

Results of Directional Survey

API number:	30-025-24087		
OGRID:		Operator:	CHEVRON U S A INC
		Property:	NORTH VACUUM ABO WEST UNIT # 24H

surface	ULSTR:	J	33	T 17S	R 34E
				2080 FSL	1980 FEL

BH Loc	ULSTR:	L	34	T 17S	R 34E
10840 MD		8786.0	TVD	2287 FSL	213 FWL

Top Perf/OH	ULSTR:	J	33	T 17S	R 34E
8583 MD		8568.8	TVD	2257 FSL	1930 FEL

Bot Perf/OH	ULSTR:	L	34	T 17S	R 34E
10840 MD		8786.0	TVD	2287 FSL	213 FWL

	MD	N/S	E/W	VD
	8575	177.05	50.58	8570.18
TOP PERFS/OH	8583	177.01	50.40	8568.78
	8320	178.28	56.43	8614.69
	10752	203.88	2105.55	8788.18
BOT PERFS/OH	10840	206.80	2193.47	8786.04
	10784	204.94	2137.52	8787.40

NEXT TO LAST	10752	203.88	2105.55	8788.18
LAST READING	10784	204.94	2137.52	8787.40
TD	10840	206.80	2193.47	8786.04

Surface Location	2080	FS	1980	FE
Projected BHL	2287	FS	213	FW
Location of				
Top Perfs/OH	2257	FS	1930	FE
Bottom Perfs/OH	2287	FS	213	FW

SUMMARY of Subsurface Locations

Surface Location	J-33-17S-34E	2080	FS	1980	FE	Vert. Depth
Top Perfs/OH	J-33-17S-34E	2257	FS	1930	FE	8568.78
Bottom Perfs/OH	L-34-17S-34E	2287	FS	213	FW	8786.04
Projected TD	L-34-17S-34E	2287	FS	213	FW	8786.04

MAY 25 2011

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Chevron

NVAWU #24-ENE - Actual
Lea County, NM (NAD83 NME)
Ground Elevation: 4058.0'
KB Datum Elevation: 4069.0'

SUR: J-33-17s-34e, 2080/S & 1980/E
BHL: L-34-17s-34e, 2287/S & 213/W
API # 30-025-24087

All data are in feet unless otherwise stated. Directions and coordinates are relative to Grid North.
Vertical depths are relative to RKB Elev (11'). Northings and Eastings are relative to site.

The Dogleg Severity is in Degrees per 100 feet.
Vertical Section is from slot and calculated along an Azimuth of 85.860° (Grid).

Coordinate System is North American Datum 1983 US State Plane 1983, New Mexico Eastern Zone.
Grid Convergence at Surface is 0.417°.

Based upon Minimum Curvature type calculations, at a Measured Depth of 10840.00ft.,
the Bottom Hole Displacement is 2203.22ft., in the Direction of 85.860° (Grid).

Survey Tools:
H 100.00 - 8575.00 GYRO SURVEY : KEEPER
H 8620.00 - 10840.00 MWD SURVEY : MWD

Survey Report:

Measured	Vertical	Incl.	Dogleg	Sub-Sea	Vertical	Local	Coordinates	UTM	Coordinates
Depth	ft	ft	Azim.	Depth	ft	Northings	Eastings	Northings	(ft)
Eastings	ft	ft	Rate	ft	ft	ft	ft	(ft)	(ft)
E	0.00	0.00	0.00	-4069.00	0.00	0.00 N	0.00 E	651822.00 N	778069.00
E	100.00	0.24	268.14	-3969.00	100.00	0.01 S	0.21 W	651821.99 N	778068.79
E	200.00	0.20	271.30	-3869.00	200.00	0.01 S	0.59 W	651821.99 N	778068.41
E	300.00	0.09	352.04	-3769.00	300.00	0.07 N	0.78 W	651822.07 N	778068.22
E	400.00	0.14	14.54	-3669.00	400.00	0.27 N	0.76 W	651822.27 N	778068.24
E	500.00	0.23	9.72	-3569.00	500.00	0.58 N	0.69 W	651822.58 N	778068.31
E	600.00	0.17	355.36	-3469.00	600.00	0.93 N	0.67 W	651822.93 N	778068.33

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E	-0.60	0.08	5.01	-3369.00	700.00	1.28 N	0.67 W	651823.28 N	778068.33
E	700.00	0.23	0.07	-3269.00	800.00	1.23 N	0.50 W	651823.23 N	778068.50
E	-0.57	0.33	148.35	-3169.01	899.99	0.72 N	0.12 W	651822.72 N	778068.88
E	800.00	-0.41	0.53	-3069.01	999.99	0.18 N	0.33 E	651822.18 N	778069.33
E	900.00	-0.07	0.40	-2969.01	1099.99	0.38 S	0.71 E	651821.62 N	778069.71
E	1000.00	0.34	0.01	-2869.01	1199.99	0.89 S	0.95 E	651821.11 N	778069.95
E	1100.00	0.68	0.10	-2769.01	1299.99	1.31 S	1.14 E	651820.69 N	778070.14
E	1200.00	0.88	0.10	-2669.01	1399.99	1.61 S	1.22 E	651820.39 N	778070.22
E	1300.00	1.04	0.02	-2569.01	1499.99	1.88 S	1.15 E	651820.12 N	778070.15
E	1400.00	1.10	0.18	-2469.01	1599.99	2.19 S	0.95 E	651819.81 N	778069.95
E	1500.00	1.02	0.08	-2369.02	1699.98	2.49 S	0.58 E	651819.51 N	778069.58
E	1600.00	0.78	0.13	-2269.02	1799.98	2.87 S	0.23 E	651819.13 N	778069.23
E	1700.00	0.39	0.07	-2169.02	1899.98	3.41 S	0.05 W	651818.59 N	778068.95
E	1800.00	0.02	0.10	-2069.02	1999.98	4.13 S	0.37 W	651817.87 N	778068.63
E	1900.00	-0.30	0.15	-1969.03	2099.97	4.97 S	0.72 W	651817.03 N	778068.28
E	2000.00	-0.66	0.07	-1869.03	2199.97	5.94 S	1.11 W	651816.06 N	778067.89
E	2100.00	-1.08	0.06	-1769.04	2299.96	7.08 S	1.47 W	651814.92 N	778067.53
E	2200.00	-1.54	0.10	-1669.05	2399.95	8.44 S	1.82 W	651813.56 N	778067.18
E	2300.00	-1.98	0.10	-1569.06	2499.94	9.85 S	2.17 W	651812.15 N	778066.83
E	2400.00	-2.42	0.17	-1469.07	2599.93	11.23 S	2.27 W	651810.77 N	778066.73
E	2500.00	-2.87	0.12	-1369.08	2699.92	12.60 S	2.14 W	651809.40 N	778066.86
E	2600.00	-3.08	0.26	-1269.09	2799.91	13.73 S	1.89 W	651808.27 N	778067.11
E	2700.00	-3.04	0.11	-1169.09	2899.91	14.43 S	1.46 W	651807.57 N	778067.54
E	2800.00	-2.88	0.19	-1069.09	2999.91	14.67 S	0.84 W	651807.33 N	778068.16
E	2900.00	-2.50	0.34						
E	3000.00	0.41	94.20						

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E	3100.00	-1.89	0.23	0.18	161.89	-969.09	3099.91	14.84 S	0.43 W	651807.16 N	778068.57
E	3200.00	-1.50	0.38	0.24	70.28	-869.09	3199.91	14.92 S	0.18 W	651807.08 N	778068.82
E	3300.00	-1.26	0.30	0.26	64.81	-769.09	3299.91	14.75 S	0.22 E	651807.25 N	778069.22
E	3400.00	-0.85	0.03	0.30	42.64	-669.10	3399.90	14.46 S	0.60 E	651807.54 N	778069.60
E	3500.00	-0.45	0.11	0.53	5.44	-569.10	3499.90	13.81 S	0.82 E	651808.19 N	778069.82
E	3600.00	-0.18	0.34	0.80	359.13	-469.10	3599.90	12.65 S	0.85 E	651809.35 N	778069.85
E	3700.00	-0.06	0.28	0.89	359.38	-369.12	3699.88	11.18 S	0.84 E	651810.82 N	778069.84
E	3800.00	0.03	0.09	1.07	353.91	-269.13	3799.87	9.47 S	0.73 E	651812.53 N	778069.73
E	3900.00	0.04	0.20	1.32	351.97	-169.15	3899.85	7.40 S	0.47 E	651814.60 N	778069.47
E	4000.00	-0.07	0.25	1.57	353.26	-69.18	3999.82	4.90 S	0.15 E	651817.10 N	778069.15
E	4100.00	-0.21	0.25	2.06	356.27	30.77	4099.77	1.75 S	0.13 W	651820.25 N	778068.87
E	4200.00	-0.26	0.50	2.44	1.82	130.69	4199.69	2.17 N	0.18 W	651824.17 N	778068.82
E	4300.00	-0.02	0.44	2.66	0.99	230.59	4299.59	6.62 N	0.07 W	651828.62 N	778068.93
E	4400.00	0.41	0.22	2.78	1.51	330.48	4399.48	11.36 N	0.03 E	651833.36 N	778069.03
E	4500.00	0.85	0.12	2.84	2.71	430.36	4499.36	16.26 N	0.21 E	651838.26 N	778069.21
E	4600.00	1.39	0.08	2.70	1.22	530.24	4599.24	21.09 N	0.38 E	651843.09 N	778069.38
E	4700.00	1.90	0.16	2.60	1.83	630.13	4699.13	25.71 N	0.50 E	651847.71 N	778069.50
E	4800.00	2.36	0.10	2.65	2.69	730.03	4799.03	30.29 N	0.68 E	651852.29 N	778069.68
E	4900.00	2.87	0.06	2.67	5.10	829.92	4898.92	34.92 N	1.00 E	651856.92 N	778070.00
E	5000.00	3.52	0.11	2.78	6.74	929.81	4998.81	39.65 N	1.49 E	651861.65 N	778070.49
E	5100.00	4.35	0.13	3.07	4.72	1029.68	5098.68	44.73 N	2.00 E	651866.73 N	778071.00
E	5200.00	5.22	0.31	3.29	3.60	1129.52	5198.52	50.26 N	2.40 E	651872.26 N	778071.40
E	5300.00	6.02	0.23	3.41	4.10	1229.35	5298.35	56.09 N	2.79 E	651878.09 N	778071.79
E	5400.00	6.83	0.12	3.55	2.97	1329.17	5398.17	62.15 N	3.16 E	651884.15 N	778072.16

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E	5500.00	7.64	0.16	6.10	1428.96	5497.96	68.62	N	3.68	E	651890.62	N	778072.68
E	5600.00	8.63	0.40	10.59	1528.68	5597.68	75.97	N	4.79	E	651897.97	N	778073.79
E	5700.00	10.26	0.80	10.78	1628.35	5697.35	83.93	N	6.29	E	651905.93	N	778075.29
E	5800.00	12.33	0.04	12.76	1728.04	5797.04	91.62	N	7.89	E	651913.62	N	778076.89
E	5900.00	14.48	0.37	13.39	1827.78	5896.78	98.69	N	9.53	E	651920.69	N	778078.53
E	6000.00	16.63	0.33	17.41	1927.57	5996.57	104.87	N	11.21	E	651926.87	N	778080.21
E	6100.00	18.75	0.70	19.13	2027.44	6096.44	109.80	N	12.83	E	651931.80	N	778081.83
E	6200.00	20.72	0.76	23.60	2127.35	6196.35	113.74	N	14.35	E	651935.74	N	778083.35
E	6300.00	22.53	0.41	27.56	2227.28	6296.28	117.14	N	15.97	E	651939.14	N	778084.97
E	6400.00	24.39	0.22	28.00	2327.21	6396.21	120.37	N	17.68	E	651942.37	N	778086.68
E	6500.00	26.32	0.03	26.10	2427.14	6496.14	123.60	N	19.33	E	651945.60	N	778088.33
E	6600.00	28.20	0.09	28.04	2527.08	6596.08	126.84	N	20.99	E	651948.84	N	778089.99
E	6700.00	30.09	0.10	28.10	2627.01	6696.01	130.15	N	22.75	E	651952.15	N	778091.75
E	6800.00	32.09	0.06	32.79	2726.94	6795.94	133.30	N	24.59	E	651955.30	N	778093.59
E	6900.00	34.15	0.25	30.60	2826.89	6895.89	136.06	N	26.30	E	651958.06	N	778095.30
E	7000.00	36.06	0.28	28.11	2926.84	6995.84	138.74	N	27.81	E	651960.74	N	778096.81
E	7100.00	37.75	0.10	26.05	3026.79	7095.79	141.61	N	29.27	E	651963.61	N	778098.27
E	7200.00	39.42	0.13	26.43	3126.73	7195.73	144.64	N	30.77	E	651966.64	N	778099.77
E	7300.00	41.13	0.08	22.58	3226.67	7295.67	147.74	N	32.19	E	651969.74	N	778101.19
E	7400.00	42.77	0.14	19.36	3326.62	7395.62	150.70	N	33.32	E	651972.70	N	778102.32
E	7500.00	44.12	0.25	25.48	3426.58	7495.58	153.39	N	34.43	E	651975.39	N	778103.43
E	7600.00	45.41	0.19	31.71	3526.54	7595.54	155.88	N	35.79	E	651977.88	N	778104.79
E	7700.00	46.95	0.18	32.16	3626.50	7695.50	158.31	N	37.30	E	651980.31	N	778106.30
E	7800.00	48.64	0.04	31.32	3726.46	7795.46	160.69	N	38.77	E	651982.69	N	778107.77

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E	7900.00	50.27	0.12	27.98	3826.42	7895.42	163.14	N	40.16	E	651985.14	N	778109.16
E	8000.00	51.84	0.18	23.69	3926.38	7995.38	165.79	N	41.45	E	651987.79	N	778110.45
E	8100.00	53.31	0.13	23.73	4026.33	8095.33	168.45	N	42.62	E	651990.45	N	778111.62
E	8200.00	54.67	0.05	27.67	4126.30	8195.30	170.87	N	43.78	E	651992.87	N	778112.78
E	8300.00	56.00	0.23	38.31	4226.27	8295.27	172.96	N	45.13	E	651994.96	N	778114.13
E	8400.00	57.50	0.27	51.12	4326.23	8395.23	174.81	N	46.98	E	651996.81	N	778115.98
E	8500.00	59.48	0.37	58.81	4426.20	8495.20	176.25	N	49.00	E	651998.25	N	778118.00
E	8575.00	61.60	0.36	66.61	4501.18	8570.18	177.05	N	50.58	E	651999.05	N	778119.58
E	8620.00	63.23	0.34	79.42	4545.69	8614.69	178.28	N	56.43	E	652000.28	N	778125.43
E	8637.00	69.16	27.71	81.86	4562.00	8631.00	179.04	N	61.15	E	652001.04	N	778130.15
E	8652.00	73.92	29.22	84.47	4576.00	8645.00	179.67	N	66.50	E	652001.67	N	778135.50
E	8668.00	79.29	30.44	86.77	4590.45	8659.45	180.18	N	73.34	E	652002.18	N	778142.34
E	8683.00	86.16	27.45	88.37	4603.49	8672.49	180.49	N	80.74	E	652002.49	N	778149.74
E	8700.00	93.56	27.97	85.24	4617.61	8686.61	181.03	N	90.18	E	652003.03	N	778159.18
E	8715.00	103.01	27.06	82.81	4629.45	8698.45	182.00	N	99.33	E	652004.00	N	778168.33
E	8729.00	112.21	27.71	85.45	4639.89	8708.89	182.94	N	108.61	E	652004.94	N	778177.61
E	8744.00	121.53	30.68	87.37	4650.35	8719.35	183.61	N	119.33	E	652005.61	N	778188.33
E	8761.00	132.28	28.64	85.91	4661.25	8730.25	184.38	N	132.35	E	652006.38	N	778201.35
E	8792.00	145.32	28.25	86.91	4678.83	8747.83	185.97	N	157.82	E	652007.97	N	778226.82
E	8824.00	170.83	19.28	89.00	4694.30	8763.30	186.95	N	185.80	E	652008.95	N	778254.80
E	8855.00	198.81	17.79	89.76	4707.02	8776.02	187.26	N	214.06	E	652009.26	N	778283.06
E	8886.00	227.02	13.03	90.61	4717.42	8786.42	187.16	N	243.25	E	652009.16	N	778312.25
E	8918.00	256.13	17.10	91.16	4726.10	8795.10	186.68	N	274.04	E	652008.68	N	778343.04
E	8949.00	286.81	8.05	91.57	4732.76	8801.76	185.96	N	304.30	E	652007.96	N	778373.30

[illegible]

INWANO #24 - Initial Survey Report - Critical												
E	1072.15	5.61	87.98	4726.43	8795.43	189.75	N	1092.26	E	652011.75	N	779161.26
E	9738.00	91.91	87.98	4726.43	8795.43	189.75	N	1092.26	E	652011.75	N	779161.26
E	1103.11	2.45										
E	9770.00	91.85	87.64	4725.38	8794.38	190.97	N	1124.22	E	652012.97	N	779193.22
E	1135.07	1.08										
E	9801.00	92.42	87.46	4724.23	8793.23	192.29	N	1155.17	E	652014.29	N	779224.17
E	1166.04	1.93										
E	9833.00	91.95	88.92	4723.01	8792.01	193.30	N	1187.13	E	652015.30	N	779256.13
E	1197.98	4.79										
E	9865.00	91.95	89.93	4721.92	8790.92	193.63	N	1219.11	E	652015.63	N	779288.11
E	1229.90	3.15										
E	9897.00	91.98	89.69	4720.82	8789.82	193.73	N	1251.09	E	652015.73	N	779320.09
E	1261.81	0.76										
E	9929.00	90.47	90.60	4720.14	8789.14	193.65	N	1283.08	E	652015.65	N	779352.08
E	1293.71	5.51										
E	9960.00	90.54	91.47	4719.86	8788.86	193.09	N	1314.07	E	652015.09	N	779383.07
E	1324.58	2.82										
E	9992.00	90.61	91.58	4719.54	8788.54	192.24	N	1346.06	E	652014.24	N	779415.06
E	1356.43	0.41										
E	10024.00	88.86	91.64	4719.69	8788.69	191.34	N	1378.04	E	652013.34	N	779447.04
E	1388.26	5.47										
E	10055.00	88.59	91.36	4720.38	8789.38	190.53	N	1409.03	E	652012.53	N	779478.03
E	1419.10	1.25										
E	10087.00	89.09	91.87	4721.03	8790.03	189.63	N	1441.01	E	652011.63	N	779510.01
E	1450.94	2.23										
E	10119.00	89.29	89.96	4721.48	8790.48	189.12	N	1473.00	E	652011.12	N	779542.00
E	1482.81	6.00										
E	10150.00	89.90	88.92	4721.70	8790.70	189.42	N	1504.00	E	652011.42	N	779573.00
E	1513.75	3.89										
E	10182.00	90.27	89.19	4721.65	8790.65	189.95	N	1535.99	E	652011.95	N	779604.99
E	1545.70	1.43										
E	10214.00	90.84	90.03	4721.34	8790.34	190.16	N	1567.99	E	652012.16	N	779636.99
E	1577.63	3.17										
E	10246.00	90.60	89.31	4720.94	8789.94	190.35	N	1599.99	E	652012.35	N	779668.99
E	1609.55	2.37										
E	10278.00	91.24	89.75	4720.43	8789.43	190.61	N	1631.98	E	652012.61	N	779700.98
E	1641.48	2.43										
E	10309.00	91.71	90.23	4719.63	8788.63	190.62	N	1662.97	E	652012.62	N	779731.97
E	1672.39	2.17										
E	10341.00	90.34	90.67	4719.06	8788.06							

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E	1830.05	0.64							
E	10498.00	88.99	86.90	4722.38	8791.38	194.86	N	1851.80	E
E	1861.04	3.19							
E	10530.00	89.36	87.40	4722.84	8791.84	196.45	N	1883.76	E
E	1893.02	1.94							
E	10562.00	90.47	87.19	4722.88	8791.88	197.96	N	1915.72	E
E	1925.01	3.53							
E	10592.00	91.01	88.31	4722.50	8791.50	199.13	N	1945.70	E
E	1954.99	4.14							
E	10625.00	89.66	88.06	4722.30	8791.30	200.18	N	1978.68	E
E	1987.97	4.16							
E	10657.00	89.46	87.94	4722.55	8791.55	201.30	N	2010.66	E
E	2019.94	0.73							
E	10689.00	92.62	88.33	4721.97	8790.97	202.34	N	2042.63	E
E	2051.91	9.95							
E	10721.00	92.85	88.86	4720.44	8789.44	203.12	N	2074.58	E
E	2083.84	1.80							
E	10752.00	91.82	88.34	4719.18	8788.18	203.88	N	2105.55	E
E	2114.77	3.72							
E	10784.00	90.97	87.85	4718.40	8787.40	204.94	N	2137.52	E
E	2146.74	3.07	Last MWD Survey						
E	10840.00	90.97	87.85	4717.45	8786.45	207.04	N	2193.47	E
E	2202.70	0.00	Projection to Bit						

SUR: J-33-17s-34e, 2080/S & 1980/E
BHL: L-34-17s-34e, 2287/S & 213/W
API # 30-025-24087



Chevron

Lea County, NM (NAD83 NME)
North Vacuum Abo West Unit #24-ENE
NVAWU #24-ENE

OH

Design: Actual

Standard Survey Report

24 January, 2011





Scientific Drilling
Survey Report



Company:	Chevron	Local Co-ordinate Reference:	Site North Vacuum Abo West Unit #24-ENE
Project:	Lea County, NM (NAD83 NME)	TVD Reference:	RKB Elev (11') @ 4069.00usft
Site:	North Vacuum Abo West Unit #24-ENE	MD Reference:	RKB Elev (11') @ 4069.00usft
Well:	NVAWU #24-ENE	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Actual	Database:	EDM-Julio

Project	Lea 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	North Vacuum Abo West Unit #24-ENE				
Site Position:		Northing:	651,822.00 usft	Latitude:	32° 47' 22.276 N
From:	Map	Easting:	778,069.00 usft	Longitude:	103° 33' 46.762 W
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.42 °

Well	NVAWU #24-ENE					
Well Position	+N/-S	0.00 usft	Northing:	651,822.00 usft	Latitude:	32° 47' 22.276 N
	+E/-W	0.00 usft	Easting:	778,069.00 usft	Longitude:	103° 33' 46.762 W
Position Uncertainty	0.00 usft	Wellhead Elevation:	usft	Ground Level:	4,058.00 usft	

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	2011/01/09	7.68	60.72	48,997

Design	Actual				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.00	0.00	0.00	85.86	

Survey Program	Date 2011/01/24				
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
100.00	8,575.00	Gyro Survey (OH)	Keeper	Keeper Standard Rate Gyro	
8,620.00	10,840.00	MWD Survey (OH)	MWD	MWD - Standard ISCWSA	

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
100.00	0.24	268.14	100.00	-0.01	-0.21	-0.21	0.24	0.24	0.00	
200.00	0.20	271.30	200.00	-0.01	-0.59	-0.59	0.04	-0.04	3.16	
300.00	0.09	352.04	300.00	0.07	-0.78	-0.77	0.21	-0.11	80.74	
400.00	0.14	14.54	400.00	0.27	-0.76	-0.74	0.07	0.05	22.50	
500.00	0.23	9.72	500.00	0.58	-0.69	-0.65	0.09	0.09	-4.82	
600.00	0.17	355.36	600.00	0.93	-0.67	-0.60	0.08	-0.06	-14.36	
700.00	0.23	5.01	700.00	1.28	-0.67	-0.57	0.07	0.06	9.65	
800.00	0.33	148.35	800.00	1.23	-0.50	-0.41	0.53	0.10	143.34	
900.00	0.40	140.28	899.99	0.72	-0.12	-0.07	0.09	0.07	-8.07	



Scientific Drilling
Survey Report



Company:	Chevron	Local Co-ordinate Reference:	Site North Vacuum Abo West Unit #24-ENE
Project:	Lea County, NM (NAD83 NME)	TVD Reference:	RKB Elev (11') @ 4069.00usft
Site:	North Vacuum Abo West Unit #24-ENE	MD Reference:	RKB Elev (11') @ 4069.00usft
Well:	NVAWU #24-ENE	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Actual	Database:	EDM-Julio

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)
1,000.00	0.41	139.47	999.99	0.18	0.33	0.34	0.01	0.01	-0.81
1,100.00	0.37	153.24	1,099.99	-0.38	0.71	0.68	0.10	-0.04	13.77
1,200.00	0.27	156.79	1,199.99	-0.89	0.95	0.88	0.10	-0.10	3.55
1,300.00	0.26	153.52	1,299.99	-1.31	1.14	1.04	0.02	-0.01	-3.27
1,400.00	0.12	190.94	1,399.99	-1.61	1.22	1.10	0.18	-0.14	37.42
1,500.00	0.20	196.35	1,499.99	-1.88	1.15	1.02	0.08	0.08	5.41
1,600.00	0.24	229.72	1,599.99	-2.19	0.95	0.78	0.13	0.04	33.37
1,700.00	0.31	230.91	1,699.98	-2.49	0.58	0.39	0.07	0.07	1.19
1,800.00	0.28	213.03	1,799.98	-2.87	0.23	0.02	0.10	-0.03	-17.88
1,900.00	0.42	204.15	1,899.98	-3.41	-0.05	-0.30	0.15	0.14	-8.88
2,000.00	0.49	202.92	1,999.98	-4.13	-0.37	-0.66	0.07	0.07	-1.23
2,100.00	0.55	203.13	2,099.97	-4.97	-0.72	-1.08	0.06	0.06	0.21
2,200.00	0.65	200.67	2,199.97	-5.94	-1.11	-1.54	0.10	0.10	-2.46
2,300.00	0.72	194.70	2,299.96	-7.08	-1.47	-1.98	0.10	0.07	-5.97
2,400.00	0.89	194.08	2,399.95	-8.44	-1.82	-2.42	0.17	0.17	-0.62
2,500.00	0.77	193.58	2,499.94	-9.85	-2.17	-2.87	0.12	-0.12	-0.50
2,600.00	0.84	175.96	2,599.93	-11.23	-2.27	-3.08	0.26	0.07	-17.62
2,700.00	0.74	172.53	2,699.92	-12.60	-2.14	-3.04	0.11	-0.10	-3.43
2,800.00	0.59	161.77	2,799.91	-13.73	-1.89	-2.88	0.19	-0.15	-10.76
2,900.00	0.39	127.87	2,899.91	-14.43	-1.46	-2.50	0.34	-0.20	-33.90
3,000.00	0.41	94.20	2,999.91	-14.67	-0.84	-1.89	0.23	0.02	-33.67
3,100.00	0.18	161.89	3,099.91	-14.84	-0.43	-1.50	0.38	-0.23	67.69
3,200.00	0.24	70.28	3,199.91	-14.92	-0.18	-1.26	0.30	0.06	-91.61
3,300.00	0.26	64.81	3,299.91	-14.75	0.22	-0.85	0.03	0.02	-5.47
3,400.00	0.30	42.64	3,399.91	-14.46	0.60	-0.45	0.11	0.04	-22.17
3,500.00	0.53	5.44	3,499.90	-13.81	0.82	-0.18	0.34	0.23	-37.20
3,600.00	0.80	359.13	3,599.90	-12.65	0.85	-0.06	0.28	0.27	-6.31
3,700.00	0.89	359.38	3,699.88	-11.18	0.84	0.03	0.09	0.09	0.25
3,800.00	1.07	353.91	3,799.87	-9.47	0.73	0.04	0.20	0.18	-5.47
3,900.00	1.32	351.97	3,899.85	-7.40	0.47	-0.07	0.25	0.25	-1.94
4,000.00	1.57	353.26	3,999.82	-4.90	0.15	-0.21	0.25	0.25	1.29
4,100.00	2.06	356.27	4,099.77	-1.75	-0.13	-0.26	0.50	0.49	3.01
4,200.00	2.44	1.82	4,199.69	2.17	-0.18	-0.02	0.44	0.38	5.55
4,300.00	2.66	0.99	4,299.59	6.62	-0.07	0.41	0.22	0.22	-0.83
4,400.00	2.78	1.51	4,399.48	11.36	0.03	0.85	0.12	0.12	0.52
4,500.00	2.84	2.71	4,499.36	16.26	0.21	1.39	0.08	0.06	1.20
4,600.00	2.70	1.22	4,599.24	21.09	0.38	1.90	0.16	-0.14	-1.49
4,700.00	2.60	1.83	4,699.13	25.71	0.50	2.36	0.10	-0.10	0.61
4,800.00	2.65	2.69	4,799.03	30.29	0.68	2.87	0.06	0.05	0.86
4,900.00	2.67	5.10	4,898.92	34.92	1.00	3.52	0.11	0.02	2.41
5,000.00	2.78	6.74	4,998.81	39.65	1.49	4.35	0.13	0.11	1.64
5,100.00	3.07	4.72	5,098.68	44.73	2.00	5.22	0.31	0.29	-2.02
5,200.00	3.29	3.60	5,198.52	50.26	2.40	6.02	0.23	0.22	-1.12



Scientific Drilling
Survey Report



Company:	Chevron	Local Co-ordinate Reference:	Site North Vacuum Abo West Unit #24-ENE
Project:	Lea County, NM (NAD83 NME)	TVD Reference:	RKB Elev (11') @ 4069.00usft
Site:	North Vacuum Abo West Unit #24-ENE	MD Reference:	RKB Elev (11') @ 4069.00usft
Well:	NVAWU #24-ENE	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Actual	Database:	EDM-Julio

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)
5,300.00	3.41	4.10	5,298.35	56.09	2.79	6.83	0.12	0.12	0.50
5,400.00	3.55	2.97	5,398.17	62.15	3.16	7.64	0.16	0.14	-1.13
5,500.00	3.90	6.10	5,497.96	68.62	3.68	8.63	0.40	0.35	3.13
5,600.00	4.63	10.59	5,597.68	75.97	4.79	10.26	0.80	0.73	4.49
5,700.00	4.67	10.78	5,697.35	83.93	6.29	12.33	0.04	0.04	0.19
5,800.00	4.33	12.76	5,797.04	91.62	7.89	14.48	0.37	-0.34	1.98
5,900.00	4.00	13.39	5,896.78	98.69	9.53	16.63	0.33	-0.33	0.63
6,000.00	3.35	17.41	5,996.57	104.87	11.21	18.75	0.70	-0.65	4.02
6,100.00	2.60	19.13	6,096.44	109.80	12.83	20.72	0.76	-0.75	1.72
6,200.00	2.24	23.60	6,196.35	113.74	14.35	22.53	0.41	-0.36	4.47
6,300.00	2.08	27.56	6,296.28	117.14	15.97	24.39	0.22	-0.16	3.96
6,400.00	2.11	28.00	6,396.21	120.37	17.68	26.32	0.03	0.03	0.44
6,500.00	2.05	26.10	6,496.14	123.60	19.33	28.20	0.09	-0.06	-1.90
6,600.00	2.12	28.04	6,596.08	126.84	20.99	30.09	0.10	0.07	1.94
6,700.00	2.18	28.10	6,696.01	130.15	22.75	32.09	0.06	0.06	0.06
6,800.00	2.00	32.79	6,795.94	133.30	24.59	34.15	0.25	-0.18	4.69
6,900.00	1.73	30.60	6,895.89	136.06	26.30	36.06	0.28	-0.27	-2.19
7,000.00	1.79	28.11	6,995.84	138.74	27.81	37.75	0.10	0.06	-2.49
7,100.00	1.90	26.05	7,095.79	141.61	29.27	39.42	0.13	0.11	-2.06
7,200.00	1.98	26.43	7,195.73	144.64	30.77	41.13	0.08	0.08	0.38
7,300.00	1.93	22.58	7,295.67	147.74	32.19	42.77	0.14	-0.05	-3.85
7,400.00	1.70	19.36	7,395.62	150.70	33.32	44.12	0.25	-0.23	-3.22
7,500.00	1.64	25.48	7,495.58	153.39	34.43	45.41	0.19	-0.06	6.12
7,600.00	1.62	31.71	7,595.54	155.88	35.79	46.95	0.18	-0.02	6.23
7,700.00	1.66	32.16	7,695.50	158.31	37.30	48.64	0.04	0.04	0.45
7,800.00	1.54	31.32	7,795.46	160.69	38.77	50.27	0.12	-0.12	-0.84
7,900.00	1.69	27.98	7,895.42	163.14	40.16	51.84	0.18	0.15	-3.34
8,000.00	1.69	23.69	7,995.38	165.79	41.45	53.31	0.13	0.00	-4.29
8,100.00	1.64	23.73	8,095.33	168.45	42.62	54.67	0.05	-0.05	0.04
8,200.00	1.44	27.67	8,195.30	170.87	43.78	56.00	0.23	-0.20	3.94
8,300.00	1.43	38.31	8,295.27	172.96	45.13	57.50	0.27	-0.01	10.64
8,400.00	1.58	51.12	8,395.23	174.81	46.98	59.48	0.37	0.15	12.81
8,500.00	1.27	58.81	8,495.20	176.25	49.00	61.60	0.36	-0.31	7.69
8,575.00	1.45	66.61	8,570.18	177.05	50.58	63.23	0.34	0.24	10.40
Gyro Tie-in									
8,620.00	13.88	79.42	8,614.69	178.28	56.43	69.16	27.71	27.62	28.47
8,637.00	18.80	81.86	8,631.00	179.04	61.15	73.92	29.22	28.94	14.35
8,652.00	23.27	84.47	8,645.00	179.67	66.50	79.29	30.44	29.80	17.40
8,668.00	27.55	86.77	8,659.45	180.18	73.34	86.16	27.45	26.75	14.38
8,683.00	31.67	88.37	8,672.49	180.49	80.74	93.56	27.97	27.47	10.67
8,700.00	35.93	85.24	8,686.61	181.03	90.18	103.01	27.06	25.06	-18.41
8,715.00	39.81	82.81	8,698.45	182.00	99.33	112.21	27.71	25.87	-16.20
8,729.00	43.73	85.45	8,708.89	182.94	108.61	121.53	30.68	28.00	18.86



Scientific Drilling
Survey Report



Company:	Chevron	Local Co-ordinate Reference:	Site North Vacuum Abo West Unit #24-ENE
Project:	Lea County, NM (NAD83 NME)	TVD Reference:	RKB Elev (11') @ 4069.00usft
Site:	North Vacuum Abo West Unit #24-ENE	MD Reference:	RKB Elev (11') @ 4069.00usft
Well:	NVAWU #24-ENE	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Actual	Database:	EDM-Julio

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)
8,744.00	47.80	87.37	8,719.35	183.61	119.33	132.28	28.64	27.13	12.80
8,761.00	52.47	85.91	8,730.25	184.38	132.35	145.32	28.25	27.47	-8.59
8,792.00	58.39	86.91	8,747.83	185.97	157.82	170.83	19.28	19.10	3.23
8,824.00	63.78	89.00	8,763.30	186.95	185.80	198.81	17.79	16.84	6.53
8,855.00	67.76	89.76	8,776.02	187.26	214.06	227.02	13.03	12.84	2.45
8,886.00	73.00	90.61	8,786.42	187.16	243.25	256.13	17.10	16.90	2.74
8,918.00	75.52	91.16	8,795.10	186.68	274.04	286.81	8.05	7.88	1.72
8,949.00	79.66	91.57	8,801.76	185.96	304.30	316.94	13.42	13.35	1.32
8,981.00	86.17	91.09	8,805.71	185.22	336.03	348.53	20.40	20.34	-1.50
9,013.00	87.54	91.64	8,807.46	184.46	367.98	380.33	4.61	4.28	1.72
9,044.00	87.88	92.08	8,808.70	183.46	398.93	411.14	1.79	1.10	1.42
9,076.00	87.51	92.44	8,809.99	182.20	430.88	442.91	1.61	-1.16	1.13
9,108.00	88.89	90.29	8,810.99	181.44	462.86	474.75	7.98	4.31	-6.72
9,140.00	89.46	89.83	8,811.45	181.40	494.85	506.66	2.29	1.78	-1.44
9,171.00	89.16	89.89	8,811.83	181.48	525.85	537.58	0.99	-0.97	0.19
9,203.00	89.19	90.44	8,812.29	181.39	557.85	569.49	1.72	0.09	1.72
9,235.00	91.34	90.14	8,812.14	181.22	589.84	601.39	6.78	6.72	-0.94
9,266.00	91.48	90.56	8,811.38	181.03	620.83	632.28	1.43	0.45	1.35
9,298.00	91.14	90.78	8,810.65	180.66	652.82	664.16	1.27	-1.06	0.69
9,329.00	91.34	90.03	8,809.98	180.44	683.82	695.06	2.50	0.65	-2.42
9,361.00	90.91	90.38	8,809.35	180.33	715.81	726.96	1.73	-1.34	1.09
9,392.00	92.12	89.63	8,808.53	180.32	746.80	757.87	4.59	3.90	-2.42
9,422.00	91.78	90.63	8,807.51	180.26	776.78	787.77	3.52	-1.13	3.33
9,454.00	91.54	90.93	8,806.58	179.82	808.76	819.63	1.20	-0.75	0.94
9,486.00	91.01	90.12	8,805.87	179.53	840.75	851.52	3.02	-1.66	-2.53
9,518.00	91.31	89.42	8,805.22	179.66	872.75	883.44	2.38	0.94	-2.19
9,550.00	91.55	88.14	8,804.42	180.34	904.73	915.39	4.07	0.75	-4.00
9,581.00	92.05	87.03	8,803.45	181.64	935.69	946.36	3.93	1.61	-3.58
9,613.00	92.75	86.74	8,802.11	183.38	967.61	978.32	2.37	2.19	-0.91
9,644.00	93.46	86.85	8,800.43	185.11	998.52	1,009.27	2.32	2.29	0.35
9,675.00	93.83	86.38	8,798.46	186.94	1,029.40	1,040.21	1.93	1.19	-1.52
9,707.00	92.62	87.71	8,796.66	188.58	1,061.30	1,072.15	5.61	-3.78	4.16
9,738.00	91.91	87.98	8,795.43	189.75	1,092.26	1,103.11	2.45	-2.29	0.87
9,770.00	91.85	87.64	8,794.38	190.97	1,124.22	1,135.07	1.08	-0.19	-1.06
9,801.00	92.42	87.46	8,793.23	192.29	1,155.17	1,166.04	1.93	1.84	-0.58
9,833.00	91.95	88.92	8,792.01	193.30	1,187.13	1,197.98	4.79	-1.47	4.56
9,865.00	91.95	89.93	8,790.92	193.63	1,219.11	1,229.90	3.15	0.00	3.16
9,897.00	91.98	89.69	8,789.82	193.73	1,251.09	1,261.81	0.76	0.09	-0.75
9,929.00	90.47	90.60	8,789.14	193.65	1,283.08	1,293.71	5.51	-4.72	2.84
9,960.00	90.54	91.47	8,788.86	193.09	1,314.07	1,324.58	2.82	0.23	2.81
9,992.00	90.61	91.58	8,788.54	192.24	1,346.06	1,356.43	0.41	0.22	0.34
10,024.00	88.86	91.64	8,788.69	191.34	1,378.04	1,388.26	5.47	-5.47	0.19
10,055.00	88.59	91.36	8,789.38	190.53	1,409.03	1,419.10	1.25	-0.87	-0.90
10,087.00	89.09	91.87	8,790.03	189.63	1,441.01	1,450.94	2.23	1.56	1.59



Scientific Drilling
Survey Report



Company:	Chevron	Local Co-ordinate Reference:	Site North Vacuum Abo West Unit #24-ENE
Project:	Lea County, NM (NAD83 NME)	TVD Reference:	RKB Elev (11') @ 4069.00usft
Site:	North Vacuum Abo West Unit #24-ENE	MD Reference:	RKB Elev (11') @ 4069.00usft
Well:	NVAWU #24-ENE	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Actual	Database:	EDM-Julio

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)
10,119.00	89.29	89.96	8,790.48	189.12	1,473.00	1,482.81	6.00	0.63	-5.97
10,150.00	89.90	88.92	8,790.70	189.42	1,504.00	1,513.75	3.89	1.97	-3.35
10,182.00	90.27	89.19	8,790.65	189.95	1,535.99	1,545.70	1.43	1.16	0.84
10,214.00	90.84	90.03	8,790.34	190.16	1,567.99	1,577.63	3.17	1.78	2.63
10,246.00	90.60	89.31	8,789.94	190.35	1,599.99	1,609.55	2.37	-0.75	-2.25
10,278.00	91.24	89.75	8,789.43	190.61	1,631.98	1,641.48	2.43	2.00	1.38
10,309.00	91.71	90.23	8,788.63	190.62	1,662.97	1,672.39	2.17	1.52	1.55
10,341.00	90.34	90.67	8,788.06	190.37	1,694.96	1,704.28	4.50	-4.28	1.38
10,372.00	89.93	90.21	8,787.98	190.13	1,725.96	1,735.18	1.99	-1.32	-1.48
10,404.00	88.52	88.59	8,788.42	190.46	1,757.95	1,767.12	6.71	-4.41	-5.06
10,435.00	87.82	87.13	8,789.41	191.62	1,788.92	1,798.08	5.22	-2.26	-4.71
10,467.00	88.02	87.09	8,790.57	193.23	1,820.85	1,830.05	0.64	0.63	-0.13
10,498.00	88.99	86.90	8,791.38	194.86	1,851.80	1,861.04	3.19	3.13	-0.61
10,530.00	89.36	87.40	8,791.84	196.45	1,883.76	1,893.02	1.94	1.16	1.56
10,562.00	90.47	87.19	8,791.88	197.96	1,915.72	1,925.01	3.53	3.47	-0.66
10,592.00	91.01	88.31	8,791.50	199.13	1,945.70	1,954.99	4.14	1.80	3.73
10,625.00	89.66	88.06	8,791.30	200.18	1,978.68	1,987.97	4.16	-4.09	-0.76
10,657.00	89.46	87.94	8,791.55	201.30	2,010.66	2,019.94	0.73	-0.63	-0.38
10,689.00	92.62	88.33	8,790.97	202.34	2,042.63	2,051.91	9.95	9.88	1.22
10,721.00	92.85	88.86	8,789.44	203.12	2,074.58	2,083.84	1.80	0.72	1.66
10,752.00	91.82	88.34	8,788.18	203.88	2,105.55	2,114.77	3.72	-3.32	-1.68
10,784.00	90.97	87.85	8,787.40	204.94	2,137.52	2,146.74	3.07	-2.66	-1.53
Last MWD Survey									
10,840.00	90.97	87.85	8,786.45	207.04	2,193.47	2,202.70	0.00	0.00	0.00
Projection to Bit									

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
8,575.00	8,570.18	177.05	50.58	Gyro Tie-in
10,784.00	8,787.40	204.94	2,137.52	Last MWD Survey
10,840.00	8,786.45	207.04	2,193.47	Projection to Bit

Checked By:	Approved By:	Date:
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Scientific Drilling for Chevron
Site: Lea County, NM (NAD83 NME)
Well: NVAWU #24-ENE
Wellbore: OH
Design: Plan #6 - 4-3/4" Hole



SECTION DETAILS

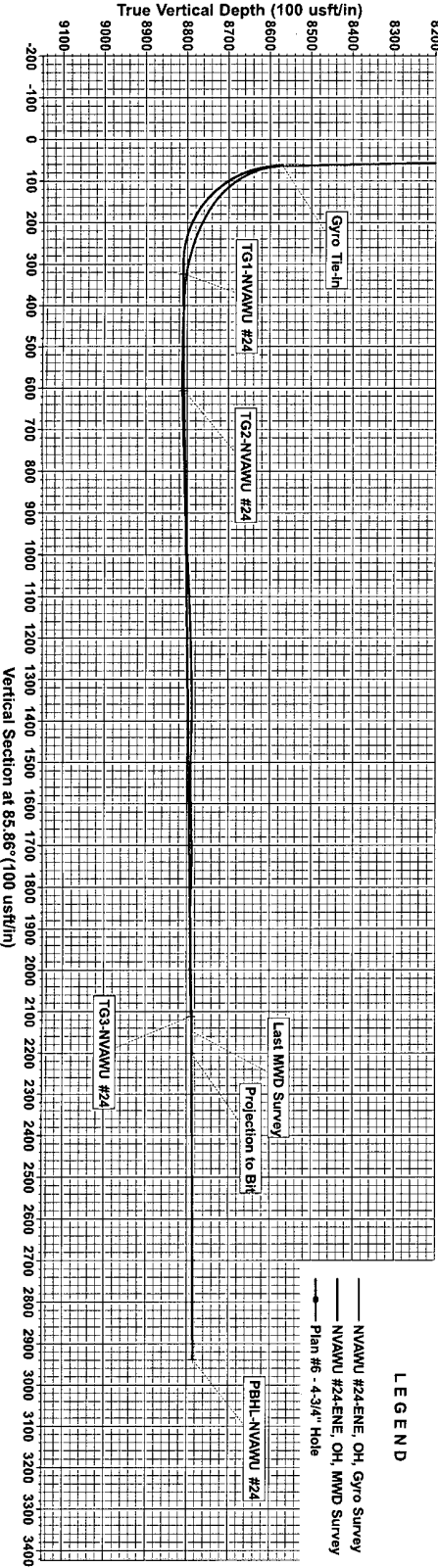
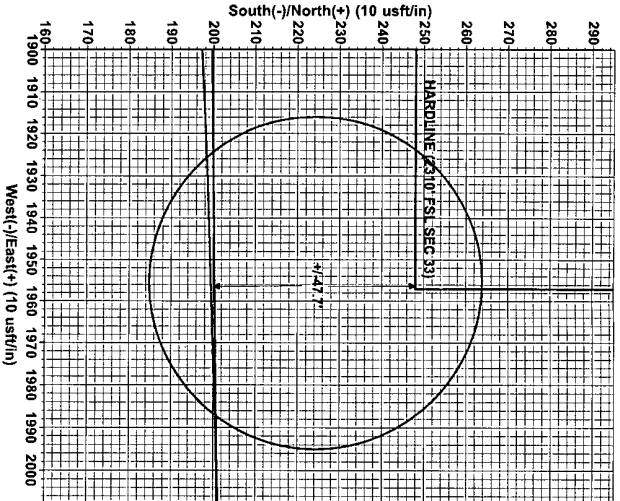
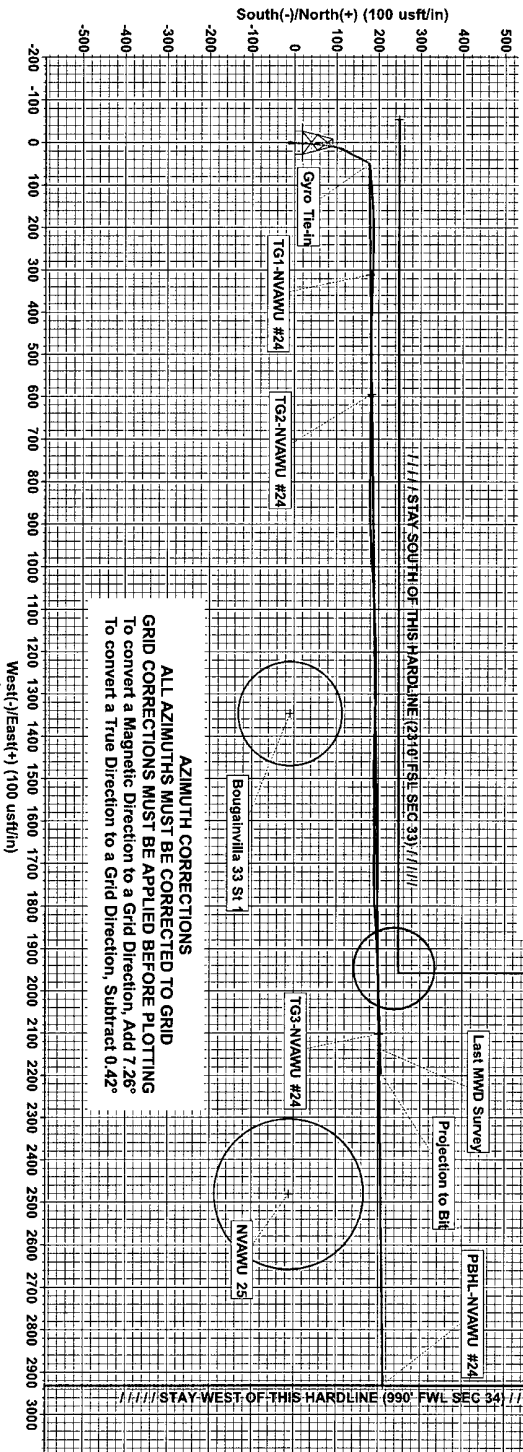
Sec	MD	Inc	Azi	TVD	+N/S	+E/W	Dieg	TTrace	Vssect	Target
1	8575.00	1.45	66.61	8570.18	177.05	50.58	0.00	0.00	63.24	
2	8583.00	1.45	66.61	8578.18	177.14	50.77	0.00	0.00	63.43	
3	8588.00	3.00	89.30	8584.17	177.17	50.99	29.23	41.28	63.66	
4	8592.00	3.00	89.30	8587.17	177.17	51.15	0.00	0.00	63.81	
5	8596.99	89.99	89.30	8610.00	180.02	285.90	24.37	0.00	298.15	TG1-NVAWU #24
6	85973.71	89.99	89.30	8610.00	180.32	310.61	0.00	0.00	322.83	TG1-NVAWU #24
7	8594.28	90.41	89.30	8609.96	180.45	321.18	4.00	-1.01	333.38	TG2-NVAWU #24
8	8593.37	90.41	89.30	8609.96	183.80	594.25	0.00	0.00	603.96	TG2-NVAWU #24
9	85928.10	90.16	89.30	8607.91	183.91	602.98	4.00	1.28	614.69	TG2-NVAWU #24
10	85928.10	90.16	89.30	8607.91	183.91	602.98	4.00	1.28	614.69	TG2-NVAWU #24
11	140779.28	90.20	89.30	8787.88	202.10	2101.97	0.00	0.00	2111.08	TG3-NVAWU #24
12	15933.24	90.20	89.30	8785.00	212.15	2923.81	0.00	-179.58	2123.00	TG3-NVAWU #24

WELL DETAILS: NVAWU #24-ENE

+N/S	+E/W	Ground Level:	4058.00
0.00	0.00	Northing	651822.00
		Easting	778069.00
		Latitude	32°47'22.276"N
		Longitude	103°33'46.762"W

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/S	+E/W	Northing	Easting	Latitude	Longitude	Shape
Bougainville 33 St. 1	0.00	-9.00	1346.00	651813.00	779415.00	32°47'22.090"N	103°33'30.996"W	Circle (Radius: 123.00)
East HL-NVAWU #24	0.00	-712.00	2931.00	651110.00	778014.00	32°47'15.019"N	103°33'47.385"W	Polygon
North HL-NVAWU #24	0.00	248.00	-55.00	652070.00	780545.00	32°47'24.734"N	103°33'17.713"W	Circle (Radius: 177.00)
NVAWU 25	0.00	-11.00	2480.00	651811.00	780998.81	32°47'24.163"N	103°33'12.425"W	Point
TG1-NVAWU #24	8785.00	212.15	2929.81	652034.15	780170.97	32°47'24.124"N	103°33'22.123"W	Point
TG2-NVAWU #24	8788.00	202.10	2101.97	652024.10	778563.25	32°47'24.052"N	103°33'39.785"W	Point
TG3-NVAWU #24	8808.00	180.32	594.25	652005.80	778379.61	32°47'24.038"N	103°33'43.108"W	Point



PROJECT DETAILS: Lea County, NM (NAD83 NME)

Geodetic System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone: New Mexico Eastern Zone
System Datum: Mean Sea Level

Plan: Plan #6 - 4-3/4" Hole (NVAWU #24-ENE/OH)
Created By: Julio Pina
Checked: _____
Reviewed: _____
Date: 09-Jan-11
Date: _____
Date: _____