

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, NM 87505
Phone: (505) 476-3480 Fax: (505) 476-3482

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 August 1, 2011
Submit one copy to appropriate
District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-045-35544		² Pool Code 71599 / 72319		³ Pool Name BASIN DAKOTA/BLANCO MESAVERDE	
⁴ Property Code 7560		⁵ Property Name SUNRAY		⁶ Well Number 1M	
⁷ GRID No. 14538		⁸ Operator Name BURLINGTON RESOURCES OIL & GAS COMPANY LP		⁹ Elevation 6284'	

¹⁰ Surface Location

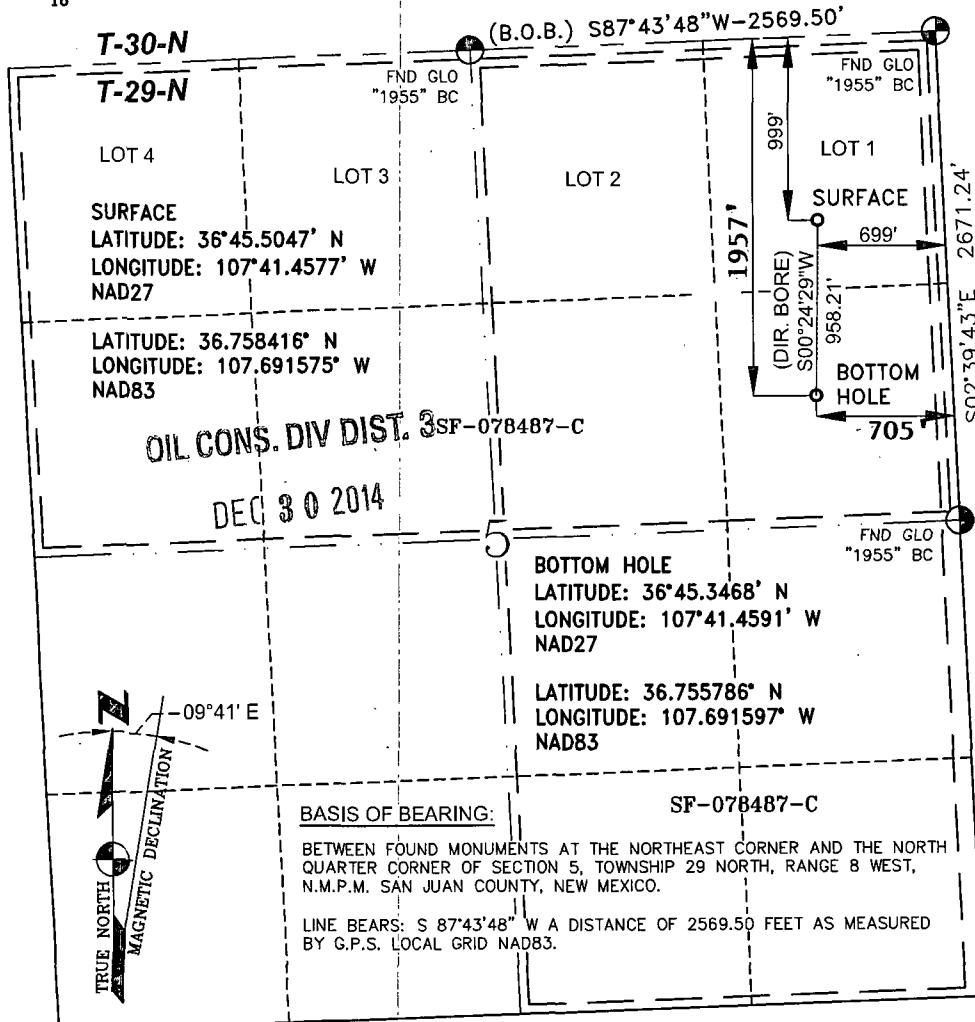
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	5	29-N	8-W		999	NORTH	699	EAST	SAN JUAN

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
H	5	29-N	8-W		1957'	NORTH	705'	EAST	SAN JUAN

¹² Dedicated Acres DK 329.52 ACRES N/2 MV 324.58 ACRES E/2	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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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



17 OPERATOR CERTIFICATION

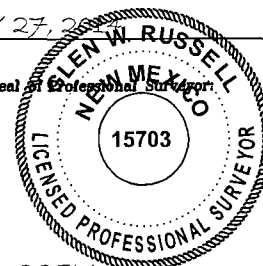
I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this 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.

Denise Journey 12/30/14
Signature Date
Denise Journey
Printed Name
Denise.J.Journey@copc.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.

FEBRUARY 27, 2015
Date of Survey
Signature and Seal of Professional Surveyor
GLEN W. RUSSELL
Certificate Number
15703



AV



COP Deviation Report

SUNRAY #1M

Operator BURLINGTON RESOURCES OIL & GAS COMPANY LP		Legal WellName SUNRAY #1M		API / UWI 3004535544		County SAN JUAN		State/Province NEW MEXICO	
Surface Legal Location 005-029N-008W-A				N/S Dist (ft) 999.00		N/S Ref FNL		E/W Dist (ft) 699.00	
Date 11/14/2014		Description INCLINATION SURVEY							
Survey Data									
Date	MD (ftKB)	Incl (")	Azm (")	Method	Survey Company				
11/14/2014	135.00	0.20	0.00	Inc-Drop	Mo Te Drilling Inc				
11/14/2014	233.00	0.50	0.00	Inc-Drop	Mo Te Drilling Inc				
12/2/2014	7,632.00	0.75	0.00	Inc-Drop	Phoenix Services LLC				
Date 11/14/2014		Description DIRECTIONAL SURVEY							
Survey Data									
Date	MD (ftKB)	Incl (")	Azm (")	Method	Survey Company				
11/24/2014	275.00	0.50	316.20	IncAzi-MWD	CATHEDRAL				
11/24/2014	337.00	0.50	325.90	IncAzi-MWD	CATHEDRAL				
11/24/2014	367.00	0.60	316.50	IncAzi-MWD	CATHEDRAL				
11/24/2014	398.00	0.40	290.60	IncAzi-MWD	CATHEDRAL				
11/24/2014	428.00	0.40	249.50	IncAzi-MWD	CATHEDRAL				
11/24/2014	458.00	0.70	220.00	IncAzi-MWD	CATHEDRAL				
11/25/2014	489.00	1.10	203.30	IncAzi-MWD	CATHEDRAL				
11/25/2014	520.00	2.00	189.60	IncAzi-MWD	CATHEDRAL				
11/25/2014	551.00	2.80	185.40	IncAzi-MWD	CATHEDRAL				
11/25/2014	581.00	3.80	183.50	IncAzi-MWD	CATHEDRAL				
11/25/2014	612.00	4.60	184.70	IncAzi-MWD	CATHEDRAL				
11/25/2014	643.00	5.40	185.40	IncAzi-MWD	CATHEDRAL				
11/25/2014	674.00	6.00	183.00	IncAzi-MWD	CATHEDRAL				
11/25/2014	705.00	7.00	180.66	IncAzi-MWD	CATHEDRAL				
11/25/2014	735.00	7.60	179.80	IncAzi-MWD	CATHEDRAL				
11/25/2014	766.00	8.60	178.00	IncAzi-MWD	CATHEDRAL				
11/25/2014	797.00	9.60	177.30	IncAzi-MWD	CATHEDRAL				
11/25/2014	828.00	10.80	176.10	IncAzi-MWD	CATHEDRAL				
11/25/2014	858.00	11.90	176.80	IncAzi-MWD	CATHEDRAL				
11/25/2014	888.00	12.80	176.60	IncAzi-MWD	CATHEDRAL				
11/25/2014	919.00	13.70	177.30	IncAzi-MWD	CATHEDRAL				
11/25/2014	950.00	14.50	177.80	IncAzi-MWD	CATHEDRAL				
11/25/2014	980.00	15.30	177.90	IncAzi-MWD	CATHEDRAL				

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.

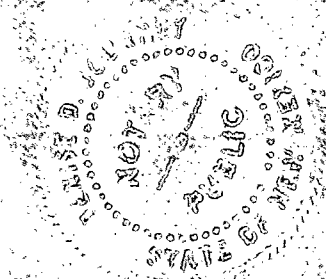
OIL CONS. DIV DIST. 3

Subscribed and sworn to me this 30th day of December

DEC 30 2014

Notary Public in and for San Juan County, New Mexico

My Commission expires

May 26, 2015



COP Deviation Report

SUNRAY #1M

Survey Data

Date	MD (ftKB)	Incl (°)	Azm (°)	Method	Survey Company
11/25/2014	1,010.00	16.10	179.60	IncAzi-MWD	CATHEDRAL
11/25/2014	1,042.00	17.20	180.10	IncAzi-MWD	CATHEDRAL
11/25/2014	1,073.00	18.20	180.20	IncAzi-MWD	CATHEDRAL
11/25/2014	1,105.00	19.30	180.10	IncAzi-MWD	CATHEDRAL
11/25/2014	1,136.00	20.10	180.30	IncAzi-MWD	CATHEDRAL
11/25/2014	1,200.00	20.70	180.80	IncAzi-MWD	CATHEDRAL
11/25/2014	1,263.00	20.70	180.40	IncAzi-MWD	CATHEDRAL
11/25/2014	1,326.00	20.80	180.20	IncAzi-MWD	CATHEDRAL
11/25/2014	1,389.00	21.50	180.10	IncAzi-MWD	CATHEDRAL
11/25/2014	1,452.00	21.80	179.60	IncAzi-MWD	CATHEDRAL
11/25/2014	1,515.00	22.00	178.90	IncAzi-MWD	CATHEDRAL
11/25/2014	1,578.00	21.60	179.10	IncAzi-MWD	CATHEDRAL
11/25/2014	1,642.00	21.90	179.50	IncAzi-MWD	CATHEDRAL
11/25/2014	1,706.00	22.60	179.40	IncAzi-MWD	CATHEDRAL
11/25/2014	1,770.00	22.40	180.50	IncAzi-MWD	CATHEDRAL
11/25/2014	1,833.00	21.80	180.50	IncAzi-MWD	CATHEDRAL
11/25/2014	1,897.00	20.90	180.50	IncAzi-MWD	CATHEDRAL
11/25/2014	1,961.00	20.80	180.00	IncAzi-MWD	CATHEDRAL
11/25/2014	2,025.00	21.00	179.70	IncAzi-MWD	CATHEDRAL
11/25/2014	2,088.00	21.40	179.30	IncAzi-MWD	CATHEDRAL
11/25/2014	2,152.00	21.00	178.90	IncAzi-MWD	CATHEDRAL
11/25/2014	2,216.00	21.00	180.40	IncAzi-MWD	CATHEDRAL
11/25/2014	2,280.00	20.90	181.50	IncAzi-MWD	CATHEDRAL
11/25/2014	2,344.00	20.90	181.90	IncAzi-MWD	CATHEDRAL
11/25/2014	2,408.00	21.40	181.10	IncAzi-MWD	CATHEDRAL
11/25/2014	2,471.00	21.20	179.50	IncAzi-MWD	CATHEDRAL
11/25/2014	2,534.00	20.90	180.20	IncAzi-MWD	CATHEDRAL
11/25/2014	2,598.00	20.50	181.70	IncAzi-MWD	CATHEDRAL
11/25/2014	2,661.00	20.00	181.60	IncAzi-MWD	CATHEDRAL
11/26/2014	2,725.00	19.80	180.70	IncAzi-MWD	CATHEDRAL
11/26/2014	2,789.00	19.30	181.50	IncAzi-MWD	CATHEDRAL
11/26/2014	2,853.00	19.20	181.50	IncAzi-MWD	CATHEDRAL
11/26/2014	2,917.00	19.90	180.90	IncAzi-MWD	CATHEDRAL
11/26/2014	2,981.00	20.00	179.90	IncAzi-MWD	CATHEDRAL
11/26/2014	3,044.00	19.30	180.10	IncAzi-MWD	CATHEDRAL

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 _____

OIL CONS. DIV DIST. 3

DEC 30 2014

Notary Public in and for San Juan County, New Mexico

My Commission expires _____



COP Deviation Report

SUNRAY #1M

Survey Data

Date	MD (ftKB)	Incl (°)	Azm (°)	Method	Survey Company
11/26/2014	3,108.00	19.00	179.50	IncAzi-MWD	CATHEDRAL
11/26/2014	3,172.00	19.10	178.40	IncAzi-MWD	CATHEDRAL
11/26/2014	3,237.00	18.40	177.20	IncAzi-MWD	CATHEDRAL
11/26/2014	3,300.00	16.80	177.70	IncAzi-MWD	CATHEDRAL
11/26/2014	3,363.00	14.50	180.30	IncAzi-MWD	CATHEDRAL
11/26/2014	3,426.00	12.00	180.80	IncAzi-MWD	CATHEDRAL
11/26/2014	3,490.00	10.10	181.80	IncAzi-MWD	CATHEDRAL
11/26/2014	3,553.00	8.60	181.80	IncAzi-MWD	CATHEDRAL
11/26/2014	3,617.00	7.10	186.90	IncAzi-MWD	CATHEDRAL
11/26/2014	3,681.00	5.80	188.00	IncAzi-MWD	CATHEDRAL
11/26/2014	3,745.00	4.70	189.20	IncAzi-MWD	CATHEDRAL
11/26/2014	3,809.00	3.30	182.10	IncAzi-MWD	CATHEDRAL
11/26/2014	3,819.00	3.20	182.20	IncAzi-MWD	CATHEDRAL
11/26/2014	3,872.00	2.40	182.20	Projection	CATHEDRAL

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 _____

OIL CONS. DIV DIST. 3

DEC. 30 2014

Notary Public in and for San Juan County, New Mexico

My Commission expires _____



Conoco Phillips
San Juan Basin
New Mexico West Well
Sunray #1M
BHA #1

***Cathedral Energy Services Ltd.
Survey Report***

08 December 2014

OIL CONS. DIV DIST. 3

DEC 30 2014



Database:	Example Projects Database	Local Coordinate Reference:	Sunray #1M
Company:	Conoco Phillips	TVD Reference:	Sunray #1M
Project:	San Juan Basin	MD Reference:	Sunray #1M
Site:	New Mexico West Well	North reference:	True North
Well:	Sunray #1M	Survey Calculation Method:	Minimum Curvature
Wellbore:			
Design:	BHA #1		

Project	San Juan Basin	System Datum:	Mean Sea Level
Map System:	NAD83 New Mexico State Planes		
Geo Datum:	NAD 1983		
Map Zone:	Western Zone		

Site	New Mexico West Well				
Site Position:		Northing:	+2148142.48	Latitude:	36.90331667° N
From:	Map	Easting:	+2701044.78	Longitude:	107.90873889° W
Position Uncertainty:	0.00ft	Slot Radius:	0in	Grid Convergence:	-0.05°

Well:	Sunray #1M					
Well Position:	+N/-S	-52826.57ft	Northing:	+2095410.65	Latitude:	36.75841100° N
	+E/-W	63673.16ft	Easting:	+2764796.42	Longitude:	107.69096200° W
Position Uncertainty:		1.25ft	Wellhead Elevation:	6299.00ft	Ground Level:	6284.00ft

Wellbore	
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Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	11/23/2014	9.45	63.41	50414.7

Design	BHA #1				
Audit Notes:					
Version:		Phase:		Tie On Depth:	0.00ft

Vertical Section:	Depth from TVD (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.00	0.00	0.00	180.39

Survey Program	11/26/2014				
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
0.00	3819.00	BHA #1	ISCWSA MWD	ISCWSA MWD	

Survey	Measured Depth (ft)	Incl. (°)	Az. (°)	Vertical Depth (ft)	Sub Sea Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Closure Distance (ft)	Closure Azimuth (°)	Dogleg Rate (°/100ft)	Comments/ Formations
	0.00	0.00	0.00	0.00	-6299.00	0.00	0.00	0.00	0.00	0.00	0.000	ISCWSA MWD
	275.00	0.50	316.20	275.00	-6024.00	0.87	-0.83	-0.86	1.20	316.20	0.182	
	337.00	0.50	325.90	336.99	-5962.01	1.29	-1.17	-1.28	1.74	317.70	0.136	
	367.00	0.60	316.50	366.99	-5932.01	1.51	-1.35	-1.50	2.02	318.14	0.448	
	398.00	0.40	290.60	397.99	-5901.01	1.66	-1.56	-1.65	2.28	316.77	0.958	
	428.00	0.40	249.50	427.99	-5871.01	1.66	-1.76	-1.65	2.42	313.39	0.936	
	458.00	0.70	220.00	457.99	-5841.01	1.49	-1.98	-1.47	2.47	306.96	1.344	
	489.00	1.10	203.30	488.99	-5810.01	1.07	-2.22	-1.05	2.46	295.74	1.530	
	520.00	2.00	189.60	519.97	-5779.03	0.26	-2.42	-0.25	2.44	276.16	3.119	
	551.00	2.80	185.40	550.95	-5748.05	-1.03	-2.58	1.04	2.78	248.36	2.641	
	581.00	3.80	183.50	580.90	-5718.10	-2.75	-2.71	2.77	3.86	224.65	3.353	
	612.00	4.60	184.70	611.81	-5687.19	-5.01	-2.88	5.03	5.78	209.87	2.596	
	643.00	5.40	185.40	642.69	-5656.31	-7.70	-3.12	7.72	8.31	202.04	2.588	
	674.00	6.00	183.00	673.54	-5625.46	-10.77	-3.34	10.80	11.28	197.23	2.082	
	705.00	7.00	180.66	704.34	-5594.66	-14.28	-3.45	14.30	14.69	193.57	3.336	

Database:	Example Projects Database	Local Coordinate Reference:	Sunray #1M
Company:	Conoco Phillips	TVD Reference:	Sunray #1M
Project:	San Juan Basin	MD Reference:	Sunray #1M
Site:	New Mexico West Well	North reference:	True North
Well:	Sunray #1M	Survey Calculation Method:	Minimum Curvature
Wellbore:			
Design:	BHA #1		

Survey											
Measured Depth (ft)	Incl. (°)	Az. (°)	Vertical Depth (ft)	Sub Sea Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Closure Distance (ft)	Closure Azimuth (°)	Dogleg Rate (°/100ft)	Comments/ Formations
735.00	7.60	179.80	734.10	-5564.90	-18.09	-3.46	18.11	18.42	190.83	2.033	
766.00	8.60	178.00	764.79	-5534.21	-22.46	-3.37	22.48	22.71	188.54	3.328	
797.00	9.60	177.30	795.40	-5503.60	-27.36	-3.17	27.38	27.54	186.61	3.245	
828.00	10.80	176.10	825.91	-5473.09	-32.84	-2.85	32.86	32.96	184.96	3.931	
858.00	11.90	176.80	855.32	-5443.68	-38.73	-2.49	38.75	38.81	183.67	3.695	
888.00	12.80	176.60	884.63	-5414.37	-45.14	-2.12	45.15	45.18	182.69	3.003	
919.00	13.70	177.30	914.80	-5384.20	-52.23	-1.74	52.24	52.26	181.91	2.949	
950.00	14.50	177.80	944.87	-5354.13	-59.78	-1.42	59.78	59.79	181.36	2.610	
980.00	15.30	177.90	973.86	-5325.14	-67.48	-1.13	67.49	67.49	180.96	2.668	
1010.00	16.10	179.60	1002.74	-5296.26	-75.60	-0.96	75.60	75.61	180.72	3.076	
1042.00	17.20	180.10	1033.40	-5265.60	-84.77	-0.93	84.77	84.77	180.63	3.467	
1073.00	18.20	180.20	1062.93	-5236.07	-94.19	-0.96	94.20	94.20	180.58	3.227	
1105.00	19.30	180.10	1093.23	-5205.77	-104.48	-0.98	104.48	104.48	180.54	3.439	
1136.00	20.10	180.30	1122.42	-5176.58	-114.93	-1.02	114.93	114.93	180.51	2.590	
1200.00	20.70	180.80	1182.40	-5116.60	-137.24	-1.24	137.24	137.24	180.52	0.976	
1263.00	20.70	180.40	1241.33	-5057.67	-159.50	-1.47	159.51	159.51	180.53	0.224	
1326.00	20.80	180.20	1300.25	-4998.75	-181.82	-1.59	181.83	181.83	180.50	0.195	
1389.00	21.50	180.10	1359.00	-4940.00	-204.55	-1.65	204.56	204.56	180.46	1.113	
1452.00	21.80	179.60	1417.56	-4881.44	-227.80	-1.58	227.80	227.80	180.40	0.559	
1515.00	22.00	178.90	1476.01	-4822.99	-251.29	-1.28	251.30	251.30	180.29	0.522	
1578.00	21.60	179.10	1534.51	-4764.49	-274.68	-0.87	274.68	274.69	180.18	0.646	
1642.00	21.90	179.50	1593.95	-4705.05	-298.40	-0.58	298.40	298.40	180.11	0.523	
1706.00	22.60	179.40	1653.19	-4645.81	-322.63	-0.35	322.63	322.63	180.06	1.095	
1770.00	22.40	180.50	1712.31	-4586.69	-347.12	-0.32	347.12	347.12	180.05	0.728	
1833.00	21.80	180.50	1770.68	-4528.32	-370.82	-0.53	370.82	370.82	180.08	0.952	
1897.00	20.90	180.50	1830.29	-4468.71	-394.12	-0.73	394.12	394.12	180.11	1.406	
1961.00	20.80	180.00	1890.10	-4408.90	-416.90	-0.83	416.90	416.90	180.11	0.319	
2025.00	21.00	179.70	1949.89	-4349.11	-439.73	-0.77	439.73	439.73	180.10	0.354	
2088.00	21.40	179.30	2008.63	-4290.37	-462.51	-0.57	462.51	462.51	180.07	0.675	
2152.00	21.00	178.90	2068.30	-4230.70	-485.65	-0.21	485.64	485.65	180.02	0.665	
2216.00	21.00	180.40	2128.04	-4170.96	-508.59	-0.07	508.58	508.59	180.01	0.840	
2280.00	20.90	181.50	2187.81	-4111.19	-531.47	-0.45	531.46	531.47	180.05	0.634	
2344.00	20.90	181.90	2247.60	-4051.40	-554.29	-1.13	554.28	554.29	180.12	0.223	
2408.00	21.40	181.10	2307.29	-3991.71	-577.37	-1.73	577.37	577.37	180.17	0.902	
2471.00	21.20	179.50	2365.99	-3933.01	-600.25	-1.85	600.25	600.26	180.18	0.976	
2534.00	20.90	180.20	2424.78	-3874.22	-622.88	-1.79	622.88	622.88	180.16	0.621	
2598.00	20.50	181.70	2484.65	-3814.35	-645.50	-2.16	645.50	645.50	180.19	1.038	
2661.00	20.00	181.60	2543.76	-3755.24	-667.29	-2.79	667.30	667.30	180.24	0.796	
2725.00	19.80	180.70	2603.94	-3695.06	-689.07	-3.23	689.08	689.08	180.27	0.572	
2789.00	19.30	181.50	2664.25	-3634.75	-710.49	-3.64	710.49	710.50	180.29	0.886	
2853.00	19.20	181.50	2724.67	-3574.33	-731.58	-4.19	731.59	731.59	180.33	0.156	
2917.00	19.90	180.90	2784.98	-3514.02	-752.99	-4.64	753.00	753.00	180.35	1.138	
2981.00	20.00	179.90	2845.14	-3453.86	-774.83	-4.79	774.84	774.84	180.35	0.556	
3044.00	19.30	180.10	2904.47	-3394.53	-796.01	-4.79	796.02	796.02	180.34	1.116	
3108.00	19.00	179.50	2964.93	-3334.07	-817.00	-4.72	817.02	817.02	180.33	0.561	
3172.00	19.10	178.40	3025.42	-3273.58	-837.89	-4.33	837.90	837.90	180.30	0.582	
3237.00	18.40	177.20	3086.97	-3212.03	-858.77	-3.53	858.77	858.77	180.24	1.230	
3300.00	16.80	177.70	3147.02	-3151.98	-877.80	-2.68	877.79	877.80	180.18	2.551	
3363.00	14.50	180.30	3207.68	-3091.32	-894.78	-2.36	894.78	894.79	180.15	3.816	
3426.00	12.00	180.80	3269.00	-3030.00	-909.22	-2.49	909.22	909.22	180.16	3.972	

Database:	Example Projects Database	Local Coordinate Reference:	Sunray #1M
Company:	Conoco Phillips	TVD Reference:	Sunray #1M
Project:	San Juan Basin	MD Reference:	Sunray #1M
Site:	New Mexico West Well	North reference:	True North
Well:	Sunray #1M	Survey Calculation Method:	Minimum Curvature
Wellbore:			
Design:	BHA #1		

Survey											
Measured Depth (ft)	Incl. (°)	Az. (°)	Vertical Depth (ft)	Sub Sea Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Closure Distance (ft)	Closure Azimuth (°)	Dogleg Rate (°/100ft)	Comments/ Formations
3490.00	10.10	181.80	3331.81	-2967.19	-921.48	-2.76	921.48	921.49	180.17	2.984	
3553.00	8.60	181.80	3393.97	-2905.03	-931.71	-3.08	931.71	931.72	180.19	2.381	
3617.00	7.10	186.90	3457.37	-2841.63	-940.42	-3.71	940.43	940.43	180.23	2.582	
3681.00	5.80	188.00	3520.97	-2778.03	-947.55	-4.63	947.56	947.56	180.28	2.040	
3745.00	4.70	189.20	3584.70	-2714.30	-953.34	-5.50	953.36	953.36	180.33	1.727	
3809.00	3.30	182.10	3648.54	-2650.46	-957.77	-5.99	957.79	957.79	180.36	2.316	
3819.00	3.20	182.20	3658.52	-2640.48	-958.34	-6.01	958.36	958.36	180.36	1.002	

Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
-hit/miss target									
-Shape									
50' Radius	0.00	0.09	3681.00	-957.79	-6.52	+2094452.86	+2764791.33	36.75578011° N	107.69098426° W
- survey does not penetrate the target plane									
- Circle									

Checked By:		Approved By:		Date:	
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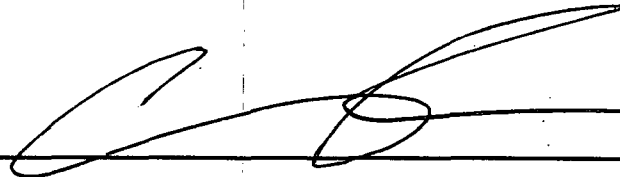
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AFFIRMATION

(Applicant must sign in front of a notary public)

 12-9-14

Official Signature of Applicant

Date

Gavin Rathjen

Subscribed and sworn to or affirmed before me this 9th day of
December, 20 14, in the county of Denver,

State of Colorado.

Nancy Barrett

Signature of Notary Public

9-18-16

Commission Expiration Date

