

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720
District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St. Francis Dr., Santa Fe, NM 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, NM 87505
AS DRILLED PLAT

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 30-039-31140	² Pool Code 72319/71599	³ Pool Name BLANCO MESAVERDE/BASIN DAKOTA
⁴ Property Code 7094	⁵ Property Name HARRINGTON	⁶ Well Number 9N
⁷ OGRID No. 14538	⁸ Operator Name BURLINGTON RESOURCES OIL AND GAS COMPANY LP	⁹ Elevation 6036

¹⁰ SURFACE LOCATION

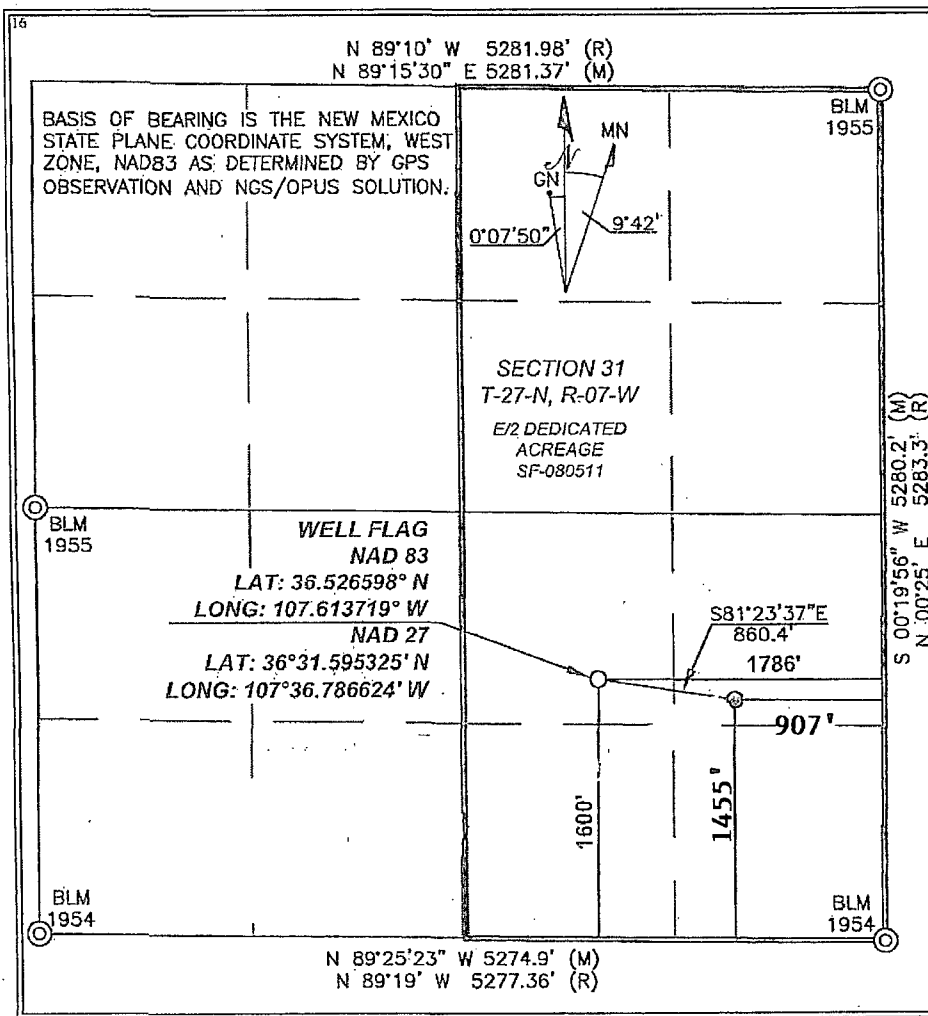
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
J	31	27-N	7-W		1600	SOUTH	1786	EAST	RIO ARRIBA

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
I	31	27-N	7-W		1455	SOUTH	907	EAST	RIO ARRIBA

¹² Dedicated Acres E/2(320)	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.	RCVD APR 22 '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.
DIST. 3



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.

Arleen White 4/19/13
Signature Date
Arleen White
Printed Name
arleen.r.white@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.

Date of Survey: 05/04/2012
Signature and Seal of Professional Surveyor:

Henry B. Broadbent, Jr.
NEW MEXICO
05/12/13
PROFESSIONAL SURVEYOR

Certificate Number: NM 1393

Ar

TS

Operator BURLINGTON RESOURCES OIL & GAS COMPANY LP	Legal WellName HARRINGTON #9N	API / UWI 3003931140	County RIO ARRIBA	State/Province NEW MEXICO
Surface Legal Location 031-027N-007W-J	N/S Dist (ft) 1,600.00	N/S Ref FSL	E/W Dist (ft) 1,786.00	E/W Ref FEL

Survey Data					
Date	MD (ftKB)	Incl (°)	Azm (°)	Method	Survey Company
12/26/2012	128.00	0.75		Inc-Drop	Mo Te Drilling Inc
12/26/2012	234.00	2.00		Inc-Drop	Mo Te Drilling Inc
1/20/2013	269.00	2.07	323.41	IncAzi-MWD	Scientific Drilling
1/20/2013	331.00	1.56	334.69	IncAzi-MWD	Scientific Drilling
1/20/2013	392.00	1.52	50.73	IncAzi-MWD	Scientific Drilling
1/20/2013	453.00	3.16	80.56	IncAzi-MWD	Scientific Drilling
1/20/2013	515.00	4.83	86.27	IncAzi-MWD	Scientific Drilling
1/20/2013	577.00	6.69	86.02	IncAzi-MWD	Scientific Drilling
1/20/2013	639.00	8.38	89.66	IncAzi-MWD	Scientific Drilling
1/20/2013	700.00	9.99	93.21	IncAzi-MWD	Scientific Drilling
1/20/2013	763.00	11.56	97.55	IncAzi-MWD	Scientific Drilling
1/20/2013	825.00	13.54	99.75	IncAzi-MWD	Scientific Drilling
1/21/2013	888.00	15.33	100.43	IncAzi-MWD	Scientific Drilling
1/21/2013	952.00	16.86	100.99	IncAzi-MWD	Scientific Drilling
1/21/2013	1,015.00	18.51	101.43	IncAzi-MWD	Scientific Drilling
1/21/2013	1,079.00	20.30	101.57	IncAzi-MWD	Scientific Drilling
1/21/2013	1,142.00	22.25	104.37	IncAzi-MWD	Scientific Drilling
1/21/2013	1,206.00	23.56	102.28	IncAzi-MWD	Scientific Drilling
1/21/2013	1,269.00	24.13	100.33	IncAzi-MWD	Scientific Drilling
1/21/2013	1,333.00	24.09	100.31	IncAzi-MWD	Scientific Drilling
1/21/2013	1,397.00	24.07	99.13	IncAzi-MWD	Scientific Drilling
1/21/2013	1,460.00	24.34	98.40	IncAzi-MWD	Scientific Drilling
1/21/2013	1,524.00	24.24	99.03	IncAzi-MWD	Scientific Drilling
1/21/2013	1,587.00	24.54	99.00	IncAzi-MWD	Scientific Drilling
1/21/2013	1,651.00	24.20	97.32	IncAzi-MWD	Scientific Drilling
1/21/2013	1,714.00	25.15	96.61	IncAzi-MWD	Scientific Drilling
1/21/2013	1,778.00	25.77	97.17	IncAzi-MWD	Scientific Drilling
1/21/2013	1,841.00	25.94	97.37	IncAzi-MWD	Scientific Drilling
1/21/2013	1,905.00	26.12	97.12	IncAzi-MWD	Scientific Drilling
1/21/2013	1,968.00	25.53	96.71	IncAzi-MWD	Scientific Drilling
1/21/2013	2,032.00	25.90	96.80	IncAzi-MWD	Scientific Drilling
1/21/2013	2,095.00	25.84	97.88	IncAzi-MWD	Scientific Drilling
1/21/2013	2,159.00	25.56	98.44	IncAzi-MWD	Scientific Drilling
1/21/2013	2,223.00	24.98	98.80	IncAzi-MWD	Scientific Drilling
1/21/2013	2,286.00	26.01	97.63	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 _____

Survey Data

Date	MD (RKB)	Incl (°)	Azm (°)	Method	Survey Company
1/21/2013	2,350.00	26.62	97.98	IncAzi-MWD	Scientific Drilling
1/21/2013	2,413.00	26.51	98.78	IncAzi-MWD	Scientific Drilling
1/21/2013	2,476.00	24.98	98.80	IncAzi-MWD	Scientific Drilling
1/21/2013	2,540.00	22.92	99.45	IncAzi-MWD	Scientific Drilling
1/21/2013	2,603.00	20.63	100.88	IncAzi-MWD	Scientific Drilling
1/21/2013	2,667.00	17.99	100.30	IncAzi-MWD	Scientific Drilling
1/21/2013	2,731.00	15.72	100.74	IncAzi-MWD	Scientific Drilling
1/22/2013	2,794.00	13.49	101.49	IncAzi-MWD	Scientific Drilling
1/22/2013	2,858.00	11.56	100.69	IncAzi-MWD	Scientific Drilling
1/22/2013	2,921.00	9.82	101.19	IncAzi-MWD	Scientific Drilling
1/22/2013	2,985.00	8.53	102.82	IncAzi-MWD	Scientific Drilling
1/22/2013	3,048.00	7.49	104.14	IncAzi-MWD	Scientific Drilling
1/22/2013	3,112.00	6.60	101.42	IncAzi-MWD	Scientific Drilling
1/22/2013	3,175.00	4.58	99.20	IncAzi-MWD	Scientific Drilling
1/22/2013	3,239.00	2.89	96.24	IncAzi-MWD	Scientific Drilling
1/22/2013	3,302.00	1.54	117.46	IncAzi-MWD	Scientific Drilling
1/22/2013	3,366.00	1.02	143.74	IncAzi-MWD	Scientific Drilling
1/22/2013	3,430.00	1.07	145.53	IncAzi-MWD	Scientific Drilling
1/22/2013	3,557.00	1.21	157.65	IncAzi-MWD	Scientific Drilling
1/22/2013	3,684.00	1.09	158.17	IncAzi-MWD	Scientific Drilling
1/22/2013	3,811.00	1.16	163.52	IncAzi-MWD	Scientific Drilling
1/22/2013	3,938.00	1.26	173.24	IncAzi-MWD	Scientific Drilling
1/22/2013	4,065.00	1.36	173.48	IncAzi-MWD	Scientific Drilling
1/22/2013	4,163.00	1.32	168.99	IncAzi-MWD	Scientific Drilling
1/26/2013	4,500.00	1.00		Inc-MWD	Aztec Well Servicing Co Inc
1/26/2013	5,000.00	1.00		Inc-MWD	Aztec Well Servicing Co Inc
1/26/2013	5,500.00	1.00		Inc-MWD	Aztec Well Servicing Co Inc
1/26/2013	6,000.00	1.00		Inc-MWD	Aztec Well Servicing Co Inc
1/26/2013	6,500.00	1.00		Inc-MWD	Aztec Well Servicing Co Inc
1/27/2013	6,900.00	1.00		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.

Subscribed and sworn to me this March 12, 2013

Notary Public in and for San Juan County, New Mexico

My Commission expires 5/26/2015



RCVD APR 22 '13

OIL CONS. DIV.

DIST. 3

ConocoPhillips

SJB (NM Central)
SEC 31-T27N-R7W
Harrington 9N

OH 30.039-31140

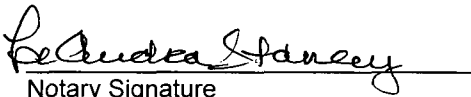
Design: OH

Standard Survey Report

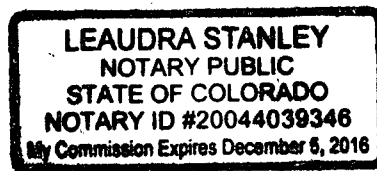
24 January, 2013

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

Notarized this date 24th of January, 2013.



Notary Signature
County of Mesa
State of Colorado



Scientific Drilling



Project: SJB (NM Central)
Site: SEC 31-T27N-R7W
Well: Harrington 9N
Wellbore: OH
Design: OH

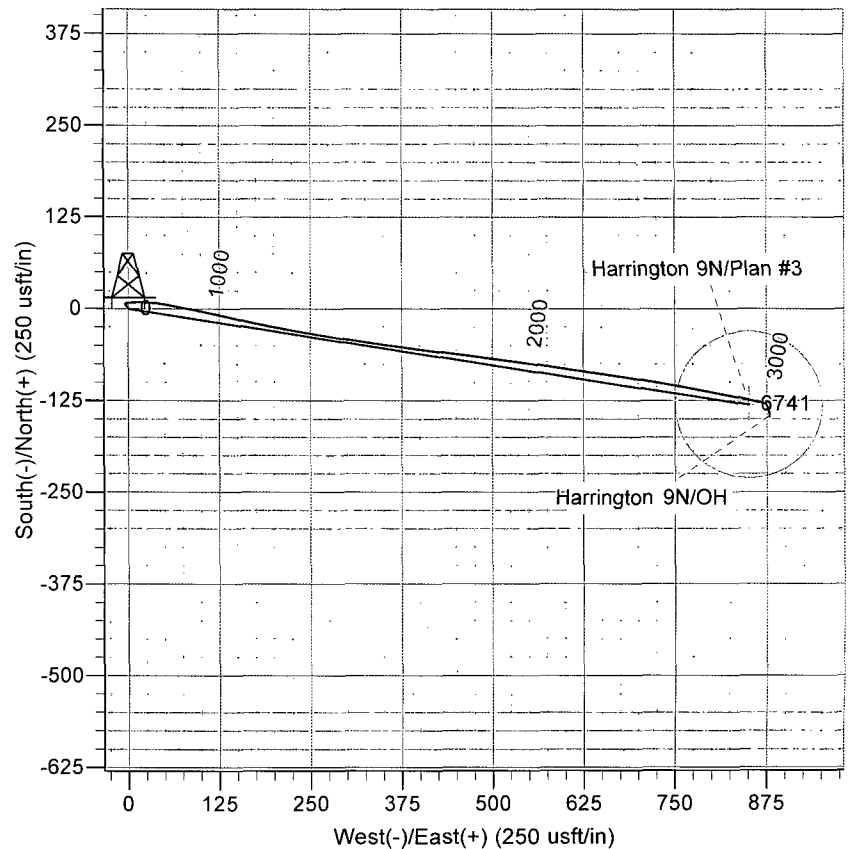
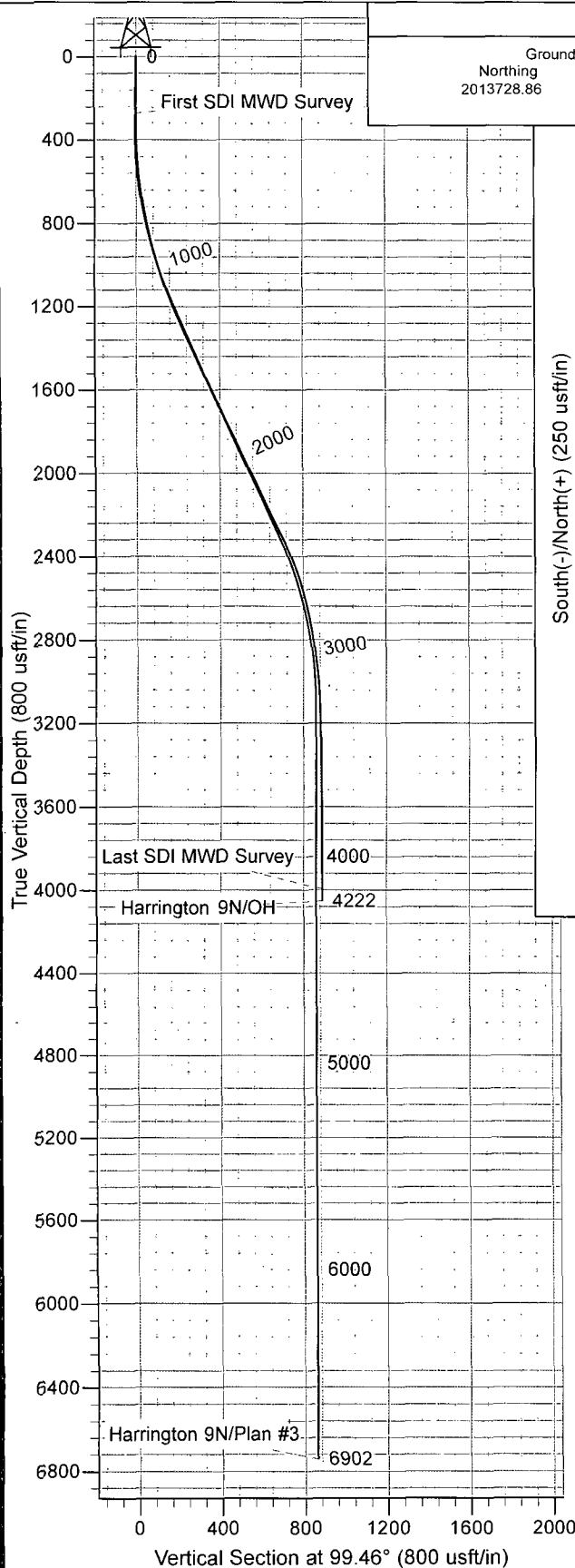


Scientific Drilling



Azimuths to True North
Magnetic North: 9.66°

Magnetic Field
Strength: 50419.7snT
Dip Angle: 63.25°
Date: 01/14/2013
Model: BGGM2012



REFERENCE INFORMATION

Co-ordinate (N/E) Reference: Well Harrington 9N, True North
Vertical (TVD) Reference: GL 6036' & RKB 15' @ 6051.0usft (AWS 920)
Section (VS) Reference: Slot - (0.0N, 0.0E)
Measured Depth Reference: GL 6036' & RKB 15' @ 6051.0usft (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 Harrington 9N
Project:	SJB (NM Central)	TVD Reference:	GL 6036' & RKB 15' @ 6051.0usft (AWS 920)
Site:	SEC 31-T27N-R7W	MD Reference:	GL 6036' & RKB 15' @ 6051.0usft (AWS 920)
Well:	Harrington 9N	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 31-T27N-R7W		
Site Position:		Northing:	2,013,728.86 usft
From:	Lat/Long	Easting:	99,492.68 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	36° 31' 35.720 N
		Longitude:	107° 36' 47.196 W
		Grid Convergence:	-0.81 °

Well	Harrington 9N		
Well Position	+N/-S	0.0 usft	Northing:
	+E/-W	0.0 usft	Easting:
Position Uncertainty	0.0 usft	Wellhead Elevation:	usft
		Latitude:	36° 31' 35.720 N
		Longitude:	107° 36' 47.196 W
		Ground Level:	6,036.0 usft

Wellbore	OH		
Magnetics	Model Name	Sample Date	Declination
			(°)
	BGGM2012	01/14/2013	9.66
			Dip Angle
			(°)
			63.25
			Field Strength
			(nT)
			50,420

Design	OH		
Audit Notes:			
Version:	1.0	Phase:	ACTUAL
		Tie On Depth:	0.0
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W
	(usft)	(usft)	(usft)
	0.0	0.0	0.0
			Direction
			(°)
			99.46

Survey Program	Date	01/24/2013		
From	To	Survey (Wellbore)	Tool Name	Description
(usft)	(usft)			
269.0	4,222.0	Survey #1 - MWD Survey (OH)	MWD SDI	MWD - Standard ver 1.0.1

Survey									
Measured Depth	Inclination	Azimuth	Vertical Depth	+N/-S	+E/-W	Vertical Section	Dogleg Rate	Build Rate	Turn Rate
(usft)	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(°/100usft)	(°/100usft)	(°/100usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
269.0	2.07	323.41	268.9	3.9	-2.9	-3.5	0.77	0.77	0.00
First SDI MWD Survey									
331.0	1.56	334.69	330.9	5.6	-3.9	-4.8	1.00	-0.82	18.19
392.0	1.52	50.73	391.9	6.8	-3.7	-4.7	3.11	-0.07	124.66
453.0	3.16	80.56	452.8	7.6	-1.4	-2.6	3.26	2.69	48.90
515.0	4.83	86.27	514.7	8.1	2.9	1.6	2.77	2.69	9.21
577.0	6.69	86.02	576.4	8.5	9.1	7.6	3.00	3.00	-0.40
639.0	8.38	89.66	637.8	8.8	17.3	15.6	2.83	2.73	5.87
700.0	9.99	93.21	698.1	8.5	27.0	25.2	2.80	2.64	5.82
763.0	11.56	97.55	759.9	7.4	38.7	37.0	2.80	2.49	6.89

Company:	ConocoPhillips	Local Co-ordinate Reference:	Well Harrington 9N
Project:	SJB (NM Central)	TVD Reference:	GL 6036' & RKB 15' @ 6051.0usft (AWS 920)
Site:	SEC 31-T27N-R7W	MD Reference:	GL 6036' & RKB 15' @ 6051.0usft (AWS 920)
Well:	Harrington 9N	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)
825.0	13.54	99.75	820.5	5.3	52.0	50.4	3.28	3.19	3.55
888.0	15.33	100.43	881.5	2.6	67.5	66.1	2.85	2.84	1.08
952.0	16.86	100.99	943.0	-0.7	84.9	83.9	2.40	2.39	0.88
1,015.0	18.51	101.43	1,003.0	-4.5	103.7	103.0	2.63	2.62	0.70
1,079.0	20.30	101.57	1,063.3	-8.7	124.5	124.2	2.80	2.80	0.22
1,142.0	22.25	104.37	1,122.0	-13.9	146.8	147.1	3.49	3.10	4.44
1,206.0	23.56	102.28	1,181.0	-19.6	171.0	171.9	2.41	2.05	-3.27
1,269.0	24.13	100.33	1,238.6	-24.6	196.0	197.4	1.54	0.90	-3.10
1,333.0	24.09	100.31	1,297.0	-29.3	221.7	223.5	0.06	-0.06	-0.03
1,397.0	24.07	99.13	1,355.5	-33.7	247.4	249.6	0.75	-0.03	-1.84
1,460.0	24.34	98.40	1,412.9	-37.6	273.0	275.4	0.64	0.43	-1.16
1,524.0	24.24	99.03	1,471.3	-41.6	299.0	301.8	0.43	-0.16	0.98
1,587.0	24.54	99.00	1,528.6	-45.7	324.7	327.8	0.48	0.48	-0.05
1,651.0	24.20	97.32	1,586.9	-49.4	350.8	354.2	1.21	-0.53	-2.63
1,714.0	25.15	96.61	1,644.2	-52.6	376.9	380.4	1.58	1.51	-1.13
1,778.0	25.77	97.17	1,702.0	-55.9	404.2	407.9	1.04	0.97	0.88
1,841.0	25.94	97.37	1,758.7	-59.4	431.5	435.4	0.30	0.27	0.32
1,905.0	26.12	97.12	1,816.2	-62.9	459.4	463.4	0.33	0.28	-0.39
1,968.0	25.53	96.71	1,872.9	-66.2	486.6	490.9	0.98	-0.94	-0.65
2,032.0	25.90	96.80	1,930.5	-69.5	514.2	518.6	0.58	0.58	0.14
2,095.0	25.84	97.88	1,987.2	-73.0	541.4	546.1	0.75	-0.10	1.71
2,159.0	25.56	98.44	2,044.9	-76.9	568.9	573.8	0.58	-0.44	0.88
2,223.0	24.98	98.80	2,102.8	-81.0	595.9	601.1	0.94	-0.91	0.56
2,286.0	26.01	97.63	2,159.6	-84.9	622.8	628.2	1.82	1.63	-1.86
2,350.0	26.62	97.98	2,217.0	-88.8	650.9	656.6	0.98	0.95	0.55
2,413.0	26.51	98.78	2,273.4	-92.9	678.7	684.8	0.59	-0.17	1.27
2,476.0	24.98	98.80	2,330.1	-97.1	705.8	712.1	2.43	-2.43	0.03
2,540.0	22.92	99.45	2,388.6	-101.2	731.4	738.1	3.25	-3.22	1.02
2,603.0	20.63	100.88	2,447.1	-105.3	754.4	761.5	3.73	-3.63	2.27
2,667.0	17.99	100.30	2,507.5	-109.2	775.2	782.6	4.14	-4.13	-0.91
2,731.0	15.72	100.74	2,568.7	-112.6	793.5	801.2	3.55	-3.55	0.69
2,794.0	13.49	101.49	2,629.7	-115.6	809.1	817.1	3.55	-3.54	1.19
2,858.0	11.56	100.69	2,692.2	-118.3	822.7	830.9	3.03	-3.02	-1.25
2,921.0	9.82	101.19	2,754.1	-120.5	834.2	842.6	2.77	-2.76	0.79
2,985.0	8.53	102.82	2,817.2	-122.6	844.1	852.8	2.06	-2.02	2.55
3,048.0	7.49	104.14	2,879.6	-124.7	852.7	861.6	1.68	-1.65	2.10
3,112.0	6.60	101.42	2,943.1	-126.4	860.3	869.4	1.48	-1.39	-4.25
3,175.0	4.58	99.20	3,005.8	-127.5	866.4	875.5	3.22	-3.21	-3.52
3,239.0	2.89	96.24	3,069.7	-128.1	870.5	879.7	2.66	-2.64	-4.63
3,302.0	1.54	117.46	3,132.7	-128.7	872.8	882.1	2.47	-2.14	33.68
3,366.0	1.02	143.74	3,196.6	-129.5	873.9	883.3	1.21	-0.81	41.06
3,430.0	1.07	145.53	3,260.6	-130.5	874.6	884.1	0.09	0.08	2.80
3,557.0	1.21	157.65	3,387.6	-132.7	875.8	885.7	0.22	0.11	9.54

Company:	ConocoPhillips	Local Co-ordinate Reference:	Well Harrington 9N
Project:	SJB (NM Central)	TVD Reference:	GL 6036' & RKB 15' @ 6051.0usft (AWS 920)
Site:	SEC 31-T27N-R7W	MD Reference:	GL 6036' & RKB 15' @ 6051.0usft (AWS 920)
Well:	Harrington 9N	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)
3,684.0	1.09	158.17	3,514.6	-135.1	876.7	887.0	0.09	-0.09	0.41
3,811.0	1.16	163.52	3,641.6	-137.4	877.5	888.2	0.10	0.06	4.21
3,938.0	1.26	173.24	3,768.5	-140.0	878.1	889.2	0.18	0.08	7.65
4,065.0	1.36	173.48	3,895.5	-142.9	878.4	890.0	0.08	0.08	0.19
4,163.0	1.32	168.99	3,993.5	-145.2	878.8	890.7	0.11	-0.04	-4.58
Last SDI MWD Survey									
4,222.0	1.30	166.29	4,052.4	-146.5	879.0	891.2	0.11	-0.03	-4.58

Design Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
269.0	268.9	3.9	-2.9	First SDI MWD Survey
4,163.0	3,993.5	-145.2	878.8	Last SDI MWD Survey

Checked By: _____ Approved By: _____ Date: _____