

Results of Directional Survey

API number:	30-025-40261		
OGRID:		Operator:	CONOCOPHILLIPS COMPANY
		Property:	WILDER 28 FEDERAL # 1H

surface	ULSTR:	A	28	T	26S	R	32E
				610	FNL	835	FEL

BH Loc	ULSTR:	P	28	T	26S	R	32E
13358	MD	9339.1	TVD	268	FSL	817	FEL
				5012	FNL		

Top Perf/OH	ULSTR:	A	28	T	26S	R	32E
10011	MD	9357.0	TVD	1669	FNL	779	FEL

Bot Perf/OH	ULSTR:	P	28	T	26S	R	32E
13277	MD	9343.3	TVD	349	FSL	819	FEL
				4931	FNL		

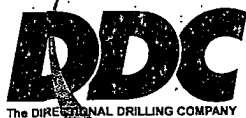
	MD	N/S	E/W	VD
	9933	-981.10	58.30	9354.7
TOP PERFS/OH	10011	-1059.02	56.33	9357.00
	10028	-1076.00	55.90	9357.50
	13259	-4303.30	15.80	9344.20
BOT PERFS/OH	13277	-4321.26	16.10	9343.26
	13301	-4345.20	16.50	9342.00

NEXT TO LAST	13301	-4345.20	16.50	9342.00
LAST READING	13358	-4402.10	17.80	9339.10
TD	13358	-4402.10	17.80	9339.10

Surface Location	610	FN	835	FE
Projected BHL	5012	FN	817	FE
Location of				
Top Perfs/OH	1669	FN	779	FE
Bottom Perfs/OH	4931	FN	819	FE

SUMMARY of Subsurface Locations

Surface Location	A-28-26S-32E	610	FN	835	FE	Vert. Depth
Top Perfs/OH	A-28-26S-32E	1669	FN	779	FE	9357.00
Bottom Perfs/OH	P-28-26S-32E	4931	FN	819	FE	9343.26
Projected TD	P-28-26S-32E	5012	FN	817	FE	9339.10



Conoco Phillips

Lea County, New Mexico

Sec 28, T26S, R32E

Wilder Federal 28 #1H

SUR: A-28-26s-32e, 610/N & 835/E

BHL: P-28-26s-32e, 5012/N & 817/E

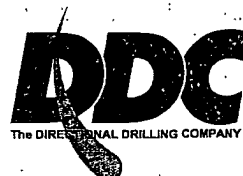
API # 30-025-40261

Curve & Lateral

Survey: MWD

DDC Survey Report

27 October, 2011





DDC
Survey Report



Company:	Conoco Phillips	Local Co-ordinate Reference:	Well Wilder Federal 28 #1H
Project:	Lea County, New Mexico	TVD Reference:	Well @ 3160.0usft (Nabors M-9)
Site:	Sec 28, T26S, R32E	MD Reference:	Well @ 3160.0usft (Nabors M-9)
Well:	Wilder Federal 28 #1H	North Reference:	Grid
Wellbore:	Curve & Lateral	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM:5000.1 Single User Db

Project:	Lea County, New Mexico		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		

Site:	Sec 28, T26S, R32E		
Site Position:		Northing:	371,284.70 usft
From:	Map	Easting:	704,476.40 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 1' 8.615 N
		Longitude:	103° 40' 24.926 W
		Grid Convergence:	0.35 °

Well:	Wilder Federal 28 #1H		
Well Position	+N-S	0.0 usft	Northing: 371,284.70 usft
	+E-W	0.0 usft	Easting: 704,476.40 usft
Position Uncertainty	0.0 usft	Wellhead Elevation:	usft
		Ground Level:	3,138.0 usft
		Latitude:	32° 1' 8.615 N
		Longitude:	103° 40' 24.926 W

Wellbore:	Curve & Lateral		
Magnetics	Model Name	Sample Date	Declination
	IGRF2010	9/29/2011	(°)
			7.58
			Dip Angle (°)
			59.97
			Field Strength (nT)
			48,454

Design:	Wellbore #1		
Audit Notes:			
Version:	1.0	Phase:	ACTUAL
		Tie On Depth:	8,600.0
Vertical Section:	Depth From (TVD)	+N-S	+E-W
	(usft)	(usft)	(usft)
	0.0	0.0	0.0
			Direction (°)
			179.77

Survey Program:	Date: 10/27/2011		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name
888.0	8,600.0	MWD (Pilot Hole)	MWD default
8,616.0	13,358.0	MWD (Curve & Lateral)	MWD default
			Description
			MWD - Standard
			MWD - Standard

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)
Tie into Pilot Hole										
	8,600.0	2.20	200.60	8,597.2	-99.1	66.3	99.3	0.00	0.00	0.00
	8,616.0	2.90	194.60	8,613.2	-99.7	66.1	100.0	4.68	4.38	-37.50
	8,648.0	4.70	191.10	8,645.1	-101.8	65.7	102.1	5.67	5.63	-10.94
	8,680.0	5.80	192.50	8,677.0	-104.7	65.1	104.9	3.46	3.44	4.38
	8,712.0	7.10	191.40	8,708.8	-108.2	64.3	108.4	4.08	4.06	-3.44
	8,744.0	10.20	189.00	8,740.4	-112.9	63.5	113.2	9.75	9.69	-7.50
	8,775.0	13.40	188.30	8,770.7	-119.2	62.5	119.4	10.33	10.32	-2.26
	8,807.0	16.60	187.90	8,801.7	-127.4	61.4	127.6	10.01	10.00	-1.25
	8,839.0	18.10	183.20	8,832.2	-136.9	60.5	137.1	6.41	4.69	-14.69



DDC Survey Report



Company:	Conoco Phillips	Local Co-ordinate Reference:	Well Wilder Federal 28 #1H
Project:	Lea County, New Mexico	TVD Reference:	Well @ 3160.0usft (Nabors M-9)
Site:	Sec 28, T26S, R32E	MD Reference:	Well @ 3160.0usft (Nabors M-9)
Well:	Wilder Federal 28 #1H	North Reference:	Gnd
Wellbore:	Curve & Lateral	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM 5000.1 Single User Db

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)
8,870.0	19.40	183.40	8,861.5	-146.8	59.9	147.1	4.20	4.19	0.65
8,903.0	20.70	186.50	8,892.5	-158.1	58.9	158.3	5.09	3.94	9.39
8,934.0	22.90	183.70	8,921.3	-169.6	57.9	169.8	7.85	7.10	-9.03
8,966.0	25.20	181.60	8,950.6	-182.6	57.3	182.8	7.67	7.19	-6.56
8,998.0	24.50	186.00	8,979.6	-196.0	56.4	196.2	6.18	-2.19	13.75
9,029.0	26.10	184.40	9,007.6	-209.2	55.2	209.4	5.61	5.16	-5.16
9,061.0	28.70	183.50	9,036.0	-223.9	54.2	224.1	8.23	8.13	-2.81
9,093.0	31.40	181.80	9,063.7	-239.9	53.5	240.1	8.85	8.44	-5.31
9,125.0	34.60	180.00	9,090.6	-257.3	53.2	257.5	10.46	10.00	-5.63
9,157.0	38.60	177.70	9,116.2	-276.4	53.6	276.6	13.21	12.50	-7.19
9,188.0	42.40	174.40	9,139.8	-296.5	55.0	296.7	14.07	12.26	-10.65
9,220.0	45.30	171.90	9,162.9	-318.5	57.7	318.7	10.55	9.06	-7.81
9,252.0	47.30	172.30	9,185.0	-341.4	60.9	341.6	6.31	6.25	1.25
9,284.0	50.00	174.10	9,206.1	-365.2	63.7	365.5	9.43	8.44	5.63
9,316.0	52.60	176.70	9,226.1	-390.1	65.7	390.4	10.31	8.13	8.13
9,347.0	55.80	177.90	9,244.3	-415.2	66.9	415.5	10.79	10.32	3.87
9,379.0	58.70	178.30	9,261.6	-442.1	67.8	442.4	9.12	9.06	1.25
9,411.0	62.30	178.40	9,277.3	-469.9	68.6	470.2	11.25	11.25	0.31
9,443.0	67.40	179.10	9,290.9	-498.9	69.2	499.2	16.06	15.94	2.19
9,475.0	71.70	179.50	9,302.1	-528.9	69.6	529.1	13.49	13.44	1.25
9,507.0	72.60	180.60	9,311.9	-559.3	69.5	559.6	4.31	2.81	3.44
9,538.0	74.30	180.90	9,320.8	-589.0	69.1	589.3	5.56	5.48	0.97
9,570.0	76.20	181.40	9,328.9	-620.0	68.5	620.3	6.13	5.94	1.56
9,602.0	78.30	181.60	9,336.0	-651.2	67.7	651.4	6.59	6.56	0.63
9,634.0	81.70	181.30	9,341.5	-682.7	66.9	682.9	10.67	10.63	-0.94
9,666.0	84.50	181.30	9,345.4	-714.4	66.2	714.7	8.75	8.75	0.00
9,698.0	87.90	182.80	9,347.5	-746.3	65.0	746.6	11.61	10.63	4.69
9,711.0	88.60	182.80	9,347.9	-759.3	64.4	759.6	5.38	5.38	0.00
9,837.0	88.40	181.20	9,351.2	-885.2	60.0	885.4	1.28	-0.16	-1.27
9,933.0	87.40	180.80	9,354.7	-981.1	58.3	981.3	1.12	-1.04	-0.42
10,028.0	89.20	182.10	9,357.5	-1,076.0	55.9	1,076.3	2.34	1.89	1.37
10,124.0	88.90	184.70	9,359.1	-1,171.8	50.2	1,172.0	2.73	-0.31	2.71
10,218.0	87.80	183.60	9,361.8	-1,265.6	43.4	1,265.7	1.65	-1.17	-1.17
10,313.0	90.00	180.50	9,363.6	-1,360.5	40.1	1,360.6	4.00	2.32	-3.26
10,409.0	90.80	179.20	9,363.0	-1,456.5	40.3	1,456.6	1.59	0.83	-1.35
10,505.0	90.20	176.80	9,362.1	-1,552.4	43.7	1,552.5	2.58	-0.63	-2.50
10,600.0	92.50	178.90	9,359.9	-1,647.3	47.2	1,647.5	3.28	2.42	2.21
10,694.0	93.80	179.40	9,354.7	-1,741.1	48.6	1,741.3	1.48	1.38	0.53
10,789.0	91.10	178.90	9,350.7	-1,836.0	50.0	1,836.2	2.89	-2.84	-0.53
10,884.0	89.80	180.30	9,349.9	-1,931.0	50.7	1,931.2	2.01	-1.37	1.47
10,980.0	88.60	180.60	9,351.3	-2,027.0	49.9	2,027.2	1.29	-1.25	0.31
11,075.0	87.80	178.70	9,354.2	-2,121.9	50.5	2,122.1	2.17	-0.84	-2.00
11,169.0	86.30	180.80	9,359.1	-2,215.8	50.9	2,216.0	2.74	-1.60	2.23



DDC
Survey Report



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Site:	Sec 28, T26S, R32E	MD Reference:	Well @ 3160.0usft (Nabors M-9)
Well:	Wilder Federal 28 #1H	North Reference:	Grid
Wellbore:	Curve & Lateral	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM 5000.1 Single User Db.

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)
11,264.0	86.40	180.60	9,365.1	-2,310.6	49.8	2,310.8	0.23	0.11	-0.21
11,358.0	92.90	183.30	9,365.7	-2,404.5	46.6	2,404.7	7.49	6.91	2.87
11,454.0	93.10	182.90	9,360.7	-2,500.2	41.4	2,500.4	0.47	0.21	-0.42
11,549.0	92.90	182.80	9,355.7	-2,595.0	36.7	2,595.1	0.24	-0.21	-0.11
11,643.0	93.30	183.50	9,350.6	-2,688.7	31.5	2,688.8	0.86	0.43	0.74
11,738.0	93.20	182.90	9,345.2	-2,783.4	26.2	2,783.5	0.64	-0.11	-0.63
11,833.0	91.30	181.40	9,341.5	-2,878.2	22.6	2,878.3	2.55	-2.00	-1.58
11,928.0	90.80	180.30	9,339.8	-2,973.2	21.2	2,973.3	1.27	-0.53	-1.16
12,023.0	91.70	177.50	9,337.7	-3,068.2	23.1	3,068.2	3.10	0.95	-2.95
12,118.0	89.50	177.10	9,336.7	-3,163.0	27.5	3,163.1	2.35	-2.32	-0.42
12,213.0	87.80	180.30	9,338.9	-3,258.0	29.7	3,258.1	3.81	-1.79	3.37
12,308.0	87.80	182.10	9,342.6	-3,352.9	27.7	3,353.0	1.89	0.00	1.89
12,404.0	89.10	182.10	9,345.2	-3,448.8	24.2	3,448.9	1.35	1.35	0.00
12,498.0	90.20	182.10	9,345.8	-3,542.7	20.7	3,542.8	1.17	1.17	0.00
12,593.0	89.50	181.00	9,346.0	-3,637.7	18.2	3,637.7	1.37	-0.74	-1.16
12,688.0	88.50	181.00	9,347.7	-3,732.7	16.5	3,732.7	1.05	-1.05	0.00
12,784.0	87.50	180.10	9,351.0	-3,828.6	15.6	3,828.6	1.40	-1.04	-0.94
12,880.0	88.70	179.80	9,354.2	-3,924.5	15.7	3,924.6	1.29	1.25	-0.31
12,974.0	89.80	180.30	9,355.4	-4,018.5	15.6	4,018.6	1.29	1.17	0.53
13,069.0	92.90	180.10	9,353.2	-4,113.5	15.3	4,113.5	3.27	3.26	-0.21
13,164.0	92.50	179.90	9,348.7	-4,208.4	15.3	4,208.4	0.47	-0.42	-0.21
13,259.0	93.00	179.40	9,344.2	-4,303.3	15.8	4,303.3	0.74	0.53	-0.53
13,301.0	92.90	178.70	9,342.0	-4,345.2	16.5	4,345.2	1.68	-0.24	-1.67
Projection to Bit									
13,358.0	92.90	178.70	9,339.1	-4,402.1	17.8	4,402.2	0.00	0.00	0.00

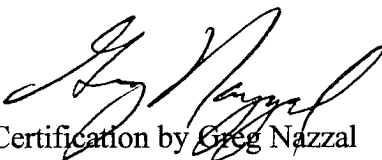
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	+E/-W (usft)	Comment
8,600.0	8,597.2	-99.1	66.3	Tie into Pilot Hole
13,358.0	9,339.1	-4,402.1	17.8	Projection to Bit

Checked By: _____ Approved By: _____ Date: _____

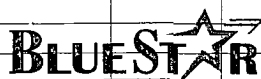


1407 Northpark Dr.
Kingwood, TX 77339
Cell: (281) 851-8112
Efax: (281) 966-1566

BlueStar MWD, LP performed a MWD survey for Conoco Phillips' Wilder Federal 28-1H, located in Lea Co., NM. The API number is: 30-025-40261. The surveys were taken from 888 MD to 9743 MD and ranged over the dates from 21-Sept-11 to 6-Oct-11 and are certified as being true and correct.



Certification by Greg Nazzal
President



Directional Drilling Services

MWD**SURVEY SHEET**

Customer: Conoco Phillips
 Well: Wilder Federal 28-1H
 Field/Block: Section 28, T26, R32E
 Co./Parish: Lea Co.
 State: New Mexico
 BStr Job #: 519

Job #: 519
 MWD Operator: Meyer & Ready
 Directional Driller: N/A
 Date of First Survey: September 21, 2011
 Date of Last Survey: October 6, 2011
 Survey Type: MWD

Total Correction: 7.24 West Grid

Vertical Section Plane: 179.71

Nominal Dip Angle: 59.97

Magnetic Field Strength: 0.48

Measured**Coordinates****Closure**

Depth Inc. Azm. T.V.D. Ver. Sect. +N/-S +E/-W Dist. Angle DLS

Survey's are tied into: Nabors Drift Surveys from 0-725 (surface casing)

Date Received:

Company: Assumed vertical to 725 MD

0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1	725	0.00	0.00	725.00	0.00	0.00	0.00	0.00	45.00	0.00
2	888	2.40	70.30	887.95	-1.13	1.15	3.21	3.41	70.30	1.47
3	983	2.20	90.90	982.88	-1.76	1.79	6.91	7.14	75.46	0.89
4	1078	2.00	95.10	1077.81	-1.56	1.62	10.38	10.51	81.15	0.27
5	1172	1.60	107.60	1171.77	-1.01	1.07	13.27	13.31	85.37	0.59
6	1265	1.40	113.80	1264.74	-0.14	0.22	15.55	15.55	89.18	0.28
7	1361	1.10	132.90	1360.71	0.97	-0.88	17.29	17.32	92.91	0.53
8	1458	1.10	139.90	1457.70	2.32	-2.22	18.58	18.71	96.83	0.14
9	1552	0.90	155.50	1551.68	3.68	-3.59	19.46	19.79	100.44	0.36
10	1647	0.90	172.20	1646.67	5.10	-5.00	19.87	20.49	104.13	0.28
11	1741	0.90	206.80	1740.66	6.49	-6.39	19.64	20.66	108.03	0.57
12	1835	1.30	222.40	1834.64	7.93	-7.84	18.59	20.17	112.87	0.53
13	1931	1.80	226.40	1930.61	9.77	-9.68	16.76	19.36	120.02	0.53
14	2025	1.70	233.70	2024.56	11.60	-11.53	14.57	18.58	128.35	0.26
15	2120	1.60	231.60	2119.52	13.25	-13.19	12.39	18.10	136.77	0.12
16	2215	1.40	243.10	2214.49	14.59	-14.53	10.32	17.83	144.62	0.38
17	2317	1.40	249.80	2316.46	15.57	-15.53	8.04	17.49	152.63	0.16
18	2412	1.70	248.40	2411.43	16.48	-16.45	5.64	17.39	161.07	0.32
19	2504	1.70	252.50	2503.38	17.38	-17.36	3.07	17.63	169.97	0.13
20	2599	1.70	246.00	2598.34	18.36	-18.36	0.44	18.36	178.63	0.20
21	2694	1.40	244.00	2693.31	19.43	-19.44	-1.89	19.53	185.56	0.32
22	2788	1.30	246.00	2787.28	20.36	-20.38	-3.90	20.75	190.83	0.12
23	2889	0.80	229.30	2888.26	21.27	-21.30	-5.48	22.00	194.42	0.58
24	2983	0.60	124.10	2982.26	21.98	-22.01	-5.57	22.70	194.20	1.19
25	3079	1.80	98.80	3078.24	22.50	-22.52	-3.66	22.82	189.24	1.34
26	3172	2.60	74.90	3171.17	22.19	-22.19	-0.18	22.19	180.47	1.29
27	3268	2.70	66.80	3267.07	20.76	-20.74	4.00	21.12	169.09	0.40
28	3362	3.20	61.40	3360.94	18.65	-18.61	8.34	20.39	155.87	0.61
29	3457	2.30	57.60	3455.83	16.38	-16.32	12.27	20.42	143.05	0.97
30	3553	1.40	54.40	3551.78	14.68	-14.60	14.85	20.83	134.51	0.94
31	3647	1.00	41.50	3645.76	13.40	-13.32	16.33	21.07	129.20	0.51
32	3741	1.50	87.40	3739.74	12.74	-12.65	18.10	22.08	124.94	1.15
33	3837	2.10	99.00	3835.69	12.97	-12.87	21.10	24.71	121.38	0.73
34	3931	2.00	104.40	3929.63	13.67	-13.54	24.39	27.89	119.05	0.23
35	4026	2.80	115.10	4024.55	15.08	-14.94	28.09	31.82	118.00	0.96
36	4127	3.30	120.50	4125.41	17.63	-17.46	32.83	37.19	118.01	0.57
37	4320	1.90	123.10	4318.20	22.23	-22.03	40.30	45.93	118.66	0.73
38	4408	1.00	131.4	4406.17	23.55	-23.33	42.10	48.13	119.00	1.05
39	4504	1.00	141.00	4502.16	24.76	-24.54	43.25	49.73	119.57	0.17

SUR:A-28-26s-32e, 610/N & 835/E
 BHL: P-28-26s-32e, 5012/N & 817/E
 API # 30-025-40261



Directional Drilling Services

MWD

SURVEY SHEET

Customer: Conoco Phillips
Well: Wilder Federal 28-1H
Field/Block: Section 28,T26,R32E
Co./Parish: Lea Co.
State: New Mexico
BStr Job #: 519

Job #: 519
MWD Operator: Meyer & Ready
Directional Driller: N/A
Date of First Survey: September 21,2011
Date of Last Survey: October 6, 2011
Survey Type: MWD

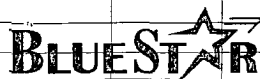
Total Correction: 7.24 West Grid

Vertical Section Plane: 179.71

Nominal Dip Angle: 59.97

Magnetic Field Strength: 0.48

Measured						Coordinates		Closure		
Depth		Inc.	Azm.	T.V.D.	Ver. Sect.	+N / -S	+E / -W	Dist.	Angle	DLS
40	4602	0.80	149.40	4600.15	26.02	-25.79	44.14	51.12	120.30	0.24
41	4697	0.70	146.70	4695.14	27.07	-26.85	44.80	52.22	120.94	0.11
42	4794	0.70	149.20	4792.13	28.08	-27.85	45.42	53.28	121.52	0.03
43	4889	0.90	137.80	4887.12	29.14	-28.90	46.22	54.52	122.02	0.27
44	4982	0.70	150.20	4980.11	30.17	-29.94	47.00	55.72	122.50	0.28
45	5078	0.90	148.00	5076.10	31.33	-31.09	47.69	56.92	123.10	0.21
46	5174	0.80	133.10	5172.09	32.43	-32.18	48.58	58.27	123.53	0.25
47	5270	0.60	152.70	5268.09	33.34	-33.09	49.30	59.37	123.87	0.32
48	5364	0.80	150.10	5362.08	34.35	-34.09	49.85	60.39	124.37	0.22
49	5459	0.70	156.90	5457.07	35.46	-35.20	50.41	61.48	124.93	0.14
50	5555	0.80	146.30	5553.06	36.56	-36.30	51.01	62.61	125.44	0.18
50	5650	0.50	157.70	5648.06	37.50	-37.23	51.53	63.58	125.85	0.34
52	5743	0.70	138.50	5741.05	38.30	-38.04	52.06	64.48	126.15	0.30
53	5838	0.70	145.80	5836.05	39.22	-38.95	52.77	65.59	126.43	0.09
54	5932	0.40	154.00	5930.04	39.99	-39.72	53.24	66.43	126.72	0.33
47	6027	0.40	138.90	6025.04	40.54	-40.27	53.60	67.04	126.91	0.11
48	6120	0.80	159.60	6118.03	41.39	-41.12	54.04	67.91	127.27	0.48
49	6218	0.70	147.90	6216.03	42.55	-42.27	54.60	69.05	127.75	0.19
50	6315	0.70	162.80	6313.02	43.62	-43.34	55.09	70.09	128.19	0.19
51	6505	0.90	153.20	6503.00	46.06	-45.78	56.11	72.41	129.21	0.13
52	6600	0.90	154.60	6597.99	47.40	-47.12	56.76	73.77	129.70	0.02
53	6693	0.90	152.40	6690.98	48.72	-48.43	57.41	75.11	130.15	0.04
54	6789	1.10	155.90	6786.96	50.23	-49.93	58.14	76.64	130.66	0.22
55	6884	1.10	160.70	6881.94	51.92	-51.63	58.81	78.26	131.28	0.10
56	6979	1.30	168.30	6976.92	53.84	-53.54	59.33	79.92	132.06	0.27
57	7171	1.20	169.00	7168.88	57.95	-57.65	60.16	83.32	133.78	0.05
58	7268	1.40	163.10	7265.85	60.09	-59.78	60.70	85.19	134.56	0.25
59	7362	1.30	168.80	7359.83	62.23	-61.93	61.24	87.09	135.32	0.18
60	7456	1.30	170.40	7453.80	64.33	-64.02	61.62	88.86	136.09	0.04
61	7551	1.40	161.40	7548.78	66.50	-66.19	62.17	90.81	136.79	0.25
62	7646	1.60	157.00	7643.74	68.82	-68.51	63.06	93.11	137.37	0.24
63	7741	1.50	154.10	7738.71	71.17	-70.85	64.12	95.56	137.85	0.13
64	7836	1.70	160.50	7833.67	73.62	-73.29	65.14	98.05	138.37	0.28
65	7931	2.00	159.20	7928.62	76.50	-76.17	66.20	100.91	139.01	0.32
66	8030	2.10	158.70	8027.56	79.82	-79.47	67.47	104.25	139.67	0.10
67	8125	1.90	164.30	8122.50	82.96	-82.61	68.53	107.33	140.32	0.29
68	8221	1.90	176.10	8218.45	86.08	-85.73	69.07	110.09	141.15	0.41
69	8315	2.00	180.00	8312.39	89.28	-88.93	69.17	112.66	142.12	0.18
70	8410	2.10	194.30	8407.33	92.62	-92.27	68.74	115.06	143.31	0.55
71	8505	2.20	201.50	8502.27	96.00	-95.66	67.64	117.16	144.73	0.30



Directional Drilling Services

MWD

SURVEY SHEET

Customer: Conoco Phillips
Well: Wilder Federal 28-1H
Field/Block: Section 28, T26, R32E
Co./Parish: Lea Co.
State: New Mexico
BStr Job #: 519

Job #: 519
MWD Operator: Meyer & Ready
Directional Driller: N/A
Date of First Survey: September 21, 2011
Date of Last Survey: October 6, 2011
Survey Type: MWD

Total Correction: 7.24 West Grid

Vertical Section Plane: 179.71

Nominal Dip Angle: 59.97

Magnetic Field Strength: 0.48

Measured

Coordinates

Closure

Depth	Inc.	Azm.	T.V.D.	Ver. Sect.	+N / -S	+E / -W	Dist.	Angle	DLS
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72	8600	2.20	200.60	8597.20	99.39	-99.06	66.33	119.22	146.19	0.04
73	8695	2.30	208.10	8692.12	102.77	-102.45	64.79	121.22	147.69	0.33
74	8789	2.70	213.30	8786.03	106.28	-105.96	62.69	123.12	149.39	0.49
75	8889	2.20	211.70	8885.94	109.87	-109.56	60.39	125.10	151.14	0.50
76	8984	2.50	224.50	8980.86	112.88	-112.59	57.98	126.64	152.75	0.63
77	9079	2.80	229.30	9075.76	115.86	-115.58	54.77	127.90	154.65	0.39
78	9174	2.80	212.00	9170.65	119.32	-119.06	51.78	129.84	156.50	0.89
79	9267	3.40	198.20	9263.52	123.86	-123.61	49.71	133.23	158.09	1.03
80	9363	4.20	190.00	9359.30	130.02	-129.78	48.21	138.44	159.62	1.01
81	9458	5.10	182.90	9453.99	137.66	-137.42	47.40	145.36	160.97	1.12
82	9556	5.20	184.80	9551.60	146.43	-146.20	46.80	153.50	162.25	0.20
83	9651	5.90	184.30	9646.15	155.59	-155.35	46.08	162.04	163.48	0.74
84	9743	5.50	187.80	9737.70	164.66	-164.44	45.12	170.52	164.66	0.58
PTB	9795	5.50	187.80	9789.46	169.60	-169.38	44.45	175.11	165.30	0.00