

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number	² Pool Code	³ Pool Name
30-045-35340	71599 / 72319	BASIN DAKOTA/BLANCO MESAVERDE
⁴ Property Code	⁵ Property Name	⁶ Well Number
38763	CALLOWAY LS	2A
⁷ OGRID No.	⁸ Operator Name	⁹ Elevation
217817	CONOCOPHILLIPS COMPANY	5662'

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
H	34	31-N	11-W		2485	NORTH	900	EAST	SAN JUAN

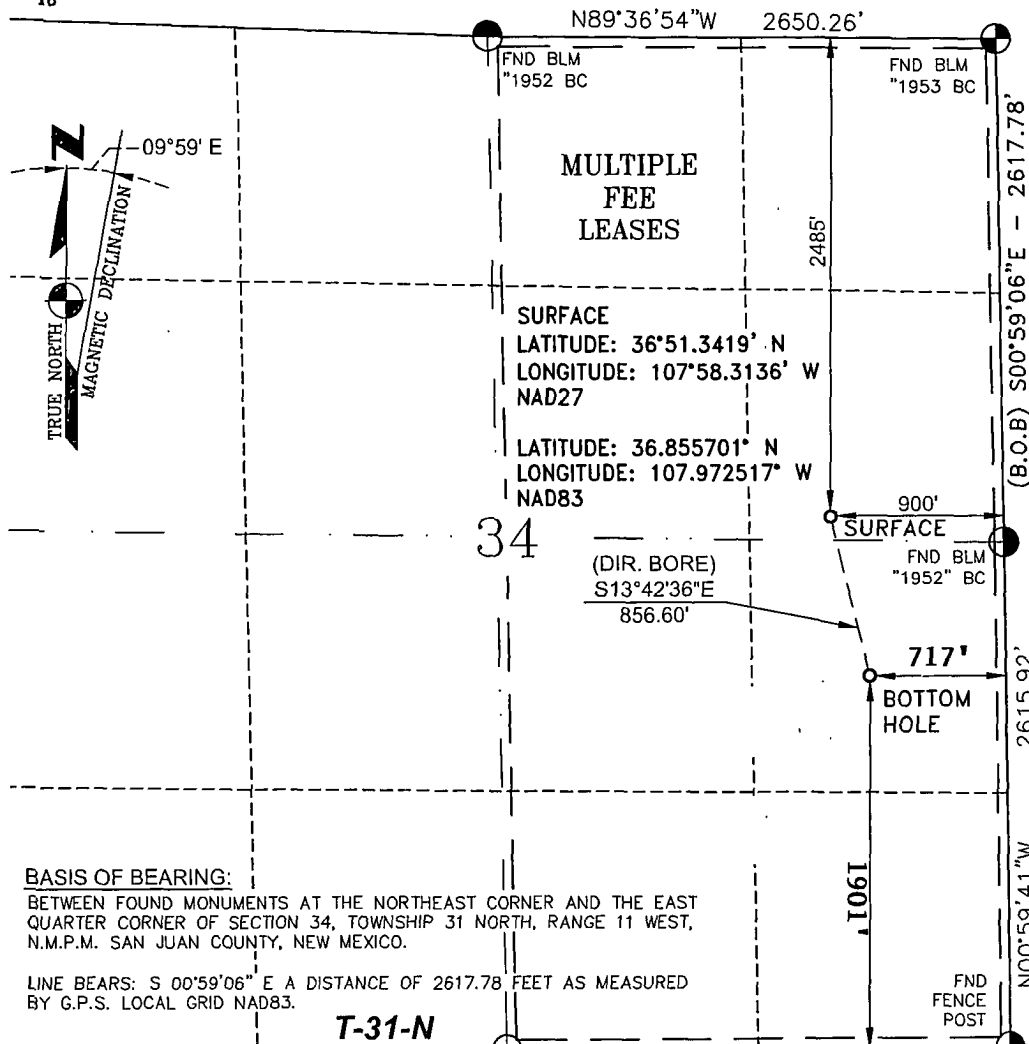
¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
1	34	31-N	11-W		1901'	SOUTH	717'	EAST	SAN JUAN

12 Dedicated Acres	13 Joint or Infill	14 Consolidation Code	15 Order No.	RCVD SEP 26 '12 OIL CONS. DIV. DIST. 3
DK 320.00 ACRES E/2				
MV 320.00 ACRES E/2				

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 a working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Signature M. E. Jaramillo Date 9/26/12
 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.

AUGUST 18, 2011
Date of Survey

Signature and Seal of Professional Surveyor



GLEN W. RUSSELL
Certificate Number

Operator CONOCOPHILLIPS COMPANY	Legal WellName CALLOWAY LS #2A	API / UWI 3004535340	County SAN JUAN	State/Province NEW MEXICO
Surface Legal Location 034-031N-011W-H	N/S Dist (ft) 2,485 00	N/S Ref FNL	E/W Dist (ft) 900 00	E/W Ref FEL

Survey Data					
Date	MD (ftKB)	Incl (°)	Azm (°)	Method	Survey Company
7/19/2012	128.00	1.00		Inc-Drop	MO-TE DRILLING INC
7/20/2012	291.00	1.00		Inc-Drop	MO-TE DRILLING INC.
7/25/2012	358.00	1.88	108.47	IncAzi-MWD	Scientific Drilling
7/25/2012	419.00	2.14	122.43	IncAzi-MWD	Scientific Drilling
7/25/2012	480.00	3.09	133.40	IncAzi-MWD	Scientific Drilling
7/25/2012	542.00	4.25	143.87	IncAzi-MWD	Scientific Drilling
7/25/2012	603.00	5.23	153.48	IncAzi-MWD	Scientific Drilling
7/25/2012	665.00	6.40	159.22	IncAzi-MWD	Scientific Drilling
7/25/2012	726.00	6.65	154.12	IncAzi-MWD	Scientific Drilling
7/25/2012	787.00	7.67	155.42	IncAzi-MWD	Scientific Drilling
7/25/2012	849.00	9.17	157.20	IncAzi-MWD	Scientific Drilling
7/25/2012	913.00	10.17	160.21	IncAzi-MWD	Scientific Drilling
7/25/2012	975.00	11.67	163.79	IncAzi-MWD	Scientific Drilling
7/25/2012	1,039.00	13.32	167.01	IncAzi-MWD	Scientific Drilling
7/25/2012	1,102.00	13.46	167.65	IncAzi-MWD	Scientific Drilling
7/25/2012	1,165.00	14.04	169.20	IncAzi-MWD	Scientific Drilling
7/25/2012	1,228.00	14.89	170.93	IncAzi-MWD	Scientific Drilling
7/25/2012	1,292.00	15.78	168.08	IncAzi-MWD	Scientific Drilling
7/25/2012	1,355.00	16.91	167.60	IncAzi-MWD	Scientific Drilling
7/25/2012	1,418.00	18.53	168.17	IncAzi-MWD	Scientific Drilling
7/25/2012	1,482.00	19.64	169.17	IncAzi-MWD	Scientific Drilling
7/25/2012	1,545.00	20.71	171.60	IncAzi-MWD	Scientific Drilling
7/25/2012	1,608.00	22.06	171.78	IncAzi-MWD	Scientific Drilling
7/25/2012	1,672.00	23.47	169.95	IncAzi-MWD	Scientific Drilling
7/26/2012	1,735.00	23.73	167.77	IncAzi-MWD	Scientific Drilling
7/26/2012	1,798.00	23.09	166.32	IncAzi-MWD	Scientific Drilling
7/26/2012	1,861.00	22.79	166.01	IncAzi-MWD	Scientific Drilling
7/26/2012	1,924.00	23.40	165.86	IncAzi-MWD	Scientific Drilling
7/26/2012	1,987.00	23.99	165.93	IncAzi-MWD	Scientific Drilling
7/26/2012	2,050.00	24.46	167.50	IncAzi-MWD	Scientific Drilling
7/26/2012	2,113.00	25.18	167.86	IncAzi-MWD	Scientific Drilling
7/26/2012	2,176.00	23.75	166.78	IncAzi-MWD	Scientific Drilling
7/26/2012	2,240.00	24.21	167.05	IncAzi-MWD	Scientific Drilling
7/26/2012	2,303.00	24.31	164.33	IncAzi-MWD	Scientific Drilling
7/26/2012	2,366.00	25.60	164.91	IncAzi-MWD	Scientific Drilling
7/26/2012	2,429.00	26.53	164.41	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	
7/26/2012	2,493.00	26.15	163.99	IncAzi-MWD	Scientific Drilling	
7/26/2012	2,556.00	24.96	163.82	IncAzi-MWD	Scientific Drilling	
7/26/2012	2,620.00	23.70	162.92	IncAzi-MWD	Scientific Drilling	
7/26/2012	2,683.00	22.29	163.53	IncAzi-MWD	Scientific Drilling	
7/26/2012	2,746.00	19.64	164.37	IncAzi-MWD	Scientific Drilling	
7/26/2012	2,809.00	17.16	166.26	IncAzi-MWD	Scientific Drilling	
7/26/2012	2,872.00	15.24	164.74	IncAzi-MWD	Scientific Drilling	
7/26/2012	2,935.00	13.66	164.31	IncAzi-MWD	Scientific Drilling	
7/26/2012	2,999.00	12.82	166.66	IncAzi-MWD	Scientific Drilling	
7/27/2012	3,063.00	11.54	168.45	IncAzi-MWD	Scientific Drilling	
7/27/2012	3,126.00	10.72	170.08	IncAzi-MWD	Scientific Drilling	
7/27/2012	3,189.00	9.88	169.39	IncAzi-MWD	Scientific Drilling	
7/27/2012	3,252.00	8.88	171.19	IncAzi-MWD	Scientific Drilling	
7/27/2012	3,315.00	7.13	171.66	IncAzi-MWD	Scientific Drilling	
7/27/2012	3,379.00	5.45	176.82	IncAzi-MWD	Scientific Drilling	
7/27/2012	3,442.00	3.84	185.24	IncAzi-MWD	Scientific Drilling	
7/27/2012	3,505.00	3.07	193.49	IncAzi-MWD	Scientific Drilling	
7/27/2012	3,569.00	2.72	193.19	IncAzi-MWD	Scientific Drilling	
7/27/2012	3,632.00	2.44	189.31	IncAzi-MWD	Scientific Drilling	
7/27/2012	3,695.00	2.70	198.08	IncAzi-MWD	Scientific Drilling	
7/27/2012	3,758.00	2.69	192.82	IncAzi-MWD	Scientific Drilling	
7/27/2012	3,822.00	2.42	203.85	IncAzi-MWD	Scientific Drilling	
7/27/2012	3,886.00	2.52	197.85	IncAzi-MWD	Scientific Drilling	
7/27/2012	3,949.00	2.39	198.49	IncAzi-MWD	Scientific Drilling	
7/27/2012	4,012.00	2.11	199.22	IncAzi-MWD	Scientific Drilling	
7/27/2012	4,076.00	2.42	205.46	IncAzi-MWD	Scientific Drilling	
7/27/2012	4,140.00	2.62	202.60	IncAzi-MWD	Scientific Drilling	
7/27/2012	4,203.00	2.33	200.61	IncAzi-MWD	Scientific Drilling	
7/27/2012	4,265.00	2.40	204.11	IncAzi-MWD	Scientific Drilling	
7/27/2012	4,285.00	2.34	204.43	IncAzi-MWD	Scientific Drilling	
8/1/2012	6,313.00	0.50		Inc-MWD	Aztec Well Servicing Co Inc	
8/2/2012	6,990.00	0.50		Inc-MWD	Aztec Well Servicing Co Inc	
8/2/2012	7,050.00	0.50		Inc-MWD	Aztec Well Servicing Co Inc	

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.

Mark Gallo

Subscribed and sworn to me this

9/25/12

Mark Gallo

Notary Public in and for San Juan County, New Mexico

My Commission expires

7/20/14



RCVD SEP 26 '12

OIL CONS. DIV.

DIST. 3

ConocoPhillips

SJB (NM West)
SEC 34-T31N-R11W
Calloway LS 2A

OH

API # 3004535340

Design: OH

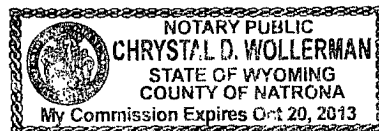
Standard Survey Report

03 August, 2012

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

Notarized this date 3rd of August, 2012.

Notary Signature
County of Natrona
State of Wyoming



Scientific Drilling

ConocoPhillips

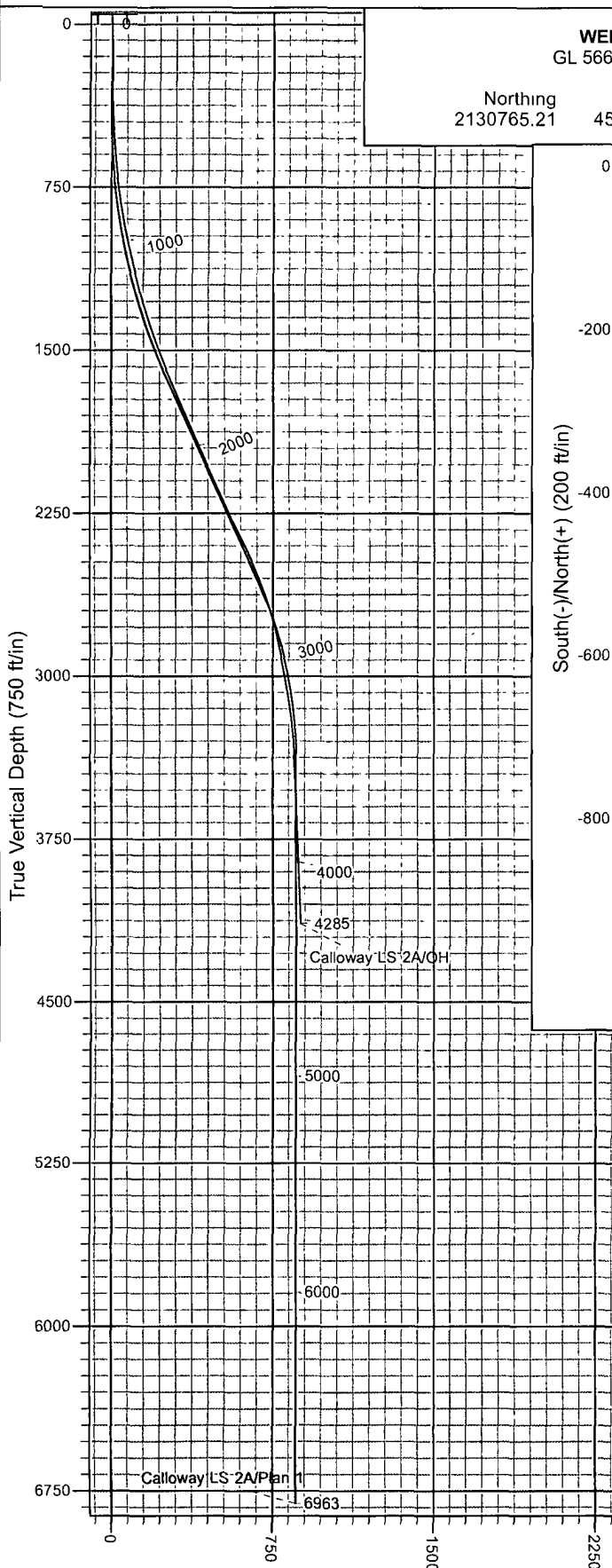
Project: SJB (NM West)
 Site: SEC 34-T31N-R11W
 Well: Calloway LS 2A
 Wellbore: OH
 Design: OH



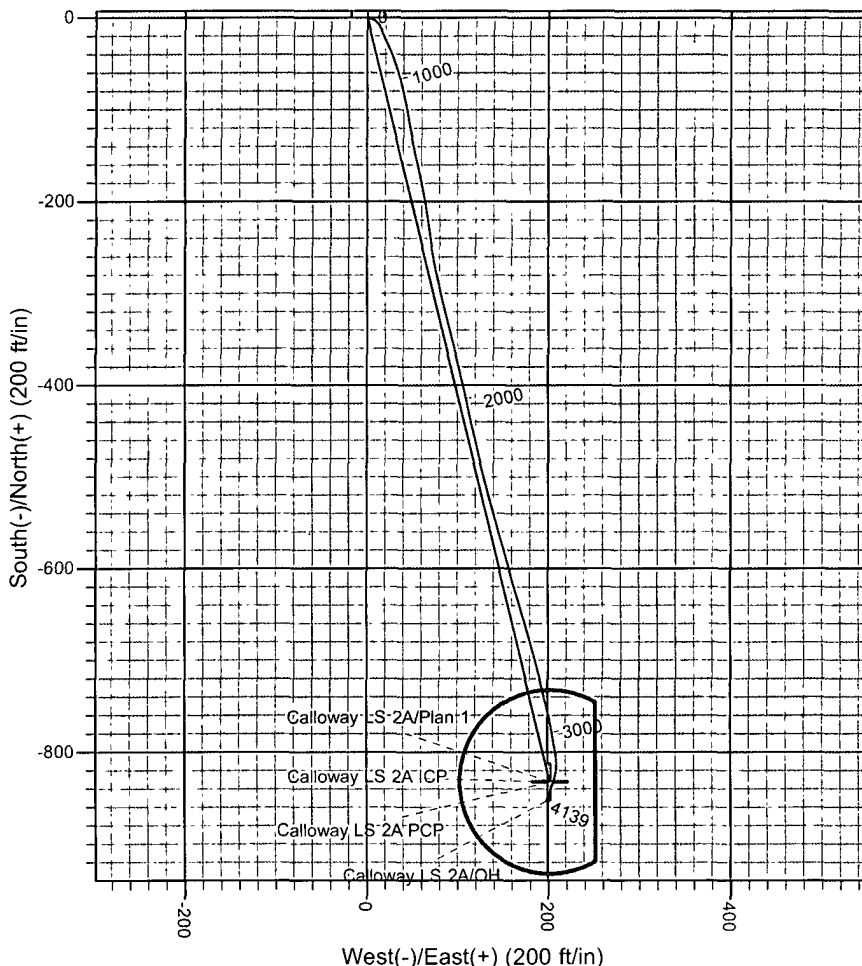
WELL DETAILS: Calloway LS 2A
 GL 5662' & KB 15' @ 5677.0ft (AWS 730)
 Ground Level: 5662.0

Northing	Easting	Latitude	Longitude
2130765.21	459462.03	36° 51' 20.514 N	107° 58' 18.816 W

T
 Azimuths to True North
 Magnetic North: 9 90
 Magnetic Field
 Strength 50624 4snT
 Dip Angle: 63 48
 Date 07/18/2012
 Model BGGM2012



Vertical Section at 166.34° (750 ft/in)



REFERENCE INFORMATION

Co-ordinate (N/E) Reference: Well Calloway LS 2A, True North
 Vertical (TVD) Reference: GL 5662' & KB 15' @ 5677.0ft (AWS 730)
 Section (VS) Reference: Slot - (0.0N, 0.0E)
 Measured Depth Reference: GL 5662' & KB 15' @ 5677.0ft (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 Calloway LS 2A
Project:	SJB (NM West)	TVD Reference:	GL 5662' & KB 15' @ 5677.0ft (AWS 730)
Site:	SEC 34-T31N-R11W	MD Reference:	GL 5662' & KB 15' @ 5677 0ft (AWS 730)
Well:	Calloway LS 2A	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
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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 34-T31N-R11W
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Site Position:		Northing:	2,128,038.62 ft	Latitude:	36° 50' 53.507 N
From:	Lat/Long	Easting:	456,452.04 ft	Longitude:	107° 58' 55.801 W
Position Uncertainty:	15.0 ft	Slot Radius:	6-1/8"	Grid Convergence:	-0 09 °

Well:	Calloway LS 2A, 2485' FNL 900' FEL
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Well Position	+N/-S	0.0 ft	Northing:	2,130,765.21 ft	Latitude:	36° 51' 20.514 N
	+E/-W	0.0 ft	Easting:	459,462.03 ft	Longitude:	107° 58' 18.816 W
Position Uncertainty		0 0 ft	Wellhead Elevation:	ft	Ground Level:	5,662.0 ft

Wellbore	OH
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Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2012	2012/07/18	9 90	63.48	50,624

Design	OH
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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	166.34

Survey Program		Date	2012/08/03		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
358 0	4,285 0	Survey #1 (OH)	MWD SDI	MWD - Standard ver 1.0.1	

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
358 0	1 88	108 47	357 9	-1.9	5 6	3.1	0.53	0 53	0.00
First SDI MWD Survey									
419.0	2 14	122.43	418 9	-2 8	7 5	4.5	0 91	0.43	22.89
480 0	3 09	133.40	479 8	-4 5	9 6	6 7	1.75	1.56	17 98
542.0	4.25	143.87	541 7	-7 5	12 2	10 2	2.15	1.87	16.89
603.0	5 23	153.48	602 5	-11.8	14.8	15.0	2.06	1 61	15 75
665.0	6 40	159 22	664.2	-17 6	17.3	21.2	2 11	1 89	9.26
726.0	6.65	154 12	724.8	-24 0	20 0	28.0	1.03	0.41	-8.36
787.0	7 67	155.42	785 3	-30.8	23 3	35 5	1 69	1.67	2.13
849.0	9.17	157.20	846.6	-39.2	26.9	44.4	2 46	2 42	2.87
913.0	10.17	160.21	909.7	-49.2	30 8	55 1	1.75	1.56	4.70
975.0	11 67	163.79	970 6	-60.3	34.4	66 8	2.65	2.42	5.77

Company:	ConocoPhillips	Local Co-ordinate Reference:	Well Calloway LS 2A
Project:	SJB (NM West)	TVD Reference:	GL 5662' & KB 15' @ 5677.0ft (AWS 730)
Site:	SEC 34-T31N-R11W	MD Reference:	GL 5662' & KB 15' @ 5677.0ft (AWS 730)
Well:	Calloway LS 2A	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)
1,039.0	13.32	167.01	1,033.1	-73.7	37.8	80.6	2.80	2.58	5.03
1,102.0	13.46	167.65	1,094.4	-88.0	41.0	95.2	0.32	0.22	1.02
1,165.0	14.04	169.20	1,155.6	-102.7	44.0	110.2	1.09	0.92	2.46
1,228.0	14.89	170.93	1,216.6	-118.2	46.8	125.9	1.51	1.35	2.75
1,292.0	15.78	168.08	1,278.3	-134.8	49.8	142.7	1.82	1.39	-4.45
1,355.0	16.91	167.60	1,338.7	-152.1	53.6	160.5	1.81	1.79	-0.76
1,418.0	18.53	168.17	1,398.8	-170.9	57.6	179.6	2.59	2.57	0.90
1,482.0	19.64	169.17	1,459.2	-191.4	61.7	200.5	1.81	1.73	1.56
1,545.0	20.71	171.60	1,518.4	-212.8	65.3	222.2	2.16	1.70	3.86
1,608.0	22.06	171.78	1,577.0	-235.5	68.6	245.1	2.15	2.14	0.29
1,672.0	23.47	169.95	1,636.0	-260.0	72.6	269.8	2.47	2.20	-2.86
1,735.0	23.73	167.77	1,693.8	-284.7	77.5	295.0	1.45	0.41	-3.46
1,798.0	23.09	166.32	1,751.6	-309.1	83.1	320.0	1.37	-1.02	-2.30
1,861.0	22.79	166.01	1,809.6	-333.0	88.9	344.5	0.51	-0.48	-0.49
1,924.0	23.40	165.86	1,867.6	-356.9	94.9	369.3	0.97	0.97	-0.24
1,987.0	23.99	165.93	1,925.2	-381.5	101.1	394.6	0.94	0.94	0.11
2,050.0	24.46	167.50	1,982.7	-406.6	107.1	420.4	1.27	0.75	2.49
2,113.0	25.18	167.86	2,039.9	-432.5	112.7	446.9	1.17	1.14	0.57
2,176.0	23.75	166.78	2,097.2	-457.9	118.4	472.9	2.38	-2.27	-1.71
2,240.0	24.21	167.05	2,155.7	-483.3	124.3	499.0	0.74	0.72	0.42
2,303.0	24.31	164.33	2,213.1	-508.3	130.7	524.8	1.78	0.16	-4.32
2,366.0	25.60	164.91	2,270.3	-534.0	137.7	551.4	2.08	2.05	0.92
2,429.0	26.53	164.41	2,326.8	-560.7	145.1	579.1	1.52	1.48	-0.79
2,493.0	26.15	163.99	2,384.2	-588.0	152.8	607.4	0.66	-0.59	-0.66
2,556.0	24.96	163.82	2,441.0	-614.1	160.3	634.6	1.89	-1.89	-0.27
2,620.0	23.70	162.92	2,499.4	-639.4	167.9	660.9	2.05	-1.97	-1.41
2,683.0	22.29	163.53	2,557.3	-662.9	175.0	685.5	2.27	-2.24	0.97
2,746.0	19.64	164.37	2,616.2	-684.6	181.2	708.0	4.23	-4.21	1.33
2,809.0	17.16	166.26	2,675.9	-703.8	186.3	727.9	4.05	-3.94	3.00
2,872.0	15.24	164.74	2,736.4	-720.8	190.7	745.5	3.12	-3.05	-2.41
2,935.0	13.66	164.31	2,797.4	-736.0	194.9	761.2	2.51	-2.51	-0.68
2,999.0	12.82	166.66	2,859.7	-750.2	198.5	775.8	1.56	-1.31	3.67
3,063.0	11.54	168.45	2,922.3	-763.3	201.5	789.3	2.09	-2.00	2.80
3,126.0	10.72	170.08	2,984.1	-775.3	203.7	801.5	1.39	-1.30	2.59
3,189.0	9.88	169.39	3,046.1	-786.4	205.7	812.7	1.35	-1.33	-1.10
3,252.0	8.88	171.19	3,108.3	-796.5	207.5	823.0	1.65	-1.59	2.86
3,315.0	7.13	171.66	3,170.6	-805.2	208.8	831.7	2.78	-2.78	0.75
3,379.0	5.45	176.82	3,234.3	-812.1	209.5	838.6	2.77	-2.63	8.06
3,442.0	3.84	185.24	3,297.0	-817.2	209.5	843.6	2.77	-2.56	13.37
3,505.0	3.07	193.49	3,359.9	-821.0	208.9	847.1	1.45	-1.22	13.10
3,569.0	2.72	193.19	3,423.9	-824.1	208.2	850.0	0.55	-0.55	-0.47
3,632.0	2.44	189.31	3,486.8	-826.9	207.6	852.5	0.52	-0.44	-6.16
3,695.0	2.70	198.08	3,549.7	-829.6	206.9	855.0	0.75	0.41	13.92
3,758.0	2.69	192.82	3,612.7	-832.5	206.2	857.6	0.39	-0.02	-8.35
3,822.0	2.42	203.85	3,676.6	-835.2	205.3	860.0	0.87	-0.42	17.23
3,886.0	2.52	197.85	3,740.5	-837.7	204.3	862.3	0.43	0.16	-9.38
3,949.0	2.39	198.49	3,803.5	-840.3	203.5	864.6	0.21	-0.21	1.02
4,012.0	2.11	199.22	3,866.4	-842.7	202.7	866.7	0.45	-0.44	1.16
4,076.0	2.42	205.46	3,930.4	-845.0	201.7	868.7	0.62	0.48	9.75
4,140.0	2.62	202.60	3,994.3	-847.6	200.5	870.9	0.37	0.31	-4.47
4,203.0	2.33	200.61	4,057.3	-850.1	199.5	873.2	0.48	-0.46	-3.16
4,265.0	2.40	204.11	4,119.2	-852.4	198.6	875.2	0.26	0.11	5.65
4,285.0	2.34	204.43	4,139.2	-853.2	198.2	875.9	0.31	-0.30	1.60
Last SDI MWD Survey									

Company:	ConocoPhillips	Local Co-ordinate Reference:	Well Calloway LS 2A
Project:	SJB (NM West)	TVD Reference:	GL 5662' & KB 15' @ 5677 0ft (AWS 730)
Site:	SEC 34-T31N-R11W	MD Reference:	GL 5662' & KB 15' @ 5677 0ft (AWS 730)
Well:	Calloway LS 2A	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	
358.0	357.9	-1.9	5.6	First SDI MWD Survey	
4,285.0	4,139.2	-853.2	198.2	Last SDI MWD Survey	

Checked By: _____	Approved By: _____	Date: _____
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