

RCVD AUG 14 '12

OIL CONS. DIV.

DIST. 3

DISTRICT I
1625 N. French Dr., Hobbs, N.M. 88240State of New Mexico
Energy, Minerals & Natural Resources Department

Form C-102

DISTRICT II
1301 W. Grand Avenue, Artesia, N.M. 88210

Revised July 16, 2010

DISTRICT III
1000 Rio Brazos Rd., Aztec, N.M. 87410

OIL CONSERVATION DIVISION

1220 South St. Francis Dr.
Santa Fe, N.M. 87505Submit one copy to appropriate
District OfficeDISTRICT IV
1220 S. St. Francis Dr., Santa Fe, N.M. 87505*AS Drilled Plat*

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-045-35252	² Pool Code 71599/72319/97232	³ Pool Name BLANCO / MANCOS	BASIN DAKOTA / MESA VERDE
⁴ Property Code 18548	⁵ Property Name HORTON	⁶ Well Number IB	
⁷ OGRID No. 14538	⁸ Operator Name BURLINGTON RESOURCES OIL & GAS COMPANY LP	⁹ Elevation 6343	

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
I	35	32 N	II W		1426	SOUTH	773	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
O	35	32 N	II W		978	SOUTH	1887	EAST	SAN JUAN

¹² Dedicated Acres 320.00 (S/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

16 S 88°00'51" W 2536.71' 2634.18' BEARINGS & DISTANCES SHOWN ARE REFERENCED TO THE NEW MEXICO COORDINATE SYSTEM, WEST ZONE, NAD 83. USA NM-048 SECTION 35 USA NM-010989 2647.82' N 1°27'04" E S 89°26'33" W 2628.35'	S 88°01'28" W 2527.93' O = SURFACE LOCATION O = BOTTOM HOLE LOCATION <u>SURFACE</u> LAT: 36.9381919° N LONG: 107.9533507° W NAD 83 LAT: 36°56.29136' N LONG: 107°57.16369' W NAD 27 773' 1887' 978' USA SF-081240 S 89°13'19" W 2640.48'	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. <i>Tamra Sessions</i> 8/13/12 Signature Date Tamra Sessions Printed Name tamra.d.sessions@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. 9/24/10 Date of Survey Signature and Seal of Professional Surveyor MARSHALL W. LINDEEN NEW MEXICO 17078 PROFESSIONAL SURVEYOR 17078 Certificate Number		

A

Pc

Operator BURLINGTON RESOURCES OIL & GAS COMPANY LP	Legal WellName HORTON #1B	API / UWI 3004535252	County SAN JUAN	State/Province NEW MEXICO
Surface Legal Location 035-032N-011W-I	N/S Dist (ft) 1,426.00	N/S Ref FSL	E/W Dist (ft) 773.00	E/W Ref FEL

Survey Data

Date	MD (ftKB)	Incl (°)	Azm (°)	Method	Survey Company
11/9/2011	128.00	1.00		Inc-Drop	MO-TE DRILLING INC.
11/9/2011	235.00	1.75		Inc-Drop	MO-TE DRILLING INC.
1/5/2012	238.00	1.01	208.28	IncAzi-MWD	Scientific Drilling
1/5/2012	268.00	1.28	212.12	IncAzi-MWD	Scientific Drilling
1/5/2012	299.00	1.27	218.70	IncAzi-MWD	Scientific Drilling
1/5/2012	330.00	2.15	235.09	IncAzi-MWD	Scientific Drilling
1/5/2012	361.00	2.70	240.00	IncAzi-MWD	Scientific Drilling
1/5/2012	391.00	3.23	249.48	IncAzi-MWD	Scientific Drilling
1/5/2012	422.00	3.66	256.11	IncAzi-MWD	Scientific Drilling
1/5/2012	452.00	4.44	255.20	IncAzi-MWD	Scientific Drilling
1/5/2012	482.00	5.24	257.64	IncAzi-MWD	Scientific Drilling
1/5/2012	513.00	5.86	259.75	IncAzi-MWD	Scientific Drilling
1/5/2012	543.00	7.10	258.81	IncAzi-MWD	Scientific Drilling
1/5/2012	574.00	7.49	259.79	IncAzi-MWD	Scientific Drilling
1/5/2012	604.00	8.42	260.09	IncAzi-MWD	Scientific Drilling
1/5/2012	635.00	8.96	259.62	IncAzi-MWD	Scientific Drilling
1/5/2012	665.00	9.83	259.89	IncAzi-MWD	Scientific Drilling
1/5/2012	696.00	10.60	258.15	IncAzi-MWD	Scientific Drilling
1/5/2012	727.00	11.48	258.80	IncAzi-MWD	Scientific Drilling
1/5/2012	757.00	12.48	258.51	IncAzi-MWD	Scientific Drilling
1/5/2012	787.00	13.11	256.12	IncAzi-MWD	Scientific Drilling
1/5/2012	819.00	14.16	256.27	IncAzi-MWD	Scientific Drilling
1/5/2012	851.00	15.01	255.30	IncAzi-MWD	Scientific Drilling
1/5/2012	883.00	15.74	255.24	IncAzi-MWD	Scientific Drilling
1/5/2012	914.00	16.60	256.06	IncAzi-MWD	Scientific Drilling
1/5/2012	946.00	17.39	255.03	IncAzi-MWD	Scientific Drilling
1/5/2012	978.00	18.44	255.59	IncAzi-MWD	Scientific Drilling
1/5/2012	1,010.00	19.40	255.60	IncAzi-MWD	Scientific Drilling
1/7/2012	1,041.00	20.48	255.16	IncAzi-MWD	Scientific Drilling
1/7/2012	1,073.00	21.45	254.79	IncAzi-MWD	Scientific Drilling
1/7/2012	1,104.00	22.34	254.61	IncAzi-MWD	Scientific Drilling
1/7/2012	1,136.00	22.93	252.75	IncAzi-MWD	Scientific Drilling
1/7/2012	1,167.00	24.04	252.89	IncAzi-MWD	Scientific Drilling
1/7/2012	1,199.00	25.14	252.41	IncAzi-MWD	Scientific Drilling
1/7/2012	1,230.00	25.92	251.84	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 8/13/12



Notary Public in and for San Juan County, New Mexico

My Commission expires 2/8/16

COP Deviation Report

ConocoPhillips

HORTON #1B

Survey Data

Date	MD (ftKB)	Incl (°)	Azm (°)	Method	Survey Company
1/7/2012	1,261.00	26.61	251.20	IncAzi-MWD	Scientific Drilling
1/7/2012	1,293.00	27.49	250.74	IncAzi-MWD	Scientific Drilling
1/7/2012	1,325.00	28.48	250.87	IncAzi-MWD	Scientific Drilling
1/7/2012	1,356.00	29.57	249.61	IncAzi-MWD	Scientific Drilling
1/7/2012	1,388.00	30.72	249.34	IncAzi-MWD	Scientific Drilling
1/7/2012	1,419.00	31.32	247.88	IncAzi-MWD	Scientific Drilling
1/7/2012	1,482.00	31.51	246.45	IncAzi-MWD	Scientific Drilling
1/7/2012	1,545.00	32.51	245.85	IncAzi-MWD	Scientific Drilling
1/7/2012	1,609.00	32.56	244.84	IncAzi-MWD	Scientific Drilling
1/7/2012	1,671.00	32.91	244.41	IncAzi-MWD	Scientific Drilling
1/7/2012	1,734.00	33.37	243.61	IncAzi-MWD	Scientific Drilling
1/7/2012	1,798.00	34.30	243.75	IncAzi-MWD	Scientific Drilling
1/7/2012	1,860.00	34.51	242.50	IncAzi-MWD	Scientific Drilling
1/7/2012	1,924.00	34.86	243.69	IncAzi-MWD	Scientific Drilling
1/7/2012	1,987.00	34.83	245.01	IncAzi-MWD	Scientific Drilling
1/7/2012	2,051.00	34.03	246.99	IncAzi-MWD	Scientific Drilling
1/7/2012	2,114.00	33.98	247.33	IncAzi-MWD	Scientific Drilling
1/7/2012	2,176.00	33.93	248.53	IncAzi-MWD	Scientific Drilling
1/7/2012	2,240.00	33.68	249.56	IncAzi-MWD	Scientific Drilling
1/7/2012	2,303.00	32.78	248.64	IncAzi-MWD	Scientific Drilling
1/7/2012	2,366.00	31.80	249.19	IncAzi-MWD	Scientific Drilling
1/7/2012	2,429.00	30.49	248.99	IncAzi-MWD	Scientific Drilling
1/7/2012	2,492.00	28.77	249.10	IncAzi-MWD	Scientific Drilling
1/7/2012	2,555.00	27.45	249.29	IncAzi-MWD	Scientific Drilling
1/7/2012	2,618.00	26.17	247.93	IncAzi-MWD	Scientific Drilling
1/7/2012	2,681.00	24.18	246.96	IncAzi-MWD	Scientific Drilling
1/8/2012	2,745.00	23.51	246.74	IncAzi-MWD	Scientific Drilling
1/8/2012	2,809.00	22.15	244.74	IncAzi-MWD	Scientific Drilling
1/8/2012	2,872.00	20.44	242.91	IncAzi-MWD	Scientific Drilling
1/8/2012	2,935.00	18.65	241.64	IncAzi-MWD	Scientific Drilling
1/8/2012	2,998.00	17.75	244.24	IncAzi-MWD	Scientific Drilling
1/8/2012	3,061.00	16.07	245.27	IncAzi-MWD	Scientific Drilling
1/8/2012	3,123.00	14.37	246.62	IncAzi-MWD	Scientific Drilling
1/8/2012	3,186.00	12.62	246.66	IncAzi-MWD	Scientific Drilling
1/8/2012	3,249.00	11.18	246.28	IncAzi-MWD	Scientific Drilling
1/8/2012	3,312.00	9.36	246.91	IncAzi-MWD	Scientific Drilling
1/8/2012	3,376.00	9.06	247.17	IncAzi-MWD	Scientific Drilling
1/9/2012	3,439.00	8.48	245.12	IncAzi-MWD	Scientific Drilling
1/9/2012	3,502.00	7.72	251.30	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 (ftKB)	Incl (°)	Azm (°)	Method	Survey Company
1/9/2012	3,565.00	6.39	250.49	IncAzi-MWD	Scientific Drilling
1/9/2012	3,629.00	5.20	254.20	IncAzi-MWD	Scientific Drilling
1/9/2012	3,680.00	4.31	261.44	IncAzi-MWD	Scientific Drilling
1/9/2012	3,735.00	3.35	269.25	Projection	Scientific Drilling
1/23/2012	7,923.00	1.00		Inc-WL	Phoenix Services LLC

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 _____



ConocoPhillips

SJB (NM West)
SEC 35-T32N-R11W
Horton #1B

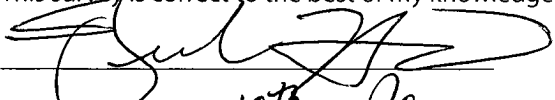
OH

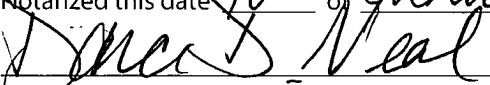
Design: OH

Standard Survey Report

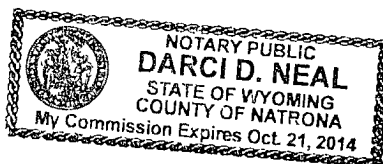
10 January, 2012

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

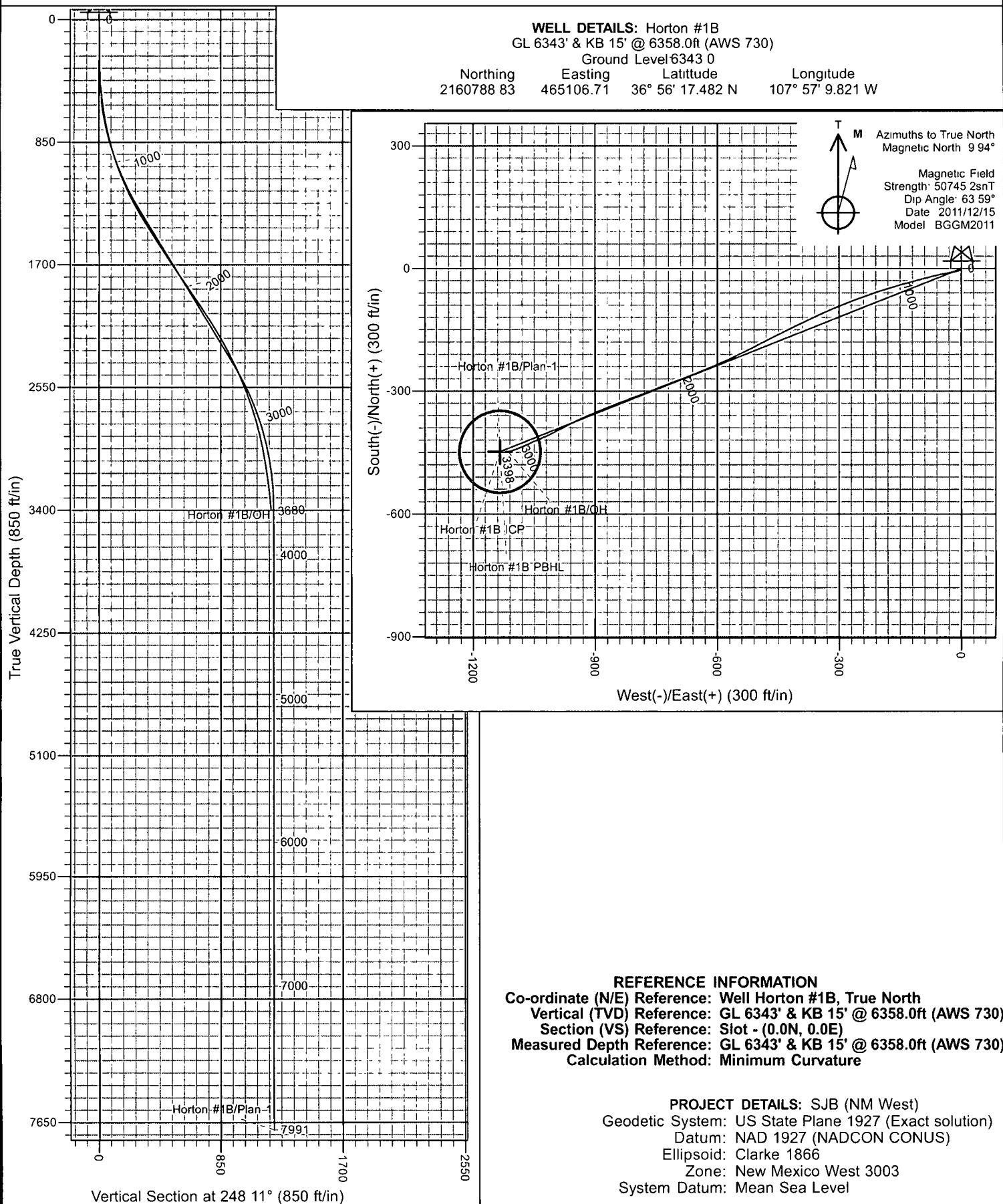

Notarized this date 10th of January, 2012.



Notary Signature
County of Natrona
State of Wyoming



Scientific Drilling



Company:	ConocoPhillips	Local Co-ordinate Reference:	Well Horton #1B
Project:	SJB (NM West)	TVD Reference:	GL 6343' & KB 15' @ 6358.0ft (AWS 730)
Site:	SEC 35-T32N-R11W	MD Reference:	GL 6343' & KB 15' @ 6358.0ft (AWS 730)
Well:	Horton #1B	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 2003.21 Single User Db

Project	SJB (NM West), 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 West 3003		Using geodetic scale factor

Site	SEC 35-T32N-R11W		
Site Position:		Northing:	2,160,788.83 ft
From:	Lat/Long	Easting:	465,106.71 ft
Position Uncertainty:	0.0 ft	Slot Radius:	"
		Latitude:	36° 56' 17.482 N
		Longitude:	107° 57' 9.821 W
		Grid Convergence:	-0.07 °

Well	Horton #1B, 1426' FSL 773' FEL		
Well Position	+N/-S	0.0 ft	Northing: 2,160,788.83 ft
	+E/-W	0.0 ft	Easting: 465,106.71 ft
Position Uncertainty	0.0 ft	Wellhead Elevation:	ft
		Latitude:	36° 56' 17.482 N
		Longitude:	107° 57' 9.821 W
		Ground Level:	6,343.0 ft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2011	2011/12/15	9.94	63.59	50,745

Design	OH				
Audit Notes:					
Version:	1 0	Phase:	ACTUAL	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)	
	0.0	0.0	0.0	248.11	

Survey Program	Date 2012/01/10				
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
238.0	3,680.0	Survey #1 (OH)	MWD SDI	MWD - Standard ver 1.0.1	

Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00	
238.0	1.01	208.28	238.0	-1.8	-1.0	1.6	0.42	0.42	0.00	
First SDI MWD Survey										
268.0	1.28	212.12	268.0	-2.4	-1.3	2.1	0.94	0.90	12.80	
299.0	1.27	218.70	299.0	-2.9	-1.7	2.7	0.47	-0.03	21.23	
330.0	2.15	235.09	330.0	-3.5	-2.4	3.5	3.22	2.84	52.87	
361.0	2.70	240.00	360.9	-4.2	-3.5	4.8	1.89	1.77	15.84	
391.0	3.23	249.48	390.9	-4.9	-4.9	6.4	2.40	1.77	31.60	
422.0	3.66	256.11	421.8	-5.4	-6.7	8.2	1.89	1.39	21.39	
452.0	4.44	255.20	451.8	-5.9	-8.7	10.3	2.61	2.60	-3.03	
482.0	5.24	257.64	481.7	-6.5	-11.2	12.8	2.75	2.67	8.13	
513.0	5.86	259.75	512.5	-7.1	-14.1	15.8	2.11	2.00	6.81	
543.0	7.10	258.81	542.3	-7.8	-17.5	19.1	4.15	4.13	-3.13	

Company:	ConocoPhillips	Local Co-ordinate Reference:	Well Horton #1B
Project:	SJB (NM West)	TVD Reference:	GL 6343' & KB 15' @ 6358.0ft (AWS 730)
Site:	SEC 35-T32N-R11W	MD Reference:	GL 6343' & KB 15' @ 6358.0ft (AWS 730)
Well:	Horton #1B	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 2003.21 Single User Db

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
574.0	7.49	259.79	573.1	-8.5	-21.3	23.0	1.32	1.26	3.16
604.0	8.42	260.09	602.8	-9.2	-25.4	27.0	3.10	3.10	1.00
635.0	8.96	259.62	633.4	-10.0	-30.0	31.6	1.76	1.74	-1.52
665.0	9.83	259.89	663.0	-10.9	-34.8	36.4	2.90	2.90	0.90
696.0	10.60	258.15	693.5	-12.0	-40.2	41.8	2.68	2.48	-5.61
727.0	11.48	258.80	724.0	-13.1	-46.1	47.6	2.87	2.84	2.10
757.0	12.48	258.51	753.3	-14.4	-52.2	53.8	3.34	3.33	-0.97
787.0	13.11	256.12	782.6	-15.8	-58.6	60.3	2.74	2.10	-7.97
819.0	14.16	256.27	813.7	-17.6	-66.0	67.8	3.28	3.28	0.47
851.0	15.01	255.30	844.6	-19.6	-73.8	75.8	2.76	2.66	-3.03
883.0	15.74	255.24	875.5	-21.8	-82.0	84.2	2.28	2.28	-0.19
914.0	16.60	256.06	905.2	-23.9	-90.3	92.7	2.87	2.77	2.65
946.0	17.39	255.03	935.8	-26.2	-99.4	102.0	2.64	2.47	-3.22
978.0	18.44	255.59	966.3	-28.7	-108.9	111.8	3.33	3.28	1.75
1,010.0	19.40	255.60	996.6	-31.3	-119.0	122.1	3.00	3.00	0.03
1,041.0	20.48	255.16	1,025.7	-34.0	-129.2	132.6	3.52	3.48	-1.42
1,073.0	21.45	254.79	1,055.6	-36.9	-140.3	143.9	3.06	3.03	-1.16
1,104.0	22.34	254.61	1,084.4	-40.0	-151.4	155.4	2.88	2.87	-0.58
1,136.0	22.93	252.75	1,113.9	-43.5	-163.2	167.7	2.90	1.84	-5.81
1,167.0	24.04	252.89	1,142.3	-47.1	-175.0	180.0	3.59	3.58	0.45
1,199.0	25.14	252.41	1,171.4	-51.1	-187.7	193.2	3.49	3.44	-1.50
1,230.0	25.92	251.84	1,199.4	-55.2	-200.5	206.6	2.64	2.52	-1.84
1,261.0	26.61	251.20	1,227.2	-59.5	-213.5	220.3	2.41	2.23	-2.06
1,293.0	27.49	250.74	1,255.7	-64.3	-227.2	234.8	2.83	2.75	-1.44
1,325.0	28.48	250.87	1,283.9	-69.2	-241.4	249.8	3.10	3.09	0.41
1,356.0	29.57	249.61	1,311.1	-74.3	-255.6	264.8	4.03	3.52	-4.06
1,388.0	30.72	249.34	1,338.7	-79.9	-270.6	280.9	3.62	3.59	-0.84
1,419.0	31.32	247.88	1,365.3	-85.8	-285.5	296.9	3.10	1.94	-4.71
1,482.0	31.51	246.45	1,419.1	-98.5	-315.7	329.7	1.22	0.30	-2.27
1,545.0	32.51	245.85	1,472.5	-112.0	-346.3	363.1	1.67	1.59	-0.95
1,609.0	32.56	244.84	1,526.4	-126.4	-377.6	397.5	0.85	0.08	-1.58
1,671.0	32.91	244.41	1,578.6	-140.7	-407.9	430.9	0.68	0.56	-0.69
1,734.0	33.37	243.61	1,631.3	-155.8	-438.8	465.3	1.01	0.73	-1.27
1,798.0	34.30	243.75	1,684.5	-171.6	-470.8	500.8	1.46	1.45	0.22
1,860.0	34.51	242.50	1,735.7	-187.5	-502.0	535.7	1.19	0.34	-2.02
1,924.0	34.86	243.69	1,788.3	-203.9	-534.5	572.0	1.19	0.55	1.86
1,987.0	34.83	245.01	1,840.0	-219.5	-566.9	607.9	1.20	-0.05	2.10
2,051.0	34.03	246.99	1,892.8	-234.3	-600.0	644.1	2.15	-1.25	3.09
2,114.0	33.98	247.33	1,945.0	-247.9	-632.4	679.3	0.31	-0.08	0.54
2,176.0	33.93	248.53	1,996.4	-260.9	-664.5	713.9	1.08	-0.08	1.94
2,240.0	33.68	249.56	2,049.6	-273.7	-697.8	749.5	0.98	-0.39	1.61
2,303.0	32.78	248.64	2,102.3	-286.0	-730.0	784.0	1.64	-1.43	-1.46
2,366.0	31.80	249.19	2,155.6	-298.1	-761.4	817.7	1.62	-1.56	0.87
2,429.0	30.49	248.99	2,209.5	-309.7	-791.9	850.3	2.09	-2.08	-0.32
2,492.0	28.77	249.10	2,264.2	-320.9	-821.0	881.4	2.73	-2.73	0.17
2,555.0	27.45	249.29	2,319.8	-331.4	-848.7	911.1	2.10	-2.10	0.30
2,618.0	26.17	247.93	2,376.0	-341.8	-875.2	939.5	2.25	-2.03	-2.16
2,681.0	24.18	246.96	2,433.1	-352.0	-899.9	966.3	3.23	-3.16	-1.54
2,745.0	23.51	246.74	2,491.6	-362.2	-923.7	992.1	1.06	-1.05	-0.34
2,809.0	22.15	244.74	2,550.6	-372.4	-946.3	1,017.0	2.45	-2.13	-3.13
2,872.0	20.44	242.91	2,609.3	-382.5	-966.9	1,039.8	2.91	-2.71	-2.90
2,935.0	18.65	241.64	2,668.6	-392.3	-985.5	1,060.7	2.92	-2.84	-2.02
2,998.0	17.75	244.24	2,728.5	-401.2	-1,003.1	1,080.3	1.92	-1.43	4.13
3,061.0	16.07	245.27	2,788.8	-409.1	-1,019.6	1,098.6	2.71	-2.67	1.63

Company:	ConocoPhillips	Local Co-ordinate Reference:	Well Horton #1B
Project:	SJB (NM West)	TVD Reference:	GL 6343' & KB 15' @ 6358.0ft (AWS 730)
Site:	SEC 35-T32N-R11W	MD Reference:	GL 6343' & KB 15' @ 6358.0ft (AWS 730)
Well:	Horton #1B	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 2003 21 Single User Db

Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
3,123.0	14.37	246.62	2,848.6	-415.7	-1,034.5	1,114.9	2.80	-2.74	2.18	
3,186.0	12.62	246.66	2,909.8	-421.5	-1,048.0	1,129.6	2.78	-2.78	0.06	
3,249.0	11.18	246.28	2,971.5	-426.7	-1,059.9	1,142.6	2.29	-2.29	-0.60	
3,312.0	9.36	246.91	3,033.5	-431.2	-1,070.2	1,153.8	2.89	-2.89	1.00	
3,376.0	9.06	247.17	3,096.7	-435.2	-1,079.6	1,164.0	0.47	-0.47	0.41	
3,439.0	8.48	245.12	3,158.9	-439.0	-1,088.4	1,173.6	1.05	-0.92	-3.25	
3,502.0	7.72	251.30	3,221.3	-442.4	-1,096.6	1,182.5	1.83	-1.21	9.81	
3,565.0	6.39	250.49	3,283.8	-444.9	-1,104.0	1,190.2	2.12	-2.11	-1.29	
3,629.0	5.20	254.20	3,347.5	-446.9	-1,110.1	1,196.7	1.95	-1.86	5.80	
3,680.0	4.31	261.44	3,398.3	-447.8	-1,114.2	1,200.8	2.10	-1.75	14.20	
Last SDI MWD Survey										

Design Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates			
		+N/-S (ft)	+E/-W (ft)	Comment	
238.0	238.0	-1.8	-1.0	First SDI MWD Survey	
3,680.0	3,398.3	-447.8	-1,114.2	Last SDI MWD Survey	

Checked By: _____ Approved By: _____ Date: _____