

DISTRICT I
1625 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 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

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

☐ AMENDED REPORT

AS DRILLED PLAT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-039-30759	² Pool Code 72319/71599	³ Pool Name BLANCO MESAVERDE / BASIN DAKOTA
⁴ Property Code 31739	⁵ Property Name SAN JUAN 28-7 UNIT	⁶ Well Number 98 N
⁷ GRID No. 217817	⁸ Operator Name CONOCOPHILLIPS COMPANY	⁹ Elevation 6594'

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
F	29	27N	7W		2428'	NORTH	2062'	WEST	RIO ARRIBA

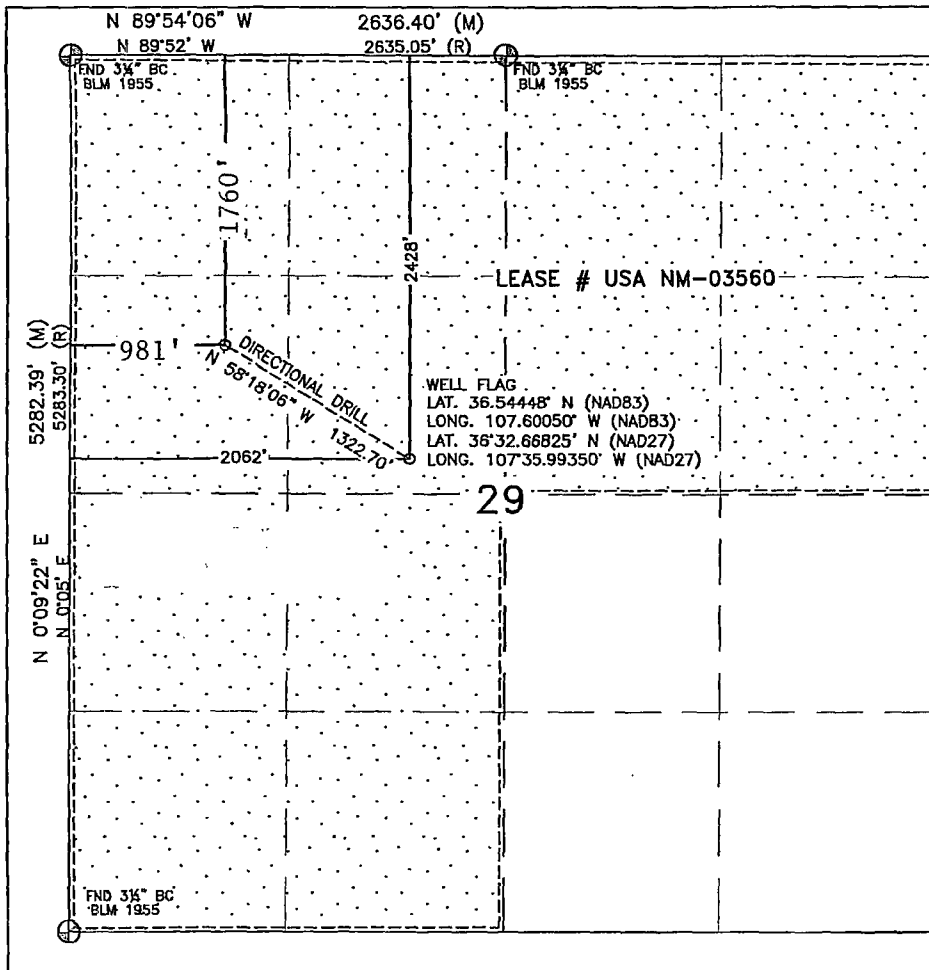
¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
E	29	27N	7W		1760'	NORTH	981'	WEST	RIO ARRIBA

¹² Dedicated Acres DK-320.00 ACRES (N/2) MV-320.00 ACRES (W/2)	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No. RCVD JUL 15 '13 OIL CONS. DIV.
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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

18



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 or a compulsory pooling order heretofore entered by the division.

Patsy Clugston 7/11/13
Signature Date

Patsy Clugston

Printed Name

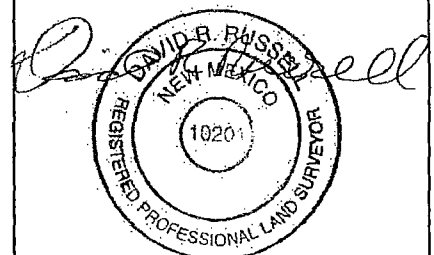
18 SURVEYOR CERTIFICATION

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.

JANUARY 12, 2009

Date of Survey

Signature and Seal of Professional Surveyor:



DAVID RUSSELL

Certificate Number

10201

AV

TS



COP Deviation Report
SAN JUAN 28-7 UNIT #98N

RCVD JUL 15 '13
OIL CONS. DIV.
DIST. 3

Operator CONOCOPHILLIPS COMPANY	Legal WellName SAN JUAN 28-7 UNIT #98N	API / UWI 3003930759	County RIO ARRIBA	State/Province NEW MEXICO
Surface Legal Location 029-027N-007W-F	N/S Dist (ft) 2,428.00	N/S Ref FNL	E/W Dist (ft) 2,062.00	E/W Ref FWL

Survey Data					
Date	MD (ftKB)	Incl (°)	Azm (°)	Method	Survey Company
2/28/2013	133.00	0.75		Inc-Drop	Mo Te Drilling Inc
2/28/2013	234.00	0.75		Inc-Drop	Mo Te Drilling Inc
3/10/2013	299.00	0.20	61.09	IncAzi-MWD	Scientific Drilling
3/10/2013	330.00	0.18	270.05	IncAzi-MWD	Scientific Drilling
3/10/2013	361.00	0.87	305.11	IncAzi-MWD	Scientific Drilling
3/10/2013	392.00	1.85	304.61	IncAzi-MWD	Scientific Drilling
3/10/2013	423.00	2.33	307.67	IncAzi-MWD	Scientific Drilling
3/10/2013	455.00	3.17	305.44	IncAzi-MWD	Scientific Drilling
3/10/2013	486.00	3.79	304.90	IncAzi-MWD	Scientific Drilling
3/10/2013	517.00	4.62	303.28	IncAzi-MWD	Scientific Drilling
3/10/2013	549.00	5.29	303.36	IncAzi-MWD	Scientific Drilling
3/10/2013	580.00	5.94	304.77	IncAzi-MWD	Scientific Drilling
3/10/2013	610.00	6.75	304.98	IncAzi-MWD	Scientific Drilling
3/10/2013	641.00	7.48	303.13	IncAzi-MWD	Scientific Drilling
3/10/2013	672.00	8.32	301.22	IncAzi-MWD	Scientific Drilling
3/10/2013	702.00	8.83	299.46	IncAzi-MWD	Scientific Drilling
3/10/2013	733.00	9.59	299.85	IncAzi-MWD	Scientific Drilling
3/10/2013	764.00	10.44	300.44	IncAzi-MWD	Scientific Drilling
3/10/2013	795.00	11.43	300.33	IncAzi-MWD	Scientific Drilling
3/10/2013	826.00	12.28	300.30	IncAzi-MWD	Scientific Drilling
3/10/2013	889.00	14.38	299.56	IncAzi-MWD	Scientific Drilling
3/10/2013	953.00	16.21	300.78	IncAzi-MWD	Scientific Drilling
3/10/2013	1,017.00	17.57	303.52	IncAzi-MWD	Scientific Drilling
3/10/2013	1,080.00	19.10	305.59	IncAzi-MWD	Scientific Drilling
3/10/2013	1,143.00	20.07	306.63	IncAzi-MWD	Scientific Drilling
3/10/2013	1,207.00	21.92	306.26	IncAzi-MWD	Scientific Drilling
3/10/2013	1,271.00	23.48	307.44	IncAzi-MWD	Scientific Drilling
3/10/2013	1,334.00	23.22	306.82	IncAzi-MWD	Scientific Drilling
3/10/2013	1,398.00	23.28	306.33	IncAzi-MWD	Scientific Drilling
3/10/2013	1,462.00	23.19	305.29	IncAzi-MWD	Scientific Drilling
3/10/2013	1,525.00	23.11	304.24	IncAzi-MWD	Scientific Drilling
3/10/2013	1,589.00	23.09	303.80	IncAzi-MWD	Scientific Drilling
3/10/2013	1,652.00	23.79	302.51	IncAzi-MWD	Scientific Drilling
3/10/2013	1,716.00	23.55	301.50	IncAzi-MWD	Scientific Drilling
3/10/2013	1,779.00	23.60	301.16	IncAzi-MWD	Scientific Drilling
3/10/2013	1,843.00	23.37	300.94	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 #98N

Survey Data

Date	MD (ftKB)	Incl (°)	Azm (°)	Method	Survey Company
3/10/2013	1,906.00	23.42	300.59	IncAzi-MWD	Scientific Drilling
3/10/2013	1,970.00	23.51	300.69	IncAzi-MWD	Scientific Drilling
3/10/2013	2,034.00	23.84	300.32	IncAzi-MWD	Scientific Drilling
3/10/2013	2,097.00	23.81	300.29	IncAzi-MWD	Scientific Drilling
3/10/2013	2,161.00	23.91	299.90	IncAzi-MWD	Scientific Drilling
3/10/2013	2,224.00	24.67	298.99	IncAzi-MWD	Scientific Drilling
3/10/2013	2,288.00	25.08	298.56	IncAzi-MWD	Scientific Drilling
3/10/2013	2,351.00	25.50	298.63	IncAzi-MWD	Scientific Drilling
3/10/2013	2,415.00	25.09	298.70	IncAzi-MWD	Scientific Drilling
3/10/2013	2,478.00	24.74	296.78	IncAzi-MWD	Scientific Drilling
3/10/2013	2,542.00	23.78	295.52	IncAzi-MWD	Scientific Drilling
3/10/2013	2,605.00	23.50	294.94	IncAzi-MWD	Scientific Drilling
3/10/2013	2,669.00	22.29	292.55	IncAzi-MWD	Scientific Drilling
3/10/2013	2,732.00	21.52	291.64	IncAzi-MWD	Scientific Drilling
3/10/2013	2,796.00	19.95	290.65	IncAzi-MWD	Scientific Drilling
3/10/2013	2,859.00	18.13	291.42	IncAzi-MWD	Scientific Drilling
3/11/2013	2,923.00	16.96	291.17	IncAzi-MWD	Scientific Drilling
3/11/2013	2,986.00	15.90	293.71	IncAzi-MWD	Scientific Drilling
3/11/2013	3,050.00	14.95	296.15	IncAzi-MWD	Scientific Drilling
3/11/2013	3,114.00	15.57	298.38	IncAzi-MWD	Scientific Drilling
3/11/2013	3,177.00	15.83	298.45	IncAzi-MWD	Scientific Drilling
3/11/2013	3,241.00	14.80	298.63	IncAzi-MWD	Scientific Drilling
3/11/2013	3,305.00	14.93	301.61	IncAzi-MWD	Scientific Drilling
3/11/2013	3,368.00	14.25	305.70	IncAzi-MWD	Scientific Drilling
3/11/2013	3,432.00	14.23	306.02	IncAzi-MWD	Scientific Drilling
3/11/2013	3,495.00	14.61	304.95	IncAzi-MWD	Scientific Drilling
3/11/2013	3,559.00	13.74	302.96	IncAzi-MWD	Scientific Drilling
3/11/2013	3,622.00	12.23	303.65	IncAzi-MWD	Scientific Drilling
3/11/2013	3,686.00	13.03	305.55	IncAzi-MWD	Scientific Drilling
3/11/2013	3,749.00	13.45	308.11	IncAzi-MWD	Scientific Drilling
3/11/2013	3,813.00	14.63	309.08	IncAzi-MWD	Scientific Drilling
3/11/2013	3,876.00	15.19	307.94	IncAzi-MWD	Scientific Drilling
3/11/2013	3,940.00	15.39	307.19	IncAzi-MWD	Scientific Drilling
3/11/2013	4,003.00	16.22	308.15	IncAzi-MWD	Scientific Drilling
3/11/2013	4,067.00	17.45	307.05	IncAzi-MWD	Scientific Drilling
3/11/2013	4,130.00	16.95	306.56	IncAzi-MWD	Scientific Drilling
3/11/2013	4,193.00	15.68	306.43	IncAzi-MWD	Scientific Drilling
3/11/2013	4,257.00	13.86	307.02	IncAzi-MWD	Scientific Drilling
3/11/2013	4,320.00	12.83	306.69	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 #98N

Survey Data

Date	MD (ftKB)	Incl (°)	Azm (°)	Method	Survey Company
3/11/2013	4,384.00	11.63	306.78	IncAzi-MWD	Scientific Drilling
3/11/2013	4,447.00	10.04	305.67	IncAzi-MWD	Scientific Drilling
3/11/2013	4,511.00	8.64	305.08	IncAzi-MWD	Scientific Drilling
3/11/2013	4,575.00	7.15	307.02	IncAzi-MWD	Scientific Drilling
3/11/2013	4,638.00	6.50	309.49	IncAzi-MWD	Scientific Drilling
3/12/2013	4,702.00	5.57	306.07	IncAzi-MWD	Scientific Drilling
3/12/2013	4,765.00	4.62	305.50	IncAzi-MWD	Scientific Drilling
3/12/2013	4,829.00	4.23	303.80	IncAzi-MWD	Scientific Drilling
3/12/2013	4,892.00	3.46	299.62	IncAzi-MWD	Scientific Drilling
3/12/2013	4,928.00	3.09	288.41	IncAzi-MWD	Scientific Drilling
3/12/2013	4,988.00	2.73	286.85	IncAzi-MWD	Scientific Drilling
3/15/2013	5,230.00	2.00		Inc-MWD	Aztec Well Servicing Co Inc
3/15/2013	5,480.00	2.00		Inc-MWD	Aztec Well Servicing Co Inc
3/15/2013	5,730.00	3.00		Inc-MWD	Aztec Well Servicing Co Inc
3/15/2013	5,980.00	2.00		Inc-MWD	Aztec Well Servicing Co Inc
3/16/2013	6,217.00	3.00		Inc-MWD	Aztec Well Servicing Co Inc
3/16/2013	6,405.00	2.00		Inc-MWD	Aztec Well Servicing Co Inc
3/16/2013	6,655.00	2.00		Inc-MWD	Aztec Well Servicing Co Inc
3/16/2013	6,905.00	2.00		Inc-MWD	Aztec Well Servicing Co Inc
3/16/2013	7,210.00	1.00		Inc-MWD	Aztec Well Servicing Co Inc
3/16/2013	7,500.00	2.00		Inc-MWD	Aztec Well Servicing Co Inc
3/16/2013	7,636.00	2.00		Inc-MWD	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.

Gina Bertoglio

Subscribed and sworn to me this March 21, 2013

Aileen White

Notary Public in and for San Juan County, New Mexico

My Commission expires 5/26/2013



RCVD JUL 15 13
OIL CONS. DIV.
DIST. 3

ConocoPhillips

SJB (NM Central)
SEC 29-T27N-R7W
San Juan 28-7 Unit #98N

30-039 - 30759

OH

Design: OH

Standard Survey Report

18 March, 2013

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

Notarized this date 18th of March, 2013.

Leandra Stanley

Notary Signature
County of Mesa
State of Colorado

LEAUDRA STANLEY
NOTARY PUBLIC
STATE OF COLORADO
NOTARY ID #20044039346
My Commission Expires December 5, 2016



Scientific Drilling



Project: SJB (NM Central)
Site: SEC 29-T27N-R7W
Well: SJ 28-7 Unit #98N
Wellbore: OH
Design: OH

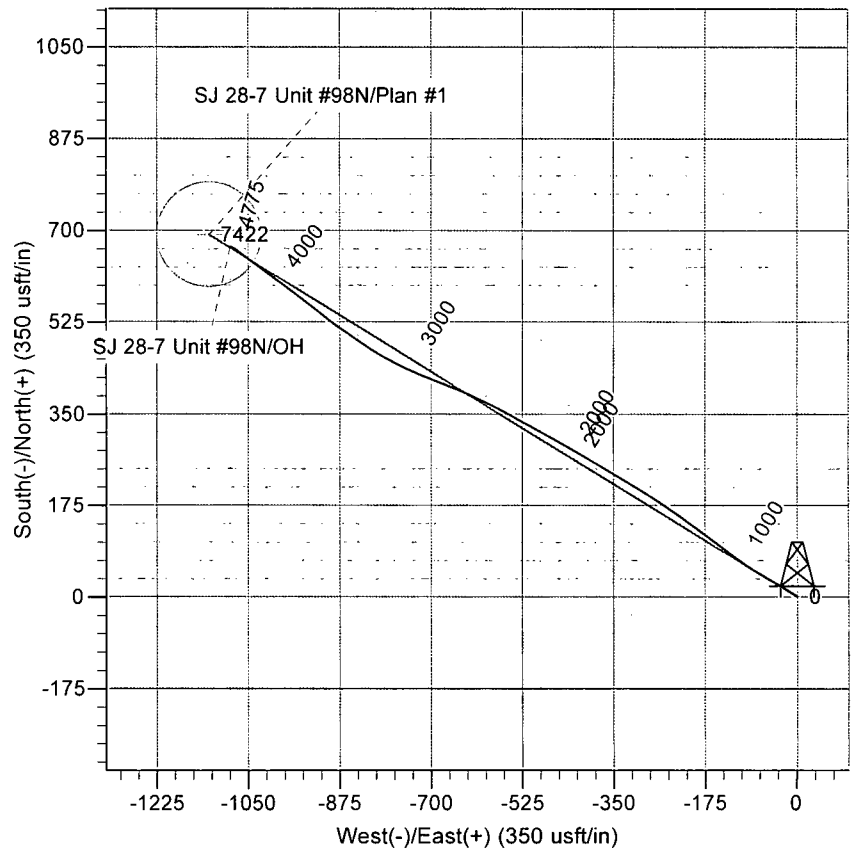
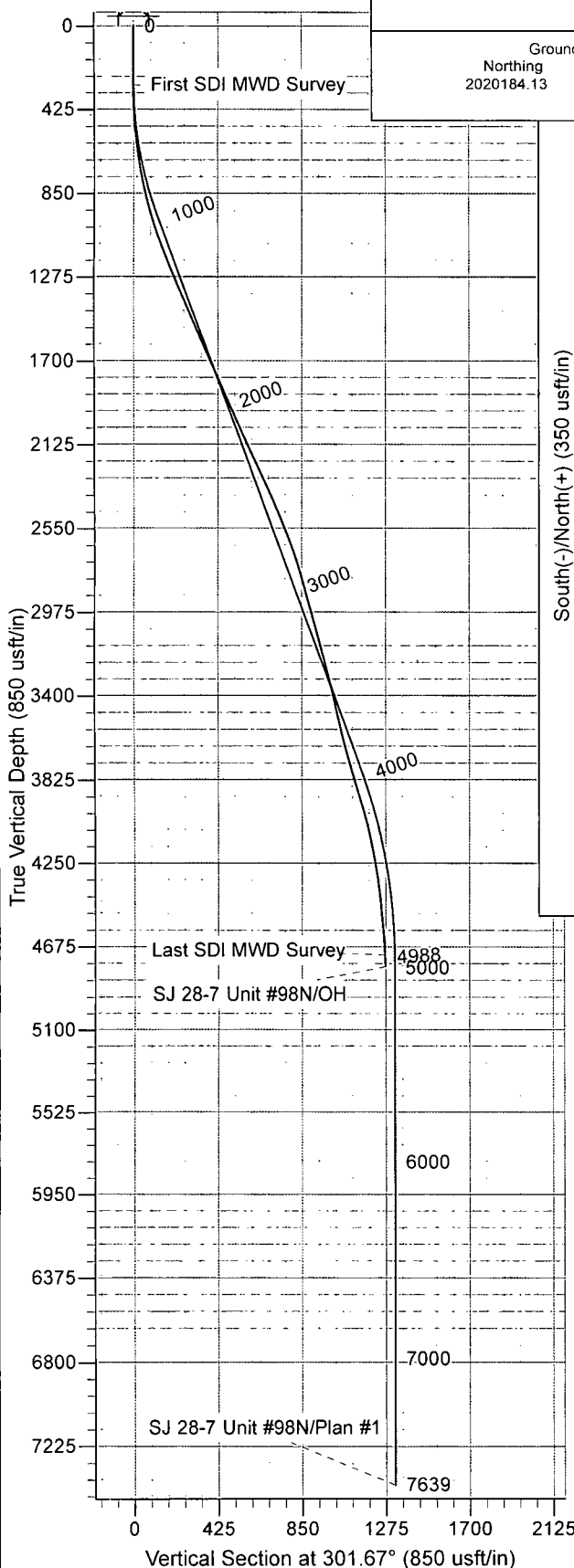


Azimuths to True North
Magnetic North: 9.64°

Magnetic Field
Strength: 50416.1snT
Dip Angle: 63.27°
Date: 02/14/2013
Model: BGGM2012

WELL DETAILS: SJ 28-7 Unit #98N

Ground Level: GL 6594' & RKB 15' @ 6609.0usft (Aztec 920)
Northing 2020184.13 Easting 103468.01 Latitude 36° 32' 40.095 N Longitude 107° 35' 59.610 W



REFERENCE INFORMATION

Co-ordinate (N/E) Reference: Well SJ 28-7 Unit #98N, True North
Vertical (TVD) Reference: GL 6594' & RKB 15' @ 6609.0usft (Aztec 920)
Section (VS) Reference: Slot - (0.0N, 0.0E)
Measured Depth Reference: GL 6594' & RKB 15' @ 6609.0usft (Aztec 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 SJ 28-7 Unit #98N
Project:	SJB (NM Central)	TVD Reference:	GL 6594' & RKB 15' @ 6609.0usft (Aztec 920)
Site:	SEC 29-T27N-R7W	MD Reference:	GL 6594' & RKB 15' @ 6609.0usft (Aztec 920)
Well:	SJ 28-7 Unit #98N	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 29-T27N-R7W		
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Site Position:		Northing:	2,020,705.98 usft	Latitude:	36° 32' 45.454 N
From:	Lat/Long	Easting:	104,907.00 usft	Longitude:	107° 35' 42.069 W
Position Uncertainty:	0.0 usft	Slot Radius:	6-1/8 "	Grid Convergence:	-0.80 °

Well	SJ 28-7 Unit #98N, 2428' FNL & 2062' FWL					
Well Position	+N/-S	0.0 usft	Northing:	2,020,184.13 usft	Latitude:	36° 32' 40.095 N
	+E/-W	0.0 usft	Easting:	103,468.01 usft	Longitude:	107° 35' 59.610 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	usft	Ground Level:	6,594.0 usft

Wellbore	OH				
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Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2012	02/14/13	9.64	63.27	50,416

Design	OH				
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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	301.67

Survey Program	Date	03/18/13		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
299.0	4,988.0	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
299.0	0.20	61.09	299.0	0.3	0.5	-0.3	0.07	0.07	0.00
First SDI MWD Survey									
330.0	0.18	270.05	330.0	0.3	0.5	-0.2	1.19	-0.06	-487.24
361.0	0.87	305.11	361.0	0.4	0.2	0.0	2.35	2.23	113.10
392.0	1.85	304.61	392.0	0.8	-0.4	0.8	3.16	3.16	-1.61
423.0	2.33	307.67	423.0	1.5	-1.3	1.9	1.59	1.55	9.87
455.0	3.17	305.44	454.9	2.4	-2.5	3.4	2.65	2.63	-6.97
486.0	3.79	304.90	485.9	3.5	-4.1	5.3	2.00	2.00	-1.74
517.0	4.62	303.28	516.8	4.8	-6.0	7.6	2.70	2.68	-5.23
549.0	5.29	303.36	548.7	6.3	-8.3	10.3	2.09	2.09	0.25



Company:	ConocoPhillips	Local Co-ordinate Reference:	Well SJ 28-7 Unit #98N
Project:	SJB (NM Central)	TVD Reference:	GL 6594' & RKB 15' @ 6609.0usft (Aztec 920)
Site:	SEC 29-T27N-R7W	MD Reference:	GL 6594' & RKB 15' @ 6609.0usft (Aztec 920)
Well:	SJ 28-7 Unit #98N	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)
580.0	5.94	304.77	579.5	8.0	-10.8	13.4	2.14	2.10	4.55
610.0	6.75	304.98	609.3	9.9	-13.5	16.7	2.70	2.70	0.70
641.0	7.48	303.13	640.1	12.0	-16.7	20.5	2.47	2.35	-5.97
672.0	8.32	301.22	670.8	14.3	-20.3	24.8	2.84	2.71	-6.16
702.0	8.83	299.46	700.5	16.6	-24.2	29.2	1.91	1.70	-5.87
733.0	9.59	299.85	731.1	19.0	-28.5	34.2	2.46	2.45	1.26
764.0	10.44	300.44	761.6	21.7	-33.1	39.6	2.76	2.74	1.90
795.0	11.43	300.33	792.0	24.7	-38.2	45.5	3.19	3.19	-0.35
826.0	12.28	300.37	822.4	27.9	-43.7	51.8	2.74	2.74	0.13
889.0	14.38	299.56	883.7	35.2	-56.3	66.4	3.35	3.33	-1.29
953.0	16.21	300.78	945.4	43.6	-70.9	83.2	2.90	2.86	1.91
1,017.0	17.57	303.52	1,006.6	53.6	-86.6	101.8	2.46	2.13	4.28
1,080.0	19.10	305.59	1,066.4	64.8	-102.9	121.6	2.64	2.43	3.29
1,143.0	20.07	306.63	1,125.8	77.3	-120.0	142.7	1.64	1.54	1.65
1,207.0	21.92	306.26	1,185.5	90.9	-138.4	165.5	2.90	2.89	-0.58
1,271.0	23.48	307.44	1,244.6	105.7	-158.2	190.1	2.54	2.44	1.84
1,334.0	23.22	306.82	1,302.4	120.8	-178.1	215.0	0.57	-0.41	-0.98
1,398.0	23.28	306.33	1,361.2	135.8	-198.4	240.1	0.32	0.09	-0.77
1,462.0	23.19	305.29	1,420.0	150.6	-218.8	265.3	0.66	-0.14	-1.63
1,525.0	23.11	304.24	1,478.0	164.7	-239.2	290.0	0.67	-0.13	-1.67
1,589.0	23.09	303.80	1,536.8	178.8	-260.0	315.1	0.27	-0.03	-0.69
1,652.0	23.79	302.51	1,594.6	192.5	-281.0	340.2	1.38	1.11	-2.05
1,716.0	23.55	301.50	1,653.2	206.1	-302.8	365.9	0.74	-0.38	-1.58
1,779.0	23.60	301.16	1,711.0	219.2	-324.3	391.1	0.23	0.08	-0.54
1,843.0	23.37	300.94	1,769.7	232.3	-346.1	416.6	0.38	-0.36	-0.34
1,906.0	23.42	300.59	1,827.5	245.1	-367.6	441.6	0.23	0.08	-0.56
1,970.0	23.51	300.69	1,886.2	258.1	-389.6	467.1	0.15	0.14	0.16
2,034.0	23.84	300.32	1,944.8	271.2	-411.7	492.8	0.57	0.52	-0.58
2,097.0	23.81	300.29	2,002.5	284.0	-433.7	518.2	0.05	-0.05	-0.05
2,161.0	23.91	299.90	2,061.0	297.0	-456.1	544.1	0.29	0.16	-0.61
2,224.0	24.67	298.99	2,118.4	309.7	-478.6	570.0	1.34	1.21	-1.44
2,288.0	25.08	298.56	2,176.5	322.7	-502.2	596.9	0.70	0.64	-0.67
2,351.0	25.50	298.63	2,233.4	335.6	-525.9	623.7	0.67	0.67	0.11
2,415.0	25.09	298.70	2,291.3	348.7	-549.9	651.0	0.64	-0.64	0.11
2,478.0	24.74	296.78	2,348.4	361.0	-573.3	677.5	1.40	-0.56	-3.05
2,542.0	23.78	295.52	2,406.8	372.6	-596.9	703.7	1.70	-1.50	-1.97
2,605.0	23.50	294.94	2,464.5	383.4	-619.8	728.8	0.58	-0.44	-0.92
2,669.0	22.29	292.55	2,523.5	393.4	-642.6	753.5	2.38	-1.89	-3.73
2,732.0	21.52	291.64	2,581.9	402.3	-664.4	776.6	1.34	-1.22	-1.44
2,796.0	19.95	290.65	2,641.8	410.5	-685.5	798.9	2.51	-2.45	-1.55
2,859.0	18.13	291.42	2,701.3	417.8	-704.7	819.1	2.92	-2.89	1.22
2,923.0	16.96	292.17	2,762.3	425.0	-722.6	838.1	1.86	-1.83	1.17
2,986.0	15.90	293.71	2,822.8	431.9	-739.0	855.7	1.82	-1.68	2.44

Company:	ConocoPhillips	Local Co-ordinate Reference:	Well SJ 28-7 Unit #98N
Project:	SJB (NM Central)	TVD Reference:	GL 6594' & RKB 15' @ 6609.0usft (Aztec 920)
Site:	SEC 29-T27N-R7W	MD Reference:	GL 6594' & RKB 15' @ 6609.0usft (Aztec 920)
Well:	SJ 28-7 Unit #98N	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)	
3,050.0	14.95	296.15	2,884.5	439.1	-754.4	872.6	1.80	-1.48	3.81	
3,114.0	15.57	298.38	2,946.2	446.8	-769.4	889.4	1.33	0.97	3.48	
3,177.0	15.83	298.45	3,006.8	454.9	-784.4	906.4	0.41	0.41	0.11	
3,241.0	14.80	298.63	3,068.6	463.0	-799.2	923.3	1.61	-1.61	0.28	
3,305.0	14.93	301.61	3,130.4	471.2	-813.4	939.7	1.21	0.20	4.66	
3,368.0	14.25	305.70	3,191.4	480.0	-826.6	955.6	1.96	-1.08	6.49	
3,432.0	14.23	306.02	3,253.4	489.2	-839.4	971.3	0.13	-0.03	0.50	
3,495.0	14.61	304.95	3,314.5	498.3	-852.2	986.9	0.74	0.60	-1.70	
3,559.0	13.74	302.96	3,376.5	507.1	-865.2	1,002.6	1.56	-1.36	-3.11	
3,622.0	12.23	303.65	3,437.9	514.9	-877.0	1,016.7	2.41	-2.40	1.10	
3,686.0	13.03	306.55	3,500.3	522.9	-888.4	1,030.7	1.59	1.25	4.53	
3,749.0	13.45	308.11	3,561.7	531.7	-899.9	1,045.0	0.88	0.67	2.48	
3,813.0	14.63	309.08	3,623.8	541.4	-912.0	1,060.5	1.88	1.84	1.52	
3,876.0	15.19	307.94	3,684.6	551.5	-924.7	1,076.6	1.00	0.89	-1.81	
3,940.0	15.39	307.19	3,746.4	561.7	-938.1	1,093.3	0.44	0.31	-1.17	
4,003.0	16.22	308.15	3,807.0	572.2	-951.7	1,110.4	1.38	1.32	1.52	
4,067.0	17.45	307.05	3,868.2	583.5	-966.4	1,128.8	1.99	1.92	-1.72	
4,130.0	16.95	306.56	3,928.4	594.7	-981.3	1,147.4	0.83	-0.79	-0.78	
4,193.0	15.68	306.43	3,988.9	605.2	-995.5	1,165.0	2.02	-2.02	-0.21	
4,257.0	13.86	307.02	4,050.8	615.0	-1,008.6	1,181.3	2.85	-2.84	0.92	
4,320.0	12.83	306.69	4,112.1	623.7	-1,020.2	1,195.8	1.64	-1.63	-0.52	
4,384.0	11.63	306.78	4,174.6	631.8	-1,031.1	1,209.3	1.88	-1.88	0.14	
4,447.0	10.04	305.67	4,236.5	638.8	-1,040.6	1,221.1	2.55	-2.52	-1.76	
4,511.0	8.64	305.08	4,299.6	644.8	-1,049.1	1,231.4	2.19	-2.19	-0.92	
4,575.0	7.15	307.02	4,363.0	650.0	-1,056.2	1,240.2	2.36	-2.33	3.03	
4,638.0	6.50	309.49	4,425.6	654.6	-1,062.1	1,247.6	1.13	-1.03	3.92	
4,702.0	5.57	306.07	4,489.2	658.7	-1,067.4	1,254.3	1.56	-1.45	-5.34	
4,765.0	4.62	305.50	4,552.0	662.0	-1,072.0	1,259.9	1.51	-1.51	-0.90	
4,829.0	4.23	303.80	4,615.8	664.8	-1,076.0	1,264.8	0.64	-0.61	-2.66	
4,892.0	3.46	299.62	4,678.6	667.1	-1,079.6	1,269.1	1.30	-1.22	-6.63	
4,928.0	3.09	288.41	4,714.6	667.9	-1,081.5	1,271.1	2.05	-1.03	-31.13	
Last SDI MWD Survey										
4,988.0	2.73	286.85	4,774.5	668.8	-1,084.4	1,274.0	0.61	-0.60	-2.60	

Design Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
299.0	299.0	0.3	0.5	First SDI MWD Survey
4,928.0	4,714.6	667.9	-1,081.5	Last SDI MWD Survey

Checked By: _____ Approved By: _____ Date: _____