

30.015.35742

PXP

Plains Exploration & Production Company

PXP

Eddy County, NM (NAD83 NME)

Cypress "34" Fed #4H

Cypress "34" Fed #4H

OH

Design: Actual

Standard Survey Report

06 March, 2008



Scientific Drilling
Directional Drilling Operations

Company:	PXP	Local Co-ordinate Reference:	Well Cypress "34" Fed #4H
Project:	Eddy County, NM (NAD83 NME)	TVD Reference:	WELL @ 3042.00ft (Ground Elev)
Site:	Cypress "34" Fed #4H	MD Reference:	WELL @ 3042.00ft (Ground Elev)
Well:	Cypress "34" Fed #4H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Actual	Database:	EDM 2003.16 Single User Db

Project	Eddy County, NM (NAD83 NME)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site		Cypress "34" Fed #4H			
Site Position:		Northing:	461,149.13 ft	Latitude:	32° 16' 2.200 N
From:	Lat/Long	Easting:	650,745.47 ft	Longitude:	103° 58' 45.700 W
Position Uncertainty:	0.00 ft	Slot Radius:	"	Grid Convergence:	0.19 °

Well	Cypress "34" Fed #4H					
Well Position	+N/-S	0.00 ft	Northing:	461,149.13 ft	Latitude:	32° 16' 2.200 N
	+E/-W	0.00 ft	Easting:	650,745.47 ft	Longitude:	103° 58' 45.700 W
Position Uncertainty		0.00 ft	Wellhead Elevation:	ft	Ground Level:	3,042.00 ft

Wellbore		OH			
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	3/6/2008	8.15	60.25	48,950

Design:	Actual			
Audit Notes:				
Version:	1.0	Phase:	ACTUAL	Tie On Depth: 0.00
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.00	0.00	0.00	177.49

Survey Program		Date 3/6/2008		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
100.00	7,333.00	GYRO (OH)	Keeper	Keeper Standard Rate Gyro
7,362.00	10,758.00	MWD (OH)	MWD	MWD - Standard ISCWSA

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)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.18	125.75	100.00	-0.09	0.13	0.10	0.18	0.18	0.00
200.00	0.23	110.61	200.00	-0.25	0.44	0.27	0.07	0.05	-15.14
300.00	0.26	141.69	300.00	-0.50	0.77	0.54	0.13	0.03	31.08
400.00	0.47	91.31	400.00	-0.69	1.32	0.75	0.36	0.21	-50.38
500.00	0.54	60.54	499.99	-0.47	2.14	0.56	0.28	0.07	-30.77
600.00	0.79	52.24	599.99	0.19	3.10	-0.05	0.27	0.25	-8.30
700.00	0.80	40.82	699.98	1.14	4.10	-0.96	0.16	0.01	-11.42
800.00	0.75	69.07	799.97	1.90	5.17	-1.67	0.38	-0.05	28.25
900.00	0.44	98.88	899.96	2.07	6.16	-1.80	0.43	-0.31	29.81
1,000.00	0.78	166.39	999.96	1.35	6.70	-1.06	0.73	0.34	67.51
1,100.00	1.55	200.42	1,099.94	-0.58	6.39	0.86	1.00	0.77	34.03

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Well:	Cypress "34" Fed #4H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Actual	Database:	EDM 2003.16 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)
1,200.00	2.29	204.45	1,199.88	-3.66	5.09	3.88	0.75	0.74	4.03
1,300.00	2.63	210.64	1,299.79	-7.46	3.09	7.58	0.43	0.34	6.19
1,400.00	2.47	212.12	1,399.69	-11.25	0.78	11.28	0.17	-0.16	1.48
1,500.00	2.02	216.06	1,499.61	-14.50	-1.41	14.43	0.48	-0.45	3.94
1,600.00	1.28	212.91	1,599.57	-16.87	-3.05	16.72	0.75	-0.74	-3.15
1,700.00	0.79	219.02	1,699.55	-18.34	-4.09	18.14	0.50	-0.49	6.11
1,800.00	0.06	153.51	1,799.55	-18.92	-4.50	18.71	0.77	-0.73	-65.51
1,900.00	0.34	56.26	1,899.55	-18.80	-4.23	18.60	0.35	0.28	-97.25
2,000.00	0.53	74.46	1,999.55	-18.52	-3.54	18.34	0.23	0.19	18.20
2,100.00	1.03	43.52	2,099.54	-17.74	-2.48	17.61	0.64	0.50	-30.94
2,200.00	0.89	16.41	2,199.52	-16.34	-1.64	16.26	0.47	-0.14	-27.11
2,300.00	1.76	24.02	2,299.50	-14.20	-0.79	14.15	0.89	0.87	7.61
2,400.00	2.05	66.67	2,399.45	-12.08	1.47	12.14	1.41	0.29	42.65
2,500.00	2.32	82.77	2,499.37	-11.12	5.12	11.34	0.67	0.27	16.10
2,600.00	2.20	88.66	2,599.30	-10.82	9.05	11.21	0.26	-0.12	5.89
2,700.00	2.79	116.16	2,699.20	-11.85	13.15	12.42	1.32	0.59	27.50
2,800.00	3.15	128.89	2,799.07	-14.65	17.48	15.40	0.75	0.36	12.73
2,900.00	2.88	128.77	2,898.93	-17.95	21.57	18.88	0.27	-0.27	-0.12
3,000.00	2.38	121.73	2,998.83	-20.61	25.30	21.70	0.59	-0.50	-7.04
3,100.00	2.40	120.06	3,098.74	-22.75	28.88	24.00	0.07	0.02	-1.67
3,200.00	2.27	119.73	3,198.66	-24.78	32.41	26.18	0.13	-0.13	-0.33
3,300.00	1.92	127.59	3,298.59	-26.79	35.46	28.32	0.45	-0.35	7.86
3,400.00	1.83	129.26	3,398.54	-28.82	38.02	30.46	0.11	-0.09	1.67
3,500.00	1.54	137.94	3,498.49	-30.83	40.16	32.56	0.39	-0.29	8.68
3,600.00	1.14	147.02	3,598.47	-32.66	41.60	34.45	0.45	-0.40	9.08
3,700.00	0.87	153.22	3,698.45	-34.17	42.48	36.00	0.29	-0.27	6.20
3,800.00	0.81	141.68	3,798.44	-35.40	43.26	37.27	0.18	-0.06	-11.54
3,900.00	0.66	155.29	3,898.43	-36.48	43.94	38.37	0.23	-0.15	13.61
4,000.00	0.69	160.79	3,998.43	-37.57	44.38	39.48	0.07	0.03	5.50
4,100.00	0.56	174.41	4,098.42	-38.63	44.63	40.55	0.20	-0.13	13.62
4,200.00	0.35	164.09	4,198.42	-39.41	44.76	41.33	0.22	-0.21	-10.32
4,300.00	0.32	196.57	4,298.41	-39.97	44.76	41.89	0.19	-0.03	32.48
4,400.00	0.32	181.09	4,398.41	-40.52	44.68	42.44	0.09	0.00	-15.48
4,500.00	0.04	200.13	4,498.41	-40.83	44.66	42.75	0.28	-0.28	19.04
4,600.00	0.22	215.94	4,598.41	-41.02	44.53	42.93	0.18	0.18	15.81
4,700.00	0.25	204.91	4,698.41	-41.37	44.33	43.27	0.05	0.03	-11.03
4,800.00	0.34	219.16	4,798.41	-41.80	44.05	43.69	0.12	0.09	14.25
4,900.00	0.11	210.82	4,898.41	-42.11	43.81	43.99	0.23	-0.23	-8.34
5,000.00	0.29	240.69	4,998.41	-42.32	43.54	44.19	0.20	0.18	29.87
5,100.00	0.33	213.01	5,098.41	-42.68	43.17	44.53	0.15	0.04	-27.68
5,200.00	0.44	221.81	5,198.40	-43.21	42.75	45.04	0.12	0.11	8.80
5,300.00	0.36	189.62	5,298.40	-43.81	42.45	45.63	0.23	-0.08	-32.19
5,400.00	0.46	205.86	5,398.40	-44.48	42.22	46.29	0.15	0.10	16.24
5,500.00	0.44	236.16	5,498.40	-45.05	41.72	46.84	0.24	-0.02	30.30
5,600.00	0.31	219.72	5,598.39	-45.47	41.23	47.24	0.17	-0.13	-16.44
5,700.00	0.39	210.76	5,698.39	-45.97	40.88	47.72	0.10	0.08	-8.96
5,800.00	0.55	214.91	5,798.39	-46.66	40.44	48.39	0.16	0.16	4.15
5,900.00	0.64	234.56	5,898.38	-47.38	39.71	49.07	0.22	0.09	19.65
6,000.00	0.59	234.25	5,998.38	-48.00	38.83	49.66	0.05	-0.05	-0.31
6,100.00	0.73	239.40	6,098.37	-48.63	37.87	50.24	0.15	0.14	5.15
6,200.00	0.79	234.20	6,198.36	-49.36	36.76	50.92	0.09	0.06	-5.20
6,300.00	0.77	234.60	6,298.35	-50.15	35.65	51.66	0.02	-0.02	0.40
6,400.00	0.98	225.71	6,398.34	-51.13	34.49	52.60	0.25	0.21	-8.89
6,500.00	0.92	218.22	6,498.33	-52.36	33.38	53.78	0.14	-0.06	-7.49

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Well:	Cypress "34" Fed #4H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Actual	Database:	EDM 2003.16 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)	
6,600.00	0.96	218.55	6,598.31	-53.65	32.37	55.02	0.04	0.04	0.33	
6,700.00	1.13	220.16	6,698.30	-55.06	31.21	56.37	0.17	0.17	1.61	
6,800.00	1.14	236.20	6,798.28	-56.36	29.75	57.61	0.32	0.01	16.04	
6,900.00	1.10	223.84	6,898.26	-57.61	28.25	58.79	0.24	-0.04	-12.36	
7,000.00	1.45	225.49	6,998.23	-59.19	26.69	60.30	0.35	0.35	1.65	
7,100.00	1.58	246.15	7,098.20	-60.63	24.52	61.65	0.56	0.13	20.66	
7,200.00	1.12	268.91	7,198.17	-61.21	22.29	62.13	0.70	-0.46	22.76	
7,300.00	2.29	299.90	7,298.13	-60.23	19.58	61.03	1.45	1.17	30.99	
7,333.00	2.75	301.52	7,331.10	-59.49	18.33	60.24	1.41	1.39	4.91	
Last GYRO Survey										
7,362.00	2.75	301.52	7,360.06	-58.76	17.14	59.46	0.00	0.00	0.00	
7,384.00	4.19	208.50	7,382.04	-59.19	16.31	59.85	23.32	6.55	-422.82	
7,417.00	8.30	191.80	7,414.84	-62.59	15.25	63.19	13.49	12.45	-50.61	
7,448.00	12.18	179.20	7,445.34	-68.05	14.83	68.63	14.38	12.52	-40.65	
7,480.00	16.05	172.00	7,476.37	-75.81	15.50	76.41	13.26	12.09	-22.50	
7,511.00	19.88	171.80	7,505.85	-85.27	16.85	85.93	12.36	12.35	-0.65	
7,542.00	22.90	173.40	7,534.72	-96.48	18.29	97.19	9.92	9.74	5.16	
7,574.00	25.37	175.51	7,563.92	-109.50	19.54	110.26	8.17	7.72	6.59	
7,606.00	28.02	175.83	7,592.50	-123.84	20.63	124.62	8.29	8.28	1.00	
7,638.00	31.34	175.51	7,620.30	-139.64	21.83	140.46	10.39	10.37	-1.00	
7,669.00	35.11	175.05	7,646.23	-156.56	23.23	157.43	12.19	12.16	-1.48	
7,701.00	38.88	174.80	7,671.78	-175.74	24.93	176.66	11.79	11.78	-0.78	
7,733.00	42.47	174.20	7,696.05	-196.49	26.93	197.49	11.29	11.22	-1.87	
7,765.00	46.06	175.30	7,718.96	-218.73	28.97	219.79	11.47	11.22	3.44	
7,796.00	49.94	176.60	7,739.70	-241.71	30.59	242.82	12.90	12.52	4.19	
7,829.00	54.37	176.60	7,759.94	-267.71	32.13	268.87	13.42	13.42	0.00	
7,860.00	58.46	176.26	7,777.09	-293.48	33.74	294.68	13.23	13.19	-1.10	
7,891.00	62.98	175.86	7,792.24	-320.45	35.60	321.70	14.62	14.58	-1.29	
7,924.00	67.82	175.82	7,805.98	-350.37	37.78	351.69	14.67	14.67	-0.12	
7,955.00	72.83	175.66	7,816.41	-379.47	39.95	380.85	16.17	16.16	-0.52	
7,987.00	77.99	175.40	7,824.47	-410.33	42.36	411.79	16.14	16.12	-0.81	
8,018.00	82.08	175.70	7,829.83	-440.77	44.73	442.30	13.23	13.19	0.97	
8,050.00	84.58	175.50	7,833.55	-472.45	47.17	474.07	7.84	7.81	-0.62	
8,082.00	86.87	176.21	7,835.93	-504.28	49.47	505.96	7.49	7.16	2.22	
8,114.00	86.64	177.30	7,837.74	-536.17	51.28	537.91	3.48	-0.72	3.41	
8,145.00	89.13	177.70	7,838.89	-567.12	52.63	568.88	8.14	8.03	1.29	
8,177.00	89.50	177.66	7,839.27	-599.09	53.93	600.88	1.16	1.16	-0.12	
8,208.00	91.21	178.19	7,839.08	-630.07	55.05	631.88	5.77	5.52	1.71	
8,240.00	91.14	177.95	7,838.42	-662.05	56.13	663.87	0.78	-0.22	-0.75	
8,271.00	91.21	178.16	7,837.79	-693.02	57.18	694.86	0.71	0.23	0.68	
8,303.00	90.77	178.34	7,837.23	-725.00	58.16	726.85	1.49	-1.37	0.56	
8,334.00	90.81	178.50	7,836.81	-755.99	59.01	757.85	0.53	0.13	0.52	
8,366.00	90.97	178.60	7,836.31	-787.97	59.82	789.84	0.59	0.50	0.31	
8,398.00	90.84	178.35	7,835.80	-819.96	60.67	821.83	0.88	-0.41	-0.78	
8,429.00	90.81	178.70	7,835.36	-850.94	61.47	852.82	1.13	-0.10	1.13	
8,461.00	90.97	178.23	7,834.86	-882.93	62.33	884.81	1.55	0.50	-1.47	
8,492.00	91.07	178.54	7,834.31	-913.91	63.20	915.80	1.05	0.32	1.00	
8,524.00	90.27	178.73	7,833.94	-945.90	63.96	947.79	2.57	-2.50	0.59	
8,556.00	90.30	178.69	7,833.78	-977.89	64.68	979.79	0.16	0.09	-0.12	
8,587.00	90.64	179.08	7,833.52	-1,008.88	65.29	1,010.78	1.67	1.10	1.26	
8,618.00	90.60	179.00	7,833.19	-1,039.88	65.81	1,041.76	0.29	-0.13	-0.26	
8,650.00	89.77	179.23	7,833.08	-1,071.87	66.30	1,073.75	2.69	-2.59	0.72	
8,681.00	90.10	179.62	7,833.12	-1,102.87	66.61	1,104.73	1.65	1.06	1.26	
8,713.00	90.27	179.96	7,833.01	-1,134.87	66.73	1,136.71	1.19	0.53	1.06	
8,808.00	90.64	179.90	7,832.26	-1,229.87	66.85	1,231.62	0.39	0.39	-0.06	



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Survey									
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8,839.00	90.81	180.26	7,831.87	-1,260.87	66.80	1,262.58	1.28	0.55	1.16
8,871.00	90.03	180.19	7,831.63	-1,292.86	66.68	1,294.54	2.45	-2.44	-0.22
8,902.00	90.03	180.57	7,831.62	-1,323.86	66.47	1,325.51	1.23	0.00	1.23
8,934.00	90.20	180.71	7,831.55	-1,355.86	66.11	1,357.46	0.69	0.53	0.44
8,965.00	90.74	181.17	7,831.30	-1,386.86	65.61	1,388.40	2.29	1.74	1.48
8,997.00	90.91	181.33	7,830.84	-1,418.85	64.91	1,420.33	0.73	0.53	0.50
9,028.00	90.41	180.99	7,830.48	-1,449.84	64.28	1,451.26	1.95	-1.61	-1.10
9,060.00	91.48	180.76	7,829.95	-1,481.83	63.79	1,483.20	3.42	3.34	-0.72
9,092.00	91.75	180.93	7,829.05	-1,513.81	63.32	1,515.13	1.00	0.84	0.53
9,123.00	91.81	180.95	7,828.09	-1,544.79	62.81	1,546.06	0.20	0.19	0.06
9,155.00	90.81	179.87	7,827.36	-1,576.78	62.58	1,578.01	4.60	-3.12	-3.37
9,186.00	91.21	179.96	7,826.81	-1,607.78	62.63	1,608.98	1.32	1.29	0.29
9,218.00	91.34	179.55	7,826.10	-1,639.77	62.77	1,640.94	1.34	0.41	-1.28
9,249.00	89.60	178.00	7,825.84	-1,670.76	63.43	1,671.93	7.52	-5.61	-5.00
9,281.00	88.93	176.49	7,826.25	-1,702.72	64.97	1,703.93	5.16	-2.09	-4.72
9,312.00	89.03	176.49	7,826.81	-1,733.66	66.86	1,734.92	0.32	0.32	0.00
9,344.00	89.19	176.35	7,827.30	-1,765.59	68.86	1,766.91	0.66	0.50	-0.44
9,375.00	89.46	176.41	7,827.67	-1,796.52	70.82	1,797.90	0.89	0.87	0.19
9,407.00	89.30	176.36	7,828.01	-1,828.46	72.84	1,829.89	0.52	-0.50	-0.16
9,439.00	89.29	176.52	7,828.41	-1,860.40	74.82	1,861.89	0.50	-0.03	0.50
9,502.00	89.36	176.41	7,829.15	-1,923.27	78.71	1,924.87	0.21	0.11	-0.17
9,533.00	89.83	176.59	7,829.37	-1,954.21	80.60	1,955.87	1.62	1.52	0.58
9,565.00	89.93	176.30	7,829.44	-1,986.15	82.58	1,987.86	0.96	0.31	-0.91
9,596.00	89.97	176.51	7,829.46	-2,017.09	84.53	2,018.86	0.69	0.13	0.68
9,628.00	89.63	176.17	7,829.58	-2,049.02	86.57	2,050.85	1.50	-1.06	-1.06
9,659.00	90.07	176.46	7,829.66	-2,079.96	88.56	2,081.84	1.70	1.42	0.94
9,691.00	90.20	177.42	7,829.58	-2,111.91	90.27	2,113.84	3.03	0.41	3.00
9,722.00	90.23	177.08	7,829.47	-2,142.88	91.76	2,144.84	1.10	0.10	-1.10
9,754.00	90.44	177.19	7,829.28	-2,174.84	93.36	2,176.84	0.74	0.66	0.34
9,786.00	90.44	177.39	7,829.03	-2,206.80	94.87	2,208.84	0.62	0.00	0.62
9,817.00	90.54	177.36	7,828.77	-2,237.77	96.29	2,239.84	0.34	0.32	-0.10
9,849.00	90.64	177.58	7,828.44	-2,269.73	97.70	2,271.83	0.76	0.31	0.69
9,880.00	90.74	177.52	7,828.06	-2,300.70	99.03	2,302.83	0.38	0.32	-0.19
9,912.00	90.77	177.80	7,827.64	-2,332.67	100.33	2,334.83	0.88	0.09	0.87
9,943.00	91.07	177.78	7,827.14	-2,363.65	101.53	2,365.83	0.97	0.97	-0.06
9,975.00	91.04	178.03	7,826.56	-2,395.62	102.70	2,397.82	0.79	-0.09	0.78
10,006.00	91.34	178.14	7,825.91	-2,426.60	103.73	2,428.81	1.03	0.97	0.35
10,038.00	91.28	177.98	7,825.18	-2,458.57	104.82	2,460.80	0.53	-0.19	-0.50
10,069.00	90.77	177.26	7,824.63	-2,489.54	106.11	2,491.80	2.85	-1.65	-2.32
10,101.00	90.84	177.29	7,824.18	-2,521.50	107.63	2,523.79	0.24	0.22	0.09
10,132.00	91.11	177.42	7,823.65	-2,552.46	109.06	2,554.79	0.97	0.87	0.42
10,164.00	91.14	177.50	7,823.02	-2,584.42	110.47	2,586.78	0.27	0.09	0.25
10,196.00	90.81	178.01	7,822.48	-2,616.39	111.73	2,618.78	1.90	-1.03	1.59
10,227.00	90.74	178.05	7,822.06	-2,647.37	112.79	2,649.77	0.26	-0.23	0.13
10,259.00	90.57	177.89	7,821.69	-2,679.35	113.93	2,681.77	0.73	-0.53	-0.50
10,290.00	89.63	177.72	7,821.64	-2,710.33	115.11	2,712.77	3.08	-3.03	-0.55
10,322.00	89.66	177.70	7,821.83	-2,742.30	116.39	2,744.77	0.11	0.09	-0.06
10,353.00	89.63	178.01	7,822.03	-2,773.28	117.55	2,775.77	1.00	-0.10	1.00
10,385.00	90.00	177.76	7,822.13	-2,805.26	118.73	2,807.76	1.40	1.16	-0.78
10,417.00	90.17	178.02	7,822.08	-2,837.23	119.91	2,839.76	0.97	0.53	0.81
10,448.00	90.20	177.71	7,821.98	-2,868.21	121.07	2,870.76	1.00	0.10	-1.00
10,479.00	90.23	177.81	7,821.87	-2,899.19	122.28	2,901.76	0.34	0.10	0.32
10,511.00	90.37	178.50	7,821.70	-2,931.17	123.31	2,933.76	2.20	0.44	2.16
10,543.00	90.54	178.26	7,821.44	-2,963.16	124.21	2,965.75	0.92	0.53	-0.75

Company:	PXP	Local Co-ordinate Reference:	Well Cypress "34" Fed #4H
Project:	Eddy County, NM (NAD83 NME)	TVD Reference:	WELL @ 3042.00ft (Ground Elev)
Site:	Cypress "34" Fed #4H	MD Reference:	WELL @ 3042.00ft (Ground Elev)
Well:	Cypress "34" Fed #4H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Actual	Database:	EDM 2003.16 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)
10,574.00	90.94	178.37	7,821.04	-2,994.14	125.13	2,996.75	1.34	1.29	0.35
10,606.00	91.04	178.23	7,820.49	-3,026.12	126.07	3,028.74	0.54	0.31	-0.44
10,637.00	91.04	178.37	7,819.93	-3,057.10	126.99	3,059.73	0.45	0.00	0.45
10,669.00	91.38	178.94	7,819.25	-3,089.09	127.74	3,091.72	2.07	1.06	1.78
10,687.00	91.34	178.69	7,818.83	-3,107.08	128.12	3,109.71	1.41	-0.22	-1.39
Last MWD Survey									
10,758.00	91.34	178.69	7,817.17	-3,178.04	129.74	3,180.67	0.00	0.00	0.00
Projection to Bit									

Targets									
Target Name	hit/miss target	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude Longitude
PBHL-Cypress "34" Fed	-	0.00	0.07	7,820.00	-3,172.60	139.26	457,976.53	650,884.73	32° 15' 30.800 N 103° 58' 44.200 W
- actual wellpath misses by 10.02ft at 10752.71ft MD (7817 29 TVD, -3172.76 N, 129.62 E)									
- Point									

Checked By: _____ Approved By: _____ Date: _____