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 Rd., 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	2 Pool Code	3 Pool Name
30-045-35337	72319 / 71599	BLANCO MESAVERDE / BASIN DAKOTA

4 Property Code	5 Property Name	6 Well Number
31748	HEATON LS	1M

7 OGRID No.	8 Operator Name	9 Elevation
217817	CONOCOPHILLIPS COMPANY	5880'

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
O	28	31N	11W		625'	SOUTH	1308'	EAST	SAN JUAN

11 Bottom Hole Location If Different From Surface

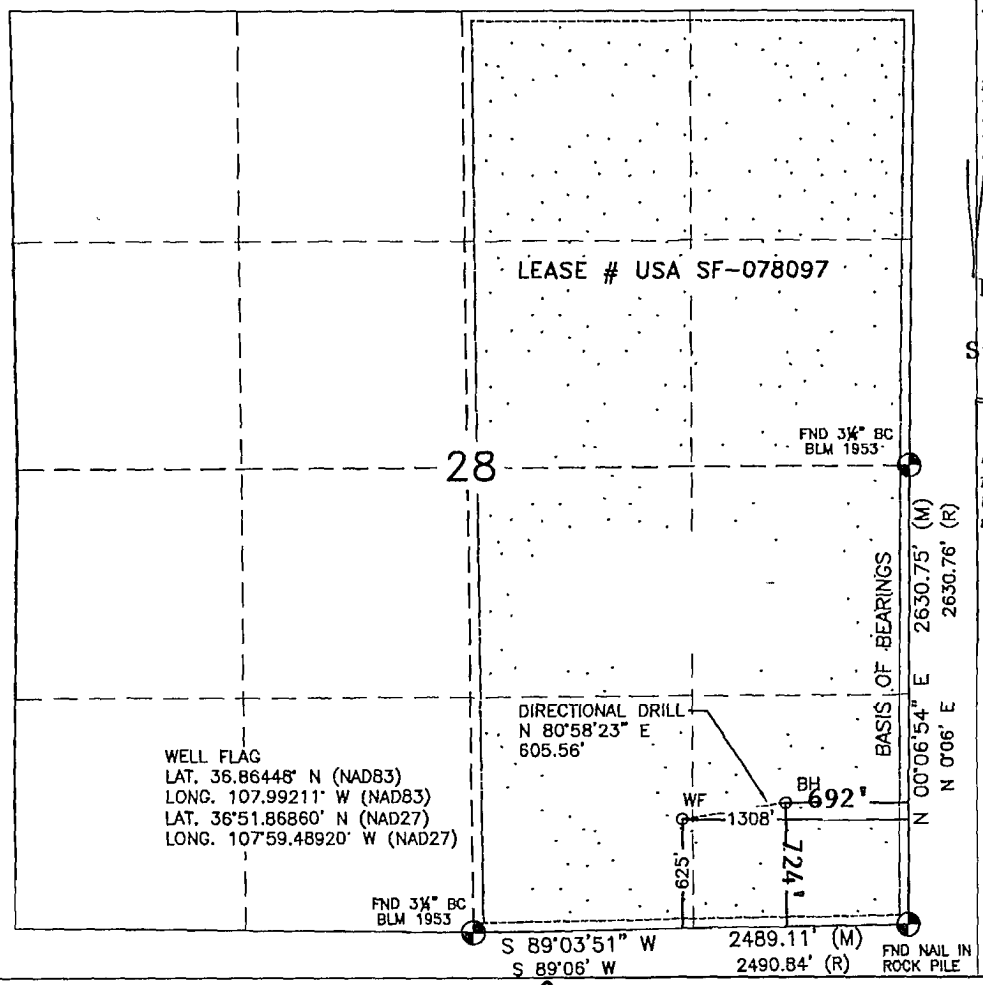
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	28	31N	11W		724'	SOUTH	692'	EAST	SAN JUAN

12 Dedicated Acres	13 Joint or Infill	14 Consolidation Code	15 Order No.
320.00 ACRES - E/2			

RCVD OCT 26 '12
OIL CONS. DIV.
DIST. 3

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



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 voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Signature Date 10/26/12

Marie E. Jaramillo 10/26/12
Printed Name

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

DECEMBER 29, 2011
Date of Survey

Signature and Seal of Professional Surveyor:

DAVID RUSSELL
NEW MEXICO
10201
REGISTERED PROFESSIONAL LAND SURVEYOR

DAVID RUSSELL
Certificate Number 10201

ConocoPhillips

COP Deviation Report

HEATON LS #1M

RCVD OCT 26 '12
OIL CONS. DIV.
DIST. 3

Operator	Legal WellName	API / UWI	County	State/Province
CONOCOPHILLIPS COMPANY	HEATON LS #1M	3004535337	SAN JUAN	NEW MEXICO

Surface Legal Location	N/S Dist (ft)	N/S Ref	E/W Dist (ft)	E/W Ref
028-031N-011W-O	625 00	FSL	1,308 00	FEL

Survey Data

Date	MD (ftKB)	Incl (°)	Azm (°)	Method	Survey Company
9/6/2012	133 00	0 75		Inc-Drop	Mo Te Drilling Inc
9/6/2012	235 00	1 75		Inc-Drop	Mo Te Drilling Inc
9/23/2012	267 00	0 22	146 27	IncAzi-MWD	Scientific Drilling
9/23/2012	329 00	0 51	128 37	IncAzi-MWD	Scientific Drilling
9/23/2012	391 00	0 76	100 33	IncAzi-MWD	Scientific Drilling
9/23/2012	452 00	1 69	100 49	IncAzi-MWD	Scientific Drilling
9/23/2012	513 00	2 68	96 55	IncAzi-MWD	Scientific Drilling
9/23/2012	575 00	4 00	83 01	IncAzi-MWD	Scientific Drilling
9/23/2012	637 00	5 15	83 06	IncAzi-MWD	Scientific Drilling
9/24/2012	693 00	6 07	77 85	IncAzi-MWD	Scientific Drilling
9/24/2012	755 00	7 48	74 93	IncAzi-MWD	Scientific Drilling
9/24/2012	817 00	8 24	76 10	IncAzi-MWD	Scientific Drilling
9/24/2012	880 00	9 74	75 45	IncAzi-MWD	Scientific Drilling
9/24/2012	943 00	10 92	76 46	IncAzi-MWD	Scientific Drilling
9/24/2012	1,006 00	12 12	75 87	IncAzi-MWD	Scientific Drilling
9/24/2012	1,069 00	13 59	76 35	IncAzi-MWD	Scientific Drilling
9/24/2012	1,132 00	14 98	77 93	IncAzi-MWD	Scientific Drilling
9/24/2012	1,196 00	16 66	78 97	IncAzi-MWD	Scientific Drilling
9/24/2012	1,260 00	18 20	79 72	IncAzi-MWD	Scientific Drilling
9/24/2012	1,323 00	19 95	78 63	IncAzi-MWD	Scientific Drilling
9/24/2012	1,386 00	21 04	81 04	IncAzi-MWD	Scientific Drilling
9/24/2012	1,449 00	21 64	82 64	IncAzi-MWD	Scientific Drilling
9/24/2012	1,513 00	22 18	80 93	IncAzi-MWD	Scientific Drilling
9/24/2012	1,576 00	22 55	80 04	IncAzi-MWD	Scientific Drilling
9/24/2012	1,640 00	22 72	79 22	IncAzi-MWD	Scientific Drilling
9/24/2012	1,703 00	22 66	79 02	IncAzi-MWD	Scientific Drilling
9/24/2012	1,767 00	22 83	81 38	IncAzi-MWD	Scientific Drilling
9/24/2012	1,830 00	23 23	81 51	IncAzi-MWD	Scientific Drilling
9/24/2012	1,893 00	22 69	84 85	IncAzi-MWD	Scientific Drilling
9/24/2012	1,956 00	22 30	82 99	IncAzi-MWD	Scientific Drilling
9/24/2012	2,019 00	21 39	82 05	IncAzi-MWD	Scientific Drilling
9/24/2012	2,082 00	20 21	80 92	IncAzi-MWD	Scientific Drilling
9/24/2012	2,145 00	19 28	79 14	IncAzi-MWD	Scientific Drilling
9/24/2012	2,208 00	18 23	77 45	IncAzi-MWD	Scientific Drilling
9/24/2012	2,271 00	17 26	74 76	IncAzi-MWD	Scientific Drilling
9/24/2012	2,334 00	15 95	74 47	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.

_____

Subcribed and sworn to me this _____

_____

Notary Public in and for San Juan County, New Mexico

My Commission expires _____

Report Printed: 10/26/2012

ConocoPhillips

COP Deviation Report

HEATON LS #1M

Survey Data

Date	MD (ftKB)	Incl (°)	Azm (°)	Method	Survey Company
9/24/2012	2,397 00	14 77	78 36	IncAzi-MWD	Scientific Drilling
9/24/2012	2,460 00	13 94	81 26	IncAzi-MWD	Scientific Drilling
9/24/2012	2,523 00	13 08	80 23	IncAzi-MWD	Scientific Drilling
9/24/2012	2,586 00	12 29	79 58	IncAzi-MWD	Scientific Drilling
9/24/2012	2,649 00	10 74	80 73	IncAzi-MWD	Scientific Drilling
9/24/2012	2,712 00	8 44	83 55	IncAzi-MWD	Scientific Drilling
9/25/2012	2,776 00	6 24	82 52	IncAzi-MWD	Scientific Drilling
9/25/2012	2,839 00	4 73	78 70	IncAzi-MWD	Scientific Drilling
9/25/2012	2,902 00	3 56	82 42	IncAzi-MWD	Scientific Drilling
9/25/2012	2,965 00	2 40	75 76	IncAzi-MWD	Scientific Drilling
9/25/2012	3,029 00	0 83	79 89	IncAzi-MWD	Scientific Drilling
9/25/2012	3,092 00	0 65	38 56	IncAzi-MWD	Scientific Drilling
9/25/2012	3,155 00	0 24	28 71	IncAzi-MWD	Scientific Drilling
9/25/2012	3,218 00	0 40	37 92	IncAzi-MWD	Scientific Drilling
9/25/2012	3,281 00	0 50	118 75	IncAzi-MWD	Scientific Drilling
9/25/2012	3,344 00	0 48	92 45	IncAzi-MWD	Scientific Drilling
9/25/2012	3,408 00	0 29	193 95	IncAzi-MWD	Scientific Drilling
9/25/2012	3,472 00	0 10	200 23	IncAzi-MWD	Scientific Drilling
9/25/2012	3,535 00	0 57	187 82	IncAzi-MWD	Scientific Drilling
9/25/2012	3,597 00	0 20	168 74	IncAzi-MWD	Scientific Drilling
9/25/2012	3,660 00	0 36	195 09	IncAzi-MWD	Scientific Drilling
9/25/2012	3,724 00	0 47	180 14	IncAzi-MWD	Scientific Drilling
9/25/2012	3,787 00	0 75	211 18	IncAzi-MWD	Scientific Drilling
9/25/2012	3,850 00	0 73	206 34	IncAzi-MWD	Scientific Drilling
9/25/2012	3,913 00	1 01	183 46	IncAzi-MWD	Scientific Drilling
9/25/2012	3,977 00	0 91	207 91	IncAzi-MWD	Scientific Drilling
9/25/2012	4,103 00	1 08	190 59	IncAzi-MWD	Scientific Drilling
9/25/2012	4,230 00	1 01	210 51	IncAzi-MWD	Scientific Drilling
9/25/2012	4,306 00	1 07	94 15	IncAzi-MWD	Scientific Drilling
9/26/2012	4,520 00	1 75		Inc-Drop	Aztec Well Servicing Co Inc
10/8/2012	7,088 00	1 50		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.**

Ben Tolman

Subcribed and sworn to me this 10/26/12

Notary Public in and for San Juan County, New Mexico

My Commission expires 9/29/14

Report Printed: 10/26/2012

ConocoPhillips

ConocoPhillips

SJB (NM West)
SEC 28-T31N-R11W
Heaton LS 1M

OH

Design: OH

API # 30045 35337

Standard Survey Report

01 October, 2012

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

Carra Blay

Notarized this date 4th of October, 2012.

Chrystal D Wellman

Notary Signature
County of Natrona
State of Wyoming

NOTARY PUBLIC
CHRYSTAL D. WOLLERMAN
STATE OF WYOMING
COUNTY OF NATRONA
My Commission Expires Oct 20, 2013

Scientific Drilling

ConocoPhillips

Project SJB (NM West)
Site SEC 28-T31N-R11W
Well Heaton LS 1M
Wellbore OH
Design OH

Scientific Drilling

T M

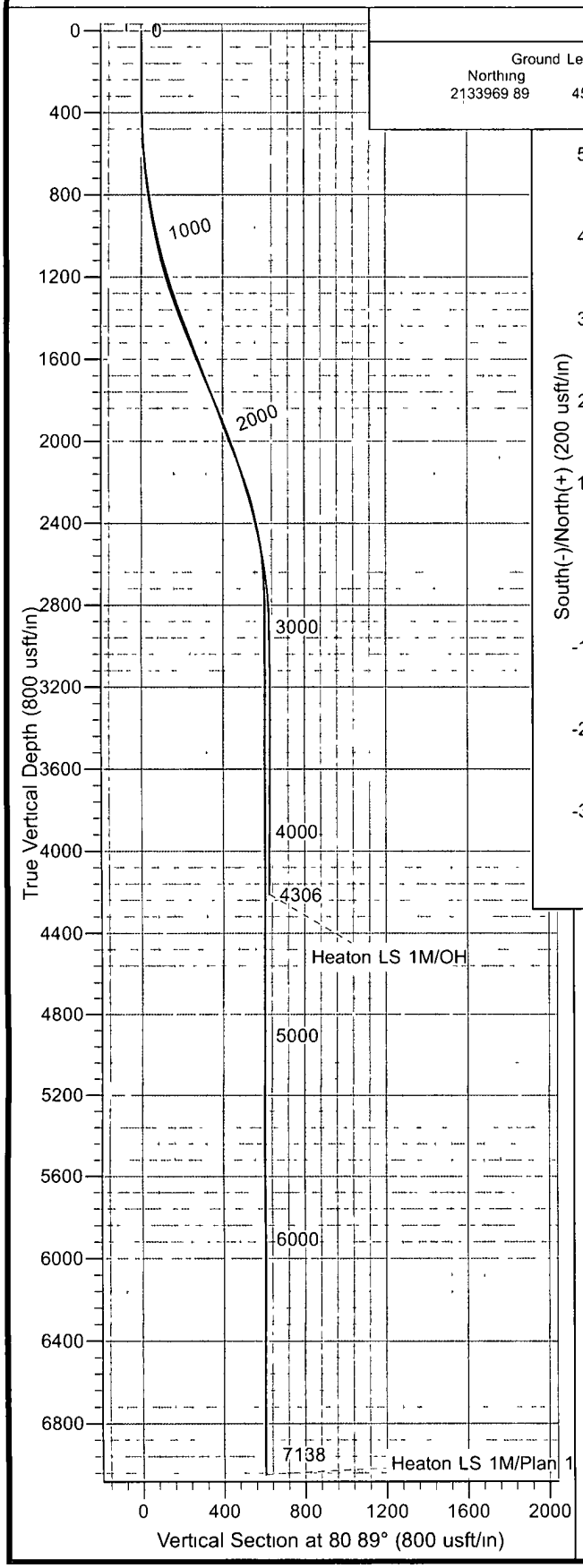
Azimuths to True North
Magnetic North 9 89°

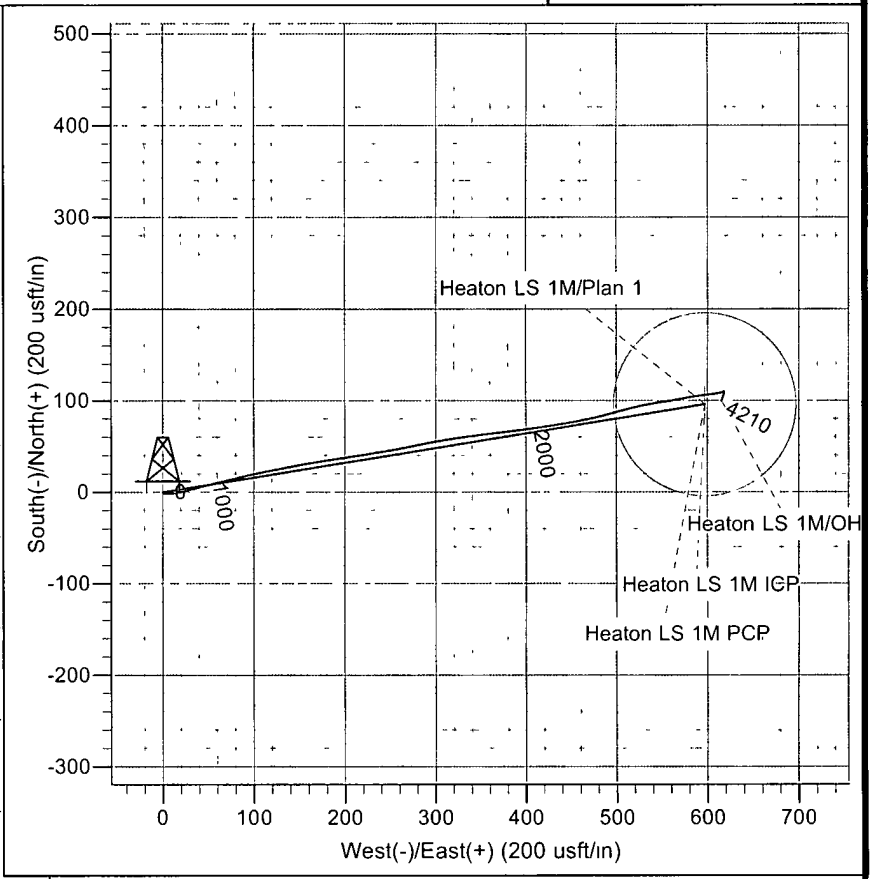
Magnetic Field
Strength 50603 3snT
Dip Angle 63 48°
Date 2012/09/21
Model BGGM2012

WELL DETAILS Heaton LS 1M

Ground Level GL 5880' & KB 15' @ 5895 0usft (AWS 730)

Northing	Easting	Latitude	Longitude
2133969 89	453734 97	36° 51' 52 116 N	107° 59' 29 352 W





REFERENCE INFORMATION

Co-ordinate (N/E) Reference: Well Heaton LS 1M, True North
Vertical (TVD) Reference: GL 5880' & KB 15' @ 5895.0usft (AWS 730)
Section (VS) Reference: Slot - (0.0N, 0.0E)
Measured Depth Reference: GL 5880' & KB 15' @ 5895.0usft (AWS 730)
Calculation Method: Minimum Curvature
Local North: True

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

ConocoPhillips

Scientific Drilling

Survey Report

Scientific Drilling

Company:	ConocoPhillips	**Local Co-ordinate Reference**	Well Heaton LS 1M
Project:	SJB (NM West)	**TVD Reference**	GL 5880' & KB 15' @ 5895 0usft (AWS 730)
Site	SEC 28-T31N-R11W	**MD Reference**	GL 5880' & KB 15' @ 5895 0usft (AWS 730)
Well:	Heaton LS 1M	**North Reference**	True
Wellbore	OH	**Survey Calculation Method:**	Minimum Curvature
Design:	OH	**Database**	FarmingtonDatabase

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 28-T31N-R11W

Site Position:		**Northing**	2,133,969 88 usft	**Latitude**	36° 51' 52 116 N
From:	Lat/Long	**Easting**	453,734 97 usft	**Longitude**	107° 59' 29 352 W
Position Uncertainty	0 0 usft	**Slot Radius**	13-3/16 "	**Grid Convergence:**	-0 09 °

Well Heaton LS 1M, 625' FSL 1308' FEL

Well Position	**+N/-S**	0 0 usft	**Northing**	2,133,969 88 usft	**Latitude:**	36° 51' 52 116 N
	+E/-W	0 0 usft	**Easting**	453,734 97 usft	**Longitude**	107° 59' 29.352 W
Position Uncertainty		0 0 usft	**Wellhead Elevation**	usft	**Ground Level**	5,880.0 usft

Wellbore OH

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2012	2012/09/21	9 89	63 48	50,603

Design OH

Audit Notes

Version:	1 0	**Phase**	ACTUAL	**Tie On Depth**	0 0

Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0 0	0 0	0 0	80.89

Survey Program **Date** 2012/10/01

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
267 0	4,306 0	Survey #1 (OH)	MWD SDI	MWD - Standard ver 1 0 1

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)
0 0	0 00	0 00	0 0	0 0	0 0	0 0	0 00	0 00	0 00
267 0	0 22	146 27	267 0	-0 4	0 3	0 2	0 08	0 08	0.00
First SDI MWD Survey									
329 0	0 51	128 37	329 0	-0 7	0 6	0 4	0 50	0 47	-28 87
391 0	0 76	100 33	391 0	-0 9	1 2	1 0	0 63	0 40	-45 23
452 0	1 69	100 49	452 0	-1 2	2 5	2 3	1 52	1 52	0 26
513 0	2 68	96 55	512 9	-1 5	4 8	4 5	1 64	1 62	-6 46
575 0	4 00	83 01	574 8	-1 4	8 4	8 0	2 47	2 13	-21.84
637 0	5 15	83 06	636 6	-0 8	13 3	13 0	1 85	1 85	0 08
693 0	6 07	77 85	692 4	0 1	18 7	18 4	1 88	1 64	-9 30
755 0	7 48	74 93	753 9	1 9	25 8	25 7	2 34	2 27	-4 71

Company.	ConocoPhillips	**Local Co-ordinate Reference.**	Well Heaton LS 1M
Project	SJB (NM West)	**TVD Reference.**	GL 5880' & KB 15' @ 5895 0usft (AWS 730)
Site.	SEC 28-T31N-R11W	**MD Reference**	GL 5880' & KB 15' @ 5895 0usft (AWS 730)
Well	Heaton LS 1M	**North Reference:**	True
Wellbore	OH	**Survey Calculation Method**	Minimum Curvature
Design	OH	**Database**	FarmingtonDatabase

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)
817 0	8 24	76 10	815 3	4 0	34 0	34 2	1 25	1 23	1 89
880 0	9 74	75 45	877 6	6 4	43 5	44 0	2 39	2 38	-1 03
943 0	10 92	76 46	939 5	9 1	54 5	55 2	1 89	1 87	1 60
1,006 0	12 12	75 87	1,001 3	12 1	66 7	67 8	1 91	1 90	-0 94
1,069 0	13 59	76 35	1,062 7	15 5	80 3	81 7	2 34	2 33	0 76
1,132 0	14 98	77 93	1,123 7	19 0	95 4	97 2	2 29	2 21	2 51
1,196 0	16 66	78 97	1,185 3	22 4	112 5	114 7	2 66	2 63	1 63
1,260 0	18 20	79 72	1,246 4	26 0	131 4	133 8	2 43	2 41	1 17
1,323 0	19 95	78 63	1,305 9	29 9	151 6	154 4	2 83	2 78	-1 73
1,386 0	21 04	81 04	1,364 9	33 7	173 3	176 5	2 19	1 73	3 83
1,449 0	21 64	82 64	1,423 6	37 0	196 0	199 4	1 33	0 95	2 54
1,513 0	22 18	80 93	1,483 0	40 4	219 6	223 3	1 31	0 84	-2.67
1,576 0	22 55	80 04	1,541 2	44 4	243 3	247 2	0 80	0 59	-1 41
1,640 0	22 72	79 22	1,600 3	48 8	267 5	271.9	0 56	0 27	-1 28
1,703 0	22 66	79 02	1,658 4	53 4	291 4	296 1	0 16	-0 10	-0 32
1,767 0	22 83	81 38	1,717 5	57 6	315 7	320 9	1 45	0 27	3 69
1,830 0	23 23	81 51	1,775 4	61 3	340 1	345 5	0 64	0 63	0 21
1,893 0	22 69	84 85	1,833 5	64 2	364 5	370 1	2 24	-0 86	5 30
1,956 0	22 30	82 99	1,891 7	66 7	388 5	394 1	1 29	-0 62	-2 95
2,019 0	21 39	82 05	1,950 1	69 8	411 7	417 6	1 55	-1 44	-1 49
2,082 0	20 21	80 92	2,009 0	73 1	433 8	439 9	1 98	-1 87	-1 79
2,145 0	19 28	79 14	2,068 3	76 8	454 8	461 2	1 76	-1 48	-2 83
2,208 0	18 23	77 45	2,128 0	80 9	474 6	481 5	1 88	-1 67	-2 68
2,271 0	17 26	74 76	2,188 0	85 5	493 3	500 6	2 02	-1 54	-4 27
2,334 0	15 95	74 47	2,248 4	90 2	510 6	518 5	2 08	-2 08	-0 46
2,397 0	14 77	78 36	2,309 1	94 2	526 8	535 1	2 49	-1 87	6 17
2,460 0	13 94	81 26	2,370 1	97 0	542 2	550 7	1 74	-1 32	4 60
2,523 0	13 08	80 23	2,431 4	99 3	556 7	565 4	1 42	-1 37	-1 63
2,586 0	12 29	79 58	2,492 9	101 7	570 4	579 3	1 27	-1 25	-1 03
2,649 0	10 74	80 73	2,554 6	103 9	582 7	591 8	2 49	-2 46	1.83
2,712 0	8 44	83 55	2,616 7	105 4	593 1	602 3	3 73	-3 65	4 48
2,776 0	6 24	82 52	2,680 2	106 3	601 2	610 5	3 44	-3 44	-1 61
2,839 0	4 73	78 70	2,742 9	107 3	607 2	616 5	2 46	-2 40	-6 06
2,902 0	3 56	82 42	2,805 7	108 1	611 7	621 1	1 90	-1 86	5 90
2,965 0	2 40	75 76	2,868 6	108 6	614 9	624 3	1 92	-1 84	-10.57
3,029 0	0 83	79 89	2,932 6	109 1	616 6	626 1	2 46	-2 45	6 45
3,092 0	0 65	38 56	2,995 6	109 4	617 3	626 9	0 87	-0 29	-65 60
3,155 0	0 24	28 71	3,058 6	109 8	617 6	627 2	0 66	-0 65	-15 63
3,218 0	0 40	37 92	3,121 6	110 1	617 8	627 4	0 27	0 25	14 62
3,281 0	0 50	118 75	3,184 6	110 1	618 2	627 8	0 93	0 16	128 30
3,344 0	0 48	92 45	3,247 6	110 0	618 7	628 3	0 36	-0 03	-41 75
3,408 0	0 29	193 95	3,311 6	109 8	618 9	628 5	0 95	-0 30	158 59
3,472 0	0 10	200 23	3,375 6	109 6	618 9	628 4	0 30	-0 30	9 81

Company:	ConocoPhillips	**Local Co-ordinate Reference:**	Well Heaton LS 1M
Project:	SJB (NM West)	**TVD Reference.**	GL 5880' & KB 15' @ 5895 0usft (AWS 730)
Site:	SEC 28-T31N-R11W	**MD Reference**	GL 5880' & KB 15' @ 5895 0usft (AWS 730)
Well.	Heaton LS 1M	**North Reference.**	True
Wellbore:	OH	**Survey Calculation Method:**	Minimum Curvature
Design:	OH	**Database.**	FarmingtonDatabase

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)
3,535 0	0 57	187 82	3,438 6	109 3	618 8	628 3	0 75	0 75	-19 70
3,597 0	0 20	168 74	3,500 6	108 8	618 8	628 2	0 62	-0 60	-30 77
3,660 0	0 36	195 09	3,563 6	108 6	618 7	628 1	0 32	0 25	41 83
3,724 0	0 47	180 14	3,627 6	108 1	618 7	628 0	0 24	0 17	-23 36
3,787 0	0 75	211 18	3,690 6	107 5	618 5	627 7	0 67	0 44	49 27
3,850 0	0 73	206 34	3,753 6	106 8	618 1	627 2	0 10	-0 03	-7 68
3,913 0	1 01	183 46	3,816 6	105 9	617 9	626 8	0 70	0 44	-36 32
3,977 0	0 91	207 91	3,880 6	104 8	617 6	626 4	0 65	-0 16	38 20
4,103 0	1 08	190 59	4,006 5	102 8	616 9	625 4	0 27	0 13	-13 75
4,230 0	1 01	210 51	4,133 5	100 7	616 1	624 3	0 29	-0 06	15 69
4,306 0	1 07	207 52	4,209 5	99 4	615 5	623 4	0 11	0 08	-3 93

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	Local Coordinates +E/-W (usft)	Comment
267 0	267 0	-0 4	0 3	First SDI MWD Survey
4,306 0	4,209 5	99 4	615 5	Last SDI MWD Survey

Checked By _____ Approved By _____ Date _____