

Operator BURLINGTON RESOURCES OIL & GAS COMPANY LP	Legal WellName HUBBARD #1B	API / UWI 3004535201	County SAN JUAN	State/Province NEW MEXICO
Surface Legal Location 022-032N-012W-I	N/S Dist (ft) 1,795.00	N/S Ref FSL	E/W Dist (ft) 820.00	E/W Ref FEL

Survey Data					
Date	MD (ft)	Incl (")	Method	Survey Company	
11/7/2011	128.00	0.75	Inc-Drop	MO-TE DRILLING INC.	
11/7/2011	235.00	0.75	Inc-Drop	MO-TE DRILLING INC.	
11/28/2011	327.00	0.57	IncAzi-MWD	Scientific Drilling	
11/28/2011	327.00	0.57	IncAzi-MWD	Scientific Drilling	
11/28/2011	388.00	0.54	IncAzi-MWD	Scientific Drilling	
11/28/2011	388.00	0.54	IncAzi-MWD	Scientific Drilling	
11/28/2011	418.00	0.58	IncAzi-MWD	Scientific Drilling	
11/28/2011	418.00	0.58	IncAzi-MWD	Scientific Drilling	
11/28/2011	449.00	0.33	IncAzi-MWD	Scientific Drilling	
11/28/2011	449.00	0.33	IncAzi-MWD	Scientific Drilling	
11/28/2011	480.00	0.30	IncAzi-MWD	Scientific Drilling	
11/28/2011	480.00	0.30	IncAzi-MWD	Scientific Drilling	
11/28/2011	511.00	0.54	IncAzi-MWD	Scientific Drilling	
11/28/2011	511.00	0.54	IncAzi-MWD	Scientific Drilling	
11/28/2011	541.00	0.80	IncAzi-MWD	Scientific Drilling	
11/28/2011	541.00	0.80	IncAzi-MWD	Scientific Drilling	
11/28/2011	572.00	1.15	IncAzi-MWD	Scientific Drilling	
11/28/2011	572.00	1.15	IncAzi-MWD	Scientific Drilling	
11/28/2011	602.00	1.66	IncAzi-MWD	Scientific Drilling	
11/28/2011	602.00	1.66	IncAzi-MWD	Scientific Drilling	
11/28/2011	633.00	2.04	IncAzi-MWD	Scientific Drilling	
11/28/2011	633.00	2.04	IncAzi-MWD	Scientific Drilling	
11/28/2011	664.00	2.49	IncAzi-MWD	Scientific Drilling	
11/28/2011	664.00	2.49	IncAzi-MWD	Scientific Drilling	
11/28/2011	694.00	2.79	IncAzi-MWD	Scientific Drilling	
11/28/2011	694.00	2.79	IncAzi-MWD	Scientific Drilling	
11/28/2011	725.00	3.40	IncAzi-MWD	Scientific Drilling	
11/28/2011	725.00	3.40	IncAzi-MWD	Scientific Drilling	
11/28/2011	755.00	3.99	IncAzi-MWD	Scientific Drilling	
11/28/2011	755.00	3.99	IncAzi-MWD	Scientific Drilling	
11/28/2011	786.00	4.63	IncAzi-MWD	Scientific Drilling	
11/28/2011	786.00	4.63	IncAzi-MWD	Scientific Drilling	
11/28/2011	818.00	5.18	IncAzi-MWD	Scientific Drilling	
11/28/2011	818.00	5.18	IncAzi-MWD	Scientific Drilling	
11/28/2011	849.00	5.70	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.

Al Galt

Subscribed and sworn to me this 1/9/12

Maria Jaramilla

Notary Public in and for San Juan County, New Mexico

My Commission expires 7/28/14

Survey Data

Date	MD (ftKB)	Incl.(?)	Method	Survey Company
11/28/2011	849 00	5.70	IncAzi-MWD	Scientific Drilling
11/28/2011	881.00	6 30	IncAzi-MWD	Scientific Drilling
11/28/2011	881.00	6 30	IncAzi-MWD	Scientific Drilling
11/28/2011	912.00	7.02	IncAzi-MWD	Scientific Drilling
11/28/2011	912.00	7.02	IncAzi-MWD	Scientific Drilling
11/28/2011	943 00	7.58	IncAzi-MWD	Scientific Drilling
11/28/2011	943.00	7.58	IncAzi-MWD	Scientific Drilling
11/28/2011	975.00	8.12	IncAzi-MWD	Scientific Drilling
11/28/2011	975.00	8.12	IncAzi-MWD	Scientific Drilling
11/28/2011	1,007.00	8.73	IncAzi-MWD	Scientific Drilling
11/28/2011	1,007 00	8.73	IncAzi-MWD	Scientific Drilling
11/28/2011	1,039.00	9 37	IncAzi-MWD	Scientific Drilling
11/28/2011	1,039.00	9.37	IncAzi-MWD	Scientific Drilling
11/28/2011	1,070 00	10.29	IncAzi-MWD	Scientific Drilling
11/28/2011	1,070 00	10.29	IncAzi-MWD	Scientific Drilling
11/28/2011	1,102 00	11.18	IncAzi-MWD	Scientific Drilling
11/28/2011	1,102.00	11 18	IncAzi-MWD	Scientific Drilling
11/28/2011	1,133.00	11 90	IncAzi-MWD	Scientific Drilling
11/28/2011	1,133 00	11.90	IncAzi-MWD	Scientific Drilling
11/28/2011	1,165.00	12.42	IncAzi-MWD	Scientific Drilling
11/28/2011	1,165 00	12 42	IncAzi-MWD	Scientific Drilling
11/28/2011	1,197.00	13.03	IncAzi-MWD	Scientific Drilling
11/28/2011	1,197.00	13 03	IncAzi-MWD	Scientific Drilling
11/28/2011	1,228.00	13 80	IncAzi-MWD	Scientific Drilling
11/28/2011	1,228 00	13.80	IncAzi-MWD	Scientific Drilling
11/28/2011	1,260 00	14.56	IncAzi-MWD	Scientific Drilling
11/28/2011	1,260 00	14.56	IncAzi-MWD	Scientific Drilling
11/28/2011	1,291 00	15.24	IncAzi-MWD	Scientific Drilling
11/28/2011	1,291.00	15 24	IncAzi-MWD	Scientific Drilling
11/28/2011	1,323.00	16.02	IncAzi-MWD	Scientific Drilling
11/28/2011	1,323.00	16.02	IncAzi-MWD	Scientific Drilling
11/28/2011	1,355 00	16.64	IncAzi-MWD	Scientific Drilling
11/28/2011	1,355 00	16.64	IncAzi-MWD	Scientific Drilling
11/28/2011	1,387 00	17.17	IncAzi-MWD	Scientific Drilling
11/28/2011	1,387 00	17.17	IncAzi-MWD	Scientific Drilling
11/28/2011	1,418.00	17.58	IncAzi-MWD	Scientific Drilling
11/28/2011	1,418.00	17.58	IncAzi-MWD	Scientific Drilling
11/28/2011	1,450 00	18.29	IncAzi-MWD	Scientific Drilling
11/28/2011	1,450 00	18.29	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. (°)	Method	Survey Company
11/28/2011	1,482.00	18.94	IncAzi-MWD	Scientific Drilling
11/28/2011	1,482.00	18.94	IncAzi-MWD	Scientific Drilling
11/28/2011	1,513.00	20.01	IncAzi-MWD	Scientific Drilling
11/28/2011	1,513.00	20.01	IncAzi-MWD	Scientific Drilling
11/28/2011	1,545.00	21.22	IncAzi-MWD	Scientific Drilling
11/28/2011	1,545.00	21.22	IncAzi-MWD	Scientific Drilling
11/28/2011	1,577.00	22.10	IncAzi-MWD	Scientific Drilling
11/28/2011	1,577.00	22.10	IncAzi-MWD	Scientific Drilling
11/28/2011	1,609.00	22.75	IncAzi-MWD	Scientific Drilling
11/28/2011	1,609.00	22.75	IncAzi-MWD	Scientific Drilling
11/28/2011	1,640.00	23.44	IncAzi-MWD	Scientific Drilling
11/28/2011	1,640.00	23.44	IncAzi-MWD	Scientific Drilling
12/8/2011	1,672.00	21.98	IncAzi-MWD	Scientific Drilling
11/28/2011	1,672.00	24.22	IncAzi-MWD	Scientific Drilling
12/8/2011	1,703.00	19.26	IncAzi-MWD	Scientific Drilling
11/28/2011	1,703.00	24.91	IncAzi-MWD	Scientific Drilling
12/8/2011	1,734.00	18.70	IncAzi-MWD	Scientific Drilling
11/28/2011	1,735.00	25.55	IncAzi-MWD	Scientific Drilling
12/8/2011	1,766.00	19.25	IncAzi-MWD	Scientific Drilling
11/28/2011	1,767.00	26.26	IncAzi-MWD	Scientific Drilling
12/8/2011	1,798.00	19.89	IncAzi-MWD	Scientific Drilling
11/28/2011	1,798.00	26.80	IncAzi-MWD	Scientific Drilling
11/28/2011	1,830.00	27.35	IncAzi-MWD	Scientific Drilling
12/8/2011	1,830.00	20.68	IncAzi-MWD	Scientific Drilling
12/8/2011	1,862.00	21.22	IncAzi-MWD	Scientific Drilling
11/28/2011	1,862.00	27.74	IncAzi-MWD	Scientific Drilling
12/8/2011	1,893.00	21.98	IncAzi-MWD	Scientific Drilling
12/8/2011	1,924.00	22.77	IncAzi-MWD	Scientific Drilling
11/28/2011	1,925.00	29.14	IncAzi-MWD	Scientific Drilling
12/8/2011	1,956.00	23.50	IncAzi-MWD	Scientific Drilling
11/28/2011	1,988.00	30.36	IncAzi-MWD	Scientific Drilling
12/8/2011	1,988.00	24.30	IncAzi-MWD	Scientific Drilling
12/8/2011	2,019.00	24.89	IncAzi-MWD	Scientific Drilling
12/8/2011	2,051.00	25.29	IncAzi-MWD	Scientific Drilling
11/28/2011	2,051.00	29.99	IncAzi-MWD	Scientific Drilling
12/8/2011	2,083.00	25.57	IncAzi-MWD	Scientific Drilling
12/8/2011	2,114.00	26.01	IncAzi-MWD	Scientific Drilling
11/28/2011	2,115.00	29.78	IncAzi-MWD	Scientific Drilling
12/8/2011	2,146.00	26.57	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. (°)	Method	Survey Company
11/28/2011	2,178.00	29.70	IncAzi-MWD	Scientific Drilling
12/8/2011	2,178.00	27.07	IncAzi-MWD	Scientific Drilling
12/8/2011	2,209.00	27.40	IncAzi-MWD	Scientific Drilling
12/8/2011	2,241.00	27.61	IncAzi-MWD	Scientific Drilling
11/28/2011	2,242.00	29.67	IncAzi-MWD	Scientific Drilling
12/8/2011	2,272.00	27.70	IncAzi-MWD	Scientific Drilling
12/8/2011	2,304.00	27.61	IncAzi-MWD	Scientific Drilling
11/28/2011	2,305.00	29.25	IncAzi-MWD	Scientific Drilling
12/8/2011	2,335.00	27.37	IncAzi-MWD	Scientific Drilling
12/8/2011	2,366.00	28.15	IncAzi-MWD	Scientific Drilling
11/28/2011	2,368.00	28.99	IncAzi-MWD	Scientific Drilling
12/8/2011	2,397.00	28.23	IncAzi-MWD	Scientific Drilling
12/8/2011	2,429.00	28.75	IncAzi-MWD	Scientific Drilling
11/28/2011	2,431.00	29.58	IncAzi-MWD	Scientific Drilling
12/8/2011	2,461.00	29.18	IncAzi-MWD	Scientific Drilling
12/8/2011	2,493.00	29.14	IncAzi-MWD	Scientific Drilling
11/28/2011	2,494.00	30.18	IncAzi-MWD	Scientific Drilling
12/8/2011	2,525.00	28.39	IncAzi-MWD	Scientific Drilling
12/8/2011	2,556.00	27.25	IncAzi-MWD	Scientific Drilling
11/28/2011	2,557.00	28.81	IncAzi-MWD	Scientific Drilling
12/8/2011	2,588.00	26.55	IncAzi-MWD	Scientific Drilling
12/8/2011	2,619.00	26.16	IncAzi-MWD	Scientific Drilling
11/28/2011	2,620.00	27.20	IncAzi-MWD	Scientific Drilling
12/8/2011	2,651.00	26.16	IncAzi-MWD	Scientific Drilling
11/29/2011	2,683.00	27.78	IncAzi-MWD	Scientific Drilling
12/8/2011	2,683.00	26.84	IncAzi-MWD	Scientific Drilling
12/8/2011	2,715.00	26.96	IncAzi-MWD	Scientific Drilling
12/8/2011	2,746.00	27.11	IncAzi-MWD	Scientific Drilling
11/29/2011	2,747.00	28.24	IncAzi-MWD	Scientific Drilling
12/8/2011	2,778.00	27.52	IncAzi-MWD	Scientific Drilling
12/8/2011	2,809.00	27.66	IncAzi-MWD	Scientific Drilling
11/29/2011	2,810.00	28.38	IncAzi-MWD	Scientific Drilling
12/8/2011	2,841.00	28.20	IncAzi-MWD	Scientific Drilling
12/8/2011	2,872.00	28.85	IncAzi-MWD	Scientific Drilling
11/29/2011	2,873.00	29.93	IncAzi-MWD	Scientific Drilling
12/8/2011	2,904.00	28.76	IncAzi-MWD	Scientific Drilling
12/8/2011	2,935.00	28.52	IncAzi-MWD	Scientific Drilling
11/29/2011	2,937.00	31.02	IncAzi-MWD	Scientific Drilling
12/8/2011	2,966.00	28.36	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. (°)	Method	Survey Company	
12/8/2011	2,998.00	28.17	IncAzi-MWD	Scientific Drilling	
11/29/2011	3,000.00	29.49	IncAzi-MWD	Scientific Drilling	
12/8/2011	3,030.00	27.85	IncAzi-MWD	Scientific Drilling	
12/8/2011	3,062.00	27.23	IncAzi-MWD	Scientific Drilling	
11/29/2011	3,063.00	26.76	IncAzi-MWD	Scientific Drilling	
12/8/2011	3,094.00	26.43	IncAzi-MWD	Scientific Drilling	
12/8/2011	3,125.00	25.25	IncAzi-MWD	Scientific Drilling	
11/29/2011	3,126.00	22.66	IncAzi-MWD	Scientific Drilling	
12/8/2011	3,157.00	24.26	IncAzi-MWD	Scientific Drilling	
12/8/2011	3,188.00	23.52	IncAzi-MWD	Scientific Drilling	
11/29/2011	3,189.00	20.62	IncAzi-MWD	Scientific Drilling	
12/8/2011	3,251.00	22.24	IncAzi-MWD	Scientific Drilling	
11/29/2011	3,252.00	19.40	IncAzi-MWD	Scientific Drilling	
11/29/2011	3,315.00	18.38	IncAzi-MWD	Scientific Drilling	
12/8/2011	3,315.00	20.33	IncAzi-MWD	Scientific Drilling	
12/9/2011	3,379.00	18.46	IncAzi-MWD	Scientific Drilling	
11/29/2011	3,379.00	17.27	IncAzi-MWD	Scientific Drilling	
12/9/2011	3,442.00	16.77	IncAzi-MWD	Scientific Drilling	
11/29/2011	3,442.00	15.64	IncAzi-MWD	Scientific Drilling	
11/29/2011	3,505.00	13.82	IncAzi-MWD	Scientific Drilling	
12/9/2011	3,505.00	15.21	IncAzi-MWD	Scientific Drilling	
12/9/2011	3,568.00	14.20	IncAzi-MWD	Scientific Drilling	
11/29/2011	3,569.00	12.71	IncAzi-MWD	Scientific Drilling	
12/9/2011	3,631.00	12.71	IncAzi-MWD	Scientific Drilling	
11/29/2011	3,632.00	11.64	IncAzi-MWD	Scientific Drilling	
12/9/2011	3,694.00	11.03	IncAzi-MWD	Scientific Drilling	
11/29/2011	3,695.00	10.68	IncAzi-MWD	Scientific Drilling	
12/9/2011	3,757.00	9.90	IncAzi-MWD	Scientific Drilling	
11/29/2011	3,758.00	10.20	IncAzi-MWD	Scientific Drilling	
12/9/2011	3,821.00	9.34	IncAzi-MWD	Scientific Drilling	
11/29/2011	3,822.00	9.59	IncAzi-MWD	Scientific Drilling	
12/9/2011	3,884.00	8.11	IncAzi-MWD	Scientific Drilling	
11/29/2011	3,885.00	8.95	IncAzi-MWD	Scientific Drilling	
12/9/2011	3,947.00	6.22	IncAzi-MWD	Scientific Drilling	
11/29/2011	3,948.00	7.98	IncAzi-MWD	Scientific Drilling	
12/9/2011	4,010.00	5.49	IncAzi-MWD	Scientific Drilling	
11/29/2011	4,011.00	6.92	IncAzi-MWD	Scientific Drilling	
11/29/2011	4,074.00	5.95	IncAzi-MWD	Scientific Drilling	
12/10/2011	4,074.00	4.99	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

HUBBARD #1B

Survey Data

Date	MD (ftKB)	Incl (°)	Method	Survey Company
11/29/2011	4,137.00	5.32	IncAzi-MWD	Scientific Drilling
12/10/2011	4,137.00	4.67	IncAzi-MWD	Scientific Drilling
11/29/2011	4,201.00	4.27	IncAzi-MWD	Scientific Drilling
12/10/2011	4,201.00	4.65	IncAzi-MWD	Scientific Drilling
12/10/2011	4,264.00	3.97	IncAzi-MWD	Scientific Drilling
11/29/2011	4,264.00	3.33	IncAzi-MWD	Scientific Drilling
12/10/2011	4,327.00	3.15	IncAzi-MWD	Scientific Drilling
11/29/2011	4,328.00	2.19	IncAzi-MWD	Scientific Drilling
12/10/2011	4,390.00	2.60	IncAzi-MWD	Scientific Drilling
11/29/2011	4,391.00	1.89	IncAzi-MWD	Scientific Drilling
12/10/2011	4,453.00	2.63	IncAzi-MWD	Scientific Drilling
11/29/2011	4,454.00	1.44	IncAzi-MWD	Scientific Drilling
12/10/2011	4,516.00	2.68	IncAzi-MWD	Scientific Drilling
11/29/2011	4,518.00	1.45	IncAzi-MWD	Scientific Drilling
12/10/2011	4,577.00	2.46	IncAzi-MWD	Scientific Drilling
11/30/2011	4,582.00	1.52	IncAzi-MWD	Scientific Drilling
12/10/2011	4,637.00	2.24	Projection	Scientific Drilling
11/30/2011	4,643.00	1.37	IncAzi-MWD	Scientific Drilling
11/30/2011	4,700.00	1.23	Projection	Scientific Drilling
12/11/2011	4,954.00	3.00	Inc-Drop	Aztec Well Servicing Co Inc
12/21/2011	7,582.00	2.00	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 22-T32N-R12W
Hubbard #1B

OH

Design: OH

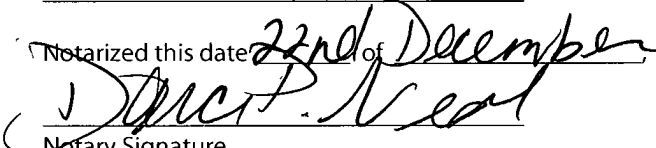
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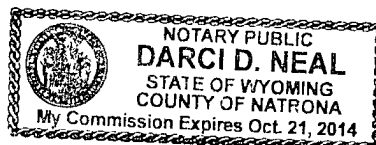
Standard Survey Report

22 December, 2011

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

Notarized this date 22nd December 2011.


Notary Signature
County of Natrona
State of Wyoming



Scientific Drilling

Survey Report

Company:	ConocoPhillips	Local Co-ordinate Reference:	Well Hubbard #1B
Project:	SJB (NM West)	TVD Reference:	GL 6222' & KB 15' @ 6237.0ft (AWS 730)
Site:	SEC 22-T32N-R12W	MD Reference:	GL 6222' & KB 15' @ 6237.0ft (AWS 730)
Well:	Hubbard #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 22-T32N-R12W		
Site Position:		Northing:	2,172,183.90 ft
From:	Lat/Long	Easting:	429,123.22 ft
Position Uncertainty:	0.0 ft	Slot Radius:	"
		Latitude:	36° 58' 9.486 N
		Longitude:	108° 4' 33.426 W
		Grid Convergence:	-0.15 °

Well:	Hubbard #1B, 1795' FSL 820' FEL		
Well Position	+N/-S	0.0 ft	Northing:
	+E/-W	0.0 ft	Easting:
Position Uncertainty	0.0 ft	Wellhead Elevation:	ft
		Latitude:	36° 58' 9.486 N
		Longitude:	108° 4' 33.426 W
		Ground Level:	6,222.0 ft

Wellbore:	OH		
Magnetics	Model Name	Sample Date	Declination (°)
	BGGM2011	2011/11/27	10.00
			Dip Angle (°)
			63.59
			Field Strength (nT)
			50,753

Design:	OH		
Audit Notes:			
Version:	1.0	Phase:	ACTUAL
		Tie On Depth:	0.0
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W
	(ft)	(ft)	(ft)
	0.0	0.0	0.0
			Direction (°)
			302.21

Survey Program	Date: 2011/12/22		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name
327.0	4,643.0	Survey #1 (OH)	MWD SDI
			Description
			MWD - Standard ver 1.0.1

Survey			
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)
0.0	0.00	0.00	0.0
327.0	0.57	138.33	327.0
First SDI MWD Survey			
388.0	0.54	140.88	388.0
418.0	0.58	144.13	418.0
449.0	0.33	172.84	449.0
480.0	0.30	209.94	480.0
511.0	0.54	263.38	511.0
541.0	0.80	273.40	541.0
572.0	1.15	292.12	572.0
602.0	1.66	290.62	602.0
633.0	2.04	293.71	633.0
664.0	2.49	303.14	663.9
694.0	2.79	306.19	693.9
			+N/-S (ft)
			+E/-W (ft)
			Vertical Section (ft)
			Dogleg Rate (°/100ft)
			Build Rate (°/100ft)
			Turn Rate (°/100ft)
			0.0
			0.00
			4.18
			10.83
			92.61
			119.68
			172.39
			33.40
			60.39
			-5.00
			9.97
			30.42
			10.17

Scientific Drilling

Survey Report

Company:	ConocoPhillips	Local Co-ordinate Reference:	Well Hubbard #1B
Project:	SJB (NM West)	TVD Reference:	GL 6222' & KB 15' @ 6237 0ft (AWS 730)
Site:	SEC 22-T32N-R12W	MD Reference:	GL 6222' & KB 15' @ 6237 0ft (AWS 730)
Well:	Hubbard #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)	
725.0	3.40	310.63	724.9	0.8	-4.4	4.2	2.11	1.97	14.32	
755.0	3.99	308.12	754.8	2.1	-5.9	6.1	2.04	1.97	-8.37	
786.0	4.63	308.65	785.7	3.5	-7.8	8.4	2.07	2.06	1.71	
818.0	5.18	305.93	817.6	5.2	-9.9	11.2	1.87	1.72	-8.50	
849.0	5.70	305.29	848.4	6.9	-12.3	14.1	1.69	1.68	-2.06	
881.0	6.30	304.38	880.3	8.8	-15.1	17.4	1.90	1.88	-2.84	
912.0	7.02	303.87	911.1	10.8	-18.1	21.0	2.33	2.32	-1.65	
943.0	7.58	302.86	941.8	13.0	-21.3	25.0	1.85	1.81	-3.26	
975.0	8.12	301.62	973.5	15.3	-25.0	29.3	1.77	1.69	-3.88	
1,007.0	8.73	302.44	1,005.2	17.8	-29.0	34.0	1.94	1.91	2.56	
1,039.0	9.37	303.19	1,036.8	20.5	-33.2	39.1	2.03	2.00	2.34	
1,070.0	10.29	303.30	1,067.3	23.4	-37.7	44.4	2.97	2.97	0.35	
1,102.0	11.18	305.12	1,098.8	26.8	-42.6	50.3	2.98	2.78	5.69	
1,133.0	11.90	306.46	1,129.1	30.4	-47.6	56.5	2.48	2.32	4.32	
1,165.0	12.42	307.53	1,160.4	34.4	-53.0	63.2	1.77	1.63	3.34	
1,197.0	13.03	307.61	1,191.6	38.7	-58.6	70.2	1.91	1.91	0.25	
1,228.0	13.80	308.33	1,221.8	43.2	-64.3	77.4	2.54	2.48	2.32	
1,260.0	14.56	309.17	1,252.8	48.1	-70.4	85.2	2.46	2.38	2.63	
1,291.0	15.24	308.30	1,282.8	53.1	-76.6	93.1	2.31	2.19	-2.81	
1,323.0	16.02	308.92	1,313.6	58.4	-83.3	101.7	2.49	2.44	1.94	
1,355.0	16.64	308.36	1,344.3	64.1	-90.4	110.6	2.00	1.94	-1.75	
1,387.0	17.17	308.63	1,374.9	69.9	-97.6	119.9	1.67	1.66	0.84	
1,418.0	17.58	307.83	1,404.5	75.6	-104.9	129.1	1.53	1.32	-2.58	
1,450.0	18.29	306.70	1,434.9	81.5	-112.8	138.9	2.47	2.22	-3.53	
1,482.0	18.94	304.78	1,465.3	87.5	-121.1	149.1	2.79	2.03	-6.00	
1,513.0	20.01	303.03	1,494.5	93.3	-129.6	159.4	3.93	3.45	-5.65	
1,545.0	21.22	302.45	1,524.4	99.4	-139.1	170.7	3.83	3.78	-1.81	
1,577.0	22.10	301.99	1,554.2	105.7	-149.1	182.5	2.80	2.75	-1.44	
1,609.0	22.75	301.96	1,583.8	112.1	-159.5	194.7	2.03	2.03	-0.09	
1,640.0	23.44	302.25	1,612.3	118.6	-169.8	206.8	2.26	2.23	0.94	
1,672.0	24.22	302.45	1,641.5	125.5	-180.7	219.8	2.45	2.44	0.63	
1,703.0	24.91	302.59	1,669.7	132.4	-191.5	232.7	2.23	2.23	0.45	
1,735.0	25.55	302.63	1,698.7	139.8	-203.0	246.3	2.00	2.00	0.13	
1,767.0	26.26	303.13	1,727.5	147.4	-214.8	260.3	2.32	2.22	1.56	
1,798.0	26.80	302.87	1,755.2	154.9	-226.4	274.1	1.78	1.74	-0.84	
1,830.0	27.35	303.69	1,783.7	162.9	-238.6	288.7	2.08	1.72	2.56	
1,862.0	27.74	303.87	1,812.1	171.1	-250.9	303.5	1.25	1.22	0.56	
1,925.0	29.14	303.93	1,867.5	187.9	-275.8	333.5	2.22	2.22	0.10	
1,988.0	30.36	303.41	1,922.2	205.2	-301.8	364.7	1.98	1.94	-0.83	
2,051.0	29.99	302.37	1,976.6	222.4	-328.4	396.4	1.02	-0.59	-1.65	
2,115.0	29.78	301.10	2,032.1	239.2	-355.5	428.3	1.04	-0.33	-1.98	
2,178.0	29.70	301.14	2,086.8	255.3	-382.2	459.5	0.13	-0.13	0.06	
2,242.0	29.67	302.24	2,142.4	272.0	-409.2	491.2	0.85	-0.05	1.72	
2,305.0	29.25	302.36	2,197.3	288.5	-435.4	522.2	0.67	-0.67	0.19	
2,368.0	28.99	302.56	2,252.3	305.0	-461.3	552.8	0.44	-0.41	0.32	
2,431.0	29.58	304.99	2,307.3	322.1	-486.9	583.6	2.11	0.94	3.86	
2,494.0	30.18	304.94	2,361.9	340.1	-512.6	615.0	0.95	0.95	-0.08	
2,557.0	28.81	303.73	2,416.7	357.6	-538.2	646.0	2.37	-2.17	-1.92	
2,620.0	27.20	302.47	2,472.3	373.8	-563.0	675.6	2.72	-2.56	-2.00	
2,683.0	27.78	303.91	2,528.2	389.7	-587.3	704.6	1.40	0.92	2.29	
2,747.0	28.24	306.02	2,584.7	406.9	-611.9	734.7	1.71	0.72	3.30	
2,810.0	28.38	306.62	2,640.2	424.6	-636.0	764.5	0.50	0.22	0.95	
2,873.0	29.93	306.88	2,695.2	443.0	-660.6	795.0	2.47	2.46	0.41	
2,937.0	31.02	306.25	2,750.4	462.3	-686.7	827.4	1.77	1.70	-0.98	
3,000.0	29.49	305.67	2,804.8	480.9	-712.4	859.1	2.47	-2.43	-0.92	

Scientific Drilling

Survey Report

Company:	ConocoPhillips	Local Co-ordinate Reference:	Well Hubbard #1B
Project:	SJB (NM West)	TVD Reference:	GL 6222' & KB 15' @ 6237.0ft (AWS 730)
Site:	SEC 22-T32N-R12W	MD Reference:	GL 6222' & KB 15' @ 6237 0ft (AWS 730)
Well:	Hubbard #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)
3,063.0	26.76	305.98	2,860.3	498.3	-736.4	888.7	4.34	-4.33	0.49
3,126.0	22.66	305.51	2,917.6	513.7	-757.8	915.0	6.52	-6.51	-0.75
3,189.0	20.62	303.65	2,976.1	526.9	-776.9	938.2	3.42	-3.24	-2.95
3,252.0	19.40	302.23	3,035.3	538.6	-795.0	959.8	2.08	-1.94	-2.25
3,315.0	18.38	300.43	3,094.9	549.2	-812.4	980.2	1.86	-1.62	-2.86
3,379.0	17.27	299.80	3,155.8	559.1	-829.4	999.7	1.76	-1.73	-0.98
3,442.0	15.64	299.38	3,216.3	567.9	-844.9	1,017.6	2.59	-2.59	-0.67
3,505.0	13.82	297.12	3,277.2	575.5	-859.0	1,033.5	3.03	-2.89	-3.59
3,569.0	12.71	296.28	3,339.5	582.1	-872.1	1,048.2	1.76	-1.73	-1.31
3,632.0	11.64	293.57	3,401.1	587.7	-884.1	1,061.3	1.93	-1.70	-4.30
3,695.0	10.68	291.42	3,462.9	592.4	-895.4	1,073.3	1.66	-1.52	-3.41
3,758.0	10.20	289.51	3,524.8	596.4	-906.1	1,084.5	0.94	-0.76	-3.03
3,822.0	9.59	289.43	3,587.9	600.0	-916.5	1,095.3	0.95	-0.95	-0.13
3,885.0	8.95	287.23	3,650.1	603.2	-926.1	1,105.1	1.16	-1.02	-3.49
3,948.0	7.98	288.44	3,712.4	606.1	-934.9	1,114.1	1.57	-1.54	1.92
4,011.0	6.92	282.40	3,774.8	608.3	-942.8	1,121.9	2.09	-1.68	-9.59
4,074.0	5.95	276.37	3,837.4	609.4	-949.7	1,128.4	1.87	-1.54	-9.57
4,137.0	5.32	275.96	3,900.1	610.1	-955.9	1,134.0	1.00	-1.00	-0.65
4,201.0	4.27	278.68	3,963.9	610.8	-961.2	1,138.8	1.68	-1.64	4.25
4,264.0	3.33	290.09	4,026.8	611.8	-965.2	1,142.8	1.91	-1.49	18.11
4,328.0	2.19	292.31	4,090.7	612.9	-968.1	1,145.8	1.79	-1.78	3.47
4,391.0	1.89	297.46	4,153.7	613.8	-970.1	1,148.0	0.56	-0.48	8.17
4,454.0	1.44	288.12	4,216.6	614.5	-971.8	1,149.8	0.83	-0.71	-14.83
4,518.0	1.45	282.00	4,280.6	614.9	-973.4	1,151.3	0.24	0.02	-9.56
4,582.0	1.52	284.02	4,344.6	615.3	-975.0	1,152.9	0.14	0.11	3.16
4,643.0	1.37	281.64	4,405.6	615.7	-976.5	1,154.4	0.26	-0.25	-3.90
Last SDI MWD Survey									

Design Annotations				
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
327.0	327.0	-1.2	1.1	First SDI MWD Survey
4,643.0	4,405.6	615.7	-976.5	Last SDI MWD Survey

Checked By: _____	Approved By: _____	Date: _____
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RCVD JAN 11 '12

OIL CONS. DIV.

DIST. 3

ConocoPhillips

SJB (NM West)
SEC 22-T32N-R12W
Hubbard #1B

ST OHST 4

Survey: Survey #1

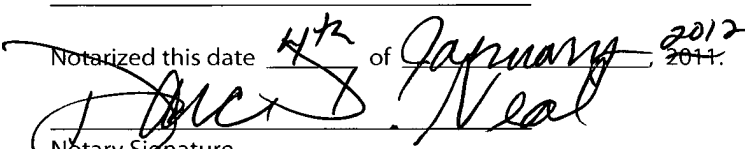
AP 1 # 3004535201

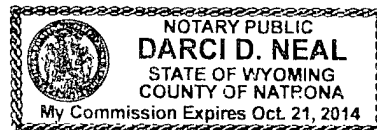
Standard Survey Report

03 January, 2012

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

Notarized this date 4th of January, 2012


Notary Signature
County of Natrona
State of Wyoming



Company:	ConocoPhillips	Local Co-ordinate Reference:	Well Hubbard #1B
Project:	SJB.(NM West)	TVD Reference:	GL 6222' & KB 15' @ 6237.0ft (AWS 730)
Site:	SEC 22-T32N-R12W	MD Reference:	GL 6222' & KB 15' @ 6237.0ft (AWS 730)
Well:	Hubbard #1B	North Reference:	True
Wellbore:	ST	Survey Calculation Method:	Minimum Curvature
Design:	ST	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 22-T32N-R12W		
Site Position:		Northing:	2,172,183.90 ft
From:	Lat/Long	Easting:	429,123.22 ft
Position Uncertainty:	0.0 ft	Slot Radius:	"
		Latitude:	36° 58' 9.486 N
		Longitude:	108° 4' 33.426 W
		Grid Convergence:	-0.15 °

Well:	Hubbard #1B, 1795' FSL 820' FEL		
Well Position	+N/-S	0.0 ft	Northing: 2,172,183.90 ft
	+E/-W	0.0 ft	Easting: 429,123.22 ft
Position Uncertainty	0.0 ft	Wellhead Elevation:	ft
		Latitude:	36° 58' 9.486 N
		Longitude:	108° 4' 33.426 W
		Ground Level:	6,222.0 ft

Wellbore:	ST				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2011	11/27/11	10.00	63.59	50,753

Design:	ST			
Audit Notes:				
Version:	1.0	Phase:	ACTUAL	Tie On Depth: 1,640.0
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.0	0.0	0.0	301.12

Survey Program	Date	01/03/12		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
327.0	1,640.0	Survey #1 (OH)	MWD SDI	MWD - Standard ver 1.0.1
1,670.0	4,577.0	Survey #1 (ST)	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)
1,640.0	23.44	302.25	1,612.3	118.6	-169.8	206.6	0.00	0.00	0.00
TIP									
1,666.0	22.17	301.73	1,636.2	123.9	-178.3	216.7	4.93	-4.87	-1.98
KOP									
1,670.0	21.98	301.65	1,639.9	124.7	-179.6	218.2	4.93	-4.86	-2.11
First SDI MWD Survey									
1,703.0	19.26	301.88	1,670.8	130.8	-189.5	229.8	8.25	-8.24	0.70
1,734.0	18.70	302.21	1,700.1	136.2	-198.0	239.9	1.84	-1.81	1.06
1,766.0	19.25	302.96	1,730.4	141.8	-206.8	250.3	1.88	1.72	2.34
1,798.0	19.89	303.61	1,760.6	147.7	-215.7	261.0	2.11	2.00	2.03
1,830.0	20.68	304.17	1,790.6	153.9	-224.9	272.1	2.54	2.47	1.75
1,862.0	21.22	303.46	1,820.5	160.2	-234.5	283.5	1.86	1.69	-2.22
1,893.0	21.98	303.54	1,849.3	166.5	-244.0	294.9	2.45	2.45	0.26

Company:	ConocoPhillips	Local Co-ordinate Reference:	Well Hubbard #1B
Project:	SJB (NM West)	TVD Reference:	GL 6222' & KB 15' @ 6237.0ft (AWS 730)
Site:	SEC 22-T32N-R12W	MD Reference:	GL 6222' & KB 15' @ 6237.0ft (AWS 730)
Well:	Hubbard #1B	North Reference:	True
Wellbore:	ST	Survey Calculation Method:	Minimum Curvature
Design:	ST	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)
1,924.0	22.77	304.10	1,877.9	173.1	-253.8	306.7	2.64	2.55	1.81
1,956.0	23.50	304.90	1,907.4	180.2	-264.1	319.3	2.48	2.28	2.50
1,988.0	24.30	305.46	1,936.6	187.7	-274.7	332.2	2.60	2.50	1.75
2,019.0	24.89	305.30	1,964.8	195.2	-285.2	345.1	1.92	1.90	-0.52
2,051.0	25.29	305.38	1,993.8	203.0	-296.3	358.6	1.25	1.25	0.25
2,083.0	25.57	305.97	2,022.7	211.0	-307.5	372.3	1.18	0.88	1.84
2,114.0	26.01	306.44	2,050.6	219.0	-318.4	385.7	1.57	1.42	1.52
2,146.0	26.57	306.01	2,079.3	227.4	-329.8	399.8	1.85	1.75	-1.34
2,178.0	27.07	305.49	2,107.8	235.8	-341.5	414.2	1.73	1.56	-1.63
2,209.0	27.40	305.81	2,135.4	244.1	-353.0	428.4	1.16	1.06	1.03
2,241.0	27.61	306.19	2,163.8	252.8	-365.0	443.1	0.86	0.66	1.19
2,272.0	27.70	306.92	2,191.3	261.3	-376.6	457.4	1.13	0.29	2.35
2,304.0	27.61	306.15	2,219.6	270.2	-388.5	472.2	1.15	-0.28	-2.41
2,335.0	27.37	305.40	2,247.1	278.5	-400.1	486.5	1.36	-0.77	-2.42
2,366.0	28.15	305.64	2,274.5	286.9	-411.8	500.9	2.54	2.52	0.77
2,397.0	28.23	304.91	2,301.9	295.4	-423.8	515.5	1.14	0.26	-2.35
2,429.0	28.75	305.53	2,330.0	304.2	-436.3	530.7	1.87	1.63	1.94
2,461.0	29.18	304.67	2,358.0	313.1	-449.0	546.2	1.87	1.34	-2.69
2,493.0	29.14	304.46	2,385.9	321.9	-461.8	561.7	0.34	-0.13	-0.66
2,525.0	28.39	303.37	2,414.0	330.5	-474.6	577.1	2.86	-2.34	-3.41
2,556.0	27.25	302.45	2,441.4	338.4	-486.7	591.6	3.93	-3.68	-2.97
2,588.0	26.55	301.64	2,469.9	346.1	-499.0	606.0	2.47	-2.19	-2.53
2,619.0	26.16	301.49	2,497.7	353.3	-510.7	619.8	1.28	-1.26	-0.48
2,651.0	26.16	301.21	2,526.4	360.6	-522.8	633.9	0.39	0.00	-0.88
2,683.0	26.84	301.75	2,555.1	368.1	-534.9	648.2	2.25	2.13	1.69
2,715.0	26.96	302.83	2,583.6	375.8	-547.2	662.7	1.57	0.38	3.38
2,746.0	27.11	303.26	2,611.2	383.5	-559.0	676.7	0.79	0.48	1.39
2,778.0	27.52	304.13	2,639.6	391.6	-571.2	691.4	1.79	1.28	2.72
2,809.0	27.66	304.45	2,667.1	399.7	-583.1	705.7	0.66	0.45	1.03
2,841.0	28.20	304.29	2,695.4	408.2	-595.4	720.7	1.70	1.69	-0.50
2,872.0	28.85	304.37	2,722.6	416.5	-607.7	735.5	2.10	2.10	0.26
2,904.0	28.76	304.45	2,750.7	425.2	-620.4	750.9	0.31	-0.28	0.25
2,935.0	28.52	304.14	2,777.9	433.6	-632.7	765.7	0.91	-0.77	-1.00
2,966.0	28.36	303.48	2,805.1	441.8	-644.9	780.5	1.14	-0.52	-2.13
2,998.0	28.17	303.27	2,833.3	450.2	-657.6	795.6	0.67	-0.59	-0.66
3,030.0	27.85	303.05	2,861.6	458.4	-670.2	810.6	1.05	-1.00	-0.69
3,062.0	27.23	302.32	2,889.9	466.4	-682.6	825.4	2.21	-1.94	-2.28
3,094.0	26.43	301.56	2,918.5	474.0	-694.9	839.9	2.72	-2.50	-2.38
3,125.0	25.25	300.54	2,946.4	481.0	-706.4	853.4	4.07	-3.81	-3.29
3,157.0	24.26	299.41	2,975.5	487.7	-718.0	866.8	3.43	-3.09	-3.53
3,188.0	23.52	298.58	3,003.8	493.8	-729.0	879.3	2.62	-2.39	-2.68
3,251.0	22.24	296.46	3,061.8	505.1	-750.7	903.7	2.42	-2.03	-3.37
3,315.0	20.33	294.49	3,121.5	515.1	-771.7	926.9	3.19	-2.98	-3.08
3,379.0	18.46	292.34	3,181.8	523.6	-791.2	947.9	3.13	-2.92	-3.36
3,442.0	16.77	289.79	3,241.9	530.4	-809.0	966.7	2.95	-2.68	-4.05
3,505.0	15.21	286.80	3,302.5	535.9	-825.4	983.6	2.80	-2.48	-4.75
3,568.0	14.20	287.80	3,363.4	540.7	-840.7	999.1	1.65	-1.60	1.59
3,631.0	12.71	286.82	3,424.7	545.0	-854.7	1,013.4	2.39	-2.37	-1.56
3,694.0	11.03	287.37	3,486.3	548.8	-867.1	1,026.0	2.67	-2.67	0.87
3,757.0	9.90	289.13	3,548.3	552.4	-878.0	1,037.1	1.86	-1.79	2.79
3,821.0	9.34	288.60	3,611.4	555.9	-888.1	1,047.6	0.89	-0.88	-0.83
3,884.0	8.11	286.88	3,673.6	558.8	-897.2	1,056.9	2.00	-1.95	-2.73
3,947.0	6.22	285.20	3,736.1	561.0	-904.7	1,064.4	3.02	-3.00	-2.67
4,010.0	5.49	283.93	3,798.8	562.6	-910.9	1,070.6	1.18	-1.16	-2.02
4,074.0	4.99	282.73	3,862.5	563.9	-916.6	1,076.2	0.80	-0.78	-1.88

Company:	ConocoPhillips	Local Co-ordinate Reference:	Well Hubbard #1B
Project:	SJB (NM West)	TVD Reference:	GL 6222' & KB 15' @ 6237.0ft (AWS 730)
Site:	SEC 22-T32N-R12W	MD Reference:	GL 6222' & KB 15' @ 6237.0ft (AWS 730)
Well:	Hubbard #1B	North Reference:	True
Wellbore:	ST	Survey Calculation Method:	Minimum Curvature
Design:	ST	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)
4,137.0	4.67	281.28	3,925.3	565.0	-921.8	1,081.2	0.54	-0.51	-2.30
4,201.0	4.65	281.51	3,989.1	566.1	-926.9	1,086.1	0.04	-0.03	0.36
4,264.0	3.97	285.64	4,051.9	567.2	-931.5	1,090.6	1.19	-1.08	6.56
4,327.0	3.15	289.63	4,114.8	568.3	-935.2	1,094.4	1.36	-1.30	6.33
4,390.0	2.60	286.08	4,177.7	569.3	-938.2	1,097.5	0.92	-0.87	-5.63
4,453.0	2.63	286.00	4,240.7	570.1	-941.0	1,100.2	0.05	0.05	-0.13
4,516.0	2.68	283.77	4,303.6	570.9	-943.8	1,103.0	0.18	0.08	-3.54
4,577.0	2.46	279.31	4,364.5	571.4	-946.5	1,105.6	0.49	-0.36	-7.31
Last SDI MWD Survey									

Survey Annotations				
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
1,640.0	1,612.3	118.6	-169.8	TIP
1,666.0	1,636.2	123.9	-178.3	KOP
1,670.0	1,639.9	124.7	-179.6	First SDI MWD Survey
4,577.0	4,364.5	571.4	-946.5	Last SDI MWD Survey

Checked By: _____	Approved By: _____	Date: _____
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