

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) 748-8720
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

Form C-102

Revised August 1, 2011

Submit one copy to appropriate

District Office

OIL CONSERVATION DIVISION

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

AS DRILLED PLAT

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-045-35323	² Pool Code 71599 / 72319	³ Pool Name BASIN DAKOTA / BLANCO MESAVERDE
⁴ Property Code 7099	⁵ Property Name HARTMAN 23	⁶ Well Number IP
⁷ GRID No. 14538	⁸ Operator Name BURLINGTON RESOURCES OIL & GAS COMPANY LP	⁹ Elevation 5964

¹⁰ Surface Location

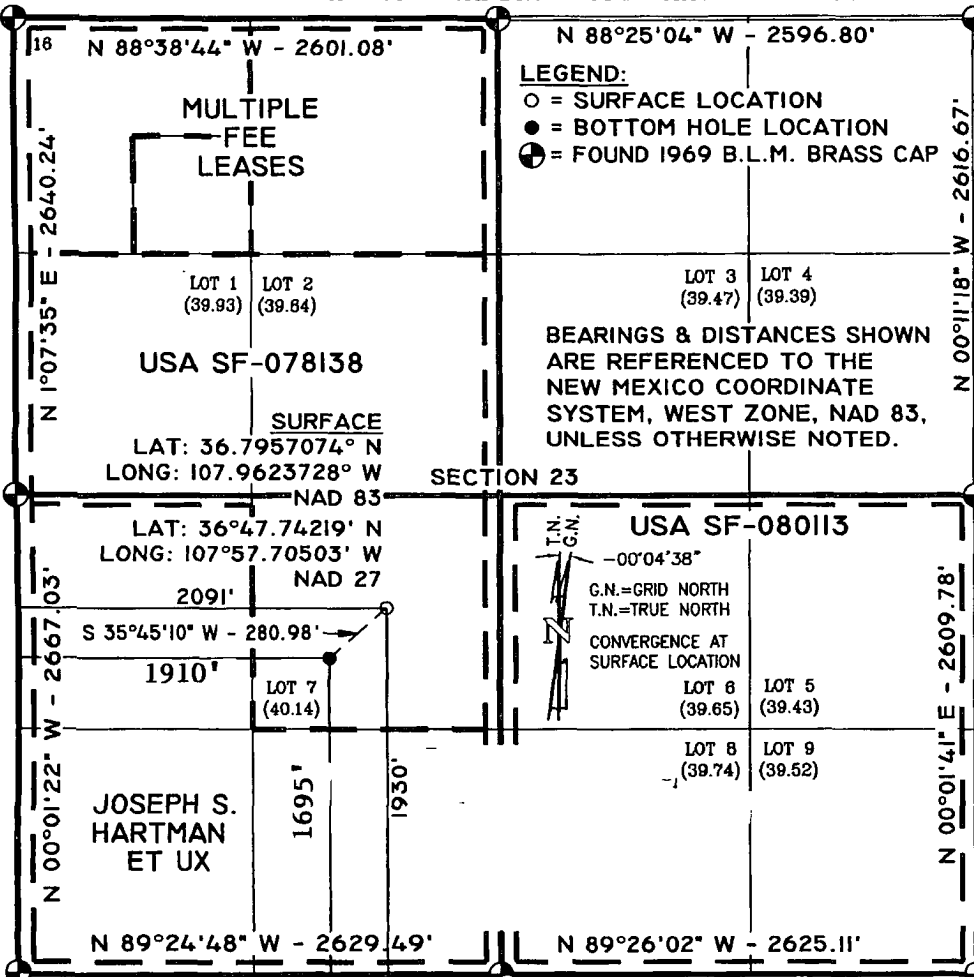
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
K	23	30 N	11 W	LOT 7	1930	SOUTH	2091	WEST	SAN JUAN

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
K	23	30 N	11 W	LOT 7	1695'	SOUTH	1910'	WEST	SAN JUAN

¹² Dedicated Acres 318.48 (S/2) MV 320.00 (W/2) DK	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No. RCVD NOV 2 '12 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. Signature: Marie E. Jaramillo Date: 11/2/12 Printed Name: Marie E. Jaramillo Staff Regulatory Tech. 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: 01/06/12 Signature and Seal: [Signature] Certificate Number: 17078 Professional Surveyor: [Signature]

ConocoPhillips**COP Deviation Report****HARTMAN 23 #1P****RCVD NOV 5 '12
OIL CONS. DIV.****DIST. 3**

Operator BURLINGTON RESOURCES OIL & GAS COMPANY LP	Legal WellName HARTMAN 23 #1P	API / UWI 3004535323	County SAN JUAN	State/Province NEW MEXICO
Surface Legal Location 023-030N-011W-K	N/S Dist (ft) 1,930.00	N/S Ref FSL	E/W Dist (ft) 2,091.00	E/W Ref FWL

Survey Data

Date	MD (ftKB)	Incl (°)	Azm (°)	Method	Survey Company
8/24/2012	130.00	0.50		Inc-WL	Mo Te Drilling Inc
8/24/2012	234.00	0.75		Inc-WL	Mo Te Drilling Inc
9/5/2012	264.00	0.91	323.37	IncAzi-MWD	Scientific Drilling
9/5/2012	326.00	0.75	252.14	IncAzi-MWD	Scientific Drilling
9/5/2012	387.00	2.05	244.01	IncAzi-MWD	Scientific Drilling
9/5/2012	447.00	3.76	224.97	IncAzi-MWD	Scientific Drilling
9/5/2012	509.00	4.61	211.90	IncAzi-MWD	Scientific Drilling
9/5/2012	571.00	6.18	215.62	IncAzi-MWD	Scientific Drilling
9/5/2012	629.00	6.58	214.09	IncAzi-MWD	Scientific Drilling
9/5/2012	690.00	7.55	213.90	IncAzi-MWD	Scientific Drilling
9/5/2012	751.00	8.90	216.57	IncAzi-MWD	Scientific Drilling
9/5/2012	813.00	10.13	218.12	IncAzi-MWD	Scientific Drilling
9/5/2012	876.00	11.59	218.59	IncAzi-MWD	Scientific Drilling
9/5/2012	938.00	12.66	217.27	IncAzi-MWD	Scientific Drilling
9/5/2012	1,002.00	13.98	216.21	IncAzi-MWD	Scientific Drilling
9/5/2012	1,065.00	15.30	216.59	IncAzi-MWD	Scientific Drilling
9/5/2012	1,128.00	16.76	215.26	IncAzi-MWD	Scientific Drilling
9/5/2012	1,192.00	17.50	214.39	IncAzi-MWD	Scientific Drilling
9/5/2012	1,255.00	17.47	214.15	IncAzi-MWD	Scientific Drilling
9/5/2012	1,319.00	17.67	213.89	IncAzi-MWD	Scientific Drilling
9/5/2012	1,382.00	17.32	213.87	IncAzi-MWD	Scientific Drilling
9/5/2012	1,446.00	15.57	216.22	IncAzi-MWD	Scientific Drilling
9/5/2012	1,509.00	13.69	215.96	IncAzi-MWD	Scientific Drilling
9/5/2012	1,572.00	11.69	216.67	IncAzi-MWD	Scientific Drilling
9/5/2012	1,635.00	10.26	217.46	IncAzi-MWD	Scientific Drilling
9/5/2012	1,699.00	9.15	216.29	IncAzi-MWD	Scientific Drilling
9/5/2012	1,762.00	7.82	214.68	IncAzi-MWD	Scientific Drilling
9/5/2012	1,825.00	6.90	221.92	IncAzi-MWD	Scientific Drilling
9/5/2012	1,889.00	5.06	227.49	IncAzi-MWD	Scientific Drilling
9/5/2012	1,952.00	3.14	240.79	IncAzi-MWD	Scientific Drilling
9/5/2012	2,015.00	1.35	264.11	IncAzi-MWD	Scientific Drilling
9/5/2012	2,079.00	0.67	321.33	IncAzi-MWD	Scientific Drilling
9/5/2012	2,143.00	-0.52	349.80	IncAzi-MWD	Scientific Drilling
9/6/2012	2,484.00	-0.50	349.80	Inc-MWD	Aztec Well-Servicing Co Inc
9/6/2012	2,928.00	0.50	349.80	Inc-MWD	Aztec Well-Servicing Co Inc

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
9/6/2012	3,365.00	0 50	349 80	Inc-MWD	Aztec Well Servicing Co Inc
9/6/2012	3,750.00	2.00	349 80	Inc-MWD	Aztec Well Servicing Co Inc
9/6/2012	3,940.00	2.50	349 80	Inc-MWD	Aztec Well Servicing Co Inc
9/7/2012	4,190.00	2 50	349.80	Inc-MWD	Aztec Well Servicing Co Inc
9/7/2012	4,321.00	0.50	349.80	Inc-MWD	Aztec Well Servicing Co Inc
9/7/2012	4,361.00	0.50	349.80	Projection	Aztec Well Servicing Co Inc
9/17/2012	6,916.00	2.00		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.

Cara B. King

Subscribed and sworn to me this 11/2/12

Maria J. Jaramila
Notary Public in and for San Juan County, New Mexico

My Commission expires 7/2/14



RCVD NOV 2 '12

OIL CONS. DIV.
DIST. 3

ConocoPhillips

SJB (NM West)
SEC 23-T30N-R11W
Hartman 23 1P

OH

Design: OH

APL# 3004535323

Standard Survey Report

10 September, 2012

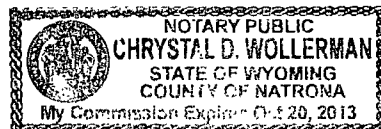
This survey is correct to the best of my knowledge and is supported by actual field data.

Cara B Long

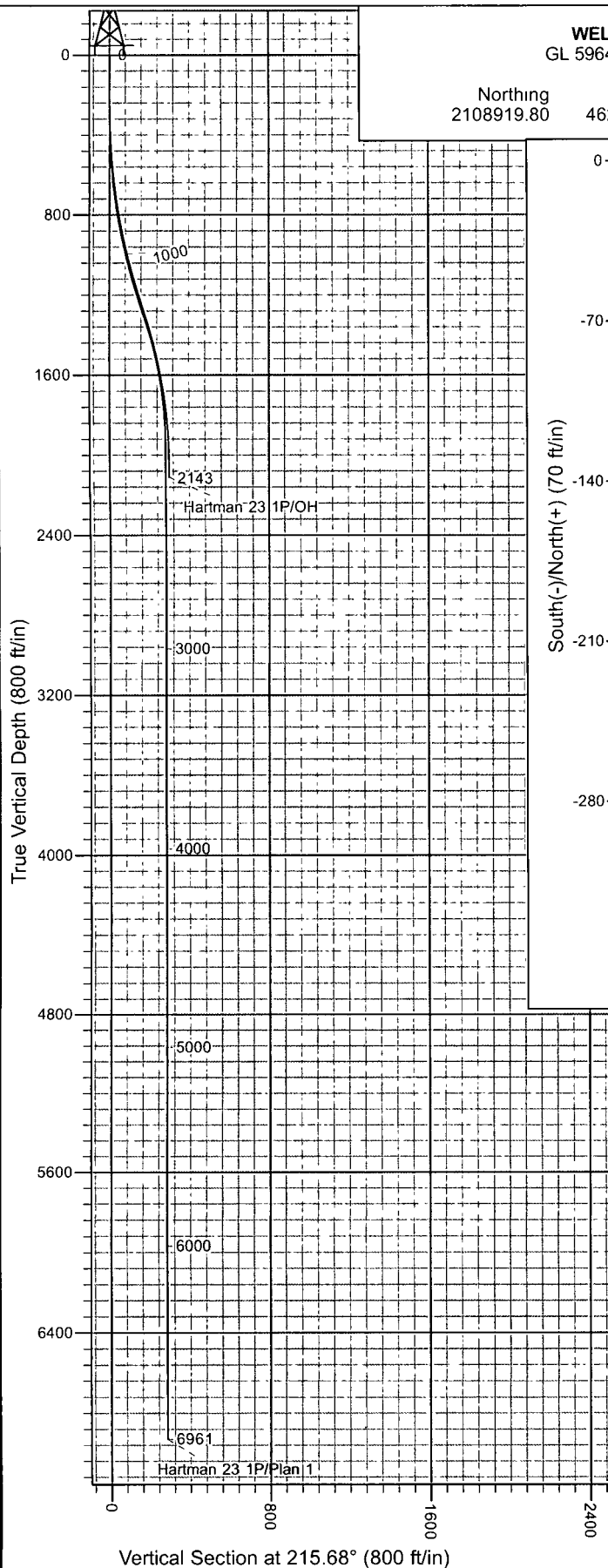
Notarized this date 10th of September, 2012.

Chrystal D. Wollerman

Notary Signature
County of Natrona
State of Wyoming



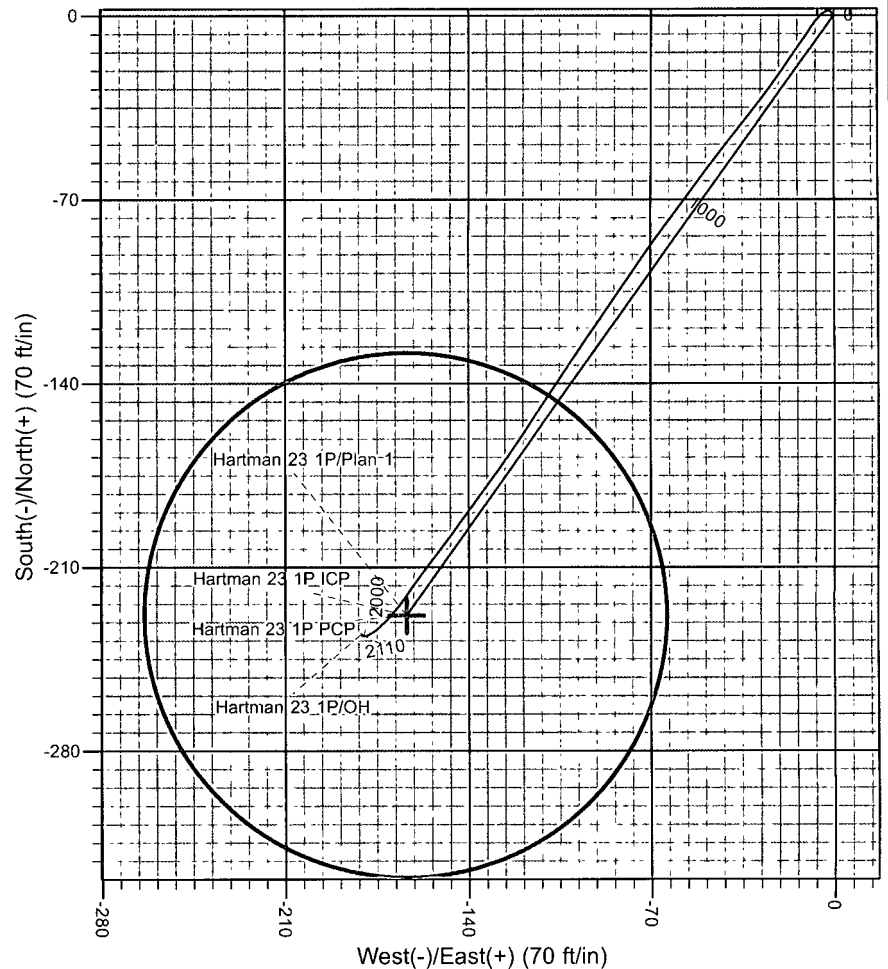
Scientific Drilling



WELL DETAILS: Hartman 23 1P
GL 5964' & KB 15' @ 5979.0ft (AWS 730)
Ground Level 5964.0

Northing 2108919.80 Easting 462400.12 Latitude 36° 47' 44.531 N Longitude 107° 57' 42.302 W

Mazimuths to True North
Magnetic North 9 87°
Magnetic Field
Strength 50572 5snT
Dip Angle 63 43°
Date 2012/09/04
Model BGGM2012



REFERENCE INFORMATION
Co-ordinate (N/E) Reference: Well Hartman 23 1P, True North
Vertical (TVD) Reference: GL 5964' & KB 15' @ 5979.0ft (AWS 730)
Section (VS) Reference: Slot - (0.0N, 0.0E)
Measured Depth Reference: GL 5964' & KB 15' @ 5979.0ft (AWS 730)
Calculation Method: Minimum Curvature

PROJECT DETAILS: SJB (NM West)
Geodetic System: US State Plane 1927 (Exact solution)
Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1866
Zone: New Mexico West 3003
System Datum: Mean Sea Level

Company:	ConocoPhillips	Local Co-ordinate Reference:	Well Hartman 23 1P
Project:	SJB (NM West)	TVD Reference:	GL 5964' & KB 15' @ 5979.0ft (AWS 730)
Site:	SEC 23-T30N-R11W	MD Reference:	GL 5964' & KB 15' @ 5979.0ft (AWS 730)
Well:	Hartman 23 1P	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 2003.21 Single User Db

Project:	SJB (NM West), San Juan County, 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)		
Map Zone:	New Mexico West 3003		Using geodetic scale factor

Site	SEC 23-T30N-R11W		
Site Position:		Northing:	2,107,888.21 ft
From:	Lat/Long	Easting:	464,432.44 ft
Position Uncertainty:	15.0 ft	Slot Radius:	6-1/8"
		Latitude:	36° 47' 34.356 N
		Longitude:	107° 57' 17.298 W
		Grid Convergence:	-0.07 °

Well	Hartman 23 1P, 1700' FSL 1927' FWL		
Well Position	+N/-S	0.0 ft	Northing: 2,108,919.80 ft
	+E/-W	0.0 ft	Easting: 462,400.12 ft
Position Uncertainty	0.0 ft	Wellhead Elevation:	ft
		Latitude:	36° 47' 44.531 N
		Longitude:	107° 57' 42.302 W
		Ground Level:	5,964.0 ft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2012	2012/09/04	9.87	63.43	50,573

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	215.68	

Survey Program	Date	2012/09/10			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
264.0	2,143.0	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	
264.0	0.91	323.37	264.0	1.7	-1.3	-0.6	0.34	0.34	0.00	
First SDI MWD Survey										
326.0	0.75	252.14	326.0	2.0	-1.9	-0.5	1.57	-0.26	-114.89	
387.0	2.05	244.01	387.0	1.4	-3.3	0.8	2.15	2.13	-13.33	
447.0	3.76	224.97	446.9	-0.5	-5.6	3.7	3.23	2.85	-31.73	
509.0	4.61	211.90	508.7	-4.1	-8.4	8.2	2.05	1.37	-21.08	
571.0	6.18	215.62	570.4	-8.9	-11.7	14.0	2.59	2.53	6.00	
629.0	6.58	214.09	628.1	-14.2	-15.3	20.5	0.75	0.69	-2.64	
690.0	7.55	213.90	688.6	-20.4	-19.5	28.0	1.59	1.59	-0.31	
751.0	8.90	216.57	749.0	-27.5	-24.6	36.7	2.30	2.21	4.38	
813.0	10.13	218.12	810.1	-35.7	-30.8	46.9	2.03	1.98	2.50	
876.0	11.59	218.59	872.0	-45.0	-38.2	58.8	2.32	2.32	0.75	

Company:	ConocoPhillips	Local Co-ordinate Reference:	Well Hartman 23 1P
Project:	SJB (NM West)	TVD Reference:	GL 5964' & KB 15' @ 5979 0ft (AWS 730)
Site:	SEC 23-T30N-R11W	MD Reference:	GL 5964' & KB 15' @ 5979 0ft (AWS 730)
Well:	Hartman 23 1P	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 2003.21 Single User Db

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)
938.0	12.66	217.27	932.6	-55.2	-46.2	71.8	1.78	1.73	-2.13
1,002.0	13.98	216.21	994.9	-67.1	-55.0	86.5	2.10	2.06	-1.66
1,065.0	15.30	216.59	1,055.9	-79.9	-64.4	102.5	2.10	2.10	0.60
1,128.0	16.76	215.26	1,116.4	-94.0	-74.6	119.9	2.39	2.32	-2.11
1,192.0	17.50	214.39	1,177.6	-109.4	-85.4	138.7	1.22	1.16	-1.36
1,255.0	17.47	214.15	1,237.7	-125.1	-96.1	157.6	0.12	-0.05	-0.38
1,319.0	17.67	213.89	1,298.7	-141.1	-106.9	176.9	0.34	0.31	-0.41
1,382.0	17.32	213.87	1,358.8	-156.8	-117.4	195.9	0.56	-0.56	-0.03
1,446.0	15.57	216.22	1,420.1	-171.7	-127.8	214.0	2.92	-2.73	3.67
1,509.0	13.69	215.96	1,481.1	-184.5	-137.2	229.9	2.99	-2.98	-0.41
1,572.0	11.69	216.67	1,542.5	-195.7	-145.4	243.7	3.18	-3.17	1.13
1,635.0	10.26	217.46	1,604.4	-205.2	-152.6	255.7	2.28	-2.27	1.25
1,699.0	9.15	216.29	1,667.5	-213.9	-159.1	266.5	1.76	-1.73	-1.83
1,762.0	7.82	214.68	1,729.8	-221.4	-164.5	275.8	2.14	-2.11	-2.56
1,825.0	6.90	221.92	1,792.3	-227.8	-169.4	283.9	2.07	-1.46	11.49
1,889.0	5.06	227.49	1,855.9	-232.5	-174.1	290.4	3.01	-2.88	8.70
1,952.0	3.14	240.79	1,918.8	-235.3	-177.7	294.7	3.38	-3.05	21.11
2,015.0	1.35	264.11	1,981.7	-236.2	-179.9	296.8	3.13	-2.84	37.02
2,079.0	0.67	321.33	2,045.7	-236.0	-180.9	297.2	1.78	-1.06	89.41
2,143.0	0.52	349.80	2,109.7	-235.4	-181.2	296.9	0.51	-0.23	44.48
Last SDI MWD Survey									

Measured Depth (ft)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Comment
264.0	264.0	1.7	-1.3	First SDI MWD Survey
2,143.0	2,109.7	-235.4	-181.2	Last SDI MWD Survey

Checked By: _____ Approved By: _____ Date: _____