

DISTRICT I
1625 N. French Dr., Hobbs, N.M. 88240
Phone: (575) 393-6161 Fax: (575) 393-0720

DISTRICT II
811 S. First St., Artesia, N.M. 88210
Phone: (575) 748-1283 Fax: (575) 748-9720

DISTRICT III
1000 Rio Brazos Rd., Aztec, N.M. 87410
Phone: (505) 334-6178 Fax: (505) 334-6170

DISTRICT IV
1220 S. St. Francis Dr., Santa Fe, N.M. 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION

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

Form C-102

Revised August 1, 2011

Submit one copy to appropriate
District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

*API Number 30-039-31145		*Pool Code 71599		*Pool Name DAKOTA	
*Property Code 31739		*Property Name SAN JUAN 28-7 UNIT			*Well Number 154F
*GRID No. 217817		*Operator Name CONOCOPHILLIPS COMPANY			*Elevation 6597

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
P	17	27 N	7 W		842	SOUTH	1205	EAST	RIO ARriba

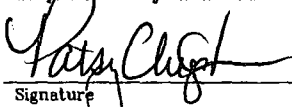
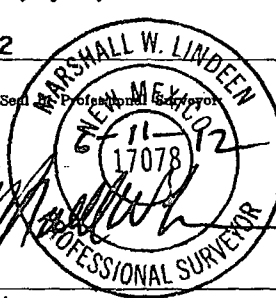
¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
O	17	27 N	7 W		1315	SOUTH	2055'	EAST	RIO ARriba

¹² Dedicated Acres 320.0 (E/2)	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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RCVD MAY 6 '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

LEGEND: ○ = SURFACE LOCATION ⊙ = BOTTOM HOLE LOCATION ⊕ = FOUND 1955 B.L.M. BRASS CAP ⊙ = POSITION DERIVED FROM WC G.N.=GRID NORTH T.N.=TRUE NORTH CONVERGENCE AT SURFACE LOCATION USA-NM 03521 SECTION 17 USA SF-078640		BEARINGS & DISTANCES SHOWN ARE REFERENCED TO THE NEW MEXICO COORDINATE SYSTEM, WEST ZONE, NAD 83, UNLESS OTHERWISE NOTED.		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.  5/2/13 Signature _____ Date _____ Printed Name Patsy L. Clugston@Conocophillips E-mail Address _____ com	
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. 05/09/12 Date of Survey Signature and Seal of Professional Surveyor  17078 Certificate Number		SURFACE LAT: 36.5679460° N LONG: 107.5935382° W NAD 83 LAT: 36°34.07623' N LONG: 107°35.57580' W NAD 27 2055' N 59°14'26" W E 972.56' 1205' 842' 1315' 2629.85' 2628.19' S 89°59'33" W S 89°58'19" W 2646.68' 2647.26' S 89°52'35" W 2736.34' 2738.82' N 1°07'23" E 2735.46' N 00°43'11" E 2735.31' N 89°59'40" W 00°08'34" N 00°43'28" E			

COP Deviation Report

RCVD MAY 6 '13
OIL CONS. DIV.

ConocoPhillips

SAN JUAN 28-7 UNIT #154F

DIST. 3

Operator CONOCOPHILLIPS COMPANY	Legal WellName SAN JUAN 28-7 UNIT #154F	API / UWI 3003931145	County RIO ARRIBA	State/Province NEW MEXICO
Surface Legal Location 017-027N-007W-P	N/S Dist (ft) 842.00	N/S Ref FSL	E/W Dist (ft) 1,205.00	E/W Ref FEL

Survey Data					
Date	MD (ftKB)	Incl (°)	Azm (°)	Method	Survey Company
3/8/2013	133.00	0.75		Inc-Drop	Mo Te Drilling Inc
3/8/2013	253.00	0.75		Inc-Drop	Mo Te Drilling Inc
3/8/2013	353.00	2.00		Inc-Drop	Mo Te Drilling Inc
3/19/2013	392.00	1.31	265.94	IncAzi-MWD	Scientific Drilling
3/19/2013	454.00	1.70	268.26	IncAzi-MWD	Scientific Drilling
3/19/2013	515.00	2.10	272.45	IncAzi-MWD	Scientific Drilling
3/19/2013	577.00	3.13	284.97	IncAzi-MWD	Scientific Drilling
3/19/2013	639.00	3.66	293.54	IncAzi-MWD	Scientific Drilling
3/19/2013	700.00	4.82	298.62	IncAzi-MWD	Scientific Drilling
3/19/2013	762.00	6.11	302.17	IncAzi-MWD	Scientific Drilling
3/19/2013	823.00	7.26	306.33	IncAzi-MWD	Scientific Drilling
3/19/2013	887.00	8.05	306.89	IncAzi-MWD	Scientific Drilling
3/19/2013	950.00	9.48	307.84	IncAzi-MWD	Scientific Drilling
3/19/2013	1,014.00	11.00	308.68	IncAzi-MWD	Scientific Drilling
3/19/2013	1,078.00	11.99	307.58	IncAzi-MWD	Scientific Drilling
3/19/2013	1,141.00	12.98	307.49	IncAzi-MWD	Scientific Drilling
3/19/2013	1,205.00	14.44	306.86	IncAzi-MWD	Scientific Drilling
3/19/2013	1,268.00	16.17	307.36	IncAzi-MWD	Scientific Drilling
3/19/2013	1,332.00	16.35	306.85	IncAzi-MWD	Scientific Drilling
3/19/2013	1,395.00	17.36	305.61	IncAzi-MWD	Scientific Drilling
3/19/2013	1,459.00	18.85	305.96	IncAzi-MWD	Scientific Drilling
3/19/2013	1,522.00	19.73	306.35	IncAzi-MWD	Scientific Drilling
3/19/2013	1,586.00	19.77	304.67	IncAzi-MWD	Scientific Drilling
3/19/2013	1,650.00	20.63	304.98	IncAzi-MWD	Scientific Drilling
3/19/2013	1,713.00	20.20	303.56	IncAzi-MWD	Scientific Drilling
3/19/2013	1,777.00	21.08	303.35	IncAzi-MWD	Scientific Drilling
3/19/2013	1,840.00	21.17	303.39	IncAzi-MWD	Scientific Drilling
3/19/2013	1,904.00	21.39	301.98	IncAzi-MWD	Scientific Drilling
3/19/2013	1,967.00	22.04	301.98	IncAzi-MWD	Scientific Drilling
3/19/2013	2,031.00	21.55	300.46	IncAzi-MWD	Scientific Drilling
3/19/2013	2,094.00	21.53	300.17	IncAzi-MWD	Scientific Drilling
3/19/2013	2,158.00	21.44	299.76	IncAzi-MWD	Scientific Drilling
3/19/2013	2,221.00	21.21	298.10	IncAzi-MWD	Scientific Drilling
3/19/2013	2,285.00	21.97	298.20	IncAzi-MWD	Scientific Drilling
3/19/2013	2,348.00	22.60	297.80	IncAzi-MWD	Scientific Drilling
3/19/2013	2,412.00	23.01	297.95	IncAzi-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.

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 #154F

Survey Data						
Date	MD (ftKB)	Incl. (°)	Azm. (°)	Method	Survey Company	
3/19/2013	2,475.00	21.75	296.64	IncAzi-MWD	Scientific Drilling	
3/19/2013	2,539.00	21.46	296.12	IncAzi-MWD	Scientific Drilling	
3/19/2013	2,602.00	20.70	295.49	IncAzi-MWD	Scientific Drilling	
3/19/2013	2,666.00	20.28	296.51	IncAzi-MWD	Scientific Drilling	
3/19/2013	2,729.00	19.98	298.17	IncAzi-MWD	Scientific Drilling	
3/19/2013	2,793.00	20.26	299.74	IncAzi-MWD	Scientific Drilling	
3/19/2013	2,856.00	20.42	300.11	IncAzi-MWD	Scientific Drilling	
3/19/2013	2,920.00	20.15	298.85	IncAzi-MWD	Scientific Drilling	
3/19/2013	2,984.00	19.86	298.35	IncAzi-MWD	Scientific Drilling	
3/19/2013	3,047.00	19.44	298.58	IncAzi-MWD	Scientific Drilling	
3/19/2013	3,111.00	18.77	298.91	IncAzi-MWD	Scientific Drilling	
3/19/2013	3,174.00	19.06	298.11	IncAzi-MWD	Scientific Drilling	
3/19/2013	3,238.00	19.80	299.46	IncAzi-MWD	Scientific Drilling	
3/19/2013	3,302.00	18.52	300.10	IncAzi-MWD	Scientific Drilling	
3/19/2013	3,365.00	16.33	297.51	IncAzi-MWD	Scientific Drilling	
3/19/2013	3,429.00	15.24	296.78	IncAzi-MWD	Scientific Drilling	
3/19/2013	3,492.00	13.87	294.48	IncAzi-MWD	Scientific Drilling	
3/19/2013	3,556.00	13.54	292.63	IncAzi-MWD	Scientific Drilling	
3/19/2013	3,619.00	11.78	291.12	IncAzi-MWD	Scientific Drilling	
3/19/2013	3,683.00	10.17	287.79	IncAzi-MWD	Scientific Drilling	
3/19/2013	3,746.00	10.04	287.51	IncAzi-MWD	Scientific Drilling	
3/19/2013	3,810.00	8.78	289.47	IncAzi-MWD	Scientific Drilling	
3/19/2013	3,873.00	7.03	288.35	IncAzi-MWD	Scientific Drilling	
3/19/2013	3,937.00	5.96	287.52	IncAzi-MWD	Scientific Drilling	
3/19/2013	4,000.00	4.65	288.07	IncAzi-MWD	Scientific Drilling	
3/19/2013	4,064.00	3.43	297.02	IncAzi-MWD	Scientific Drilling	
3/19/2013	4,127.00	2.35	301.60	IncAzi-MWD	Scientific Drilling	
3/19/2013	4,191.00	0.99	277.53	IncAzi-MWD	Scientific Drilling	
3/19/2013	4,254.00	0.87	274.29	IncAzi-MWD	Scientific Drilling	
3/19/2013	4,318.00	1.02	245.53	IncAzi-MWD	Scientific Drilling	
3/19/2013	4,381.00	1.20	260.44	IncAzi-MWD	Scientific Drilling	
3/19/2013	4,445.00	0.89	237.53	IncAzi-MWD	Scientific Drilling	
3/19/2013	4,509.00	0.74	233.76	IncAzi-MWD	Scientific Drilling	
3/19/2013	4,572.00	0.84	216.99	IncAzi-MWD	Scientific Drilling	
3/19/2013	4,636.00	0.83	205.16	IncAzi-MWD	Scientific Drilling	
3/19/2013	4,699.00	0.89	224.32	IncAzi-MWD	Scientific Drilling	
3/19/2013	4,763.00	0.97	212.08	IncAzi-MWD	Scientific Drilling	
3/19/2013	4,790.00	0.99	225.37	IncAzi-MWD	Scientific Drilling	
3/19/2013	4,848.00	0.95	215.92	IncAzi-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.

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 #154F

Survey Data						
Date	MD (ftKB)	Incl. (°)	Azm (°)	Method	Survey Company	
3/24/2013	5,350.00	1.00		Inc-Drop	Aztec Well Servicing Co Inc	
3/24/2013	6,395.00	1.00		Inc-MWD	Aztec Well Servicing Co Inc	
3/26/2013	6,943.00	1.00		Inc-MWD	Aztec Well Servicing Co Inc	
3/26/2013	7,600.00	2.00		Inc-MWD	Aztec Well Servicing Co Inc	
4/1/2013	7,665.00	3.50		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.



Subscribed and sworn to me this 5/2/13



Notary Public in and for San Juan County, New Mexico

My Commission expires 10/2/15



ConocoPhillips

SJB (NM Central)
SEC 17-T27N-R7W
San Juan 28-7 Unit 154F

OH

30-03 9-31145

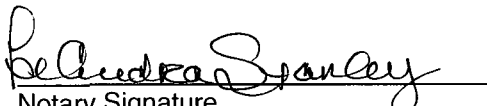
Design: OH

Standard Survey Report

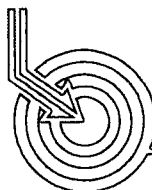
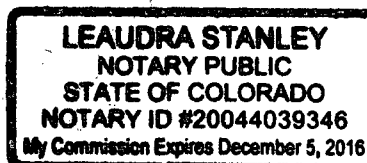
27 March, 2013

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

Notarized this date 29th of March, 2013.



Notary Signature
County of Mesa
State of Colorado



Scientific Drilling

RCVD MAY 6 '13
OIL CONS. DIV.
DIST. 3



Project: SJB (NM Central)
Site: SEC 17-T27N-R7W
Well: San Juan 28-7 Unit 154F
Wellbore: OH
Design: OH



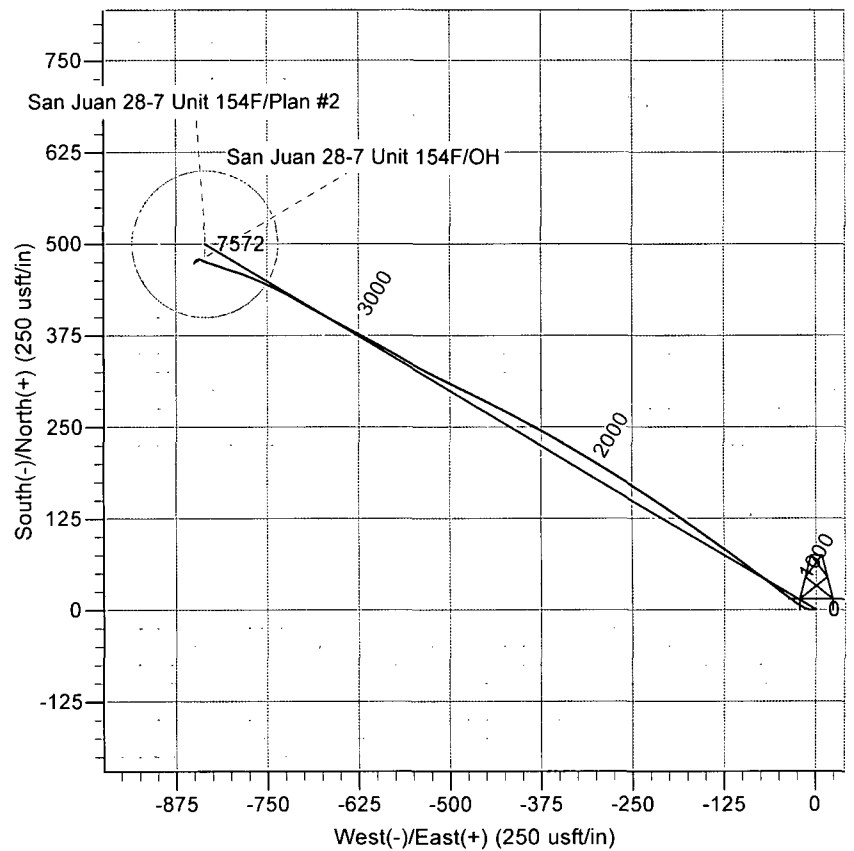
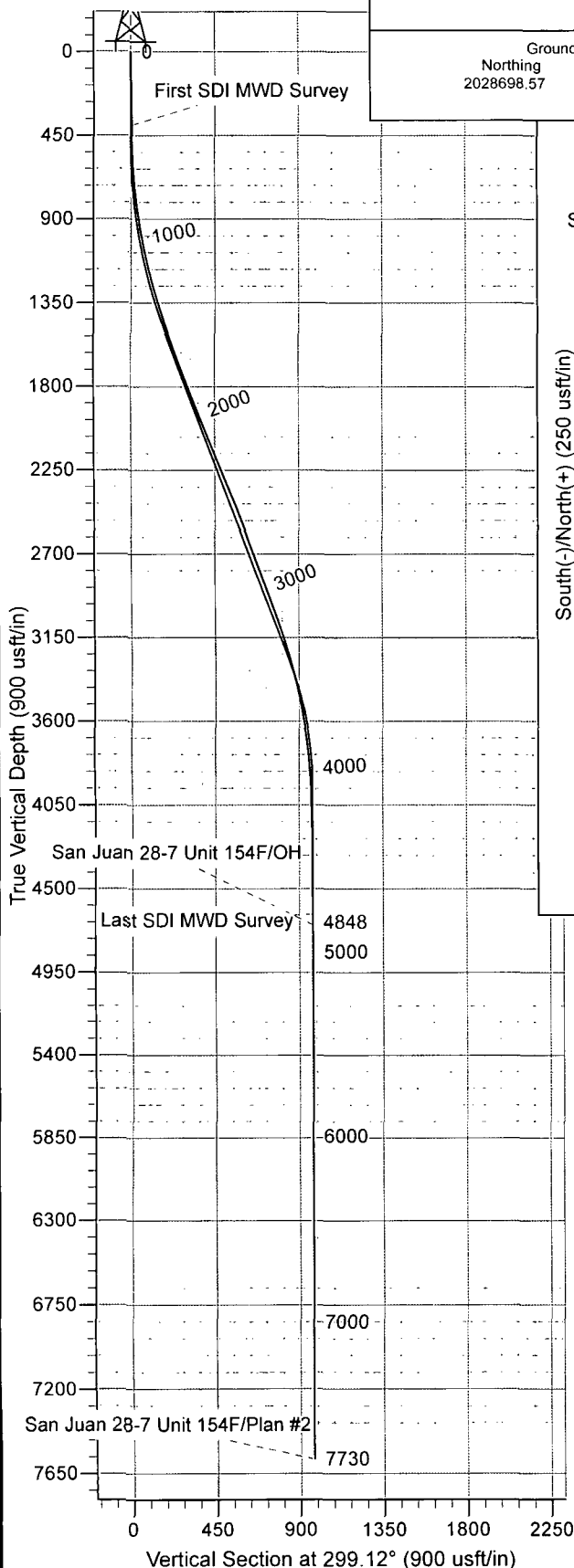
WELL DETAILS: San Juan 28-7 Unit 154F

Ground Level: GL 6597' @ RKB 15' @ 6612.0usft (AWS 920)
Northing 2028698.57 Easting 105632.40 Latitude 36° 34' 4.574 N Longitude 107° 35' 34.548 W



Azimuths to True North
Magnetic North: 9.64°

Magnetic Field
Strength: 50420.6snT
Dip Angle: 63.29°
Date: 03/13/2013
Model: BGGM2012



REFERENCE INFORMATION

Co-ordinate (N/E) Reference: Well San Juan 28-7 Unit 154F, True North
Vertical (TVD) Reference: GL 6597' @ RKB 15' @ 6612.0usft (AWS 920)
Section (VS) Reference: Slot - (0.0N, 0.0E)
Measured Depth Reference: GL 6597' @ RKB 15' @ 6612.0usft (AWS 920)
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 154F
Project:	SJB (NM Central)	TVD Reference:	GL 6597' @ RKB 15' @ 6612.0usft (AWS 920)
Site:	SEC 17-T27N-R7W	MD Reference:	GL 6597' @ RKB 15' @ 6612.0usft (AWS 920)
Well:	San Juan 28-7 Unit 154F	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 17-T27N-R7W		
Site Position:		Northing:	2,028,698.57 usft
From:	Lat/Long	Easting:	105,632.40 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	36° 34' 4.574 N
		Longitude:	107° 35' 34.548 W
		Grid Convergence:	-0.80 °

Well	San Juan 28-7 Unit 154F					
Well Position	+N/-S	0.0 usft	Northing:	2,028,698.57 usft	Latitude:	36° 34' 4.574 N
	+E/-W	0.0 usft	Easting:	105,632.40 usft	Longitude:	107° 35' 34.548 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	usft	Ground Level:	6,597.0 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2012	03/13/13	9.64	63.29	50,421

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	299.12	

Survey Program	Date	03/27/13		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
392.0	4,848.0	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	1.31	265.94	392.0	-0.3	-4.5	3.8	0.33	0.33	0.00
First SDI MWD Survey									
454.0	1.70	268.26	453.9	-0.4	-6.1	5.1	0.64	0.63	3.74
515.0	2.10	272.45	514.9	-0.4	-8.1	6.9	0.69	0.66	6.87
577.0	3.13	284.97	576.8	0.1	-10.9	9.6	1.89	1.66	20.19
639.0	3.66	293.54	638.7	1.3	-14.3	13.2	1.18	0.85	13.82
700.0	4.82	298.62	699.6	3.3	-18.4	17.7	2.00	1.90	8.33
762.0	6.11	302.17	761.3	6.3	-23.5	23.6	2.15	2.08	5.73
823.0	7.26	306.33	821.9	10.4	-29.3	30.6	2.04	1.89	6.82
887.0	8.05	306.89	885.3	15.4	-36.1	39.1	1.24	1.23	0.88

Company:	ConocoPhillips	Local Co-ordinate Reference:	Well San Juan 28-7 Unit 154F
Project:	SJB (NM Central)	TVD Reference:	GL 6597' @ RKB 15' @ 6612.0usft (AWS 920)
Site:	SEC 17-T27N-R7W	MD Reference:	GL 6597' @ RKB 15' @ 6612.0usft (AWS 920)
Well:	San Juan 28-7 Unit 154F	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)
950.0	9.48	307.84	947.6	21.3	-43.8	48.6	2.28	2.27	1.51
1,014.0	11.00	308.68	1,010.5	28.3	-52.7	59.8	2.39	2.38	1.31
1,078.0	11.99	307.58	1,073.3	36.2	-62.7	72.4	1.58	1.55	-1.72
1,141.0	12.98	307.49	1,134.8	44.5	-73.5	85.9	1.57	1.57	-0.14
1,205.0	14.44	306.86	1,196.9	53.7	-85.6	100.9	2.29	2.28	-0.98
1,268.0	16.17	307.36	1,257.7	63.7	-98.9	117.4	2.75	2.75	0.79
1,332.0	16.35	306.85	1,319.1	74.5	-113.2	135.1	0.36	0.28	-0.80
1,395.0	17.36	305.61	1,379.4	85.3	-127.9	153.3	1.70	1.60	-1.97
1,459.0	18.85	305.96	1,440.3	96.9	-144.0	173.0	2.33	2.33	0.55
1,522.0	19.73	306.35	1,499.7	109.2	-160.8	193.7	1.41	1.40	0.62
1,586.0	19.77	304.67	1,560.0	121.8	-178.5	215.2	0.89	0.06	-2.63
1,650.0	20.63	304.98	1,620.0	134.4	-196.6	237.1	1.35	1.34	0.48
1,713.0	20.20	303.56	1,679.1	146.8	-214.7	259.0	1.04	-0.68	-2.25
1,777.0	21.08	303.35	1,739.0	159.2	-233.6	281.5	1.38	1.38	-0.33
1,840.0	21.17	303.39	1,797.7	171.7	-252.5	304.2	0.14	0.14	0.06
1,904.0	21.39	301.98	1,857.4	184.2	-272.1	327.3	0.87	0.34	-2.20
1,967.0	22.04	301.98	1,915.9	196.6	-291.9	350.6	1.03	1.03	0.00
2,031.0	21.55	300.46	1,975.3	208.9	-312.2	374.4	1.17	-0.77	-2.38
2,094.0	21.53	300.17	2,033.9	220.6	-332.1	397.5	0.17	-0.03	-0.46
2,158.0	21.44	299.76	2,093.5	232.3	-352.4	420.9	0.27	-0.14	-0.64
2,221.0	21.21	298.10	2,152.2	243.4	-372.5	443.8	1.03	-0.37	-2.63
2,285.0	21.97	298.20	2,211.7	254.5	-393.3	467.4	1.19	1.19	0.16
2,348.0	22.60	297.80	2,270.0	265.7	-414.4	491.3	1.03	1.00	-0.63
2,412.0	23.01	297.95	2,329.0	277.3	-436.3	516.1	0.65	0.64	0.23
2,475.0	21.75	296.64	2,387.2	288.3	-457.6	540.0	2.15	-2.00	-2.08
2,539.0	21.46	296.12	2,446.7	298.8	-478.7	563.6	0.54	-0.45	-0.81
2,602.0	20.70	295.49	2,505.5	308.6	-499.1	586.2	1.26	-1.21	-1.00
2,666.0	20.28	296.51	2,565.4	318.4	-519.2	608.6	0.86	-0.66	1.59
2,729.0	19.98	298.17	2,624.6	328.4	-538.5	630.2	1.02	-0.48	2.63
2,793.0	20.26	299.74	2,684.7	339.1	-557.8	652.3	0.95	0.44	2.45
2,856.0	20.42	300.11	2,743.8	350.0	-576.7	674.1	0.33	0.25	0.59
2,920.0	20.15	298.85	2,803.8	360.9	-596.0	696.3	0.80	-0.42	-1.97
2,984.0	19.86	298.35	2,863.9	371.4	-615.3	718.2	0.53	-0.45	-0.78
3,047.0	19.44	298.58	2,923.3	381.5	-633.9	739.4	0.68	-0.67	0.37
3,111.0	18.77	298.91	2,983.7	391.5	-652.3	760.4	1.06	-1.05	0.52
3,174.0	19.06	298.11	3,043.3	401.3	-670.2	780.8	0.62	0.46	-1.27
3,238.0	19.80	299.46	3,103.7	411.6	-688.9	802.1	1.35	1.16	2.11
3,302.0	18.52	300.10	3,164.1	422.0	-707.1	823.1	2.03	-2.00	1.00
3,365.0	16.33	297.51	3,224.3	431.1	-723.6	841.9	3.69	-3.48	-4.11
3,429.0	15.24	296.78	3,285.8	439.0	-739.1	859.3	1.73	-1.70	-1.14
3,492.0	13.87	294.48	3,346.8	445.9	-753.4	875.1	2.36	-2.17	-3.65
3,556.0	13.54	292.63	3,409.0	452.0	-767.3	890.2	0.86	-0.52	-2.89
3,619.0	11.78	291.12	3,470.5	457.1	-780.1	903.9	2.84	-2.79	-2.40

Company:	ConocoPhillips	Local Co-ordinate Reference:	Well San Juan 28-7 Unit 154F
Project:	SJB (NM Central)	TVD Reference:	GL 6597' @ RKB 15' @ 6612.0usft (AWS 920)
Site:	SEC 17-T27N-R7W	MD Reference:	GL 6597' @ RKB 15' @ 6612.0usft (AWS 920)
Well:	San Juan 28-7 Unit 154F	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)	
3,683.0	10.17	287.79	3,533.3	461.2	-791.5	915.9	2.70	-2.52	-5.20	
3,746.0	10.04	287.51	3,595.3	464.5	-802.1	926.8	0.22	-0.21	-0.44	
3,810.0	8.78	289.47	3,658.4	467.9	-812.0	937.0	2.03	-1.97	3.06	
3,873.0	7.03	288.35	3,720.8	470.7	-820.2	945.6	2.79	-2.78	-1.78	
3,937.0	5.96	287.52	3,784.4	472.9	-827.1	952.7	1.68	-1.67	-1.30	
4,000.0	4.65	288.07	3,847.2	474.7	-832.6	958.4	2.08	-2.08	0.87	
4,064.0	3.43	297.02	3,911.0	476.4	-836.8	962.8	2.14	-1.91	13.98	
4,127.0	2.35	301.60	3,973.9	477.9	-839.6	966.0	1.75	-1.71	7.27	
4,191.0	0.99	277.53	4,037.9	478.6	-841.2	967.8	2.35	-2.13	-37.61	
4,254.0	0.87	274.29	4,100.9	478.8	-842.3	968.8	0.21	-0.19	-5.14	
4,318.0	1.02	245.53	4,164.9	478.6	-843.3	969.6	0.77	0.23	-44.94	
4,381.0	1.24	260.44	4,227.9	478.2	-844.4	970.4	0.58	0.35	23.67	
4,445.0	0.89	237.53	4,291.9	477.8	-845.5	971.2	0.85	-0.55	-35.80	
4,509.0	0.74	233.76	4,355.8	477.3	-846.3	971.6	0.25	-0.23	-5.89	
4,572.0	0.84	216.99	4,418.8	476.7	-846.9	971.8	0.40	0.16	-26.62	
4,636.0	0.83	205.16	4,482.8	475.9	-847.4	971.9	0.27	-0.02	-18.48	
4,699.0	0.89	224.32	4,545.8	475.1	-847.9	972.0	0.46	0.10	30.41	
4,763.0	0.97	212.08	4,609.8	474.3	-848.6	972.1	0.33	0.13	-19.13	
4,790.0	0.99	225.37	4,636.8	474.0	-848.8	972.2	0.84	0.07	49.20	
Last SDI MWD Survey										
4,848.0	0.95	215.92	4,694.8	473.2	-849.5	972.4	0.28	-0.07	-16.30	

Design Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
392.0	392.0	-0.3	-4.5	First SDI MWD Survey
4,790.0	4,636.8	474.0	-848.8	Last SDI MWD Survey

Checked By: _____	Approved By: _____	Date: _____
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