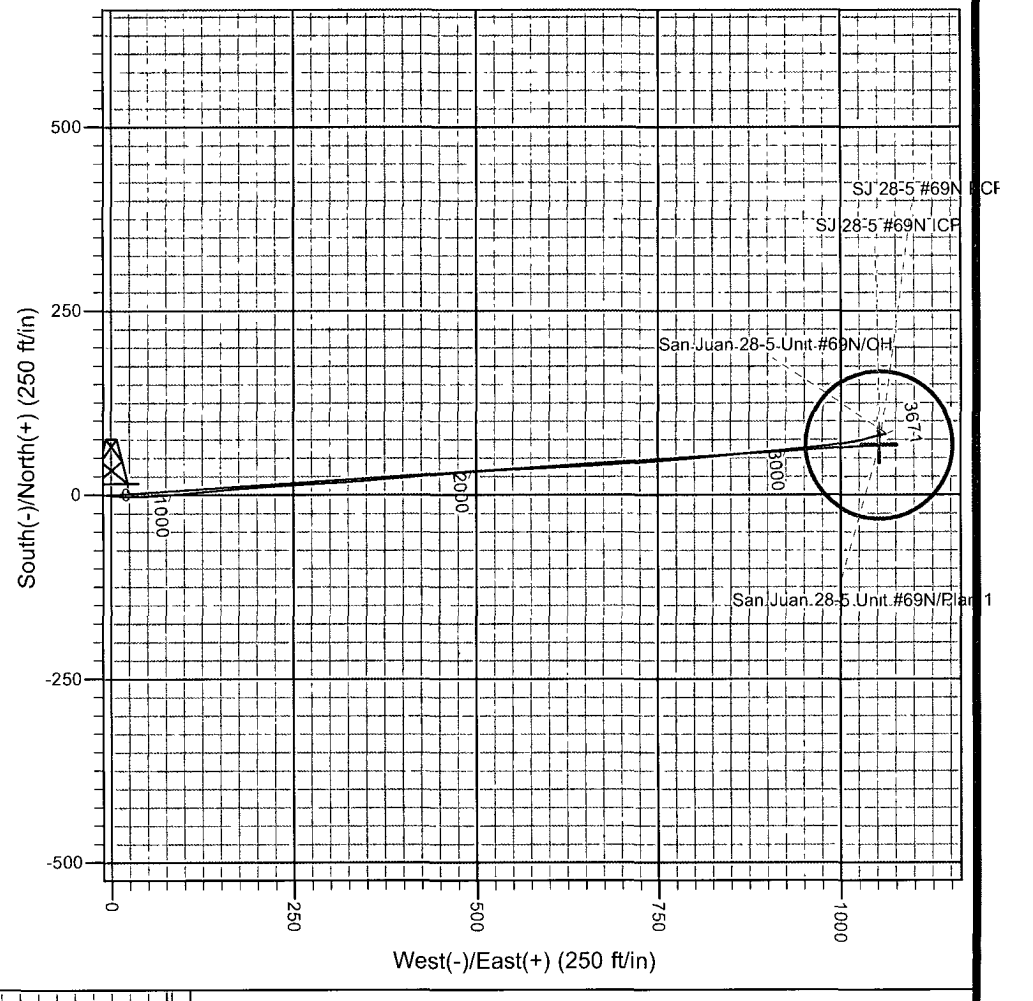
Scientific Drilling
Directional Drilling Operations

WELL DETAILS: San Juan 28-5 Unit #69N
GL 6607' & KB 15' @ 6622.0ft (AWS 711)
Ground Level:6607.0

	Northing	Easting	Latitude	Longitude
0 0	2047361.21	174223.16	36° 37' 17.748 N	107° 21' 36.495 W

T
Azimuths to True North
Magnetic North 9 61
Magnetic Field
Strength 50598 4snT
Dip Angle 63 41
Date 2012/04/20
Model BGGM2011





REFERENCE INFORMATION
Co-ordinate (N/E) Reference: Well San Juan 28-5 Unit #69N, True North
Vertical (TVD) Reference: GL 6607' & KB 15' @ 6622.0ft (AWS 711)
Section (VS) Reference: Slot - (0.0N, 0.0E)
Measured Depth Reference: GL 6607' & KB 15' @ 6622.0ft (AWS 711)
Calculation Method: Minimum Curvature

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

ConocoPhillips

Scientific Drilling

Survey Report

Scientific Drilling

Company:	ConocoPhillips	**Local Co-ordinate Reference:**	Well San Juan 28-5 Unit #69N
Project:	SJB (NM Central)	**TVD Reference:**	GL 6607' & KB 15' @ 6622.0ft (AWS 711)
Site:	SEC 33-T28N-R5W	**MD Reference:**	GL 6607' & KB 15' @ 6622.0ft (AWS 711)
Well:	San Juan 28-5 Unit #69N	**North Reference:**	True
Wellbore:	OH	**Survey Calculation Method:**	Minimum Curvature
Design:	OH	**Database:**	EDM 2003 21 Single User Db

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 33-T28N-R5W

Site Position:		**Northing:**	2,047,361 21 ft	**Latitude:**	36° 37' 17.748 N
From:	Lat/Long	**Easting:**	174,223 16 ft	**Longitude:**	107° 21' 36.495 W
Position Uncertainty:	0 0 ft	**Slot Radius:**	"	**Grid Convergence:**	-0.66 °

Well San Juan 28-5 Unit #69N, 1238' FNL 1518' FEL

Well Position	**+N/-S**	0.0 ft	**Northing:**	2,047,361.21 ft	**Latitude:**	36° 37' 17 748 N
	+E/-W	0.0 ft	**Easting:**	174,223 16 ft	**Longitude:**	107° 21' 36.495 W
Position Uncertainty		0.0 ft	**Wellhead Elevation:**	ft	**Ground Level:**	6,607 0 ft

Wellbore OH

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2011	2012/04/20	9.61	63 41	50,598

Design OH

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	86 34

Survey Program Date 2012/05/17

From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
284.0	3,869.0	Survey #1 (OH)	MWD SDI	MWD - Standard ver 1 0 1

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)
0 0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0 00
284.0	0.34	273.75	284.0	0.1	-0.8	-0 8	0.12	0 12	0.00
First SDI MWD Survey									
314.0	0.14	215 27	314 0	0.0	-1.0	-0.9	0.97	-0.67	-194.93
344.0	0.41	141.72	344.0	-0 1	-0.9	-0 9	1.31	0.90	-245.17
375.0	0.95	117 48	375 0	-0.3	-0.6	-0.6	1.94	1.74	-78.19
406.0	1.56	105.57	406.0	-0.5	0.0	0.0	2.13	1.97	-38.42
437.0	2.42	101.18	437.0	-0.8	1 1	1.0	2.82	2.77	-14.16
468 0	3 03	96.59	467.9	-1.0	2 5	2 5	2.09	1 97	-14.81
499.0	3.60	95.94	498.9	-1 2	4.3	4.2	1.84	1 84	-2.10
529.0	4 17	94.99	528.8	-1 4	6.3	6 2	1.91	1.90	-3.17
560.0	4.69	94.32	559 7	-1.6	8.7	8.6	1.69	1.68	-2.16
591.0	5.35	94.83	590.6	-1.8	11.4	11.3	2.13	2 13	1.65

Company:	ConocoPhillips	**Local Co-ordinate Reference:**	Well San Juan 28-5 Unit #69N
Project:	SJB (NM Central)	**TVD Reference:**	GL 6607' & KB 15' @ 6622.0ft (AWS 711)
Site:	SEC 33-T28N-R5W	**MD Reference:**	GL 6607' & KB 15' @ 6622.0ft (AWS 711)
Well:	San Juan 28-5 Unit #69N	**North Reference:**	True
Wellbore:	OH	**Survey Calculation Method:**	Minimum Curvature
Design:	OH	**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)
622 0	6.05	93 92	621.4	-2.0	14.5	14.3	2.28	2.26	-2.94
653.0	6 71	94 23	652 3	-2 3	17 9	17.8	2 13	2.13	1 00
684.0	7 17	92 25	683 0	-2.5	21 7	21.5	1.67	1.48	-6.39
714.0	7.97	90 47	712 8	-2 6	25 6	25.4	2 78	2 67	-5 93
745.0	8 50	89.80	743.4	-2.6	30.1	29.8	1.74	1.71	-2.16
776.0	9 15	89 64	774 1	-2.5	34 8	34.6	2.10	2 10	-0.52
806.0	9 99	88 61	803 7	-2 5	39 8	39.6	2 86	2.80	-3 43
837 0	10 69	87.97	834.2	-2.3	45 4	45.1	2.29	2.26	-2.06
868.0	11.40	87 61	864 6	-2 1	51.3	51.1	2.30	2.29	-1.16
899.0	11.80	85 78	895 0	-1.7	57 5	57.3	1.75	1.29	-5.90
929.0	12.42	85 96	924 3	-1 3	63 8	63.6	2 07	2 07	0.60
959.0	13.33	86.08	953.5	-0.8	70.5	70.3	3.03	3.03	0.40
990.0	13.97	86.03	983.7	-0.3	77 8	77 6	2 06	2.06	-0.16
1,021.0	14.71	85.52	1,013 7	0 3	85 4	85 3	2 42	2 39	-1.65
1,051.0	15.32	85.91	1,042.7	0.9	93.2	93.0	2.06	2.03	1.30
1,083.0	15.84	85.33	1,073.5	1.5	101.7	101.6	1.70	1.63	-1.81
1,114.0	16.43	84 80	1,103 3	2.3	110.3	110.2	1.96	1.90	-1 71
1,146.0	16.75	84.86	1,133 9	3.1	119 4	119.4	1 00	1.00	0.19
1,177.0	17.41	84.07	1,163.6	4.0	128 5	128.5	2.26	2.13	-2.55
1,209.0	18.00	84.17	1,194 0	5.0	138 2	138 2	1 85	1 84	0.31
1,241 0	18 30	84.68	1,224.5	5.9	148.1	148.2	1.06	0.94	1.59
1,272.0	19 05	85 14	1,253.8	6.8	158 0	158.1	2.47	2.42	1 48
1,304.0	19 80	85.69	1,284 0	7.7	168.6	168.7	2.41	2.34	1.72
1,335.0	20 33	86.01	1,313 1	8.4	179.2	179.4	1.75	1 71	1 03
1,367.0	20.89	86.64	1,343.1	9.1	190.4	190 6	1.88	1 75	1.97
1,398.0	21 67	85.76	1,372.0	9.9	201.7	201.9	2.72	2.52	-2.84
1,430 0	21.86	86.86	1,401.7	10.7	213.5	213.7	1.41	0.59	3.44
1,461 0	22.69	85.93	1,430.4	11 4	225.2	225.5	2 91	2.68	-3 00
1,493.0	23.08	86 32	1,459 8	12 2	237.6	237 9	1.31	1.22	1.22
1,525 0	23.53	86 69	1,489 2	13 0	250.3	250.6	1.48	1.41	1.16
1,557.0	24 12	86.45	1,518.5	13.8	263.2	263.5	1.87	1.84	-0 75
1,588.0	24.30	87.07	1,546.8	14 5	275.9	276 2	1.00	0.58	2.00
1,620.0	24.60	86 81	1,575.9	15.2	289.1	289.5	1.00	0.94	-0.81
1,683 0	25.01	86.50	1,633.1	16.7	315 5	315.9	0.68	0.65	-0.49
1,746 0	25.29	85 65	1,690 1	18.6	342 2	342.7	0.73	0 44	-1.35
1,809 0	25.89	85.66	1,746.9	20.6	369.3	369.9	0.95	0.95	0.02
1,872.0	25.56	85.17	1,803.7	22 8	396 6	397 2	0.62	-0.52	-0 78
1,936.0	26.17	85 49	1,861.3	25.1	424 4	425 1	0.98	0 95	0.50
1,999.0	26 25	84 52	1,917.8	27 5	452 1	453 0	0.69	0.13	-1.54
2,063 0	26 03	85 72	1,975.3	29 9	480 2	481 2	0.89	-0.34	1 88
2,127.0	26 60	86.15	2,032.6	31.9	508.5	509.5	0.94	0.89	0.67
2,190 0	25 98	87 48	2,089.1	33 5	536.4	537 4	1.36	-0.98	2 11
2,254.0	24.80	87.90	2,146 9	34 6	563.8	564.9	1.87	-1.84	0.66
2,317.0	24.74	87.35	2,204 1	35.7	590.2	591.2	0.38	-0.10	-0.87
2,380 0	24.96	86.96	2,261.3	37 0	616.6	617.7	0.44	0 35	-0.62
2,444.0	23.95	87.02	2,319.6	38 4	643.1	644.2	1 58	-1.58	0.09
2,507.0	23.57	86.93	2,377.2	39.7	668.4	669.6	0.61	-0.60	-0.14
2,571.0	23.49	86.43	2,435.9	41.2	693.9	695.1	0.34	-0.13	-0 78
2,634.0	23.55	86.17	2,493.7	42.8	719 0	720.3	0 19	0.10	-0.41
2,698.0	23.19	85.48	2,552.4	44.7	744 3	745.7	0 71	-0.56	-1.08
2,761.0	23.41	85.53	2,610.3	46.6	769 2	770.6	0 35	0.35	0.08
2,824.0	24.27	84.93	2,667.9	48.8	794.6	796.0	1 42	1.37	-0.95
2,887.0	23 44	85 19	2,725.5	51.0	819.9	821.5	1.33	-1.32	0.41
2,951.0	22.09	84.14	2,784 5	53 2	844.6	846.3	2.20	-2 11	-1.64

Company:	ConocoPhillips	**Local Co-ordinate Reference:**	Well San Juan 28-5 Unit #69N
Project:	SJB (NM Central)	**TVD Reference:**	GL 6607' & KB 15' @ 6622.0ft (AWS 711)
Site:	SEC 33-T28N-R5W	**MD Reference:**	GL 6607' & KB 15' @ 6622 0ft (AWS 711)
Well:	San Juan 28-5 Unit #69N	**North Reference:**	True
Wellbore:	OH	**Survey Calculation Method:**	Minimum Curvature
Design:	OH	**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)
3,014 0	21.50	83.76	2,843 0	55 7	867 9	869.6	0 96	-0.94	-0.60
3,077 0	20.48	85.64	2,901.9	57 8	890.3	892.2	1 94	-1.62	2.98
3,141 0	19.01	84.80	2,962.1	59 6	911 9	913.8	2.34	-2.30	-1.31
3,204 0	18.32	84.74	3,021.8	61.4	931.9	934.0	1.10	-1.10	-0 10
3,268.0	17 35	84 96	3,082 7	63.2	951.5	953.6	1.52	-1.52	0.34
3,299 0	16.95	85.41	3,112 3	64 0	960.6	962.7	1.36	-1.29	1.45
3,331.0	16.79	84.32	3,142.9	64.8	969.8	972.0	1.11	-0.50	-3.41
3,362 0	16.06	82.91	3,172 7	65 8	978.5	980.7	2.68	-2.35	-4.55
3,394 0	15.20	81.81	3,203 5	66 9	987.1	989.3	2.84	-2.69	-3.44
3,426.0	14.49	81 08	3,234.4	68.1	995.2	997.5	2.29	-2.22	-2.28
3,458.0	13.88	80.99	3,265.5	69.4	1,002.9	1,005.3	1.91	-1.91	-0.28
3,490.0	12.65	80 43	3,296 6	70.5	1,010.2	1,012.6	3.86	-3.84	-1.75
3,521.0	12.08	80 67	3,326 9	71 6	1,016.7	1,019.2	1.85	-1.84	0.77
3,553.0	11.80	79 49	3,358 2	72 8	1,023.3	1,025.8	1.16	-0.88	-3.69
3,584.0	11.16	76.03	3,388 6	74 1	1,029.3	1,031.9	3.03	-2.06	-11.16
3,616.0	9.80	73.95	3,420.0	75.6	1,034.9	1,037.6	4.41	-4.25	-6.50
3,647.0	9.04	72.32	3,450 6	77 0	1,039.8	1,042.6	2.60	-2.45	-5.26
3,679 0	8 10	75.49	3,482.3	78.4	1,044.3	1,047.2	3.29	-2.94	9.91
3,710 0	6 95	77.51	3,513.0	79.3	1,048.3	1,051 2	3.81	-3.71	6 52
3,742 0	6 04	77 16	3,544.8	80.1	1,051.8	1,054 8	2.85	-2.84	-1 09
3,773.0	5 42	78 77	3,575.6	80 8	1,054.8	1,057.8	2.07	-2.00	5.19
3,805.0	4.79	80.72	3,607.5	81 3	1,057.6	1,060 7	2.04	-1.97	6.09
3,837.0	3 87	82 49	3,639.4	81.6	1,060.0	1,063.1	2.90	-2.88	5.53
3,869.0	2.97	80.25	3,671.4	81 9	1,061.9	1,065.0	2.84	-2.81	-7.00
Last SDI MWD Survey									

Checked By: _____ Approved By: _____ Date: _____

ConocoPhillips

ConocoPhillips

SJB (NM Central)
SEC 33-T28N-R5W
San Juan 28-5 Unit #69N

OH

Design: OH

Standard Survey Report

17 May, 2012

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

Notarized this date 17th of May, 2012.

Chrystal D Wellerman
Notary Signature
County of Natrona
State of Wyoming

NOTARY PUBLIC
CHRYSTAL D. WOLLERMAN
STATE OF WYOMING
COUNTY OF NATRONA
My Commission Expires Oct 20, 2013

Scientific Drilling

ConocoPhillips

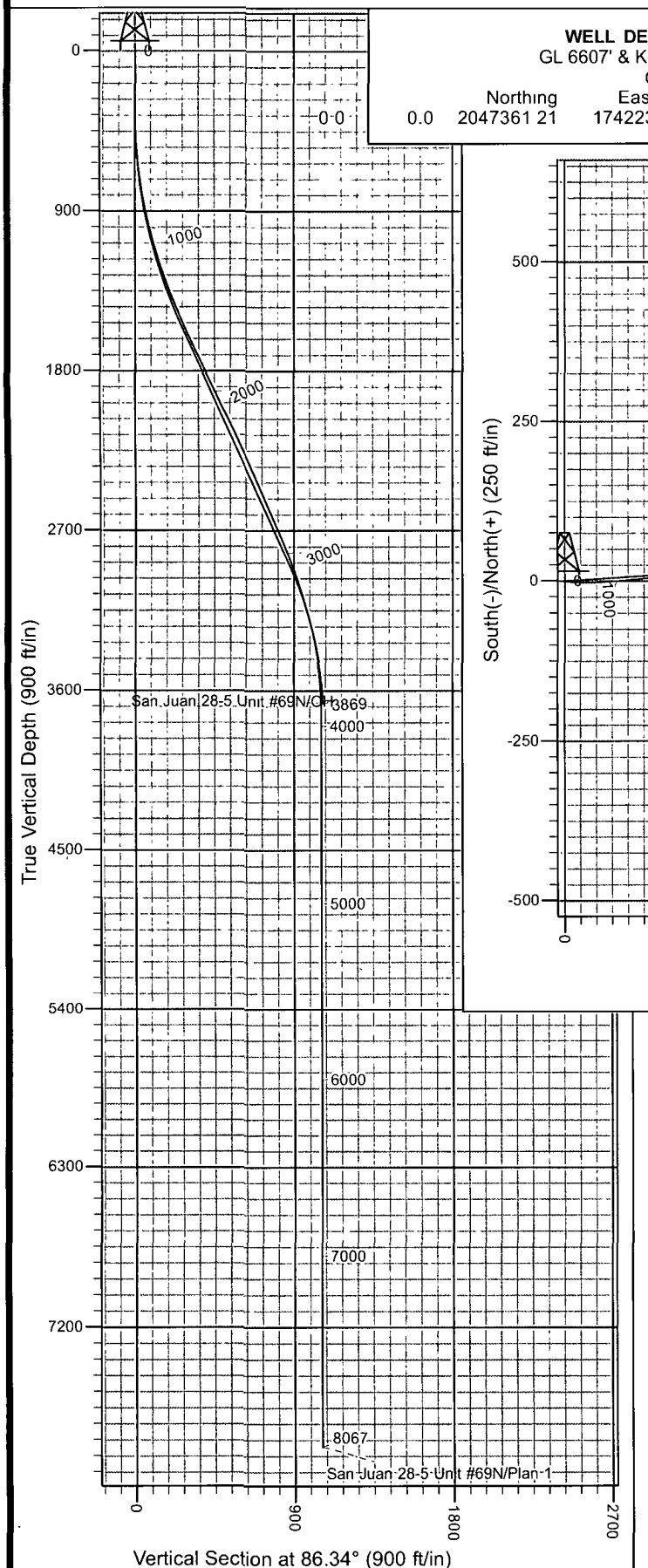
Project: SJB (NM Central)
Site: SEC 33-T28N-R5W
Well: San Juan 28-5 Unit #69N
Wellbore: OH
Design: OH

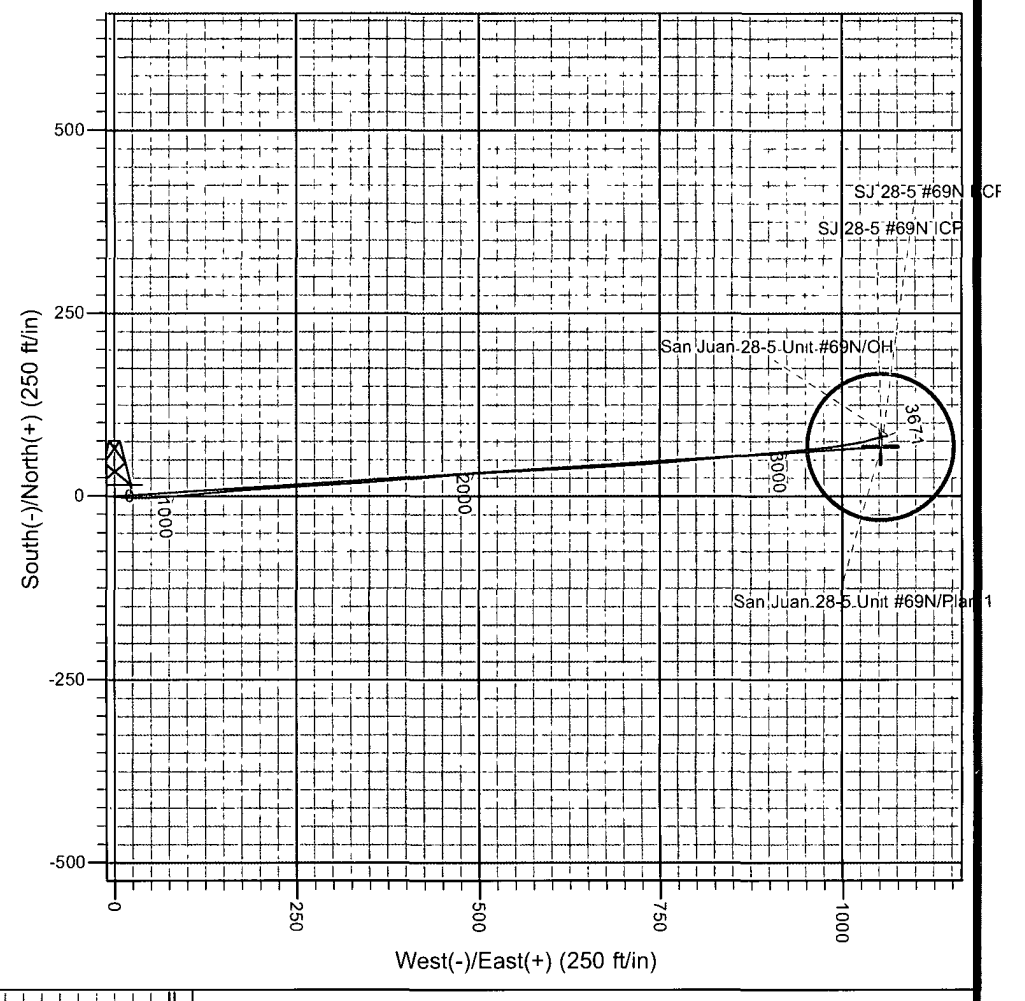
Scientific Drilling
Directional Drilling Operations

WELL DETAILS: San Juan 28-5 Unit #69N
GL 6607' & KB 15' @ 6622.0ft (AWS 711)
Ground Level:6607.0

	Northing	Easting	Latitude	Longitude
0.0	2047361.21	174223.16	36° 37' 17.748 N	107° 21' 36.495 W

Azimuths to True North
Magnetic North: 9.61°
Magnetic Field
Strength: 50598.4snT
Dip Angle: 63.41°
Date: 2012/04/20
Model: BGGM2011





REFERENCE INFORMATION
Co-ordinate (N/E) Reference: Well San Juan 28-5 Unit #69N, True North
Vertical (TVD) Reference: GL 6607' & KB 15' @ 6622.0ft (AWS 711)
Section (VS) Reference: Slot - (0.0N, 0.0E)
Measured Depth Reference: GL 6607' & KB 15' @ 6622.0ft (AWS 711)
Calculation Method: Minimum Curvature

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

Company:	ConocoPhillips	**Local Co-ordinate Reference:**	Well San Juan 28-5 Unit #69N
Project:	SJB (NM Central)	**TVD Reference:**	GL 6607' & KB 15' @ 6622 0ft (AWS 711)
Site:	SEC 33-T28N-R5W	**MD Reference:**	GL 6607' & KB 15' @ 6622.0ft (AWS 711)
Well:	San Juan 28-5 Unit #69N	**North Reference:**	True
Wellbore:	OH	**Survey Calculation Method:**	Minimum Curvature
Design:	OH	**Database:**	EDM 2003.21 Single User Db

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 33-T28N-R5W				
Site Position:		**Northing:**	2,047,361 21 ft	**Latitude:**	36° 37' 17.748 N
From:	Lat/Long	**Easting:**	174,223.16 ft	**Longitude:**	107° 21' 36.495 W
Position Uncertainty:	0 0 ft	**Slot Radius:**	"	**Grid Convergence:**	-0.66 °

Well	San Juan 28-5 Unit #69N, 1238' FNL 1518' FEL					
Well Position	**+N/-S**	0.0 ft	**Northing:**	2,047,361.21 ft	**Latitude:**	36° 37' 17.748 N
	+E/-W	0 0 ft	**Easting:**	174,223.16 ft	**Longitude:**	107° 21' 36 495 W
Position Uncertainty		0 0 ft	**Wellhead Elevation:**	ft	**Ground Level:**	6,607.0 ft

Wellbore	OH				
Magnetics	**Model Name**	**Sample Date**	**Declination (°)**	**Dip Angle (°)**	**Field Strength (nT)**
	BGGM2011	2012/04/20	9.61	63.41	50,598

Design	OH					
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	86.34		

Survey Program	**Date** 2012/05/17		
From (ft)	**To (ft)**	**Survey (Wellbore)**	**Tool Name**	**Description**
284 0	3,869.0	Survey #1 (OH)	MWD SDI	MWD - Standard ver 1 0 1

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)
0.0	0 00	0.00	0.0	0 0	0.0	0.0	0.00	0.00	0.00
284.0	0.34	273.75	284.0	0.1	-0.8	-0.8	0.12	0.12	0.00
First SDI MWD Survey									
314.0	0.14	215.27	314 0	0.0	-1.0	-0 9	0.97	-0.67	-194.93
344 0	0.41	141.72	344 0	-0.1	-0.9	-0.9	1.31	0 90	-245.17
375.0	0.95	117.48	375.0	-0.3	-0.6	-0.6	1 94	1.74	-78.19
406.0	1.56	105.57	406 0	-0.5	0.0	0.0	2.13	1.97	-38.42
437.0	2.42	101.18	437.0	-0.8	1 1	1 0	2.82	2.77	-14.16
468.0	3.03	96.59	467.9	-1.0	2.5	2 5	2 09	1.97	-14.81
499 0	3.60	95.94	498.9	-1 2	4.3	4.2	1 84	1.84	-2.10
529.0	4.17	94.99	528.8	-1.4	6.3	6 2	1.91	1.90	-3.17
560.0	4.69	94.32	559.7	-1.6	8.7	8.6	1.69	1.68	-2 16
591 0	5 35	94.83	590.6	-1.8	11.4	11.3	2.13	2.13	1.65

Company:	ConocoPhillips	**Local Co-ordinate Reference:**	Well San Juan 28-5 Unit #69N
Project:	SJB (NM Central)	**TVD Reference:**	GL 6607' & KB 15' @ 6622.0ft (AWS 711)
Site:	SEC 33-T28N-R5W	**MD Reference:**	GL 6607' & KB 15' @ 6622.0ft (AWS 711)
Well:	San Juan 28-5 Unit #69N	**North Reference:**	True
Wellbore:	OH	**Survey Calculation Method:**	Minimum Curvature
Design:	OH	**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)
622 0	6.05	93.92	621 4	-2.0	14.5	14.3	2.28	2.26	-2.94
653.0	6.71	94.23	652.3	-2.3	17 9	17.8	2.13	2.13	1.00
684 0	7.17	92 25	683.0	-2.5	21.7	21.5	1.67	1 48	-6.39
714.0	7 97	90 47	712 8	-2.6	25.6	25.4	2.78	2 67	-5.93
745.0	8.50	89.80	743.4	-2.6	30.1	29 8	1 74	1.71	-2.16
776.0	9.15	89.64	774.1	-2.5	34 8	34.6	2.10	2.10	-0.52
806.0	9.99	88 61	803.7	-2.5	39 8	39 6	2 86	2 80	-3.43
837.0	10.69	87.97	834.2	-2.3	45 4	45 1	2 29	2.26	-2.06
868.0	11.40	87.61	864 6	-2.1	51 3	51.1	2.30	2.29	-1 16
899.0	11.80	85 78	895 0	-1.7	57.5	57.3	1.75	1 29	-5.90
929.0	12.42	85.96	924.3	-1 3	63.8	63.6	2 07	2.07	0.60
959.0	13.33	86.08	953 5	-0.8	70.5	70.3	3.03	3 03	0.40
990.0	13 97	86.03	983.7	-0.3	77.8	77.6	2 06	2.06	-0.16
1,021.0	14.71	85.52	1,013.7	0.3	85.4	85.3	2 42	2.39	-1 65
1,051.0	15.32	85 91	1,042 7	0 9	93.2	93.0	2.06	2.03	1.30
1,083.0	15 84	85.33	1,073.5	1.5	101.7	101 6	1.70	1.63	-1.81
1,114.0	16.43	84.80	1,103.3	2.3	110.3	110 2	1.96	1.90	-1.71
1,146 0	16.75	84.86	1,133 9	3.1	119.4	119.4	1.00	1 00	0.19
1,177.0	17.41	84.07	1,163.6	4 0	128.5	128.5	2.26	2.13	-2 55
1,209.0	18.00	84.17	1,194.0	5.0	138 2	138 2	1 85	1.84	0.31
1,241.0	18.30	84.68	1,224.5	5 9	148 1	148.2	1.06	0.94	1.59
1,272.0	19.05	85.14	1,253 8	6.8	158 0	158 1	2.47	2.42	1 48
1,304.0	19.80	85.69	1,284.0	7.7	168 6	168.7	2 41	2.34	1.72
1,335.0	20.33	86.01	1,313 1	8 4	179 2	179.4	1.75	1.71	1.03
1,367 0	20 89	86.64	1,343.1	9.1	190 4	190.6	1.88	1.75	1.97
1,398.0	21.67	85.76	1,372.0	9 9	201.7	201.9	2.72	2.52	-2.84
1,430.0	21.86	86.86	1,401.7	10.7	213 5	213.7	1.41	0.59	3.44
1,461.0	22.69	85.93	1,430 4	11 4	225 2	225.5	2.91	2.68	-3 00
1,493.0	23.08	86 32	1,459 8	12 2	237.6	237.9	1.31	1.22	1.22
1,525.0	23.53	86 69	1,489.2	13.0	250.3	250.6	1.48	1 41	1.16
1,557.0	24.12	86.45	1,518.5	13 8	263.2	263.5	1.87	1.84	-0.75
1,588.0	24.30	87.07	1,546 8	14 5	275.9	276.2	1.00	0.58	2 00
1,620.0	24.60	86.81	1,575 9	15.2	289.1	289.5	1.00	0 94	-0.81
1,683 0	25 01	86.50	1,633.1	16.7	315.5	315.9	0.68	0.65	-0.49
1,746.0	25 29	85 65	1,690 1	18 6	342.2	342.7	0.73	0.44	-1.35
1,809.0	25.89	85.66	1,746.9	20 6	369 3	369.9	0.95	0.95	0.02
1,872.0	25 56	85.17	1,803.7	22.8	396.6	397.2	0 62	-0.52	-0 78
1,936 0	26 17	85.49	1,861.3	25.1	424.4	425.1	0 98	0.95	0 50
1,999 0	26 25	84.52	1,917.8	27.5	452.1	453 0	0.69	0.13	-1 54
2,063.0	26.03	85 72	1,975.3	29.9	480 2	481.2	0.89	-0.34	1 88
2,127.0	26.60	86.15	2,032.6	31 9	508.5	509.5	0.94	0.89	0.67
2,190.0	25.98	87.48	2,089 1	33.5	536.4	537.4	1.36	-0.98	2.11
2,254.0	24.80	87 90	2,146.9	34.6	563 8	564.9	1.87	-1.84	0.66
2,317.0	24.74	87.35	2,204 1	35.7	590.2	591.2	0 38	-0.10	-0 87
2,380.0	24.96	86.96	2,261.3	37.0	616.6	617.7	0.44	0.35	-0.62
2,444.0	23.95	87.02	2,319.6	38.4	643.1	644.2	1 58	-1.58	0 09
2,507 0	23.57	86.93	2,377 2	39.7	668.4	669.6	0.61	-0 60	-0.14
2,571.0	23.49	86.43	2,435 9	41.2	693.9	695.1	0.34	-0.13	-0.78
2,634.0	23.55	86 17	2,493.7	42.8	719.0	720.3	0.19	0 10	-0.41
2,698.0	23 19	85.48	2,552.4	44.7	744.3	745.7	0.71	-0.56	-1.08
2,761.0	23.41	85.53	2,610 3	46.6	769.2	770.6	0.35	0.35	0 08
2,824.0	24.27	84.93	2,667.9	48.8	794 6	796 0	1.42	1.37	-0.95
2,887.0	23.44	85 19	2,725.5	51.0	819 9	821 5	1.33	-1.32	0.41
2,951 0	22.09	84.14	2,784.5	53 2	844.6	846.3	2.20	-2 11	-1.64

Company:	ConocoPhillips	**Local Co-ordinate Reference:**	Well San Juan 28-5 Unit #69N
Project:	SJB (NM Central)	**TVD Reference:**	GL 6607' & KB 15' @ 6622.0ft (AWS 711)
Site:	SEC 33-T28N-R5W	**MD Reference:**	GL 6607' & KB 15' @ 6622.0ft (AWS 711)
Well:	San Juan 28-5 Unit #69N	**North Reference:**	True
Wellbore:	OH	**Survey Calculation Method:**	Minimum Curvature
Design:	OH	**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)
3,014.0	21.50	83 76	2,843.0	55.7	867.9	869.6	0.96	-0.94	-0.60
3,077.0	20.48	85.64	2,901 9	57 8	890.3	892.2	1.94	-1 62	2 98
3,141.0	19.01	84.80	2,962 1	59.6	911.9	913.8	2 34	-2.30	-1 31
3,204.0	18.32	84.74	3,021 8	61 4	931.9	934.0	1.10	-1.10	-0 10
3,268.0	17.35	84.96	3,082 7	63.2	951 5	953.6	1.52	-1.52	0.34
3,299.0	16.95	85.41	3,112 3	64.0	960.6	962.7	1.36	-1.29	1.45
3,331.0	16 79	84 32	3,142.9	64.8	969.8	972 0	1.11	-0.50	-3 41
3,362.0	16.06	82 91	3,172 7	65.8	978.5	980 7	2.68	-2.35	-4.55
3,394 0	15.20	81.81	3,203 5	66 9	987.1	989.3	2.84	-2.69	-3 44
3,426 0	14.49	81.08	3,234.4	68 1	995 2	997.5	2.29	-2.22	-2.28
3,458.0	13.88	80.99	3,265.5	69 4	1,002.9	1,005.3	1.91	-1.91	-0.28
3,490.0	12 65	80.43	3,296.6	70.5	1,010.2	1,012.6	3.86	-3.84	-1.75
3,521.0	12.08	80.67	3,326 9	71.6	1,016.7	1,019.2	1 85	-1.84	0.77
3,553.0	11 80	79.49	3,358.2	72.8	1,023.3	1,025.8	1.16	-0.88	-3.69
3,584.0	11.16	76 03	3,388 6	74.1	1,029.3	1,031.9	3.03	-2.06	-11.16
3,616.0	9.80	73.95	3,420.0	75.6	1,034 9	1,037.6	4.41	-4.25	-6.50
3,647.0	9.04	72.32	3,450.6	77.0	1,039 8	1,042.6	2.60	-2.45	-5.26
3,679.0	8 10	75.49	3,482.3	78.4	1,044.3	1,047.2	3.29	-2.94	9.91
3,710.0	6.95	77.51	3,513.0	79.3	1,048.3	1,051.2	3.81	-3.71	6 52
3,742.0	6.04	77.16	3,544 8	80 1	1,051.8	1,054.8	2.85	-2.84	-1.09
3,773.0	5 42	78.77	3,575.6	80.8	1,054 8	1,057.8	2.07	-2.00	5.19
3,805.0	4.79	80 72	3,607 5	81.3	1,057.6	1,060.7	2.04	-1.97	6.09
3,837.0	3 87	82.49	3,639.4	81.6	1,060.0	1,063.1	2.90	-2 88	5.53
3,869.0	2.97	80 25	3,671 4	81.9	1,061.9	1,065.0	2 84	-2 81	-7 00
Last SDI MWD Survey									

Checked By: _____ Approved By: _____ Date: _____