

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

DISTRICT II
1301 West 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

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

Form C-102
Revised July 18, 2010
Submit one copy to appropriate
District Office

"AS DRILLED PLAT"

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-039-31146	² Pool Code 71599 / 72319	³ Pool Name BASIN DAKOTA/BLANCO MESAVERDE
⁴ Property Code 31739	⁵ Property Name SAN JUAN 28-7 UNIT	⁶ Well Number 113N
⁷ GRID No. 217817	⁸ Operator Name CONOCOPHILLIPS COMPANY	⁹ Elevation 6577'

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
0	18	27-N	7-W		1020	SOUTH	1675	EAST	RIO ARriba

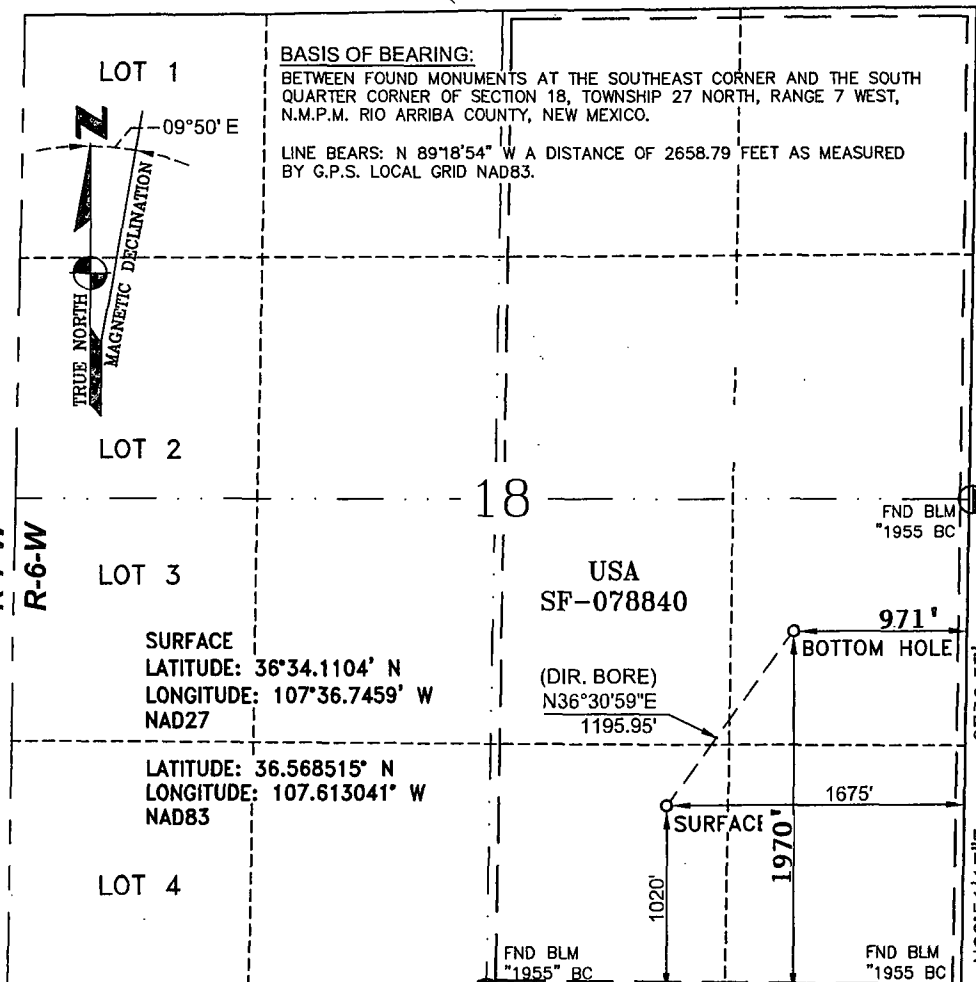
¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
1	18	27-N	7-W		1970	SOUTH	971	EAST	RIO ARriba

¹² Dedicated Acres DK 320.00 ACRES E/2 MV 320.00 ACRES E/2	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No. RCVD FEB 20 '13 OIL CONS. DIV.
---	-------------------------------	----------------------------------	--

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 DIST. 3

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

Tamra Sessions 2/20/13
Signature Date

Tamra Sessions
Printed Name

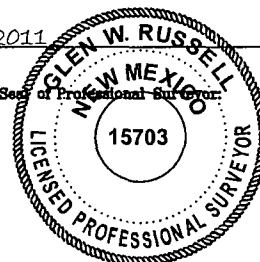
sessitd@conocophillips.com
E-mail Address

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.

JUNE 22, 2011
Date of Survey

Signature and Seal of Professional Surveyor



GLEN W. RUSSELL
Certificate Number 15703

PC

COP Deviation Report
SAN JUAN 28-7 UNIT #113N

RCVD FEB 20 '13
OIL CONS. DIV.
DIST. 3

Operator CONOCOPHILLIPS COMPANY	Legal WellName SAN JUAN 28-7 UNIT #113N	API / UWI 3003931146	County RIO ARRIBA	State/Province NEW MEXICO
Surface Legal Location 018-027N-007W-O	N/S Dist (ft) 1,020.00	N/S Ref FSL	E/W Dist (ft) 1,675.00	E/W Ref FEL

Survey Data					
Date	MD (ftKB)	Incl (°)	Azm (°)	Method	Survey Company
12/3/2012	128.00	0.50		Inc-Drop	Mo Te Drilling Inc
12/3/2012	248.00	0.75		Inc-Drop	Mo Te Drilling Inc
12/3/2012	355.00	1.75		Inc-Drop	Mo Te Drilling Inc
12/25/2012	392.00	0.35	241.85	IncAzi-MWD	Scientific Drilling
12/25/2012	453.00	0.43	29.57	IncAzi-MWD	Scientific Drilling
12/25/2012	515.00	0.88	33.61	IncAzi-MWD	Scientific Drilling
12/25/2012	576.00	0.94	31.69	IncAzi-MWD	Scientific Drilling
12/25/2012	639.00	1.02	32.45	IncAzi-MWD	Scientific Drilling
12/25/2012	700.00	1.21	31.95	IncAzi-MWD	Scientific Drilling
12/25/2012	761.00	1.22	32.98	IncAzi-MWD	Scientific Drilling
12/25/2012	821.00	1.23	35.62	IncAzi-MWD	Scientific Drilling
12/25/2012	884.00	1.45	31.36	IncAzi-MWD	Scientific Drilling
12/25/2012	948.00	1.33	35.91	IncAzi-MWD	Scientific Drilling
12/25/2012	1,011.00	1.43	37.38	IncAzi-MWD	Scientific Drilling
12/25/2012	1,075.00	2.14	39.94	IncAzi-MWD	Scientific Drilling
12/25/2012	1,138.00	3.38	36.41	IncAzi-MWD	Scientific Drilling
12/25/2012	1,201.00	4.08	31.83	IncAzi-MWD	Scientific Drilling
12/25/2012	1,264.00	5.19	31.26	IncAzi-MWD	Scientific Drilling
12/28/2012	1,327.00	6.38	37.31	IncAzi-MWD	Scientific Drilling
12/25/2012	1,390.00	7.64	41.66	IncAzi-MWD	Scientific Drilling
12/25/2012	1,454.00	8.41	42.04	IncAzi-MWD	Scientific Drilling
12/25/2012	1,517.00	9.74	39.72	IncAzi-MWD	Scientific Drilling
12/25/2012	1,580.00	11.22	36.53	IncAzi-MWD	Scientific Drilling
12/25/2012	1,643.00	12.21	37.30	IncAzi-MWD	Scientific Drilling
12/25/2012	1,707.00	13.07	36.96	IncAzi-MWD	Scientific Drilling
12/28/2012	1,770.00	14.21	38.25	IncAzi-MWD	Scientific Drilling
12/25/2012	1,833.00	15.37	39.41	IncAzi-MWD	Scientific Drilling
12/28/2012	1,896.00	16.72	41.35	IncAzi-MWD	Scientific Drilling
12/25/2012	1,959.00	18.06	40.35	IncAzi-MWD	Scientific Drilling
12/25/2012	2,022.00	19.64	39.48	IncAzi-MWD	Scientific Drilling
12/25/2012	2,086.00	20.52	39.26	IncAzi-MWD	Scientific Drilling
12/25/2012	2,149.00	21.93	40.25	IncAzi-MWD	Scientific Drilling
12/25/2012	2,212.00	22.41	41.01	IncAzi-MWD	Scientific Drilling
12/26/2012	2,276.00	22.43	40.02	IncAzi-MWD	Scientific Drilling
12/26/2012	2,339.00	22.72	37.91	IncAzi-MWD	Scientific Drilling
12/26/2012	2,402.00	22.94	36.75	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 28-7 UNIT #113N

Survey Data

Date	MD (ftKB)	Incl (°)	Azm (°)	Method	Survey Company
12/26/2012	2,465.00	22.73	35.90	IncAzi-MWD	Scientific Drilling
12/26/2012	2,528.00	23.18	34.72	IncAzi-MWD	Scientific Drilling
12/26/2012	2,592.00	22.60	34.06	IncAzi-MWD	Scientific Drilling
12/26/2012	2,655.00	22.92	33.50	IncAzi-MWD	Scientific Drilling
12/26/2012	2,718.00	22.36	32.86	IncAzi-MWD	Scientific Drilling
12/26/2012	2,781.00	22.76	32.10	IncAzi-MWD	Scientific Drilling
12/26/2012	2,845.00	22.81	31.97	IncAzi-MWD	Scientific Drilling
12/26/2012	2,908.00	22.48	32.93	IncAzi-MWD	Scientific Drilling
12/26/2012	2,971.00	22.41	33.01	IncAzi-MWD	Scientific Drilling
12/26/2012	3,035.00	22.19	31.69	IncAzi-MWD	Scientific Drilling
12/26/2012	3,098.00	23.06	31.68	IncAzi-MWD	Scientific Drilling
12/26/2012	3,161.00	24.17	33.34	IncAzi-MWD	Scientific Drilling
12/26/2012	3,224.00	24.00	34.37	IncAzi-MWD	Scientific Drilling
12/26/2012	3,287.00	23.66	34.25	IncAzi-MWD	Scientific Drilling
12/26/2012	3,351.00	22.78	33.89	IncAzi-MWD	Scientific Drilling
12/26/2012	3,414.00	22.11	34.31	IncAzi-MWD	Scientific Drilling
12/26/2012	3,477.00	21.51	35.24	IncAzi-MWD	Scientific Drilling
12/26/2012	3,540.00	21.51	34.92	IncAzi-MWD	Scientific Drilling
12/27/2012	3,603.00	21.03	35.17	IncAzi-MWD	Scientific Drilling
12/27/2012	3,667.00	21.92	36.27	IncAzi-MWD	Scientific Drilling
12/28/2012	3,729.00	22.54	37.86	IncAzi-MWD	Scientific Drilling
12/27/2012	3,762.00	21.88	37.92	IncAzi-MWD	Scientific Drilling
12/27/2012	3,794.00	21.70	36.87	IncAzi-MWD	Scientific Drilling
12/27/2012	3,857.00	22.73	37.12	IncAzi-MWD	Scientific Drilling
12/27/2012	3,920.00	22.94	37.62	IncAzi-MWD	Scientific Drilling
12/27/2012	3,984.00	22.02	38.27	IncAzi-MWD	Scientific Drilling
12/27/2012	4,047.00	20.91	37.42	IncAzi-MWD	Scientific Drilling
12/27/2012	4,111.00	20.38	36.94	IncAzi-MWD	Scientific Drilling
12/27/2012	4,174.00	20.63	36.81	IncAzi-MWD	Scientific Drilling
12/27/2012	4,237.00	20.42	36.53	IncAzi-MWD	Scientific Drilling
12/27/2012	4,301.00	20.67	36.13	IncAzi-MWD	Scientific Drilling
12/27/2012	4,364.00	19.96	36.36	IncAzi-MWD	Scientific Drilling
12/27/2012	4,428.00	18.24	38.39	IncAzi-MWD	Scientific Drilling
12/27/2012	4,491.00	16.16	40.53	IncAzi-MWD	Scientific Drilling
12/27/2012	4,554.00	13.97	42.44	IncAzi-MWD	Scientific Drilling
12/27/2012	4,618.00	12.29	44.16	IncAzi-MWD	Scientific Drilling
12/27/2012	4,681.00	10.10	43.95	IncAzi-MWD	Scientific Drilling
12/28/2012	4,744.00	8.65	39.89	IncAzi-MWD	Scientific Drilling
12/28/2012	4,807.00	7.45	38.64	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

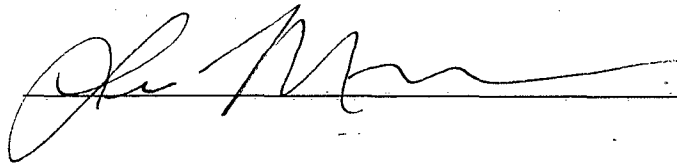
My Commission expires _____

COP Deviation Report
SAN JUAN 28-7 UNIT #113N

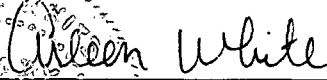
Survey Data

Date	MD (ftKB)	Incl (°)	Azm (°)	Method	Survey Company
12/28/2012	4,870.00	5.58	40.55	IncAzi-MWD	Scientific Drilling
12/28/2012	4,934.00	4.07	38.98	IncAzi-MWD	Scientific Drilling
12/28/2012	5,005.00	2.26	38.56	IncAzi-MWD	Scientific Drilling
12/30/2012	5,054.00	1.00		Inc-MWD	Aztec Well Servicing Co Inc
12/28/2012	5,060.00	2.26	38.56	Projection	Scientific Drilling
12/31/2012	5,306.00	1.00		Inc-MWD	Aztec Well Servicing Co Inc
1/2/2013	5,806.00	1.00		Inc-MWD	Aztec Well Servicing Co Inc
1/3/2013	6,306.00	1.00		Inc-MWD	Aztec Well Servicing Co Inc
1/3/2013	6,806.00	1.00		Inc-MWD	Aztec Well Servicing Co Inc
1/7/2013	7,306.00	0.50		Inc-MWD	Aztec Well Servicing Co Inc
1/8/2013	7,722.00	1.00		Inc-Drop	Aztec Well Servicing Co Inc

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.



Subscribed and sworn to me this 2/7/13



Notary Public in and for San Juan County, New Mexico

My Commission expires 5/26/15



RCVD FEB 20 '13

OIL CONS. DIV.

DIST. 3

ConocoPhillips

SJB (NM Central)
SEC 18-T27N-R7W
San Juan 28-7 Unit 113N

OH

Design: OH

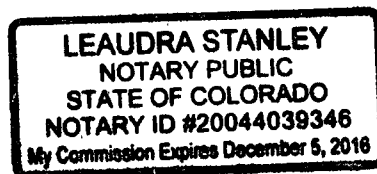
Standard Survey Report

1 January, 2013

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

Notarized this date 7th of January, 201³₂

Notary Signature
County of Mesa
State of Colorado



Scientific Drilling



Project: SJB (NM Central)
Site: SEC 18-T27N-R7W
Well: San Juan 28-7 Unit 113N
Wellbore: OH
Design: OH



Scientific Drilling

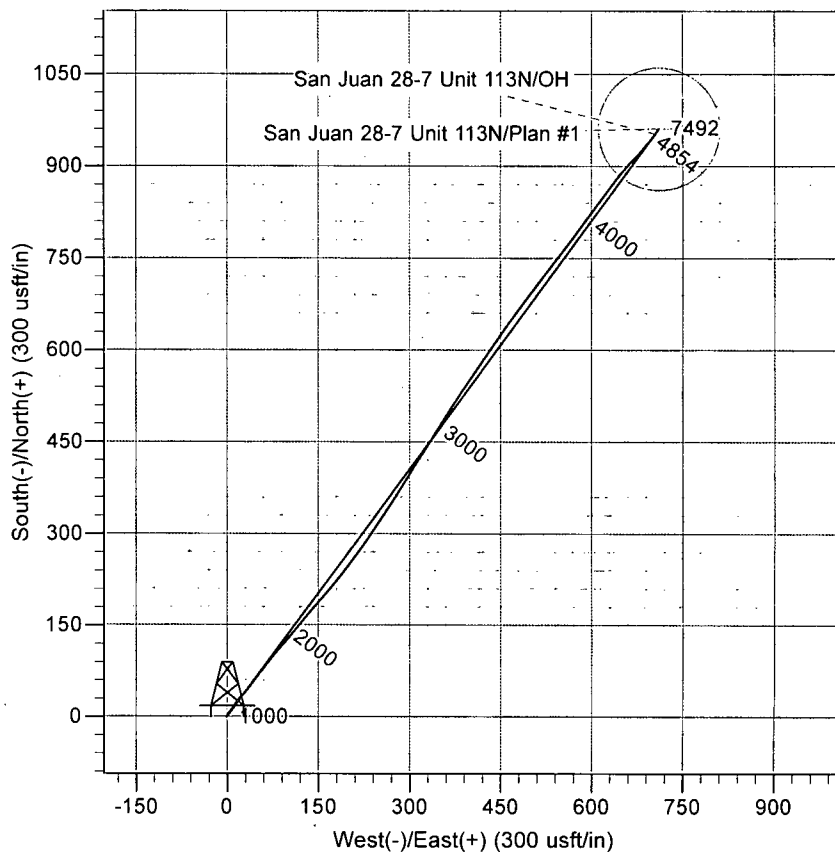
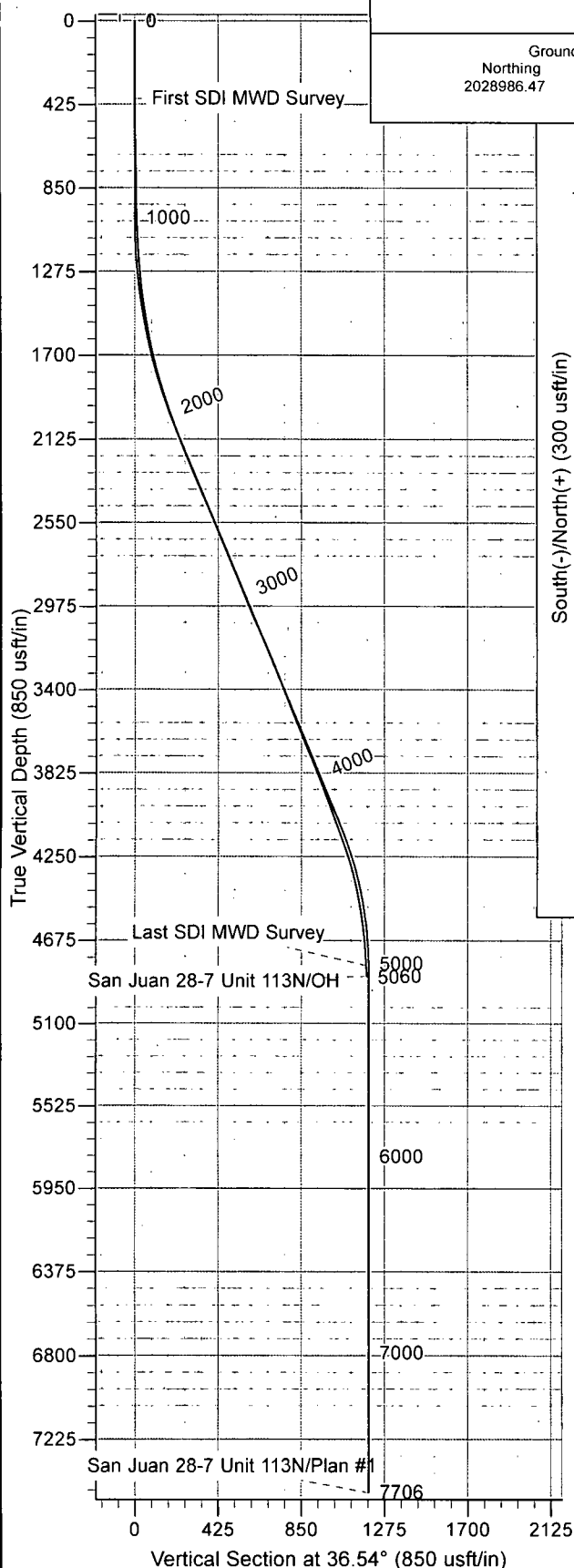
WELL DETAILS: San Juan 28-7 Unit 113N

Ground Level: GL 6577' & RKB 15' @ 6592.0usft (AWS 711)
Northing 2028986.47 Easting 99908.12 Latitude 36° 34' 6.624 N Longitude 107° 36' 44.754 W



Azimuths to True North
Magnetic North: 9.67°

Magnetic Field
Strength: 50449.3snT
Dip Angle: 63.29°
Date: 12/17/2012
Model: BGGM2012



REFERENCE INFORMATION

Co-ordinate (N/E) Reference: Well San Juan 28-7 Unit 113N, True North
Vertical (TVD) Reference: GL 6577' & RKB 15' @ 6592.0usft (AWS 711)
Section (VS) Reference: Slot - (0.0N, 0.0E)
Measured Depth Reference: GL 6577' & RKB 15' @ 6592.0usft (AWS 711)
Calculation Method: Minimum Curvature
Local North: True

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

Company:	ConocoPhillips	Local Co-ordinate Reference:	Well San Juan 28-7 Unit 113N
Project:	SJB (NM Central)	TVD Reference:	GL 6577' & RKB 15' @ 6592.0usft (AWS 711)
Site:	SEC 18-T27N-R7W	MD Reference:	GL 6577' & RKB 15' @ 6592.0usft (AWS 711)
Well:	San Juan 28-7 Unit 113N	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	Farmington 5000 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 18-T27N-R7W			
Site Position:		Northing:		2,028,986.47 usft	
From:		Easting:		99,908.13 usft	
Position Uncertainty:		Slot Radius:		13-3/16 "	
Lat/Long		Longitude:		36° 34' 6.624 N	
0.0 usft		Grid Convergence:		107° 36' 44.754 W	
				-0.81 °	

Well	San Juan 28-7 Unit 113N, 1020' FSL & 1675' FEL					
Well Position	+N/-S	0.0 usft	Northing:	2,028,986.47 usft	Latitude:	36° 34' 6.624 N
	+E/-W	0.0 usft	Easting:	99,908.13 usft	Longitude:	107° 36' 44.754 W
Position Uncertainty	0.0 usft	Wellhead Elevation:	usft	Ground Level:	6,577.0 usft	

Wellbore	OH
----------	----

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2012	12/17/12	9.67	63.29	50,449

Design	OH
--------	----

Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.0

Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	36.54

Survey Program		Date	01/01/13		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
392.0	5,060.0	Survey #1 - MWD Survey (OH)	MWD SDI	MWD - Standard ver 1.0.1	

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
392.0	0.35	241.85	392.0	-0.6	-1.1	-1.1	0.09	0.09	0.00
First SDI MWD Survey									
453.0	0.43	29.57	453.0	-0.5	-1.1	-1.0	1.23	0.13	242.17
515.0	0.88	33.61	515.0	0.1	-0.7	-0.3	0.73	0.73	6.52
576.0	0.94	31.69	576.0	1.0	-0.2	0.6	0.11	0.10	-3.15
639.0	1.02	32.45	639.0	1.9	0.4	1.7	0.13	0.13	1.21
700.0	1.21	31.95	700.0	2.9	1.0	2.9	0.31	0.31	-0.82
761.0	1.22	32.98	760.9	4.0	1.7	4.2	0.04	0.02	1.69
821.0	1.23	35.62	820.9	5.0	2.4	5.5	0.10	0.02	4.40
884.0	1.45	31.36	883.9	6.3	3.2	6.9	0.38	0.35	-6.76

Company:	ConocoPhillips	Local Co-ordinate Reference:	Well San Juan 28-7 Unit 113N
Project:	SJB (NM Central)	TVD Reference:	GL 6577' & RKB 15' @ 6592.0usft (AWS 711)
Site:	SEC 18-T27N-R7W	MD Reference:	GL 6577' & RKB 15' @ 6592.0usft (AWS 711)
Well:	San Juan 28-7 Unit 113N	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	Farmington 5000 DB

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
948.0	1.33	35.91	947.9	7.6	4.1	8.5	0.25	-0.19	7.11
1,011.0	1.43	37.38	1,010.9	8.8	5.0	10.0	0.17	0.16	2.33
1,075.0	2.14	39.94	1,074.8	10.3	6.2	12.0	1.12	1.11	4.00
1,138.0	3.38	36.41	1,137.8	12.7	8.1	15.0	1.99	1.97	-5.60
1,201.0	4.08	31.83	1,200.6	16.1	10.4	19.1	1.21	1.11	-7.27
1,264.0	5.19	31.26	1,263.4	20.5	13.0	24.2	1.76	1.76	-0.90
1,327.0	6.38	37.31	1,326.1	25.7	16.6	30.5	2.12	1.89	9.60
1,390.0	7.64	41.66	1,388.6	31.6	21.5	38.2	2.17	2.00	6.90
1,454.0	8.41	42.04	1,452.0	38.2	27.5	47.1	1.21	1.20	0.59
1,517.0	9.74	39.72	1,514.2	45.8	34.0	57.0	2.19	2.11	-3.68
1,580.0	11.22	36.53	1,576.2	54.8	41.1	68.5	2.52	2.35	-5.06
1,643.0	12.21	37.30	1,637.9	65.0	48.7	81.3	1.59	1.57	1.22
1,707.0	13.07	36.96	1,700.3	76.2	57.2	95.3	1.35	1.34	-0.53
1,770.0	14.21	38.25	1,761.5	87.9	66.3	110.1	1.87	1.81	2.05
1,833.0	15.37	39.41	1,822.4	100.5	76.4	126.2	1.90	1.84	1.84
1,896.0	16.72	41.35	1,883.0	113.7	87.6	143.5	2.31	2.14	3.08
1,959.0	18.06	40.35	1,943.1	128.0	99.9	162.3	2.18	2.13	-1.59
2,022.0	19.64	39.48	2,002.7	143.6	113.0	182.6	2.55	2.51	-1.38
2,086.0	20.52	39.26	2,062.8	160.6	126.9	204.6	1.38	1.38	-0.34
2,149.0	21.93	40.25	2,121.6	178.1	141.5	227.4	2.31	2.24	1.57
2,212.0	22.41	41.01	2,179.9	196.1	157.0	251.1	0.89	0.76	1.21
2,276.0	22.43	40.02	2,239.1	214.7	172.9	275.4	0.59	0.03	-1.55
2,339.0	22.72	37.91	2,297.2	233.5	188.1	299.6	1.37	0.46	-3.35
2,402.0	22.94	36.75	2,355.3	252.9	202.9	324.0	0.80	0.35	-1.84
2,465.0	22.73	35.90	2,413.4	272.6	217.4	348.5	0.62	-0.33	-1.35
2,528.0	23.18	34.72	2,471.4	292.7	231.6	373.0	1.02	0.71	-1.87
2,592.0	22.60	34.06	2,530.3	313.2	245.6	397.9	0.99	-0.91	-1.03
2,655.0	22.92	33.50	2,588.4	333.5	259.2	422.3	0.61	0.51	-0.89
2,718.0	22.36	32.86	2,646.6	353.8	272.5	446.5	0.97	-0.89	-1.02
2,781.0	22.76	32.10	2,704.8	374.2	285.4	470.6	0.79	0.63	-1.21
2,845.0	22.81	31.97	2,763.8	395.2	298.6	495.3	0.11	0.08	-0.20
2,908.0	22.48	32.93	2,821.9	415.6	311.6	519.5	0.79	-0.52	1.52
2,971.0	22.41	33.01	2,880.1	435.8	324.7	543.5	0.12	-0.11	0.13
3,035.0	22.19	31.69	2,939.3	456.3	337.7	567.7	0.85	-0.34	-2.06
3,098.0	23.06	31.68	2,997.5	477.0	350.4	591.8	1.38	1.38	-0.02
3,161.0	24.17	33.34	3,055.2	498.2	364.0	617.0	2.05	1.76	2.63
3,224.0	24.00	34.37	3,112.7	519.6	378.3	642.7	0.72	-0.27	1.63
3,287.0	23.66	34.25	3,170.4	540.6	392.7	668.1	0.55	-0.54	-0.19
3,351.0	22.78	33.79	3,229.2	561.5	406.8	693.3	1.40	-1.38	-0.72
3,414.0	22.11	34.31	3,287.4	581.5	420.2	717.4	1.11	-1.06	0.83
3,477.0	21.51	35.24	3,345.9	600.7	433.6	740.8	1.10	-0.95	1.48
3,540.0	21.51	34.92	3,404.5	619.6	446.9	763.9	0.19	0.00	-0.51
3,603.0	21.03	35.17	3,463.2	638.3	460.0	786.7	0.78	-0.76	0.40

Company:	ConocoPhillips	Local Co-ordinate Reference:	Well San Juan 28-7 Unit 113N
Project:	SJB (NM Central)	TVD Reference:	GL 6577' & RKB 15' @ 6592.0usft (AWS 711)
Site:	SEC 18-T27N-R7W	MD Reference:	GL 6577' & RKB 15' @ 6592.0usft (AWS 711)
Well:	San Juan 28-7 Unit 113N	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	Farmington 5000 DB

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
3,667.0	21.92	36.27	3,522.8	657.3	473.7	810.1	1.53	1.39	1.72
3,730.0	22.54	37.86	3,581.1	676.3	488.0	834.0	1.37	0.98	2.52
3,762.0	21.88	37.92	3,610.7	685.9	495.5	846.1	2.06	-2.06	0.19
3,794.0	21.70	36.87	3,640.4	695.3	502.7	857.9	1.34	-0.56	-3.28
3,857.0	22.73	37.12	3,698.7	714.3	517.0	881.7	1.64	1.63	0.40
3,920.0	22.94	37.62	3,756.8	733.8	531.9	906.2	0.45	0.33	0.79
3,984.0	22.02	38.27	3,815.9	753.1	546.9	930.7	1.49	-1.44	1.02
4,047.0	20.91	37.42	3,874.6	771.3	561.0	953.7	1.83	-1.76	-1.35
4,111.0	20.38	36.94	3,934.5	789.2	574.7	976.3	0.87	-0.83	-0.75
4,174.0	20.63	36.81	3,993.5	806.9	587.9	998.3	0.40	0.40	-0.21
4,237.0	20.42	36.53	4,052.5	824.6	601.1	1,020.4	0.37	-0.33	-0.44
4,301.0	20.67	36.13	4,112.4	842.7	614.4	1,042.9	0.45	0.39	-0.63
4,364.0	19.96	36.36	4,171.5	860.4	627.4	1,064.8	1.13	-1.13	0.37
4,428.0	18.24	38.39	4,232.0	877.0	640.0	1,085.7	2.88	-2.69	3.17
4,491.0	16.16	40.53	4,292.1	891.4	651.9	1,104.3	3.45	-3.30	3.40
4,554.0	13.97	42.44	4,353.0	903.7	662.7	1,120.6	3.56	-3.48	3.03
4,618.0	12.29	44.16	4,415.3	914.3	672.7	1,135.0	2.69	-2.63	2.69
4,681.0	10.10	43.95	4,477.1	923.0	681.2	1,147.2	3.48	-3.48	-0.33
4,744.0	8.65	39.89	4,539.3	930.7	688.0	1,157.4	2.53	-2.30	-6.44
4,807.0	7.45	38.65	4,601.6	937.5	693.6	1,166.2	1.92	-1.90	-1.97
4,870.0	5.58	40.55	4,664.2	943.0	698.2	1,173.3	2.99	-2.97	3.02
4,934.0	4.07	38.98	4,728.0	947.1	701.6	1,178.7	2.37	-2.36	-2.45
5,005.0	2.26	38.56	4,798.9	950.2	704.1	1,182.6	2.55	-2.55	-0.59
Last SDI MWD Survey									
5,060.0	2.26	38.56	4,853.8	951.9	705.4	1,184.8	0.00	0.00	0.00

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	+E/-W (usft)	Comment
392.0	392.0	-0.6	-1.1	First SDI MWD Survey
5,005.0	4,798.9	950.2	704.1	Last SDI MWD Survey

Checked By: _____ Approved By: _____ Date: _____