

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) 334-8170

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

OIL CONSERVATION DIVISION

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

Form C-102

Revised August 1, 2011

Submit one copy to appropriate

District Office

AS DRILLED PLAT

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-045-35364	² Pool Code 71599 / 72319	³ Pool Name BLANCO BASIN DAKOTA / MESA VERDE
⁴ Property Code 31748	⁵ Property Name HEATON LS	⁶ Well Number 3M
⁷ GRID No. 217817	⁸ Operator Name CONOCOPHILLIPS COMPANY	⁹ Elevation 5822

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
D	32	31 N	11 W		721	NORTH	1221	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
D	32	31 N	11 W		910	NORTH	1184	WEST	SAN JUAN

¹² Dedicated Acres 320 (N/2) DK 320 (W/2) MV	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No. RCVD SEP 18 '12 OIL CONS. DIV.
---	-------------------------------	----------------------------------	--

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**

18 N 89°51'09" W 1221' 1184' 910' 721' 2553.38' N 89°53'46" W 2558.17' 2652.55' N 00°16'06" W 2627.88' N 00°12'53" W 2584.75'	SURFACE LAT: 36.8608038° N LONG: 108.0184927° W NAD 83 LAT: 36°51.64803' N LONG: 108°01.07211' W NAD 27 USA-SF 078097 STATE OF NEW MEXICO E-397-2	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> 9/14/12 Signature Date Tamra Sessions Printed Name tamra.d.sessions@conocophillips.com E-mail Address
2637.10' N 1°09'58" E 2657.52' S 89°59'28" W FEE USA-SF 078097 CONVERGENCE AT SURFACE LOCATION G.N.=GRID NORTH T.N.=TRUE NORTH -00°06'40"	SECTION 32 BEARINGS & DISTANCES SHOWN ARE REFERENCED TO THE NEW MEXICO COORDINATE SYSTEM, WEST ZONE, NAD 83, UNLESS OTHERWISE NOTED. LEGEND: ○ = SURFACE LOCATION ● = BOTTOM HOLE LOCATION ⊕ = FOUND 1953 B.L.M. BRASS CAP	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. 7/29/12 Date of Survey WILLIAM W. LINDEN Signature and Seal of Professional Surveyor 17078 Certificate Number

Operator CONOCOPHILLIPS COMPANY	Legal WellName HEATON LS #3M	API / UWI 3004535364	County SAN JUAN	State/Province NEW MEXICO
Surface Legal Location 032-031N-011W-D	N/S Dist (ft) 721.00	N/S Ref FNL	E/W Dist (ft) 1,221.00	E/W Ref FWL

Date	MD (ft)	Incl (°)	Azm (°)	Method	Survey Company
7/27/2012	130.00	1.00		Inc-WL	Mo Te Drilling Inc
7/27/2012	236.00	1.50		Inc-WL	Mo Te Drilling Inc
8/8/2012	271.00	1.48	336.99	IncAzi-MWD	
8/8/2012	332.00	1.06	341.93	IncAzi-MWD	
8/8/2012	394.00	0.05	189.40	IncAzi-MWD	
8/8/2012	455.00	1.07	179.78	IncAzi-MWD	
8/8/2012	516.00	2.57	182.02	IncAzi-MWD	
8/8/2012	577.00	3.82	185.77	IncAzi-MWD	
8/8/2012	639.00	5.01	186.97	IncAzi-MWD	
8/8/2012	699.00	6.03	184.76	IncAzi-MWD	
8/8/2012	760.00	6.54	186.37	IncAzi-MWD	
8/8/2012	821.00	6.57	189.02	IncAzi-MWD	
8/8/2012	885.00	6.77	179.29	IncAzi-MWD	
8/8/2012	947.00	6.65	176.68	IncAzi-MWD	
8/8/2012	1,011.00	6.82	178.08	IncAzi-MWD	
8/8/2012	1,074.00	7.19	179.53	IncAzi-MWD	
8/8/2012	1,137.00	6.70	181.31	IncAzi-MWD	
8/8/2012	1,200.00	5.79	188.36	IncAzi-MWD	
8/8/2012	1,263.00	5.76	190.85	IncAzi-MWD	
8/8/2012	1,326.00	6.09	187.63	IncAzi-MWD	
8/8/2012	1,389.00	6.58	185.50	IncAzi-MWD	
8/8/2012	1,453.00	6.81	187.84	IncAzi-MWD	
8/9/2012	1,516.00	7.47	187.80	IncAzi-MWD	
8/9/2012	1,579.00	7.37	189.48	IncAzi-MWD	
8/9/2012	1,641.00	7.04	189.44	IncAzi-MWD	
8/9/2012	1,704.00	6.75	186.21	IncAzi-MWD	
8/9/2012	1,767.00	6.27	182.74	IncAzi-MWD	
8/9/2012	1,830.00	4.71	182.16	IncAzi-MWD	
8/9/2012	1,894.00	3.34	182.59	IncAzi-MWD	
8/9/2012	1,957.00	1.91	189.16	IncAzi-MWD	
8/9/2012	2,020.00	2.00	186.91	IncAzi-MWD	
8/9/2012	2,083.00	1.91	189.47	IncAzi-MWD	
8/9/2012	2,147.00	1.95	191.35	IncAzi-MWD	
8/9/2012	2,210.00	1.80	191.85	IncAzi-MWD	
8/9/2012	2,273.00	1.71	203.32	IncAzi-MWD	
8/9/2012	2,336.00	1.80	205.83	IncAzi-MWD	

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
8/9/2012	2,399.00	2.11	208.34	IncAzi-MWD	
8/9/2012	2,462.00	1.95	210.19	IncAzi-MWD	
8/9/2012	2,525.00	1.65	210.76	IncAzi-MWD	
8/9/2012	2,589.00	1.10	209.26	IncAzi-MWD	
8/9/2012	2,652.00	1.06	205.39	IncAzi-MWD	
8/9/2012	2,716.00	0.92	207.39	IncAzi-MWD	
8/9/2012	2,779.00	1.08	217.25	IncAzi-MWD	
8/9/2012	2,842.00	1.22	206.69	IncAzi-MWD	
8/9/2012	2,905.00	1.03	201.90	IncAzi-MWD	
8/9/2012	2,968.00	1.16	215.03	IncAzi-MWD	
8/9/2012	3,031.00	1.30	205.21	IncAzi-MWD	
8/9/2012	3,094.00	0.97	226.32	IncAzi-MWD	
8/9/2012	3,158.00	0.90	211.60	IncAzi-MWD	
8/9/2012	3,221.00	0.89	213.38	IncAzi-MWD	
8/9/2012	3,285.00	0.92	224.03	IncAzi-MWD	
8/9/2012	3,348.00	1.03	227.09	IncAzi-MWD	
8/9/2012	3,410.00	1.27	215.90	IncAzi-MWD	
8/9/2012	3,474.00	1.55	221.70	IncAzi-MWD	
8/9/2012	3,537.00	1.21	225.94	IncAzi-MWD	
8/9/2012	3,600.00	1.27	223.95	IncAzi-MWD	
8/9/2012	3,663.00	1.21	215.22	IncAzi-MWD	
8/9/2012	3,723.00	1.45	213.77	IncAzi-MWD	
8/10/2012	3,790.00	1.52	209.65	IncAzi-MWD	
8/10/2012	3,853.00	1.70	200.96	IncAzi-MWD	
8/10/2012	3,902.00	1.59	212.01	IncAzi-MWD	
8/10/2012	3,957.00	1.47	224.21	Projection	
8/12/2012	4,271.00	1.00	224.21	Inc-Drop	
8/12/2012	4,295.00	1.00	224.21	Projection	
8/17/2012	6,869.00	0.75		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.

Corey B. Lewis

Subscribed and sworn to me this 9/6/12

Maria E. Jaramello

Notary Public in and for San Juan County, New Mexico

My Commission expires 7/28/14



RCVD SEP 18 '12

OIL CONS. DIV.

DIST. 3

ConocoPhillips

SJB (NM West)

SEC 32-T31N-R11W

Heaton LS 3M

OH

Design: OH

Standard Survey Report

17 August, 2012

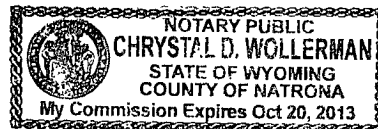
This survey is correct to the best of my knowledge and is supported by actual field data.

Carla Blair

Notarized this date 17th of August, 2012.

Chrystal D. Wollerman

Notary Signature
County of Natrona
State of Wyoming



ConocoPhillips

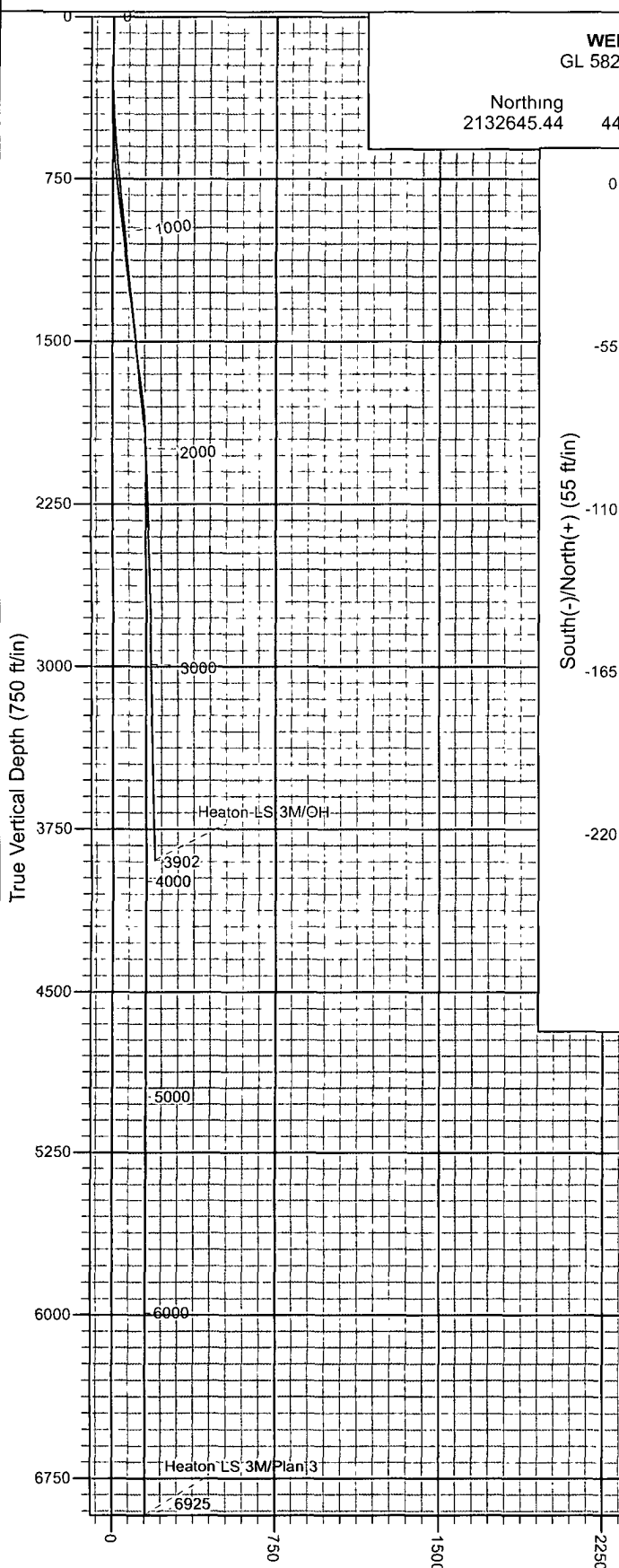
Project: SJB (NM West)
Site: SEC 32-T31N-R11W
Well: Heaton LS 3M
Wellbore: OH
Design: OH



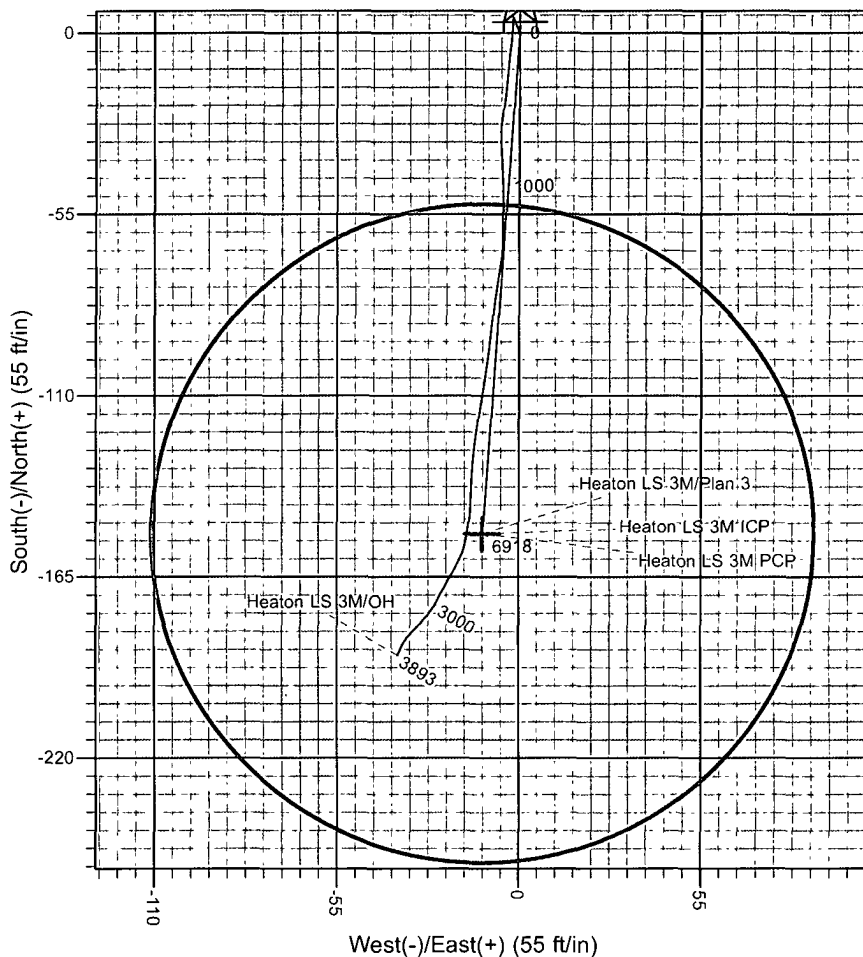
MAzimuths to True North
Magnetic North 9.91°
Magnetic Field
Strength 50613.3snT
Dip Angle: 63.47°
Date 2012/08/06
Model BGGM2012

WELL DETAILS: Heaton LS 3M
GL 5822' & KB 15' @ 5837.0ft (AWS 730)
Ground Level 5822.0

Northing 2132645.44 Easting 446014.79 Latitude 36° 51' 38.882 N Longitude 108° 1' 4.327 W



Vertical Section at 184.14° (750 ft/in)



REFERENCE INFORMATION

Co-ordinate (N/E) Reference: Well Heaton LS 3M, True North
Vertical (TVD) Reference: GL 5822' & KB 15' @ 5837.0ft (AWS 730)
Section (VS) Reference: Slot - (0.0N, 0.0E)
Measured Depth Reference: GL 5822' & KB 15' @ 5837.0ft (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 Heaton LS 3M
Project:	SJB (NM West)	TVD Reference:	GL 5822' & KB 15' @ 5837.0ft (AWS 730)
Site:	SEC 32-T31N-R11W	MD Reference:	GL 5822' & KB 15' @ 5837.0ft (AWS 730)
Well:	Heaton LS 3M	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 32-T31N-R11W		
Site Position:		Northing:	2,132,781.67 ft
From:	Lat/Long	Easting:	448,526.24 ft
Position Uncertainty:	0 0 ft	Slot Radius:	"
		Latitude:	36° 51' 40 276 N
		Longitude:	108° 0' 33.425 W
		Grid Convergence:	-0.11 °

Well	Heaton LS 3M, 721' FNL 1221' FWL		
Well Position	+N/-S	0 0 ft	Northing: 2,132,645.44 ft
	+E/-W	0 0 ft	Easting: 446,014.79 ft
Position Uncertainty	0 0 ft	Wellhead Elevation:	ft
		Latitude:	36° 51' 38.882 N
		Longitude:	108° 1' 4.327 W
		Ground Level:	5,822.0 ft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength
			(°)	(°)	(nT)
	BGGM2012	2012/08/06	9.91	63.47	50,613

Design	OH			
Audit Notes:				
Version:	1.0	Phase:	ACTUAL	Tie On Depth: 0.0
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction
	(ft)	(ft)	(ft)	(°)
	0 0	0.0	0.0	184.14

Survey Program	Date 2012/08/17			
From	To	Survey (Wellbore)	Tool Name	Description
(ft)	(ft)			
271 0	3,902.0	Survey #1 (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
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(°/100ft)	(°/100ft)	(°/100ft)
0.0	0.00	0.00	0.0	0 0	0.0	0 0	0.00	0 00	0.00
271.0	1.48	336.99	271.0	3 2	-1.4	-3.1	0 55	0 55	0.00
First SDI MWD Survey									
332.0	1 06	341.93	332.0	4 5	-1.9	-4.3	0 71	-0 69	8 10
394 0	0 05	189 40	394.0	5 0	-2.0	-4.8	1 78	-1 63	-246.02
455 0	1 07	179 78	454 9	4 4	-2.0	-4.2	1 67	1 67	-15 77
516.0	2 57	182 02	515 9	2 5	-2.1	-2.3	2 46	2 46	3 67
577.0	3 82	185 77	576 8	-0 9	-2.3	1 1	2 08	2 05	6 15
639.0	5 01	186 97	638 6	-5 7	-2 9	5 9	1 93	1 92	1 94
699.0	6 03	184 76	698 4	-11 4	-3 4	11 6	1 74	1 70	-3 68
760.0	6 54	186 37	759 0	-18 0	-4 1	18 3	0 88	0 84	2 64
821.0	6 57	189 02	819 6	-24 9	-5 0	25 2	0 50	0 05	4 34
885.0	6 77	179 29	883.2	-32 3	-5 6	32 7	1 79	0 31	-15 20

Company:	ConocoPhillips	Local Co-ordinate Reference:	Well Heaton LS 3M
Project:	SJB (NM West)	TVD Reference:	GL 5822' & KB 15' @ 5837.0ft (AWS 730)
Site:	SEC 32-T31N-R11W	MD Reference:	GL 5822' & KB 15' @ 5837.0ft (AWS 730)
Well:	Heaton LS 3M	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)
947.0	6.65	176.68	944.7	-39.6	-5.3	39.9	0.53	-0.19	-4.21
1,011.0	6.82	178.08	1,008.3	-47.1	-5.0	47.3	0.37	0.27	2.19
1,074.0	7.19	179.53	1,070.8	-54.8	-4.8	55.0	0.65	0.59	2.30
1,137.0	6.70	181.31	1,133.4	-62.4	-4.9	62.6	0.85	-0.78	2.83
1,200.0	5.79	188.36	1,196.0	-69.2	-5.4	69.4	1.89	-1.44	11.19
1,263.0	5.76	190.85	1,258.7	-75.4	-6.5	75.7	0.40	-0.05	3.95
1,326.0	6.09	187.83	1,321.3	-81.9	-7.5	82.2	0.72	0.52	-4.79
1,389.0	6.58	185.50	1,383.9	-88.8	-8.3	89.1	0.88	0.78	-3.70
1,453.0	6.81	187.84	1,447.5	-96.2	-9.2	96.6	0.56	0.36	3.66
1,516.0	7.47	187.80	1,510.0	-103.9	-10.2	104.4	1.05	1.05	-0.06
1,579.0	7.37	189.48	1,572.5	-112.0	-11.5	112.5	0.38	-0.16	2.67
1,641.0	7.04	189.44	1,634.0	-119.6	-12.7	120.2	0.53	-0.53	-0.06
1,704.0	6.75	186.21	1,696.5	-127.1	-13.8	127.8	0.77	-0.46	-5.13
1,767.0	6.27	182.74	1,759.1	-134.2	-14.3	134.9	0.98	-0.76	-5.51
1,830.0	4.71	182.16	1,821.9	-140.3	-14.6	141.0	2.48	-2.48	-0.92
1,894.0	3.34	182.59	1,885.7	-144.8	-14.8	145.4	2.14	-2.14	0.67
1,957.0	1.91	189.16	1,948.6	-147.6	-15.0	148.3	2.32	-2.27	10.43
2,020.0	2.00	186.91	2,011.6	-149.7	-15.3	150.5	0.19	0.14	-3.57
2,083.0	1.91	189.47	2,074.5	-151.9	-15.6	152.6	0.20	-0.14	4.06
2,147.0	1.95	191.35	2,138.5	-154.0	-16.0	154.8	0.12	0.06	2.94
2,210.0	1.80	191.85	2,201.5	-156.0	-16.5	156.8	0.24	-0.24	0.79
2,273.0	1.71	203.32	2,264.5	-157.8	-17.0	158.7	0.57	-0.14	18.21
2,336.0	1.80	205.83	2,327.4	-159.6	-17.8	160.5	0.19	0.14	3.98
2,399.0	2.11	208.34	2,390.4	-161.5	-18.8	162.4	0.51	0.49	3.98
2,462.0	1.95	210.19	2,453.3	-163.5	-19.9	164.5	0.27	-0.25	2.94
2,525.0	1.65	210.76	2,516.3	-165.2	-20.9	166.2	0.48	-0.48	0.90
2,589.0	1.10	209.26	2,580.3	-166.5	-21.7	167.6	0.86	-0.86	-2.34
2,652.0	1.06	205.39	2,643.3	-167.5	-22.2	168.7	0.13	-0.06	-6.14
2,716.0	0.92	207.39	2,707.3	-168.5	-22.7	169.7	0.23	-0.22	3.13
2,779.0	1.08	217.25	2,770.3	-169.5	-23.3	170.7	0.37	0.25	15.65
2,842.0	1.22	206.69	2,833.3	-170.5	-24.0	171.8	0.40	0.22	-16.76
2,905.0	1.03	201.90	2,896.2	-171.7	-24.5	173.0	0.34	-0.30	-7.60
2,968.0	1.16	215.03	2,959.2	-172.7	-25.1	174.1	0.45	0.21	20.84
3,031.0	1.30	205.21	3,022.2	-173.9	-25.7	175.3	0.40	0.22	-15.59
3,094.0	0.97	226.32	3,085.2	-174.9	-26.4	176.3	0.84	-0.52	33.51
3,158.0	0.90	211.60	3,149.2	-175.7	-27.1	177.2	0.39	-0.11	-23.00
3,221.0	0.89	213.38	3,212.2	-176.5	-27.6	178.1	0.05	-0.02	2.83
3,285.0	0.92	224.03	3,276.2	-177.3	-28.2	178.9	0.27	0.05	16.64
3,348.0	1.03	227.09	3,339.2	-178.1	-29.0	179.7	0.19	0.17	4.86
3,410.0	1.27	215.90	3,401.2	-179.0	-29.8	180.7	0.53	0.39	-18.05
3,474.0	1.55	221.70	3,465.1	-180.2	-30.8	182.0	0.49	0.44	9.06
3,537.0	1.21	225.94	3,528.1	-181.3	-31.8	183.1	0.56	-0.54	6.73
3,600.0	1.27	223.95	3,591.1	-182.3	-32.8	184.2	0.12	0.10	-3.16
3,663.0	1.21	215.22	3,654.1	-183.3	-33.7	185.3	0.31	-0.10	-13.86
3,727.0	1.45	213.77	3,718.1	-184.5	-34.5	186.6	0.38	0.38	-2.27
3,790.0	1.52	209.65	3,781.1	-185.9	-35.4	188.0	0.20	0.11	-6.54
3,853.0	1.70	200.96	3,844.0	-187.5	-36.1	189.6	0.48	0.29	-13.79
3,902.0	1.59	212.01	3,893.0	-188.8	-36.7	190.9	0.68	-0.22	22.55
Last SDI MWD Survey									

Company:	ConocoPhillips	Local Co-ordinate Reference:	Well Heaton LS 3M
Project:	SJB (NM West)	TVD Reference:	GL 5822' & KB 15' @ 5837.0ft (AWS 730)
Site:	SEC 32-T31N-R11W	MD Reference:	GL 5822' & KB 15' @ 5837.0ft (AWS 730)
Well:	Heaton LS 3M	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 2003.21 Single User Db

Design Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates			
		+N/-S (ft)	+E/-W (ft)	Comment	
271.0	271.0	3.2	-1.4	First SDI MWD Survey	
3,902.0	3,893.0	-188.8	-36.7	Last SDI MWD Survey	

Checked By: _____	Approved By: _____	Date: _____
-------------------	--------------------	-------------