30-015-39219

OCCIDENTAL PERMIAN LTD.

Nash Draw Delaware
Eddy County, NM
Cypress 34 Federal #7H
VH - Job #32K0911850

Survey: Actual

SDI Standard Survey Report

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

T Linhart

Notarized this date 4th of October, 2011.

Carrie Reed

Notary Signature
County of Midland
State of Texas

NOTARY PUBLIC STATE OF TEXAS
CARRIE REED
My Commission Expires
October 4, 2011

Scientific Drilling
Directional Drilling Operations

Scientific Drilling International, Inc.

SDI Standard Survey Report

Scientific Drilling
Directional Drilling Operations

Company:	OCCIDENTAL PERMIAN LTD	**Local Co-ordinate Reference:**	Well Cypress 34 Federal #7H
Project:	Nash Draw Delaware	**TVD Reference:**	WELL @ 0 0usft (Original Well Elev)
Site:	Eddy County, NM	**MD Reference:**	WELL @ 0 0usft (Original Well Elev)
Well:	Cypress 34 Federal #7H	**North Reference:**	Grid
Wellbore:	VH - Job #32K0911850	**Survey Calculation Method:**	Minimum Curvature
Design:	VH - Job #32K0911850	**Database:**	EDM-Regulatory

Project Nash Draw Delaware

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 Eddy County, NM

Site Position:		**Northing:**	461,073.91 usft	**Latitude:**	32° 16' 1 542 N
From:	Lat/Long	**Easting:**	611,392 06 usft	**Longitude:**	103° 58' 22 621 W
Position Uncertainty:	0 0 usft	**Slot Radius:**	13-3/16"	**Grid Convergence:**	0 19 °

Well Cypress 34 Federal #7H, Directional (Unknown)

Well Position	**+N/-S**	0 0 usft	**Northing:**	461,073.91 usft	**Latitude:**	32° 16' 1 542 N
	+E/-W	0 0 usft	**Easting:**	611,392.06 usft	**Longitude:**	103° 58' 22 621 W
Position Uncertainty		0 0 usft	**Wellhead Elevation:**	usft	**Ground Level:**	0 0 usft

Wellbore VH - Job #32K0911850

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	9/7/2011	7 75	60 15	48,600

Design VH - Job #32K0911850

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	319 36

Survey Program **Date** 10/23/2011

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
104 8	257 1	Actual (VH - Job #32K0911850)	Keeper	Keeper Surface Readout

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	True Vertical Depth	North/South (usft)	East/West (usft)	Closure Azimuth (°)	Closure Distance (usft)
0.0	0.00	0 00	0 0	0 0	0 0	0.00	0 0
104.8	0 40	332 55	104 8	0.3	-0.2	332 55	0.4
166 1	0 41	313 54	166.1	0 7	-0 4	327.36	0 8
257 1	0 69	311 27	257 1	1 3	-1 1	319.36	1 6

Scientific Drilling
Directional Drilling Operations

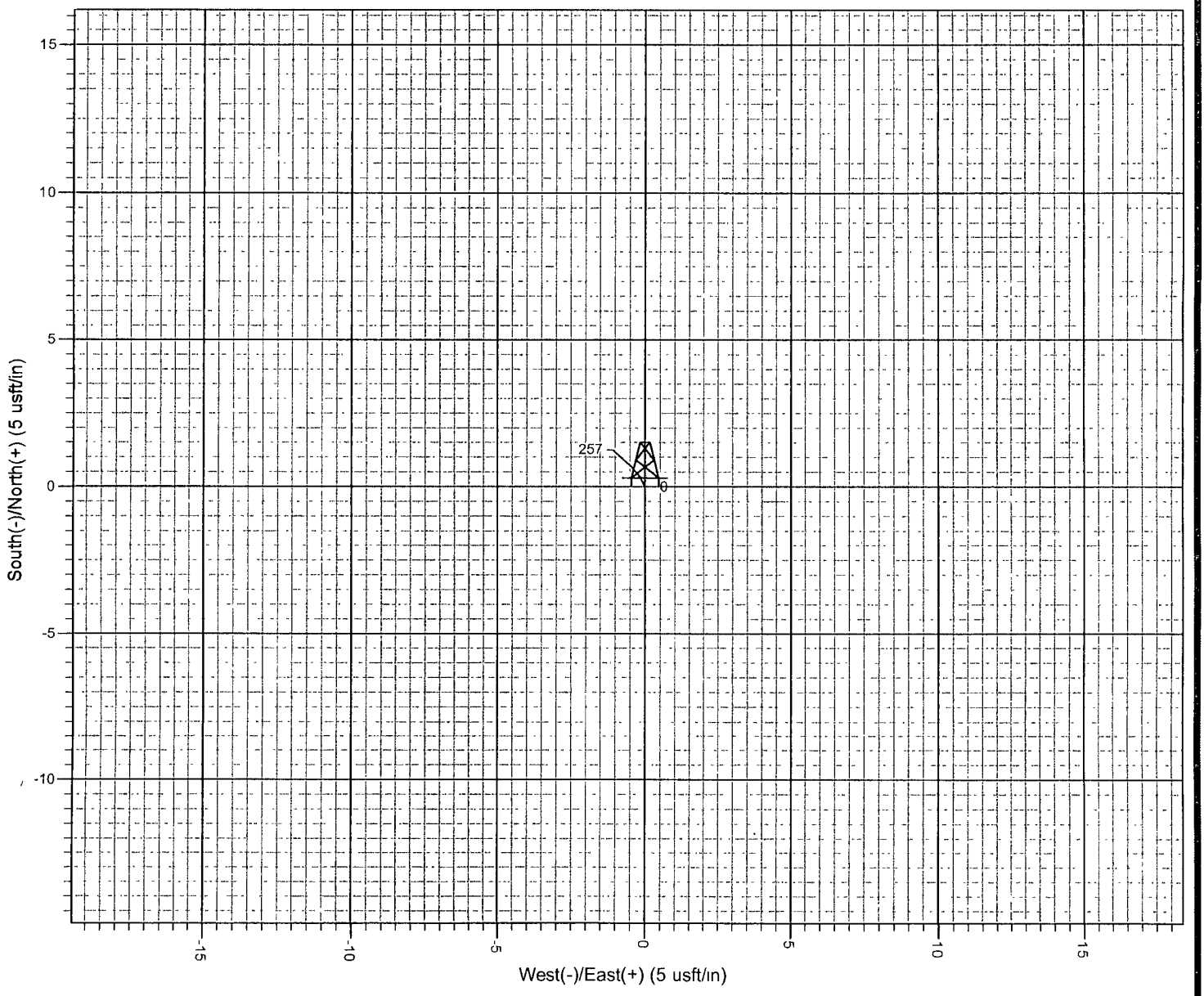
Project: Nash Draw Delaware
Eddy County, NM
Well: Cypress 34 Federal #7H
Wellbore: VH - Job #32K0911850
Design: VH - Job #32K0911850

Azimuths to Grid North
True North -0.19°
Magnetic North: 7.55°

Magnetic Field
Strength: 48600.2snT
Dip Angle: 60.15°
Date: 9/7/2011
Model: IGRF2010

WELL DETAILS: Cypress 34 Federal #7H
WELL @ 0.0usft (Original Well Elev)
Ground Level: 0.0

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0.0	461073.91	611392.06	32° 16' 1.542 N	103° 58' 22.621 W	



PROJECT DETAILS: Nash Draw Delaware
Geodetic System: US State Plane 1927 (Exact solution)
Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1866
Zone: New Mexico East 3001
System Datum: Mean Sea Level

SITE DETAILS: Eddy County, NM
Site Centre Latitude: 32° 16' 1.542 N
Longitude: 103° 58' 22.621 W
Positional Uncertainity: 0.0
Convergence: 0.19
Local North: Grid

SURVEY REPORT

Weatherford®

Report Date: **9/27/2011**
Customer: **Oxy Permian**
Job Name: **4023827**
Well Name: **Cypress 34 Fed #7H**

Field: **Nash Draw Delaware**
Rig: **H&P 370**
Rig Loc. **Eddy County, NM**

Survey Calculation Method. **Minimum Curvature**

Magnetic Reference	Target Direction	Total Magnetic Field	Magnetic Dip Angle	Magnetic Declination	Grid Convergence	Total Correction
Grid North	**180.13 deg**	**48590 nT**	**60.15 deg**	**7.74 deg**	**0.19 deg**	**7.55 deg**

	Depth	INC	AZ	TVD	NS	EW
Survey Tie-On	**0.00 ft**	**0.00 deg**	**0.00 deg**	**0.00 ft**	**0.00 ft**	**0.00 ft**

Depth (ft)	Inc (deg)	Azm (deg)	TVD (ft)	Well Head NS (ft)	Well Head EW (ft)	VSect (ft)	Dogleg (deg/100ft)
104 80	0 40	332.55	104 80	0.32	-0.17	-0.32	0.38
166.10	0.41	313.54	166 10	0.67	-0 43	-0 66	0.22
257 10	0.69	311 27	257.09	1.25	-1 07	-1.25	0 31
415 00	0 64	304 70	414.98	2.38	-2.51	-2.37	0 06
507.00	0 53	302 53	506.98	2.90	-3.29	-2.89	0.12
599 00	0 61	305 74	598 97	3.42	-4.05	-3.41	0.09
691.00	0.55	298.81	690 97	3 92	-4.84	-3 90	0 10
783.00	0 65	309.38	782.96	4.46	-5.63	-4.45	0 16
875.00	0 60	309.54	874.96	5.10	-6.40	-5.08	0 05
967 00	0 62	300.76	966.95	5.66	-7.20	-5.64	0 10
1059.00	0.55	294 68	1058 95	6 10	-8.03	-6.08	0.10
1154 00	0.64	284.80	1153 94	6.42	-8 96	-6 40	0.14
1248.00	0.84	284.66	1247 93	6.73	-10.13	-6.71	0 21
1343 00	0 73	280.40	1342 93	7.02	-11.40	-6.99	0 13
1437.00	0.27	239.41	1436.92	7.01	-12.18	-6.98	0 59
1532.00	0 25	149.83	1531.92	6 72	-12 27	-6 69	0.39
1626.00	0 11	212 77	1625.92	6.47	-12.21	-6.44	0 24
1721.00	0.11	224 10	1720 92	6 32	-12 33	-6 30	0.02
1815.00	0.15	257.85	1814 92	6 23	-12 51	-6 21	0 09
1910.00	0 11	332.31	1909.92	6 29	-12 67	-6 26	0.17
2005 00	0.05	316.24	2004 92	6.40	-12.74	-6.37	0.07
2099 00	0.05	21 99	2098.92	6.47	-12.76	-6.44	0.06
2194.00	0.05	250 07	2193.92	6.49	-12.78	-6.46	0.10
2289.00	0 30	107.77	2288.92	6.40	-12 58	-6.37	0 36
2383 00	0 52	97.27	2382.92	6.27	-11.93	-6.24	0.25
2477.00	1.10	122.15	2476.91	5 74	-10 74	-5 71	0 71
2572.00	0.89	120.42	2571 89	4.88	-9.33	-4 86	0.22
2666 00	1 24	119.32	2665.88	4.01	-7.81	-3 99	0 37
2761.00	1 64	131.45	2760.85	2.61	-5.90	-2.59	0.53
2855.00	1 64	150 81	2854 81	0 54	-4 23	-0.53	0 59
2950.00	0.98	173.39	2949.78	-1.45	-3 48	1 46	0 87
3044 00	0.55	165 81	3043.78	-2.69	-3.27	2 69	0 47
3074 00	0 62	166.37	3073.77	-2.98	-3.20	2 99	0 23
3202 00	0 53	187.20	3201.77	-4 24	-3.11	4.25	0 18
3296.00	0.33	176.88	3295.76	-4.95	-3.15	4 95	0.23

Depth (ft)	Inc (deg)	Azm (deg)	TVD (ft)	Well Head NS (ft)	EW (ft)	VSect (ft)	Dogleg (deg/100ft)
3391.00	0.44	154 05	3390 76	-5.55	-2 98	5.55	0 20
3486.00	0.45	129 97	3485.76	-6.11	-2.53	6 12	0.20
3580 00	0.31	160.99	3579.76	-6.59	-2 17	6.60	0 26
3674.00	0.51	148 35	3673.76	-7.19	-1 86	7.19	0.23
3768.00	0 33	141.38	3767.75	-7.76	-1 47	7.76	0.20
3862.00	0 44	144 25	3861.75	-8.26	-1.10	8 26	0.12
3957.00	0.44	146.12	3956.75	-8 86	-0.68	8 86	0.02
4051.00	0.44	134 48	4050.74	-9.41	-0.22	9.41	0.09
4146.00	0.31	124.75	4145.74	-9.81	0.25	9 81	0 15
4240.00	0.36	130 19	4239.74	-10.15	0.69	10.15	0.06
4334.00	0 50	119 65	4333 74	-10.54	1.27	10.54	0.17
4428.00	0.53	123.91	4427.73	-10.99	1.99	10.98	0.05
4523.00	0.53	143.12	4522 73	-11.59	2.61	11.58	0.19
4617.00	0.53	137.10	4616 73	-12 25	3.17	12.24	0 06
4712 00	0.44	144.89	4711.72	-12.87	3.68	12.86	0.12
4806.00	0.49	135.98	4805 72	-13.46	4.17	13.45	0 09
4900.00	0.49	153 99	4899.72	-14.11	4.62	14.10	0 16
4994.00	0.44	151.06	4993.71	-14 78	4.97	14 77	0 06
5087 00	0.44	164.87	5086.71	-15.44	5.24	15.43	0 11
5181 00	0.36	177.37	5180.71	-16.08	5.35	16.07	0.13
5275.00	0 38	195 10	5274.71	-16.68	5.28	16 67	0.12
5370 00	0.58	187.33	5369.70	-17.46	5.14	17 45	0.22
5464.00	0.41	185.40	5463.70	-18.27	5.04	18.26	0 18
5558.00	0.31	175.39	5557.70	-18.86	5.03	18.84	0.13
5653.00	0.26	187.73	5652 70	-19.33	5.02	19 31	0.08
5747.00	0.19	170.24	5746.70	-19.69	5.02	19 68	0.10
5841.00	0.14	169 43	5840.70	-19.96	5.07	19 95	0.05
5936 00	0.20	159 09	5935.69	-20.23	5.15	20.21	0 07
6026 00	0 28	142.38	6025 69	-20.55	5.34	20.54	0.12
6090 00	0 80	156.31	6089 69	-21.08	5.61	21.07	0 83
6122.00	4.33	177.96	6121 65	-22.49	5 75	22.48	11 25
6153.00	10.15	183.60	6152 39	-26.39	5.62	26.38	18 89
6185.00	15.02	184 91	6183.62	-33.34	5 09	33.33	15.24
6216.00	18 66	186.43	6213.28	-42 27	4.19	42.27	11 83
6247.00	22.26	186.16	6242.32	-53.04	3.00	53 04	11 62
6278.00	24.72	185.51	6270.75	-65.34	1 75	65 33	7 98
6310.00	27.00	183 94	6299.54	-79.24	0 61	79 24	7.44
6342.00	29.28	180.63	6327 76	-94.32	0 02	94 32	8.63
6373.00	30.98	178.35	6354 57	-109.88	0 17	109.87	6.61
6405.00	32.55	178.01	6381 78	-126.71	0 70	126.71	4 94
6436.00	34.88	177 11	6407.56	-143.90	1.44	143 90	7 69
6467.00	38 01	178.19	6432 50	-162.30	2.19	162 29	10 31
6499 00	40.20	178 56	6457.33	-182.47	2.76	182 47	6.88
6530.00	42.36	179.95	6480.62	-202.92	3.02	202.91	7 57
6562.00	44.58	181.00	6503.85	-224.93	2.83	224.93	7 30
6593.00	45.75	181.91	6525.70	-246.91	2.27	246.90	4 31
6625.00	47 38	181.12	6547 70	-270 14	1 66	270 13	5.40
6656 00	49.98	180.68	6568 17	-293.41	1.30	293.41	8.45
6687.00	52.17	180.39	6587 65	-317.53	1.07	317.53	7.10
6719.00	53 99	179.21	6606.87	-343.11	1 16	343 11	6.41

Depth (ft)	Inc (deg)	Azm (deg)	TVD (ft)	Well Head NS (ft)	EW (ft)	VSect (ft)	Dogleg (deg/100ft)
6750 00	56.26	178 87	6624.59	-368.54	1 59	368.53	7.38
6782.00	58.74	179 33	6641.78	-395.52	2.01	395.51	7 84
6813.00	60.92	180.30	6657 36	-422.32	2 10	422.31	7.53
6845 00	62.32	181.13	6672 57	-450.47	1 75	450.46	4.93
6876.00	64.67	182.17	6686.41	-478 20	0.94	478.19	8.15
6907.00	66.90	182.18	6699 12	-506.45	-0.13	506.45	7.19
6939.00	69.44	181 74	6711 02	-536.13	-1 14	536.13	8.04
6971.00	72 16	181 23	6721.54	-566.34	-1 93	566.34	8 63
7002.00	75.33	181.66	6730.22	-596.09	-2.68	596.09	10.31
7034.00	77.23	181.97	6737.81	-627.16	-3.66	627.16	6 01
7065.00	79.57	182.17	6744.04	-657 50	-4 76	657 51	7.57
7096.00	82.56	182.21	6748 86	-688.10	-5.93	688.11	9 65
7128.00	85.00	182.39	6752.32	-719 88	-7.21	719.90	7 65
7159 00	87.53	182.37	6754.34	-750 79	-8.49	750.81	8 16
7190.00	89 81	181 73	6755.06	-781.76	-9.60	781.78	7 64
7253 00	91.59	180.32	6754.29	-844 74	-10.73	844.76	3.60
7347 00	92.47	180.12	6750.96	-938.68	-11 09	938.70	0.96
7442.00	91.36	179.59	6747.79	-1033 62	-10 85	1033 65	1.29
7536.00	91 23	179.87	6745 66	-1127.60	-10.40	1127.62	0.33
7630.00	89 81	178.02	6744 81	-1221 57	-8.67	1221.59	2.48
7724.00	90.09	178.74	6744 89	-1315.53	-6.01	1315.54	0.82
7819 00	91.11	179.26	6743 90	-1410.51	-4.36	1410.52	1.21
7913 00	90 12	178.78	6742.89	-1504.49	-2 75	1504.49	1.17
8007 00	90.37	178.90	6742 49	-1598.47	-0.85	1598.47	0.30
8101 00	90.56	178.94	6741 72	-1692.45	0.93	1692.45	0.21
8195.00	90.00	177.85	6741 26	-1786.41	3 56	1786.40	1.30
8290 00	89.81	177.08	6741.42	-1881.32	7.76	1881 30	0.83
8384 00	90.00	175.90	6741 58	-1975.14	13.51	1975.10	1 27
8478.00	88.89	176 98	6742 49	-2068.95	19.35	2068 90	1.65
8572.00	87 29	178 84	6745.62	-2162.83	22 78	2162.77	2.61
8666 00	87.53	182.13	6749.87	-2256.72	21 98	2256.66	3 51
8761.00	88.39	183.48	6753.25	-2351.54	17.34	2351.49	1.68
8855 00	90.00	184.57	6754.57	-2445.29	10.74	2445.26	2 07
8949 00	90.74	184.71	6753 97	-2538.98	3.14	2538.97	0 80
9043 00	90.93	184.33	6752.60	-2632.68	-4 27	2632.68	0 45
9137 00	90.06	184.05	6751 78	-2726.43	-11 14	2726.44	0.97
9231.00	90.68	183.36	6751 18	-2820 23	-17 21	2820.26	0 99
9325 00	89.01	180.89	6751.43	-2914.15	-20.70	2914 19	3.17
9420 00	90.12	181.46	6752 15	-3009 13	-22.65	3009 17	1.31
9514.00	91.11	180.58	6751 14	-3103 10	-24 32	3103.15	1 41
9608.00	91 85	179 46	6748.71	-3197.07	-24.35	3197 12	1.43
9702.00	90.56	177.25	6746 74	-3291 00	-21 65	3291.04	2 72
9797 00	91.61	178.01	6744.94	-3385.90	-17.73	3385 93	1.36
9891.00	89 69	178.21	6743 87	-3479 84	-14.63	3479.86	2.05
9985 00	89.65	178.91	6744 41	-3573 81	-12.26	3573.83	0.75
10079.00	90.92	179 99	6743.95	-3667.80	-11.36	3667.82	1 77
10173.00	90.56	179.38	6742 73	-3761.79	-10.85	3761.80	0.75
10268 00	89.32	178.78	6742.83	-3856.78	-9.32	3856.79	1 45
10362 00	88 76	178 18	6744.41	-3950.73	-6 83	3950 73	0 87
10456 00	89.07	177.86	6746 19	-4044.65	-3.58	4044 65	0.47

Depth (ft)	Inc (deg)	Azm (deg)	TVD (ft)	Well Head NS (ft)	EW (ft)	VSect (ft)	Dogleg (deg/100ft)
10550.00	89 26	180 28	6747 56	-4138.63	-2.05	4138 62	2.58
10644.00	88 83	178 31	6749.12	-4232.60	-0 90	4232.59	2.14
10739.00	88.83	180.30	6751.06	-4327.57	0.25	4327.56	2.09
10768.00	89 20	180.97	6751.56	-4356 56	-0.07	4356 55	2.64

Weatherford surveys from 415 ft MD to 10768 ft MD.
TD at 10833 ft MD.
The total correction is 7 55 deg relative to Grid North.

OCCIDENTAL PERMIAN LTD.

Nash Draw Delaware
Eddy County, NM
Cypress 34 Federal #7H
VH - Job #32K0212204

Survey: Gyro

SDI Standard Survey Report

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

Notarized this date 14th of March, 2012.

Notary Signature
County of Midland
State of Texas

NOTARY PUBLIC STATE OF TEXAS
CARRIE REED
My Commission Expires
October 4, 2015

Scientific Drilling
Directional Drilling Operations

Scientific Drilling International, Inc.

SDI Standard Survey Report

Scientific Drilling
Directional Drilling Operations

Company:	OCCIDENTAL PERMIAN LTD	**Local Co-ordinate Reference:**	Well Cypress 34 Federal #7H
Project:	Nash Draw Delaware	**TVD Reference:**	WELL @ 0 0usft (Original Well Elev)
Site:	Eddy County, NM	**MD Reference:**	WELL @ 0 0usft (Original Well Elev)
Well:	Cypress 34 Federal #7H	**North Reference:**	Grid
Wellbore:	VH - Job #32K0212204	**Survey Calculation Method:**	Minimum Curvature
Design:	VH - Job #32K0212204	**Database:**	EDM-Regulatory

Project Nash Draw Delaware

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 Eddy County, NM

Site Position:		**Northing:**	461,073 91 usft	**Latitude:**	32° 16' 1 542 N
From:	Lat/Long	**Easting:**	611,392 06 usft	**Longitude:**	103° 58' 22 621 W
Position Uncertainty:	0 0 usft	**Slot Radius:**	13-3/16"	**Grid Convergence:**	0 19 °

Well Cypress 34 Federal #7H, Directional (Unknown)

Well Position	**+N/-S**	0 0 usft	**Northing:**	461,073 91 usft	**Latitude:**	32° 16' 1 542 N
	+E/-W	0 0 usft	**Easting:**	611,392 06 usft	**Longitude:**	103° 58' 22 621 W
Position Uncertainty		0 0 usft	**Wellhead Elevation:**	usft	**Ground Level:**	0 0 usft

Wellbore VH - Job #32K0212204

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	2/21/2012	7 69	60 14	48,555

Design VH - Job #32K0212204

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	166 79

Survey Program **Date** 3/13/2012

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
100 0	6,098 0	Gyro (VH - Job #32K0212204)	Keeper	Keeper Surface Readout

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	True Vertical Depth	North/South (usft)	East/West (usft)	Closure Azimuth (°)	Closure Distance (usft)
0 0	0 00	0 00	0 0	0 0	0 0	0 00	0 0
100 0	0 34	338 95	100 0	0 3	-0 1	338 95	0 3
115 0	0 50	328 12	115 0	0 4	-0 2	337 21	0 4
130 0	0 59	322 42	130 0	0 5	-0 2	334 06	0 5
145 0	0 47	314 67	145 0	0 6	-0 3	331 02	0 7
160 0	0 47	308.32	160.0	0 7	-0 4	328 07	0 8
175 0	0 49	298 32	175 0	0 7	-0 5	324 76	0 9
190 0	0 53	299 32	190 0	0 8	-0 6	321 53	1 0
205 0	0 53	299 76	205 0	0 9	-0 8	318 97	1.2
220 0	0 53	300 46	220 0	0 9	-0 9	316 99	1 3
235.0	0 54	300 07	235 0	1 0	-1 0	315 37	1 4
250 0	0 51	297 75	250.0	1 1	-1 1	313 95	1 6

Company:	OCCIDENTAL PERMIAN LTD	**Local Co-ordinate Reference:**	Well Cypress 34 Federal #7H
Project:	Nash Draw Delaware	**TVD Reference:**	WELL @ 0.0usft (Original Well Elev)
Site:	Eddy County, NM	**MD Reference:**	WELL @ 0 0usft (Original Well Elev)
Well:	Cypress 34 Federal #7H	**North Reference:**	Grid
Wellbore:	VH - Job #32K0212204	**Survey Calculation Method:**	Minimum Curvature
Design:	VH - Job #32K0212204	**Database:**	EDM-Regulatory

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	True Vertical Depth	North/South (usft)	East/West (usft)	Closure Azimuth (°)	Closure Distance (usft)
265 0	0 51	297 94	265 0	1 1	-1 2	312 69	1 7
280 0	0 52	300 71	280 0	1 2	-1 4	311 72	1.8
295 0	0 54	300 66	295 0	1 3	-1 5	310 94	2 0
310 0	0 54	301 25	310.0	1 4	-1 6	310 27	2 1
325 0	0 54	302 02	325 0	1 4	-1 7	309 73	2 2
340 0	0 56	304 24	340 0	1 5	-1 8	309 33	2 4
355 0	0 58	304 61	355 0	1 6	-2 0	309 04	2 5
370 0	0 60	304 71	370 0	1 7	-2 1	308 79	2 7
385 0	0 56	303 60	385 0	1 8	-2 2	308 54	2 8
400 0	0 56	301 62	400 0	1 8	-2 3	308 25	3 0
415 0	0 59	304 15	415 0	1 9	-2 5	308 00	3 1
430 0	0 61	305 46	430 0	2 0	-2 6	307 84	3 3
445 0	0 60	302 36	445 0	2 1	-2 7	307 66	3 4
460 0	0 61	302 41	460 0	2 2	-2 9	307 43	3 6
475 0	0 61	301 73	475 0	2 3	-3 0	307 20	3 8
490 0	0 58	299 94	490 0	2 4	-3 1	306 95	3 9
505 0	0 58	298 30	505 0	2 4	-3 3	306 66	4 1
520 0	0 62	303 52	520 0	2 5	-3 4	306 45	4 2
535 0	0 60	302 41	535 0	2 6	-3 5	306 33	4 4
550 0	0 61	302 36	550 0	2 7	-3 7	306 19	4 5
565 0	0 59	299 75	565 0	2 8	-3 8	306 02	4 7
580 0	0 58	299 12	580 0	2 8	-3 9	305 81	4 9
595 0	0 58	300 56	595 0	2 9	-4 1	305 63	5 0
610 0	0 56	299 52	610 0	3 0	-4 2	305 47	5 2
625 0	0 59	301 36	625 0	3 1	-4 3	305 33	5 3
640 0	0 58	299 51	640 0	3 1	-4 5	305 19	5 5
655 0	0 56	299 57	655 0	3 2	-4 6	305 04	5 6
670 0	0 57	298 61	670 0	3 3	-4 7	304 89	5 7
685 0	0 59	298 67	685 0	3 4	-4 8	304 73	5 9
700 0	0 56	300 23	700 0	3 4	-5 0	304 59	6 0
715 0	0 56	302 47	715 0	3 5	-5 1	304 52	6 2
730 0	0 52	298 34	730 0	3 6	-5 2	304 43	6 3
745 0	0 50	298 87	745 0	3 6	-5 3	304 31	6 5
760 0	0 54	301 67	760 0	3 7	-5 5	304 22	6 6
775 0	0 57	302 79	775 0	3 8	-5 6	304 18	6 8
790 0	0 56	305 05	790 0	3 9	-5 7	304 18	6 9
805 0	0 53	300 58	805 0	4 0	-5 8	304 15	7 0
820 0	0 55	303 38	820 0	4 0	-5 9	304 11	7 2
835 0	0 57	302 94	835 0	4 1	-6 1	304 09	7 3
850 0	0 54	300 55	850 0	4 2	-6 2	304 04	7 5
865 0	0 58	304 68	865 0	4 3	-6 3	304 02	7 6
880 0	0 59	302 24	880 0	4 3	-6 4	304 01	7 8
895.0	0 61	300 19	895 0	4 4	-6 6	303 95	7 9
910 0	0 58	299 49	910 0	4 5	-6 7	303 87	8 1

Company:	OCCIDENTAL PERMIAN LTD	**Local Co-ordinate Reference:**	Well Cypress 34 Federal #7H
Project:	Nash Draw Delaware	**TVD Reference:**	WELL @ 0 0usft (Original Well Elev)
Site:	Eddy County, NM	**MD Reference:**	WELL @ 0 0usft (Original Well Elev)
Well:	Cypress 34 Federal #7H	**North Reference:**	Grid
Wellbore:	VH - Job #32K0212204	**Survey Calculation Method:**	Minimum Curvature
Design:	VH - Job #32K0212204	**Database:**	EDM-Regulatory

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	True Vertical Depth	North/South (usft)	East/West (usft)	Closure Azimuth (°)	Closure Distance (usft)
925 0	0 59	300 45	925 0	4 6	-6 8	303 80	8.2
940 0	0 61	299 15	940.0	4 7	-7 0	303 72	8 4
955 0	0 62	297 16	955 0	4 7	-7 1	303 62	8 6
970 0	0 61	293 60	970 0	4 8	-7.3	303 47	8 7
985 0	0 60	292 66	985 0	4 9	-7 4	303 29	8 9
1,000.0	0 64	296 01	1,000 0	4 9	-7 6	303 13	9 0
1,015 0	0 62	293 53	1,015 0	5 0	-7 7	302 98	9 2
1,030 0	0 62	292 93	1,030 0	5 1	-7 9	302 81	9 4
1,045 0	0 65	295 62	1,045 0	5.1	-8 0	302 66	9 5
1,060.0	0 64	296 00	1,060 0	5 2	-8 2	302 54	9.7
1,075 0	0 64	295.98	1,075.0	5 3	-8 3	302 43	9 9
1,090 0	0 63	294 61	1,090 0	5 4	-8 5	302 31	10 0
1,105 0	0 64	295 31	1,104 9	5 4	-8 6	302 19	10 2
1,120 0	0 66	292 23	1,119 9	5 5	-8 8	302 05	10 4
1,135 0	0.68	288 69	1,134 9	5 6	-8 9	301 86	10 5
1,150 0	0 72	289 30	1,149.9	5 6	-9 1	301 64	10 7
1,165 0	0 74	289 80	1,164 9	5 7	-9 3	301.43	10 9
1,180.0	0 71	286 03	1,179 9	5 7	-9 5	301 20	11 1
1,195 0	0 71	285 05	1,194 9	5 8	-9 6	300 95	11 3
1,210 0	0 72	286 01	1,209 9	5 8	-9 8	300 70	11.4
1,225 0	0.75	285 03	1,224 9	5 9	-10 0	300 45	11 6
1,240 0	0 73	281 51	1,239 9	5 9	-10 2	300 17	11.8
1,255 0	0 70	281 20	1,254 9	6 0	-10 4	299 88	12 0
1,270 0	0 70	282 01	1,269 9	6 0	-10 6	299 61	12 2
1,285 0	0 69	279 88	1,284 9	6 0	-10 7	299 34	12 3
1,300 0	0 67	280 88	1,299 9	6 1	-10 9	299 08	12 5
1,315 0	0 66	282.41	1,314 9	6 1	-11 1	298 84	12.7
1,330 0	0 66	283 30	1,329.9	6 1	-11 3	298 63	12 8
1,345 0	0 64	283 75	1,344 9	6 2	-11 4	298 43	13 0
1,360 0	0 65	282 28	1,359 9	6 2	-11 6	298 24	13 2
1,375 0	0 56	280 39	1,374 9	6 3	-11 7	298 04	13 3
1,390 0	0 50	279 88	1,389 9	6 3	-11 9	297 86	13 4
1,405 0	0 37	278 05	1,404 9	6 3	-12 0	297 70	13 5
1,420 0	0 29	278 55	1,419 9	6 3	-12 1	297 58	13.6
1,435 0	0 22	281 47	1,434 9	6 3	-12 1	297 50	13.7
1,450 0	0 16	275 47	1,449 9	6 3	-12 2	297 43	13 7
1,465 0	0 15	279 59	1,464 9	6 3	-12 2	297 37	13.8
1,480 0	0 10	267 68	1,479 9	6 3	-12 3	297 32	13 8
1,495 0	0 07	262 76	1,494 9	6 3	-12 3	297 27	13 8
1,510 0	0 12	268.15	1,509 9	6 3	-12 3	297 22	13 8
1,525 0	0 11	270.42	1,524 9	6.3	-12 3	297 16	13 9
1,540 0	0 10	254 94	1,539 9	6 3	-12 4	297 10	13 9
1,555 0	0 12	256 12	1,554 9	6 3	-12 4	297 02	13.9
1,570 0	0 10	246.52	1,569 9	6 3	-12 4	296 94	13 9

Company:	OCCIDENTAL PERMIAN LTD	**Local Co-ordinate Reference:**	Well Cypress 34 Federal #7H
Project:	Nash Draw Delaware	**TVD Reference:**	WELL @ 0 0usft (Original Well Elev)
Site:	Eddy County, NM	**MD Reference:**	WELL @ 0 0usft (Original Well Elev)
Well:	Cypress 34 Federal #7H	**North Reference:**	Grid
Wellbore:	VH - Job #32K0212204	**Survey Calculation Method:**	Minimum Curvature
Design:	VH - Job #32K0212204	**Database:**	EDM-Regulatory

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	True Vertical Depth	North/South (usft)	East/West (usft)	Closure Azimuth (°)	Closure Distance (usft)
1,585 0	0 09	247 24	1,584.9	6 3	-12 4	296 86	14 0
1,600 0	0 09	243 04	1,599 9	6 3	-12.5	296 78	14 0
1,615 0	0 10	247 94	1,614 9	6 3	-12 5	296 70	14 0
1,630 0	0 10	253 76	1,629 9	6 3	-12 5	296 63	14 0
1,645 0	0 09	228 31	1,644 9	6 3	-12 5	296 55	14 0
1,660 0	0 11	260 45	1,659 9	6 3	-12 6	296 47	14 0
1,675 0	0 10	255.72	1,674 9	6 2	-12 6	296 40	14 1
1,690 0	0 12	273 13	1,689 9	6 2	-12 6	296 34	14 1
1,705 0	0 20	292 74	1,704 9	6 3	-12 7	296 31	14 1
1,720 0	0 28	295 23	1,719 9	6 3	-12 7	296 30	14 2
1,735 0	0 13	272 11	1,734 9	6 3	-12 8	296 27	14 2
1,750 0	0 09	245 85	1,749 9	6 3	-12 8	296 20	14 3
1,765 0	0 08	248 50	1,764 9	6 3	-12 8	296 13	14 3
1,780 0	0 07	260 63	1,779 9	6 3	-12 8	296 08	14 3
1,795 0	0 07	204 78	1,794 9	6 3	-12 8	296 02	14 3
1,810 0	0 05	206 59	1,809 9	6.3	-12 9	295 96	14 3
1,825 0	0 03	243 96	1,824.9	6 2	-12 9	295 92	14 3
1,840 0	0 03	262 00	1,839 9	6 2	-12 9	295.90	14 3
1,855.0	0 03	219 15	1,854 9	6 2	-12.9	295 88	14 3
1,870 0	0 04	267 74	1,869 9	6 2	-12 9	295 85	14 3
1,885 0	0 06	289 91	1,884 9	6.2	-12 9	295 84	14 3
1,900 0	0 04	281 49	1,899 9	6 2	-12 9	295 83	14.3
1,915 0	0 07	283 48	1,914.9	6 2	-12 9	295 82	14 4
1,930 0	0 09	287 98	1,929 9	6 3	-12.9	295 80	14 4
1,945 0	0 07	280 17	1,944 9	6 3	-13 0	295 79	14 4
1,960 0	0 09	284 99	1,959 9	6 3	-13 0	295 77	14 4
1,975 0	0 04	277 79	1,974.9	6 3	-13 0	295 75	14 4
1,990 0	0 02	243 36	1,989 9	6 3	-13 0	295 74	14 4
2,005 0	0 03	268 44	2,004 9	6 3	-13 0	295 72	14 4
2,020 0	0 03	264 46	2,019 9	6 3	-13 0	295 71	14 4
2,035 0	0 03	249 88	2,034.9	6 3	-13 0	295 69	14 5
2,050 0	0 04	276 48	2,049 9	6 3	-13 0	295 67	14 5
2,065 0	0 04	292 60	2,064.9	6 3	-13 0	295 66	14 5
2,080 0	0 04	311 57	2,079 9	6 3	-13 1	295 67	14 5
2,095 0	0 06	345 41	2,094 9	6 3	-13 1	295 70	14 5
2,110 0	0 05	332 47	2,109 9	6 3	-13 1	295 74	14 5
2,125 0	0 03	300 49	2,124.9	6 3	-13 1	295 75	14 5
2,140 0	0 04	287 26	2,139 9	6 3	-13 1	295 75	14 5
2,155 0	0 06	60 86	2,154 9	6 3	-13 1	295 77	14.5
2,170 0	0 08	80 85	2,169 9	6 3	-13 1	295 82	14 5
2,185 0	0 08	98 78	2,184 9	6 3	-13 0	295 86	14 5
2,200 0	0 08	113 62	2,199 9	6 3	-13 0	295 87	14 5
2,215 0	0 10	125 22	2,214 9	6 3	-13 0	295 86	14 4
2,230 0	0 09	121.36	2,229 9	6 3	-13 0	295 85	14 4
2,245 0	0 08	148.35	2,244 9	6 3	-13 0	295 82	14 4

Company:	OCCIDENTAL PERMIAN LTD	**Local Co-ordinate Reference:**	Well Cypress 34 Federal #7H
Project:	Nash Draw Delaware	**TVD Reference:**	WELL @ 0 0usft (Original Well Elev)
Site:	Eddy County, NM	**MD Reference:**	WELL @ 0 0usft (Original Well Elev)
Well:	Cypress 34 Federal #7H	**North Reference:**	Grid
Wellbore:	VH - Job #32K0212204	**Survey Calculation Method:**	Minimum Curvature
Design:	VH - Job #32K0212204	**Database:**	EDM-Regulatory

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	True Vertical Depth	North/South (usft)	East/West (usft)	Closure Azimuth (°)	Closure Distance (usft)
2,260 0	0 15	130 86	2,259 9	6 3	-12.9	295 78	14 4
2,275 0	0 24	119 30	2,274.9	6 2	-12 9	295 75	14 3
2,290.0	0 32	113 76	2,289 9	6 2	-12 8	295 75	14.2
2,305 0	0 38	110 53	2,304 9	6 2	-12 7	295 78	14 2
2,320 0	0 42	108 40	2,319 9	6 1	-12 6	295 82	14 1
2,335 0	0 47	104 59	2,334 9	6 1	-12 5	295 90	13 9
2,350 0	0 48	105 25	2,349.9	6 1	-12 4	296 00	13 8
2,365 0	0 56	109 83	2,364 9	6 0	-12 3	296 08	13 7
2,380 0	0 66	114.18	2,379 9	6 0	-12 1	296 13	13.5
2,395.0	0 72	113 93	2,394 9	5 9	-12 0	296 16	13 3
2,410 0	0 81	115.61	2,409 9	5 8	-11 8	296 18	13 1
2,425.0	0 83	118 65	2,424 9	5 7	-11 6	296 16	12 9
2,440 0	0 82	119 16	2,439 9	5 6	-11 4	296 11	12 7
2,455 0	0 84	119 57	2,454 9	5 5	-11 2	296 06	12 5
2,470 0	0 84	120 84	2,469 9	5 4	-11 0	295 98	12 3
2,485 0	0 86	122 86	2,484 9	5 3	-10 8	295 87	12 1
2,500 0	0 89	121 53	2,499 9	5 1	-10 7	295 75	11 8
2,515 0	0 92	123 15	2,514 9	5 0	-10 5	295 62	11 6
2,530 0	0 97	121 90	2,529.9	4 9	-10 2	295 47	11 3
2,545 0	1 01	123 77	2,544 9	4 7	-10 0	295 30	11 1
2,560 0	1 06	122 70	2,559 9	4 6	-9 8	295 10	10.8
2,575 0	1 03	121.46	2,574.9	4 4	-9 6	294 92	10 5
2,590 0	1 04	121 75	2,589 9	4 3	-9 3	294 74	10 3
2,605 0	1 06	122 49	2,604 9	4 2	-9 1	294 54	10 0
2,620 0	1 10	123 47	2,619 9	4 0	-8 9	294 29	9 7
2,635 0	1 14	124 42	2,634 9	3 8	-8 6	294 00	9 4
2,650 0	1 22	126 66	2,649 9	3 7	-8 4	293 61	9 1
2,665 0	1 26	126 68	2,664 9	3 5	-8 1	293 13	8 8
2,680 0	1 28	127 41	2,679 9	3 3	-7 8	292 59	8 5
2,695 0	1 30	128 56	2,694 9	3 1	-7 6	291 96	8 2
2,710 0	1 32	130 10	2,709 9	2 8	-7 3	291 22	7 8
2,725 0	1 38	131 90	2,724 9	2 6	-7 0	290 30	7 5
2,740 0	1 44	132 19	2,739 9	2 4	-6 8	289 21	7 2
2,755 0	1 49	133.37	2,754 9	2 1	-6 5	287 92	6 8
2,770 0	1 54	134 37	2,769 9	1 8	-6 2	286 38	6 5
2,785 0	1 53	134 51	2,784 8	1 5	-5 9	284 61	6 1
2,800 0	1 52	135 21	2,799 8	1 3	-5 6	282 62	5 8
2,815 0	1 49	139 59	2,814 8	1 0	-5 4	280 26	5 5
2,830 0	1 45	142 01	2,829 8	0 7	-5 1	277 49	5.2
2,845 0	1 35	146 54	2,844.8	0 4	-4 9	274 39	4 9
2,860 0	1 29	149.27	2,859 8	0 1	-4 7	271 03	4 7
2,875 0	1 23	150 00	2,874 8	-0 2	-4 6	267 49	4 6
2,890 0	1 17	151 99	2,889 8	-0 5	-4 4	263 86	4 4
2,905 0	1 08	154 38	2,904 8	-0 7	-4 3	260 22	4 3

Company:	OCCIDENTAL PERMIAN LTD	**Local Co-ordinate Reference:**	Well Cypress 34 Federal #7H
Project:	Nash Draw Delaware	**TVD Reference:**	WELL @ 0 0usft (Original Well Elev)
Site:	Eddy County, NM	**MD Reference:**	WELL @ 0 0usft (Original Well Elev)
Well:	Cypress 34 Federal #7H	**North Reference:**	Grid
Wellbore:	VH - Job #32K0212204	**Survey Calculation Method:**	Minimum Curvature
Design:	VH - Job #32K0212204	**Database:**	EDM-Regulatory

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	True Vertical Depth	North/South (usft)	East/West (usft)	Closure Azimuth (°)	Closure Distance (usft)
2,920 0	1 04	154 73	2,919 8	-1 0	-4 2	256 64	4 3
2,935 0	0 94	155 35	2,934 8	-1 2	-4 0	253 20	4 2
2,950 0	0 83	159 23	2,949 8	-1 4	-4 0	250 06	4 2
2,965 0	0 76	161 81	2,964 8	-1 6	-3 9	247 23	4 2
2,980 0	0 74	163 03	2,979 8	-1 8	-3 8	244 59	4 2
2,995 0	0 60	167 17	2,994 8	-2 0	-3 8	242 28	4 3
3,010 0	0 52	171 42	3,009 8	-2 1	-3 8	240 42	4 3
3,025 0	0 52	172 10	3,024 8	-2 3	-3 7	238 76	4 4
3,040 0	0 53	172 49	3,039 8	-2 4	-3 7	237 13	4 4
3,055 0	0 53	172 57	3,054.8	-2 5	-3 7	235 53	4 5
3,070 0	0 51	174 64	3,069.8	-2 7	-3 7	234 01	4 6
3,085 0	0 53	174 11	3,084.8	-2 8	-3.7	232 56	4 6
3,100 0	0 53	175 65	3,099 8	-2 9	-3 7	231 13	4 7
3,115 0	0 52	178 79	3,114 8	-3 1	-3 7	229 80	4 8
3,130 0	0 53	179 93	3,129 8	-3 2	-3 7	228 55	4 9
3,145 0	0 54	180 13	3,144 8	-3 4	-3 7	227 34	5 0
3,160 0	0 51	180 02	3,159 8	-3 5	-3 7	226 20	5 1
3,175 0	0 50	180 96	3,174 8	-3 6	-3 7	225 15	5 2
3,190 0	0 46	178 04	3,189 8	-3 8	-3 7	224 16	5 2
3,205.0	0 42	175 06	3,204 8	-3 9	-3 6	223 25	5 3
3,220 0	0 36	167 41	3,219 8	-4 0	-3 6	222 40	5 4
3,235 0	0 32	157 85	3,234 8	-4 1	-3 6	221 59	5 4
3,250 0	0 29	158 80	3,249 8	-4 1	-3 6	220 84	5 5
3,265 0	0 31	160 69	3,264 8	-4 2	-3 5	220 13	5 5
3,280 0	0 39	167 13	3,279 8	-4 3	-3 5	219 35	5 6
3,295 0	0 44	168.55	3,294 8	-4 4	-3 5	218 48	5 6
3,310 0	0 44	167 20	3,309 8	-4 5	-3.5	217 59	5 7
3,325 0	0 45	166 28	3,324.8	-4 6	-3 4	216 69	5 8
3,340 0	0 41	166 65	3,339 8	-4 7	-3 4	215 84	5 8
3,355 0	0 37	162 63	3,354 8	-4 8	-3 4	215 07	5 9
3,370 0	0 34	147 47	3,369 8	-4 9	-3 4	214 31	6 0
3,385 0	0 31	128 09	3,384 8	-5 0	-3 3	213 53	6 0
3,400 0	0 34	121 39	3,399 8	-5 0	-3 2	212 71	6 0
3,415 0	0 44	119 74	3,414 8	-5 1	-3 1	211 73	6 0
3,430 0	0 51	127 58	3,429 8	-5 2	-3 0	210 55	6 0
3,445 0	0 62	138 20	3,444 8	-5 3	-2.9	209 18	6 0
3,460 0	0 58	142 67	3,459.8	-5 4	-2 8	207.80	6 1
3,475 0	0 45	155 47	3,474 8	-5 5	-2 8	206 72	6 1
3,490 0	0 39	163 16	3,489 8	-5 6	-2 7	205 97	6 2
3,505 0	0 38	160 12	3,504 8	-5 7	-2 7	205 33	6 3
3,520 0	0 39	160 60	3,519.8	-5 8	-2 7	204 69	6 4
3,535 0	0 43	153 44	3,534 8	-5 9	-2 6	203 98	6 4
3,550 0	0 43	152 22	3,549 8	-6 0	-2 6	203 21	6 5
3,565 0	0 48	157 02	3,564 8	-6 1	-2 5	202 44	6 6

Company:	OCCIDENTAL PERMIAN LTD	**Local Co-ordinate Reference:**	Well Cypress 34 Federal #7H
Project:	Nash Draw Delaware	**TVD Reference:**	WELL @ 0.0usft (Original Well Elev)
Site:	Eddy County, NM	**MD Reference:**	WELL @ 0 0usft (Original Well Elev)
Well:	Cypress 34 Federal #7H	**North Reference:**	Grid
Wellbore:	VH - Job #32K0212204	**Survey Calculation Method:**	Minimum Curvature
Design:	VH - Job #32K0212204	**Database:**	EDM-Regulatory

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	True Vertical Depth	North/South (usft)	East/West (usft)	Closure Azimuth (°)	Closure Distance (usft)
3,580 0	0 47	155 44	3,579 8	-6 2	-2 5	201 67	6 7
3,595 0	0 47	158 24	3,594 8	-6.3	-2 4	200 93	6 8
3,610 0	0 46	159 76	3,609 8	-6 4	-2 4	200 25	6 9
3,625 0	0 40	156 69	3,624 8	-6 5	-2 3	199 63	6 9
3,640 0	0 36	156 21	3,639 8	-6 6	-2.3	199 07	7.0
3,655 0	0 34	137 40	3,654 8	-6 7	-2 2	198 50	7 1
3,670 0	0 38	117 19	3,669 8	-6 8	-2 2	197.78	7 1
3,685 0	0 40	114 25	3,684 8	-6 8	-2 1	196 97	7 1
3,700 0	0 41	115 93	3,699 8	-6 8	-2 0	196 13	7 1
3,715 0	0 41	125 10	3,714 8	-6 9	-1 9	195 29	7 2
3,730 0	0 44	134 10	3,729 8	-7 0	-1 8	194 49	7 2
3,745 0	0 43	138 66	3,744 8	-7 1	-1 7	193 73	7 3
3,760 0	0 39	141 08	3,759 8	-7 1	-1 7	193 05	7 3
3,775 0	0 39	148 55	3,774 8	-7 2	-1 6	192.46	7 4
3,790 0	0 36	162 76	3,789.8	-7 3	-1 6	192 01	7 5
3,805 0	0 38	167 02	3,804 8	-7 4	-1 5	191 68	7 6
3,820 0	0 41	169 66	3,819 8	-7 5	-1 5	191 37	7 7
3,835 0	0 42	163 91	3,834 8	-7 6	-1 5	191 04	7 7
3,850 0	0 43	141 16	3,849 8	-7 7	-1 4	190 54	7 8
3,865 0	0 43	130 71	3,864 8	-7 8	-1 4	189.87	7 9
3,880 0	0 46	126 92	3,879 8	-7 9	-1 3	189 14	8 0
3,895 0	0 44	126 81	3,894 8	-7 9	-1 2	188 39	8 0
3,910 0	0 41	129 16	3,909 8	-8 0	-1 1	187 71	8 1
3,925 0	0 40	126 78	3,924 8	-8 1	-1 0	187 06	8 1
3,940 0	0 44	134 93	3,939 8	-8 1	-0 9	186 42	8 2
3,955 0	0 49	141 98	3,954.8	-8 2	-0 8	185 80	8 3
3,970 0	0 44	153 30	3,969 8	-8 3	-0 8	185.28	8 4
3,985.0	0 43	164 02	3,984 8	-8 4	-0 7	184 94	8 5
4,000 0	0 35	165.54	3,999 8	-8 5	-0 7	184 70	8 6
4,015 0	0 25	166 06	4,014.8	-8 6	-0 7	184 53	8 6
4,030 0	0 26	135 59	4,029 8	-8 7	-0.7	184 30	8 7
4,045 0	0 41	105 60	4,044 8	-8 7	-0 6	183 78	8 7
4,060 0	0 50	102 75	4,059 8	-8 7	-0 5	183 01	8 7
4,075 0	0 53	107 27	4,074 8	-8 8	-0 3	182 15	8 8
4,090 0	0 47	116 16	4,089 8	-8 8	-0 2	181 35	8 8
4,105 0	0 36	140.26	4,104 8	-8 9	-0 1	180 79	8 9
4,120 0	0 33	153 52	4,119 8	-9 0	-0 1	180 47	9 0
4,135 0	0 26	152 89	4,134 8	-9 0	0 0	180 25	9 0
4,150 0	0 26	141 82	4,149 8	-9 1	0 0	180 01	9 1
4,165 0	0 38	120 82	4,164 8	-9 1	0 1	179 61	9 1
4,180 0	0 48	112 04	4,179 8	-9 2	0 2	178 99	9 2
4,195 0	0 61	109 42	4,194 8	-9 2	0 3	178 16	9 2
4,210 0	0.67	115 14	4,209 8	-9.3	0 5	177.22	9 3
4,225 0	0 63	131 79	4,224 8	-9 4	0 6	176 39	9.4

Company:	OCCIDENTAL PERMIAN LTD.	**Local Co-ordinate Reference:**	Well Cypress 34 Federal #7H
Project:	Nash Draw Delaware	**TVD Reference:**	WELL @ 0.0usft (Original Well Elev)
Site:	Eddy County, NM	**MD Reference:**	WELL @ 0 0usft (Original Well Elev)
Well:	Cypress 34 Federal #7H	**North Reference:**	Grid
Wellbore:	VH - Job #32K0212204	**Survey Calculation Method:**	Minimum Curvature
Design:	VH - Job #32K0212204	**Database:**	EDM-Regulatory

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	True Vertical Depth	North/South (usft)	East/West (usft)	Closure Azimuth (°)	Closure Distance (usft)
4,240 0	0 54	152 70	4,239 8	-9 5	0.7	175 87	9 5
4,255 0	0 38	165 73	4,254 8	-9 6	0 7	175 66	9 6
4,270 0	0 24	183 53	4,269 8	-9 7	0 7	175 63	9 7
4,285 0	0 21	151 45	4,284 8	-9 7	0 8	175 59	9 8
4,300 0	0 35	109.02	4,299.8	-9 8	0 8	175 28	9 8
4,315 0	0 46	103 72	4,314 8	-9.8	0 9	174 70	9 9
4,330 0	0 51	107 22	4,329 8	-9 8	1 0	174 02	9 9
4,345 0	0 50	117 78	4,344 8	-9 9	1 2	173 35	10 0
4,360 0	0 49	131 68	4,359 8	-10 0	1 3	172 80	10 1
4,375 0	0 49	132 33	4,374 8	-10 1	1 4	172 33	10 2
4,390 0	0 47	132 56	4,389 8	-10 1	1 4	171 88	10 2
4,405 0	0 45	130 26	4,404 8	-10 2	1 5	171 44	10 3
4,420 0	0 43	123 28	4,419 8	-10 3	1 6	171 00	10 4
4,435 0	0 46	122 81	4,434.8	-10 4	1 7	170 53	10 5
4,450 0	0 45	124 28	4,449 8	-10 4	1 8	170 06	10 6
4,465 0	0 45	131 04	4,464 8	-10 5	1 9	169 63	10 7
4,480 0	0 50	140 92	4,479 8	-10 6	2 0	169 27	10 8
4,495 0	0 57	147 47	4,494 8	-10 7	2 1	168 96	10 9
4,510 0	0 60	151 71	4,509 8	-10 8	2 2	168 70	11 0
4,525 0	0 59	151 53	4,524 8	-11 0	2 2	168 46	11 2
4,540 0	0 50	137 06	4,539 8	-11 1	2 3	168 18	11 3
4,555 0	0 43	122 80	4,554 8	-11.2	2 4	167 80	11 4
4,570 0	0 40	121 92	4,569 8	-11 2	2 5	167 42	11 5
4,585 0	0 38	121 88	4,584 8	-11 3	2 6	167 06	11 6
4,600 0	0 38	140 21	4,599 8	-11 3	2 7	166 77	11 6
4,615 0	0 41	161 38	4,614 8	-11 4	2 7	166 64	11 7
4,630 0	0 42	166 75	4,629 8	-11 5	2 7	166 62	11 9
4,645 0	0 44	161 45	4,644.8	-11 6	2 8	166 59	12 0
4,660 0	0 48	151 38	4,659 8	-11 7	2 8	166 49	12 1
4,675 0	0 50	140 73	4,674 8	-11 9	2 9	166 28	12 2
4,690 0	0 51	134 45	4,689 8	-12 0	3 0	165 99	12 3
4,705 0	0 51	134 34	4,704.8	-12 0	3 1	165 66	12 4
4,720 0	0 49	136 32	4,719 8	-12 1	3 2	165 36	12 5
4,735 0	0 44	146 91	4,734 8	-12 2	3 2	165 14	12 7
4,750 0	0 37	148 50	4,749.8	-12 3	3 3	164 99	12 8
4,765 0	0 33	121 41	4,764 8	-12 4	3 4	164 80	12 8
4,780 0	0 36	109 63	4,779 8	-12 4	3 4	164 50	12 9
4,795 0	0 42	114 46	4,794 7	-12 5	3 5	164 14	13 0
4,810 0	0 47	134 51	4,809 7	-12 5	3 6	163 82	13 0
4,825 0	0 54	164 14	4,824 7	-12 6	3 7	163 69	13 2
4,840 0	0 54	179 19	4,839 7	-12 8	3 7	163 78	13 3
4,855 0	0 23	184 61	4,854 7	-12 9	3 7	163 90	13 4
4,870 0	0 04	104 68	4,869 7	-12 9	3 7	163 93	13 4
4,885 0	0 34	133 51	4,884 7	-12 9	3 8	163 81	13 5

Company:	OCCIDENTAL PERMIAN LTD	**Local Co-ordinate Reference:**	Well Cypress 34 Federal #7H
Project:	Nash Draw Delaware	**TVD Reference:**	WELL @ 0.0usft (Original Well Elev)
Site:	Eddy County, NM	**MD Reference:**	WELL @ 0.0usft (Original Well Elev)
Well:	Cypress 34 Federal #7H	**North Reference:**	Grid
Wellbore:	VH - Job #32K0212204	**Survey Calculation Method:**	Minimum Curvature
Design:	VH - Job #32K0212204	**Database:**	EDM-Regulatory

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	True Vertical Depth	North/South (usft)	East/West (usft)	Closure Azimuth (°)	Closure Distance (usft)
4,900 0	0 63	143 54	4,899 7	-13 0	3 8	163 60	13 6
4,915 0	0 68	153 22	4,914 7	-13 2	3 9	163 41	13 8
4,930 0	0 49	173 10	4,929.7	-13 3	4 0	163 39	13 9
4,945 0	0 28	198 10	4,944 7	-13 4	4 0	163 52	14 0
4,960 0	0 12	231 08	4,959 7	-13 5	3.9	163 67	14 0
4,975 0	0 22	145 01	4,974 7	-13 5	4.0	163 69	14 1
4,990 0	0 52	135 19	4,989 7	-13 6	4 0	163 52	14 2
5,005 0	0 57	150 58	5,004 7	-13 7	4 1	163 32	14 3
5,020 0	0 56	188 34	5,019 7	-13 8	4 1	163 38	14 4
5,035 0	0 57	197 22	5,034 7	-14 0	4 1	163 67	14 6
5,050 0	0 36	184 88	5,049 7	-14 1	4 1	163 89	14 7
5,065 0	0 26	138 74	5,064 7	-14 2	4 1	163 90	14 7
5,080 0	0 33	124 54	5,079 7	-14 2	4 1	163.74	14 8
5,095 0	0 38	146 13	5,094 7	-14 3	4 2	163 58	14 9
5,110 0	0 55	180 02	5,109 7	-14 4	4 2	163 60	15 0
5,125 0	0 60	196 00	5,124 7	-14 5	4 2	163 84	15 1
5,140 0	0 43	219 08	5,139 7	-14 7	4 2	164.17	15 2
5,155 0	0 27	241 44	5,154 7	-14.7	4 1	164 47	15 3
5,170 0	0 19	197 40	5,169 7	-14 8	4 1	164 65	15 3
5,185 0	0 26	156 52	5,184 7	-14 8	4 1	164 68	15 4
5,200 0	0 25	155 59	5,199 7	-14 9	4 1	164 64	15 4
5,215 0	0 24	184 17	5,214 7	-14 9	4 1	164 66	15.5
5,230 0	0 41	216 55	5,229 7	-15 0	4 1	164 86	15 6
5,245 0	0 59	222 90	5,244 7	-15 1	4 0	165 25	15 6
5,260 0	0 58	200 23	5,259 7	-15 2	3 9	165 65	15 7
5,275.0	0 59	166 90	5,274 7	-15 4	3 9	165 81	15 9
5,290 0	0 45	171 48	5,289 7	-15 5	3 9	165 84	16 0
5,305 0	0 32	196 84	5,304 7	-15 6	3 9	165 93	16 1
5,320 0	0 33	216 29	5,319 7	-15 7	3 9	166 13	16 2
5,335 0	0 36	220 92	5,334.7	-15 8	3 8	166 38	16.2
5,350 0	0 35	198.25	5,349 7	-15 8	3 8	166 60	16 3
5,365 0	0 44	164 97	5,364 7	-15 9	3 8	166 68	16 4
5,380 0	0 49	166 39	5,379 7	-16 1	3 8	166 67	16 5
5,395 0	0 51	180 43	5,394 7	-16 2	3 8	166 73	16 6
5,410 0	0 52	185 23	5,409.7	-16 3	3 8	166 85	16 8
5,425 0	0 52	186 67	5,424 7	-16 5	3 8	167 00	16.9
5,440 0	0 52	181 34	5,439 7	-16 6	3 8	167 14	17 0
5,455 0	0 56	173 84	5,454 7	-16 7	3 8	167 22	17 2
5,470 0	0 55	176 86	5,469 7	-16 9	3 8	167 29	17 3
5,485 0	0 45	202 29	5,484 7	-17 0	3 8	167 44	17 4
5,500 0	0 36	223 49	5,499 7	-17 1	3 7	167 68	17 5
5,515 0	0 26	173 72	5,514 7	-17 2	3 7	167 82	17 6
5,530 0	0 37	133 73	5,529 7	-17 2	3 7	167 74	17 6
5,545 0	0 32	155 57	5,544 7	-17 3	3 8	167 63	17 7

Company:	OCCIDENTAL PERMIAN LTD	**Local Co-ordinate Reference:**	Well Cypress 34 Federal #7H
Project:	Nash Draw Delaware	**TVD Reference:**	WELL @ 0 0usft (Original Well Elev)
Site:	Eddy County, NM	**MD Reference:**	WELL @ 0 0usft (Original Well Elev)
Well:	Cypress 34 Federal #7H	**North Reference:**	Grid
Wellbore:	VH - Job #32K0212204	**Survey Calculation Method:**	Minimum Curvature
Design:	VH - Job #32K0212204	**Database:**	EDM-Regulatory

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	True Vertical Depth	North/South (usft)	East/West (usft)	Closure Azimuth (°)	Closure Distance (usft)
5,560 0	0 38	197 41	5,559.7	-17 4	3 8	167 68	17.8
5,575 0	0 44	211.92	5,574.7	-17 5	3 8	167 88	17 9
5,590 0	0 47	207 25	5,589 7	-17 6	3 7	168 14	18 0
5,605.0	0 52	179 40	5,604 7	-17 7	3 7	168 30	18 1
5,620 0	0.55	155 34	5,619 7	-17 8	3 7	168.29	18 2
5,635 0	0 35	141 59	5,634 7	-17 9	3 8	168 18	18.3
5,650 0	0 06	69 06	5,649 7	-18.0	3 8	168 09	18 4
5,665 0	0 07	266 16	5,664.7	-18 0	3.8	168 09	18 4
5,680 0	0 39	217 86	5,679 7	-18 0	3 7	168.24	18.4
5,695 0	0 51	196 24	5,694.7	-18.1	3 7	168 46	18.5
5,710.0	0 40	162 95	5,709 7	-18 2	3.7	168 54	18 6
5,725.0	0 24	116 69	5,724 7	-18.3	3 7	168 45	18 7
5,740.0	0 18	69 89	5,739 7	-18.3	3.8	168 30	18 7
5,755 0	0.13	146 97	5,754 7	-18 3	3 8	168 21	18 7
5,770 0	0 39	171 64	5,769.7	-18.4	3 8	168 20	18 8
5,785 0	0.45	183 13	5,784 7	-18.5	3 8	168 26	18 9
5,800 0	0 25	202 13	5,799 7	-18 6	3 8	168 36	19 0
5,815 0	0 14	260 28	5,814 7	-18 6	3 8	168 47	19 0
5,830 0	0 10	83 93	5,829 7	-18 6	3 8	168 48	19 0
5,845 0	0 24	115 07	5,844 7	-18 6	3 8	168 37	19 0
5,860 0	0 42	151 98	5,859 7	-18 7	3 9	168 25	19.1
5,875 0	0 46	171.72	5,874 7	-18 8	3 9	168 21	19 2
5,890 0	0 16	184 86	5,889.7	-18.9	3 9	168 24	19.3
5,905 0	0 03	295.88	5,904 7	-18.9	3 9	168 27	19.3
5,920 0	0.13	91 81	5,919.7	-18.9	3 9	168 23	19 3
5,935 0	0 31	118 73	5,934.7	-18 9	4 0	168 09	19.3
5,950.0	0 32	150 61	5,949 7	-19 0	4 0	167 96	19 4
5,965 0	0 27	177 84	5,964 7	-19 0	4 1	167 94	19 5
5,980 0	0 05	132 83	5,979.7	-19 1	4 1	167 95	19 5
5,995.0	0 16	43 08	5,994 7	-19 1	4 1	167 89	19 5
6,010 0	0 23	117.72	6,009 7	-19 1	4 1	167 77	19.5
6,025 0	0 52	153 21	6,024.7	-19 1	4 2	167 65	19 6
6,040 0	0 46	157.44	6,039 7	-19 3	4 2	167 57	19 7
6,055 0	0 17	80.34	6,054.7	-19 3	4 3	167 47	19 8
6,070 0	0 36	42 26	6,069.7	-19 3	4 3	167 30	19.8
6,085 0	0 43	94 71	6,084.7	-19 2	4 4	167 03	19 7
6,098 0	1 10	149 41	6,097 7	-19 4	4 5	166 79	19 9

Scientific Drilling
Directional Drilling Operations

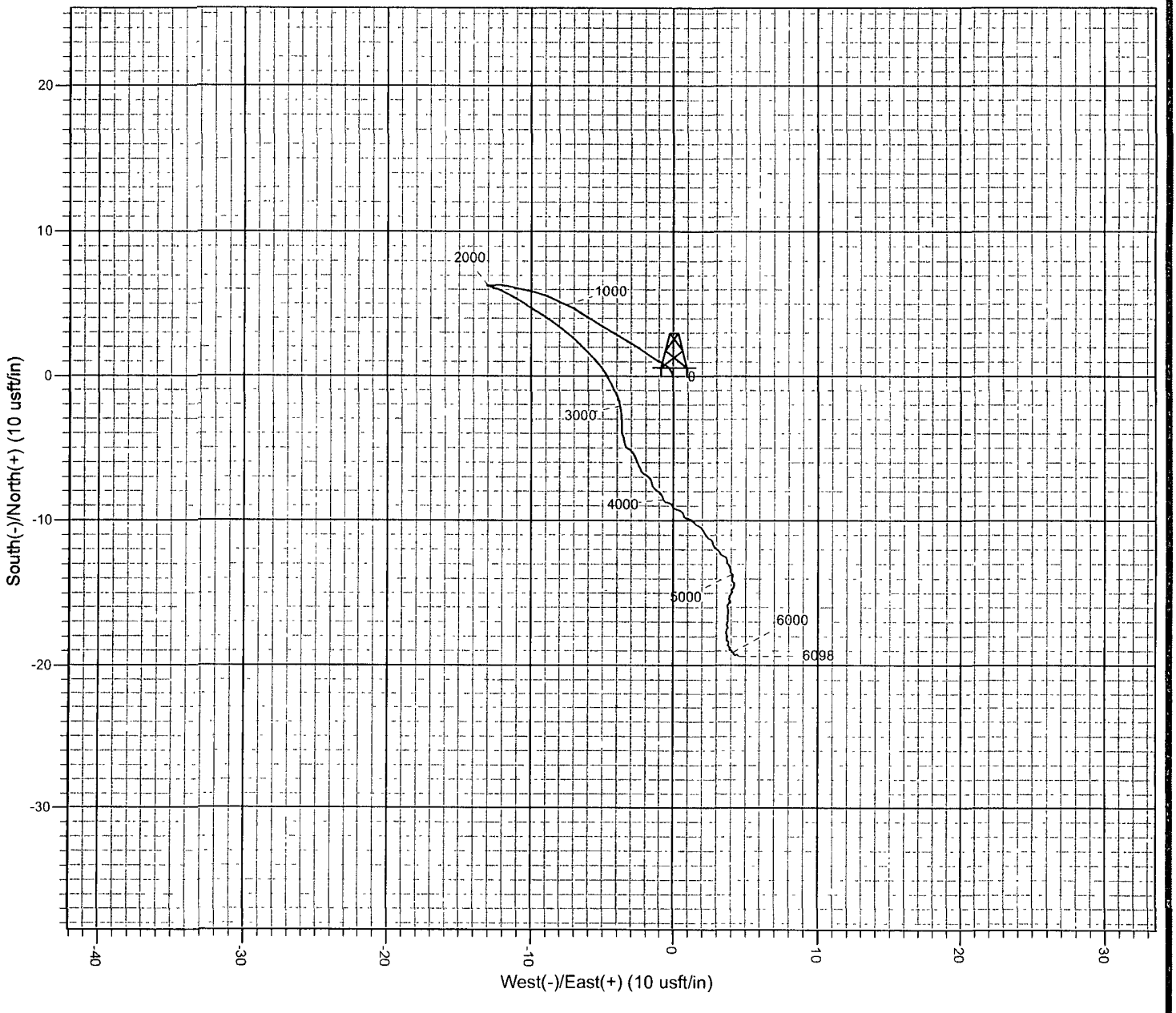
Project: Nash Draw Delaware
Eddy County, NM
Well: Cypress 34 Federal #7H
Wellbore: VH - Job #32K0212204
Design: VH - Job #32K0212204

Azimuths to Grid North
True North -0.19°
Magnetic North. 7 50°

Magnetic Field
Strength 48554 6snT
Dip Angle 60 14°
Date 2/21/2012
Model IGRF2010

WELL DETAILS: Cypress 34 Federal #7H
WELL @ 0.0usft (Original Well Elev)
Ground Level: 0.0

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0.0	461073.91	611392.06	32° 16' 1.542 N	103° 58' 22.621 W	



PROJECT DETAILS. Nash Draw Delaware
Geodetic System: US State Plane 1927 (Exact solution)
Datum: NAD 1927 (NADCON CONUS)
Ellipsoid. Clarke 1866
Zone: New Mexico East 3001
System Datum: Mean Sea Level

SITE DETAILS: Eddy County, NM
Site Centre Latitude: 32° 16' 1.542 N
Longitude: 103° 58' 22.621 W
Positional Uncertainity: 0.0
Convergence: 0.19
Local North: Grid