

RANGER DIRECTIONAL SERVICES

Attn: Heather Brehn

Re: Operator: RKI Exploration
Lease: North Brushy Draw Federal 35-611
Lease/Gas ID No.: 35-6H
Field: Wolfcamp
Legals: Sec 35-25S-29E
County: Eddy Co, New Mexico
API: 30-015-42293

Name Of Surveyor	Drainhole Number	Surveyed Depths	Dates Performed	Survey Type
Corey Paul	Original	9715 to 15027	08/09/14 to 08/23/15	MWD

A certified plat on which the bottom hole location is oriented both to the surface location and to the lease lines (or unit lines in case of pooling) is attached to the survey report. If any other information is required, please contact the undersigned at the letterhead address and phone number.

Myles Kristof
Well Planning Department

9724 NW 6th Street • OKLAHOMA CITY, OK 73127
(405) 418-2825 OFFICE

NM OIL CONSERVATION
ARTESIA DISTRICT

FEB 22 2016

RECEIVED



Job Number: SVMQ-150558
Company: RKI Exploration & Production LLC
Lease/Well: North Bushy Draw Federal 35 6H
Location: Eddy County, NM
Rig Name: Silver Oak #14
RKB: 18'
G.L. or M.S.L.: GL

State/Country: New Mexico/USA
Declination: 7.26°
Grid: East To Grid North
File name: W:\WINSER-1\2015SU-1\RKIEP-1\MQ\NORTHB-1\356H.SVY
Date/Time: 20-Jul-15 / 16:16
Curve Name: Surface - 600' M.D. (SRG)

MS Survey

WINSERVE SURVEY CALCULATIONS
Minimum Curvature Method
Vertical Section Plane .00
Vertical Section Referenced to Wellhead
Rectangular Coordinates Referenced to Wellhead

We hereby certify that our survey data from
Surface MD to 600' MD is, to the best of
our knowledge a true and accurate account of
the well bore.
Curtis Ringman 7/20/15
MS Energy Services Date

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	CLOSURE Distance FT	Direction Deg	Dogleg Severity Deg/100
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
100.00	.11	299.49	100.00	.05	-.08	.05	.10	299.50	.11
200.00	.02	5.96	200.00	.11	-.17	.11	.20	304.09	.10
300.00	.20	357.02	300.00	.30	-.17	.30	.35	330.38	.18
400.00	.20	350.89	400.00	.65	-.21	.65	.68	342.16	.02
500.00	.49	349.36	500.00	1.24	-.32	1.24	1.28	345.74	.29
Last Survey Depth Recorded									
600.00	1.02	358.56	599.99	2.55	-.42	2.55	2.59	350.72	.54



I **Larry Wright**, certify that I am employed by **Scout Downhole Inc. (SDI)**. That I did on the day(s) of **7/22/15** thru **8/09/15** conduct or supervise the taking of a **MWD Survey** from a depth of **600'** to a depth of **9748'**; that the data is true, correct, complete and within the limitations of the tool as set forth by **Scout Downhole Inc. (SDI)**.; that I am authorized and qualified to make this report; that this survey was conducted at the request of **RKI Exploration & Production** for the **North Brushy Draw Fed 35-6H** API No. **30-015-42293** in **Eddy County, New Mexico**; and that I have reviewed this report and find that it conforms to the principles and procedures as set forth by **Scout Downhole Inc. (SDI)**.

Larry Wright Digitally signed
by Larry Wright
Date: 2015.08.19
15:31:18 -05'00'



SURVEY CALCULATION PROGRAM

MINIMUM CURVATURE CALCULATIONS(SPE-3362)

v1.00.02

TARGET DETAILS

OPERATOR:		RKI Exploration and Production				Supervisors:			TARGET N-S		Directional		
WELL:		North Brushy Draw Fed 35-6H				Gene Gilstrap			TARGET E-W				
LOCATION:		Eddy County, New Mexico				Joe Johnson/Jeff Jendrzey			TARGET RADIUS				
JOB NUMBER:		MWD-010-15		Rig:	Silver Oak 14	Scott Goodblanket			TARGET DISPLACEMENT				
COMMENTS:						Ian Robinson			TARGET CLOSURE				
API - 30-015-42293 AFE - 155340 Tie In using last Gyro survey @ 600'.Intermediate 12.25" section ends at 7403' MD. 8.75" section surveys start at #72.							MAG DEC.(-/+)	7.326	TARGET TVD		Horizontal	9748.00	
							GRID CORR.(-/+)	-0.20	DIP AZ		0.00		
							TOTAL CORR.(-/+)	7.12	DIP DEG UP+/DN-		0.00		
DATE:			TIME:			TRUE TO GRID			▼		TARGET INCLINATION		0.00
TARGET DIP	0.00	ANGLE	0.00	LINE	9748.00	DIRECTION	0.00	TARGET TRACKING					

SVY										TO CENTER		CLOSURE	CLOSURE	BUILD	WALK
TEMP	NUM	MD	INC	AZM	TVD	SECT	N-S	E-W	DLS/100	HIGH(+) LOW(-)	RIGHT(+) LEFT(-)	DIR (DEG AZ)	DISTANCE (FEET)	RATE/ %/100'	RATE/ %/100'
0	Tie In	600	1.02	358.56	599.99	2.55	2.55	-0.42	0.00	9148.0	0.4	350.65	2.58		
95	1	713	1.20	326.20	712.97	4.54	4.54	-1.10	0.57	9035.0	1.1	346.33	4.67	0.16	-0.55
102	2	804	1.40	329.00	803.95	6.28	6.28	-2.21	0.23	8944.1	2.2	340.65	6.66	0.22	0.07
102	3	896	1.30	343.20	895.92	8.25	8.25	-3.09	0.38	8852.1	3.1	339.48	8.80	-0.11	0.36
109	4	988	1.30	356.80	987.90	10.29	10.29	-3.45	0.33	8760.1	3.4	341.48	10.85	0.00	0.33
117	5	1079	1.30	2.50	1078.87	12.35	12.35	-3.46	0.14	8669.1	3.5	344.35	12.82	0.00	-0.14
117	6	1170	1.30	10.10	1169.85	14.40	14.40	-3.23	0.19	8578.1	3.2	347.34	14.76	0.00	0.00
124	7	1262	1.00	4.00	1261.83	16.22	16.22	-2.99	0.35	8486.2	3.0	349.54	16.50	-0.33	0.00
124	8	1354	0.50	329.10	1353.82	17.37	17.37	-3.14	0.71	8394.2	3.1	349.74	17.65	-0.54	0.00
124	9	1445	0.60	230.90	1444.82	17.41	17.41	-3.72	0.92	8303.2	3.7	347.95	17.80	0.11	0.00
131	10	1536	0.70	216.50	1535.82	16.66	16.66	-4.42	0.21	8212.2	4.4	345.15	17.24	0.11	0.00
138	11	1628	0.60	218.20	1627.81	15.83	15.83	-5.05	0.11	8120.2	5.1	342.31	16.62	-0.11	0.00
138	12	1720	0.40	203.30	1719.81	15.16	15.16	-5.48	0.26	8028.2	5.5	340.14	16.12	-0.22	0.00
145	13	1815	0.30	173.60	1814.80	14.61	14.61	-5.58	0.21	7933.2	5.6	339.10	15.64	-0.11	0.00
145	14	1910	0.20	154.40	1909.80	14.21	14.21	-5.48	0.14	7838.2	5.5	338.91	15.23	-0.11	0.00
145	15	2005	0.30	151.60	2004.80	13.84	13.84	-5.29	0.11	7743.2	5.3	339.09	14.82	0.11	0.00
153	16	2100	0.30	150.90	2099.80	13.41	13.41	-5.05	0.00	7648.2	5.1	339.36	14.33	0.00	0.00
145	17	2195	0.30	153.90	2194.80	12.97	12.97	-4.82	0.02	7553.2	4.8	339.61	13.83	0.00	0.00
145	18	2290	0.20	189.40	2289.80	12.58	12.58	-4.74	0.19	7458.2	4.7	339.36	13.44	-0.11	0.00
145	19	2385	0.20	222.80	2384.80	12.29	12.29	-4.88	0.12	7363.2	4.9	338.36	13.23	0.00	0.00
145	20	2480	0.40	126.50	2479.80	11.97	11.97	-4.72	0.49	7268.2	4.7	338.47	12.87	0.21	0.00
145	21	2575	0.80	121.90	2574.79	11.43	11.43	-3.89	0.42	7173.2	3.9	341.18	12.07	0.42	0.00
145	22	2669	0.50	102.90	2668.79	10.99	10.99	-2.94	0.39	7079.2	2.9	345.04	11.37	-0.32	0.00
131	23	2764	1.10	91.30	2763.78	10.88	10.88	-1.62	0.65	6984.2	1.6	351.52	11.00	0.63	0.00
138	24	2859	1.40	95.20	2858.75	10.75	10.75	0.45	0.33	6889.2	-0.4	2.38	10.76	0.32	0.00
138	25	2954	1.90	103.30	2953.71	10.28	10.28	3.13	0.58	6794.3	-3.1	16.95	10.75	0.53	0.00
138	26	3048	1.70	103.40	3047.67	9.60	9.60	6.01	0.21	6700.3	-6.0	32.04	11.33	-0.21	0.00
138	27	3143	1.20	105.90	3142.64	9.00	9.00	8.34	0.53	6605.4	-8.3	42.80	12.27	-0.53	0.00
145	28	3238	0.70	107.10	3237.62	8.56	8.56	9.85	0.53	6510.4	-9.8	49.00	13.05	-0.53	0.00
138	29	3333	0.50	90.30	3332.62	8.39	8.39	10.82	0.28	6415.4	-10.8	52.21	13.69	-0.21	0.00
145	30	3428	0.50	74.80	3427.62	8.49	8.49	11.63	0.14	6320.4	-11.6	53.86	14.40	0.00	0.00
145	31	3522	0.40	61.30	3521.61	8.76	8.76	12.31	0.15	6226.4	-12.3	54.58	15.11	-0.11	0.00
95	32	3617	0.10	47.40	3616.61	8.97	8.97	12.67	0.32	6131.4	-12.7	54.69	15.52	-0.32	0.00
109	33	3712	0.30	249.20	3711.61	8.94	8.94	12.49	0.42	6036.4	-12.5	54.41	15.36	0.21	0.00
117	34	3807	0.30	207.20	3806.61	8.63	8.63	12.15	0.23	5941.4	-12.1	54.61	14.90	0.00	0.00
124	35	3901	0.20	205.60	3900.61	8.26	8.26	11.96	0.11	5847.4	-12.0	55.37	14.54	-0.11	0.00
131	36	3996	0.30	161.30	3995.61	7.88	7.88	11.97	0.22	5752.4	-12.0	56.65	14.33	0.11	0.00
131	37	4091	0.20	79.00	4090.61	7.67	7.67	12.22	0.36	5657.4	-12.2	57.86	14.43	-0.11	0.00
131	38	4186	0.10	341.60	4185.61	7.78	7.78	12.35	0.25	5562.4	-12.4	57.78	14.60	-0.11	0.00
131	39	4280	0.10	220.30	4279.61	7.80	7.80	12.27	0.19	5468.4	-12.3	57.56	14.54	0.00	0.00
131	40	4375	0.10	143.70	4374.61	7.67	7.67	12.27	0.13	5373.4	-12.3	57.99	14.47	0.00	0.00
138	41	4470	0.10	110.30	4469.61	7.57	7.57	12.40	0.06	5278.4	-12.4	58.57	14.53	0.00	0.00



SURVEY CALCULATION PROGRAM

MINIMUM CURVATURE CALCULATIONS(SPE-3362)

v1.00.02

TARGET DETAILS

OPERATOR:	RKI Exploration and Production			Supervisors:	Gene Gilstrap			TARGET N-S	Directional	
WELL:	North Brushy Draw Fed 35-6H				Joe Johnson/Jeff Jendrzey			TARGET E-W		
LOCATION:	Eddy County, New Mexico				Scott Goodblanket			TARGET RADIUS		
JOB NUMBER:	MWD-010-15	Rig:	Silver Oak 14					TARGET DISPLACEMENT		
COMMENTS:				Ian Robinson				TARGET CLOSURE		
API - 30-015-42293 AFE - 155340 Tie In					MAG DEC.(-/+)	7.326		TARGET TVD	Horizontal	9748.00
using last Gyro survey @ 600'. Intermediate 12.25" section ends at 7403' MD. 8.75" section surveys start at #72.					GRID CORR.(-/+)	-0.20		DIP AZ		0.00
					TOTAL CORR.(-/+)	7.12		DIP DEG UP+/DN-		0.00
DATE:		TIME:		TRUE TO GRID				TARGET INCLINATION		0.00
TARGET DIP	0.00	ANGLE	0.00	LINE	9748.00	DIRECTION	0.00	TARGET TRACKING		

SVY										TO CENTER		CLOSURE		BUILD	WALK
TEMP	NUM	MD	INC	AZM	TVD	SECT	N-S	E-W	DLS/100	HIGH(+) LOW(-)	RIGHT(+) LEFT(-)	DIR (DEG AZ)	DISTANCE (FEET)	RATE/ %/100'	RATE/ %/100'
138	42	4565	0.10	355.50	4564.61	7.63	7.63	12.47	0.18	5183.4	-12.5	58.54	14.62	0.00	0.00
138	43	4660	0.10	261.30	4659.61	7.70	7.70	12.38	0.15	5088.4	-12.4	58.12	14.58	0.00	0.00
138	44	4754	0.00	170.40	4753.61	7.69	7.69	12.30	0.11	4994.4	-12.3	57.99	14.50	-0.11	0.00
145	45	4849	0.10	284.00	4848.61	7.71	7.71	12.22	0.11	4899.4	-12.2	57.76	14.44	0.11	0.00
145	46	4944	0.10	179.20	4943.61	7.64	7.64	12.14	0.17	4804.4	-12.1	57.80	14.34	0.00	0.00
145	47	5038	0.10	83.60	5037.61	7.57	7.57	12.22	0.16	4710.4	-12.2	58.22	14.37	0.00	0.00
138	48	5133	0.10	15.90	5132.61	7.66	7.66	12.32	0.12	4615.4	-12.3	58.14	14.51	0.00	0.00
131	49	5255	0.10	273.10	5254.61	7.77	7.77	12.25	0.1	4493.4	-12.2	57.62	14.50	0.00	0.00
131	50	5348	0.00	345.00	5347.61	7.77	7.77	12.17	0.1	4400.4	-12.2	57.43	14.44	-0.11	0.00
138	51	5442	0.00	223.50	5441.61	7.77	7.77	12.17	0.0	4306.4	-12.2	57.43	14.44	0.00	0.00
124	52	5537	0.20	203.60	5536.61	7.62	7.62	12.10	0.2	4211.4	-12.1	57.80	14.30	0.21	0.00
131	53	5632	0.30	123.10	5631.61	7.33	7.33	12.24	0.3	4116.4	-12.2	59.08	14.27	0.11	0.00
138	54	5727	0.30	65.80	5726.60	7.30	7.30	12.68	0.3	4021.4	-12.7	60.07	14.63	0.00	0.00
138	55	5820	0.40	2.40	5819.60	7.72	7.72	12.91	0.4	3928.4	-12.9	59.12	15.05	0.11	0.00
138	56	5915	0.50	293.80	5914.60	8.22	8.22	12.55	0.5	3833.4	-12.5	56.77	15.00	0.11	0.00
138	57	6009	0.80	229.70	6008.60	7.96	7.96	11.67	0.8	3739.4	-11.7	55.70	14.13	0.32	0.00
145	58	6103	0.90	156.20	6102.59	6.86	6.86	11.47	1.1	3645.4	-11.5	59.11	13.37	0.11	0.00
145	59	6196	1.20	114.30	6195.57	5.79	5.79	12.65	0.9	3552.4	-12.7	65.40	13.92	0.32	0.00
145	60	6291	1.20	71.50	6290.55	5.70	5.70	14.50	0.9	3457.4	-14.5	68.54	15.58	0.00	0.00
145	61	6387	1.20	22.20	6386.54	6.95	6.95	15.83	1.0	3361.5	-15.8	66.31	17.29	0.00	0.00
153	62	6481	1.10	339.70	6480.52	8.71	8.71	15.89	0.9	3267.5	-15.9	61.29	18.12	-0.11	0.00
153	63	6575	1.10	299.30	6574.50	9.99	9.99	14.79	0.8	3173.5	-14.8	55.96	17.85	0.00	0.00
153	64	6670	1.10	242.30	6669.49	10.02	10.02	13.19	1.1	3078.5	-13.2	52.79	16.56	0.00	0.00
131	65	6766	1.20	188.40	6765.47	8.59	8.59	12.23	1.1	2982.5	-12.2	54.90	14.95	0.10	0.00
138	66	6860	1.30	182.70	6859.45	6.56	6.56	12.03	0.2	2888.6	-12.0	61.42	13.70	0.11	0.00
138	67	6954	1.30	189.90	6953.42	4.44	4.44	11.80	0.2	2794.6	-11.8	69.38	12.61	0.00	0.00
138	68	7050	1.60	217.50	7049.39	2.30	2.30	10.80	0.8	2698.6	-10.8	77.96	11.04	0.31	0.00
145	69	7145	1.80	231.40	7144.35	0.32	0.32	8.82	0.5	2603.6	-8.8	87.92	8.83	0.21	0.00
145	70	7240	1.90	232.80	7239.30	-1.56	-1.56	6.40	0.1	2508.7	6.4	103.71	6.59	0.11	0.00
145	71	7334	1.80	225.80	7333.25	-3.53	-3.53	4.10	0.3	2414.7	4.1	130.73	5.42	-0.11	0.00
124	72	7434	0.70	193.80	7433.23	-5.22	-5.22	2.83	1.3	2314.8	2.8	151.52	5.94	-1.10	0.00
124	73	7530	0.40	231.80	7529.23	-6.00	-6.00	2.43	0.5	2218.8	2.4	157.95	6.47	-0.31	0.00
131	74	7625	0.30	214.20	7624.22	-6.41	-6.41	2.03	0.2	2123.8	2.0	162.43	6.72	-0.11	0.00
131	75	7720	0.40	358.00	7719.22	-6.28	-6.28	1.88	0.7	2028.8	1.9	163.36	6.56	0.11	0.00
131	76	7815	0.50	312.30	7814.22	-5.67	-5.67	1.56	0.4	1933.8	1.6	164.63	5.88	0.11	0.00
131	77	7910	0.50	253.60	7909.22	-5.51	-5.51	0.86	0.5	1838.8	0.9	171.18	5.58	0.00	0.00
138	78	8005	0.40	154.30	8004.22	-5.93	-5.93	0.60	0.7	1743.8	0.6	174.21	5.96	-0.11	0.00
138	79	8100	0.10	338.30	8099.22	-6.15	-6.15	0.71	0.5	1648.8	0.7	173.37	6.19	-0.32	0.00
131	80	8193	0.40	231.10	8192.21	-6.28	-6.28	0.43	0.5	1555.8	0.4	176.06	6.29	0.32	0.00
131	81	8288	1.00	242.80	8287.21	-6.86	-6.86	-0.56	0.6	1460.8	-0.6	184.69	6.89	0.63	0.00
138	82	8383	1.10	289.10	8382.19	-6.95	-6.95	-2.16	0.9	1365.8	-2.2	197.30	7.27	0.11	0.00
138	83	8479	1.40	305.60	8478.17	-5.96	-5.96	-3.99	0.5	1269.8	-4.0	213.78	7.17	0.31	0.00



SURVEY CALCULATION PROGRAM

MINIMUM CURVATURE CALCULATIONS(SPE-3362)

v1.00 02

TARGET DETAILS

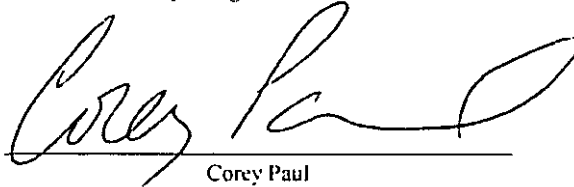
OPERATOR:		RKI Exploration and Production		Supervisors:		TARGET N-S Directional	
WELL:		North Brushy Draw Fed 35-6H		Gene Gilstrap		TARGET E-W	
LOCATION:		Eddy County, New Mexico		Joe Johnson/Jeff Jendrzey		TARGET RADIUS	
JOB NUMBER:		MWD-010-15	Rig:	Silver Oak 14	Scott Goodblanket	TARGET DISPLACEMENT	
COMMENTS:				Ian Robinson		TARGET CLOSURE	
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				GRID CORR.(-/+)		-0.20	DIP AZ
				TOTAL CORR.(-/+)		7.12	DIP DEG UP+/DN-
DATE:		TIME:		TRUE TO GRID		TARGET INCLINATION	
TARGET DIP	0.00	ANGLE	0.00	LINE	9748.00	DIRECTION	0.00

										TO CENTER		CLOSURE		CLOSURE	BUILD	WALK
SVY										DLS/	HIGH(+)	RIGHT(+)	DIR	DISTANCE	RATE/	RATE/
TEMP	NUM	MD	INC	AZM	TVD	SECT	N-S	E-W	100	LOW(-)	LEFT(-)	(DEG AZ)	(FEET)	%/100'	%/100'	
138	84	8573	1.20	311.20	8572.15	-4.64	-4.64	-5.66	0.3	1175.9	-5.7	230.64	7.32	-0.21	0.00	
138	85	8668	1.20	340.40	8667.13	-3.05	-3.05	-6.74	0.6	1080.9	-6.7	245.65	7.40	0.00	0.00	
138	86	8763	0.80	27.70	8762.11	-1.53	-1.53	-6.77	0.9	985.9	-6.8	257.28	6.94	-0.42	0.00	
138	87	8858	0.30	25.00	8857.11	-0.71	-0.71	-6.36	0.5	890.9	-6.4	263.58	6.40	-0.53	0.00	
138	88	8953	0.10	269.40	8952.11	-0.49	-0.49	-6.33	0.4	795.9	-6.3	265.57	6.35	-0.21	0.00	
145	89	9048	0.30	149.00	9047.11	-0.70	-0.70	-6.29	0.4	700.9	-6.3	263.61	6.33	0.21	0.00	
145	90	9143	0.40	205.90	9142.11	-1.22	-1.22	-6.30	0.4	605.9	-6.3	259.09	6.42	0.11	0.00	
145	91	9238	0.30	233.50	9237.10	-1.66	-1.66	-6.65	0.2	510.9	-6.6	255.97	6.85	-0.11	0.00	
145	92	9333	0.30	253.00	9332.10	-1.88	-1.88	-7.09	0.1	415.9	-7.1	255.12	7.33	0.00	0.00	
145	93	9427	0.30	216.50	9426.10	-2.15	-2.15	-7.47	0.2	321.9	-7.5	253.92	7.77	0.00	0.00	
145	94	9522	0.40	226.10	9521.10	-2.58	-2.58	-7.86	0.1	226.9	-7.9	251.80	8.27	0.11	0.00	
138	95	9619	0.30	224.90	9618.10	-3.00	-3.00	-8.28	0.1	129.9	-8.3	250.10	8.80	-0.10	0.00	
138	96	9683	0.30	215.60	9682.10	-3.25	-3.25	-8.49	0.1	65.9	-8.5	249.05	9.10	0.00	0.00	
	TD	9748	0.30	215.60	9747.10	-3.53	-3.53	-8.69	0.0	0.9	-8.7	247.91	9.38	0.00	0.00	

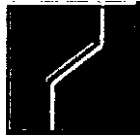
RANGER DIRECTIONAL SERVICES

State of: Loving
County of: New Mexico

I, Corey Paul, an authorized employee of **Ranger Directional Services** have verified the MWD Survey: 08/08/15 through 08/19/15, from a measured depth of 9715 to the depth of 15027 feet. The data is true, correct, and complete and within the limitations of the tool set forth by **Ranger Directional Services**. This survey was conducted at the request of RKI Exploration for the North Brushy Draw Federal 35-6H API No. 30-015-42293 well drilled in Eddy County, State of New Mexico. This report conforms to the principles and procedures as set forth by **Ranger Directional Services**.



Corey Paul
MWD Coordinator
Ranger Directional Services

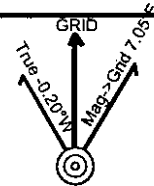


Job Number: RDS 15-025
Company: RKI Energy
Lease/Well: NBD Federal 35-6H
Location:
Rig Name: Silver Oak 14
State/Country: New Mexico/ Eddy
Country: USA
API Number: 30-015-42293

Elev. GL: 0.00 ft RKB: 0.00 ft
System: US State Plane 1983
Group: New Mexico Eastern Zone
Datum: GRS80
Mag. Decl.: 7.25° (C:\HawkEye\IGRF2005.MIF)
Grid Conv.: 0.20162 E
Date: Saturday, August 22, 2015



Calculated by HawkEye Software
Minimum Curvature Method
Vertical Section Plane 178.81°
Northing (US ft): 397806.70 Easting (US ft): 658851.20
Latitude: 32°05'35.0943" N Longitude: -103°57'13.8947" W
Direction Reference: Grid North



Measured Depth (Ft)	INC Deg	AZM Deg	TVD (Ft)	NS (Ft)	EW (Ft)	VS (Ft)	DLS °/100 Ft	Easting (US ft)	Northing (US ft)	UD/NS From-Plan (Ft)	LR/EW From-Plan (Ft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	658851.20	397806.70	0.00 (N)	0.00 (E)
100.00	0.10	299.50	100.00	0.04	-0.08	-0.04	0.10	658851.12	397806.75	0.04 (N)	-0.08 (W)
200.00	0.00	0.00	200.00	0.09	-0.15	-0.09	0.10	658851.05	397806.79	0.09 (N)	-0.15 (W)
300.00	0.20	357.00	300.00	0.26	-0.16	-0.26	0.20	658851.04	397806.96	0.26 (N)	-0.16 (W)
400.00	0.20	350.90	400.00	0.61	-0.20	-0.61	0.02	658851.00	397807.31	0.61 (N)	-0.20 (W)
500.00	0.50	349.40	500.00	1.21	-0.31	-1.21	0.30	658850.89	397807.91	1.21 (N)	-0.31 (W)
600.00	1.00	358.60	599.99	2.51	-0.41	-2.52	0.51	658850.79	397809.21	2.51 (N)	-0.41 (W)
713.00	1.20	326.20	712.97	4.48	-1.09	-4.50	0.57	658850.11	397811.18	4.48 (N)	-1.09 (W)
804.00	1.40	329.00	803.94	6.22	-2.19	-6.27	0.23	658849.01	397812.93	6.22 (N)	-2.19 (W)
896.00	1.30	343.20	895.92	8.19	-3.07	-8.25	0.38	658848.13	397814.89	8.18 (N)	-3.07 (W)
988.00	1.30	356.80	987.90	10.23	-3.43	-10.30	0.33	658847.77	397816.93	10.23 (N)	-3.43 (W)
1079.00	1.30	2.50	1078.87	12.29	-3.45	-12.36	0.14	658847.75	397818.99	12.29 (N)	-3.45 (W)
1170.00	1.30	10.10	1169.85	14.34	-3.22	-14.40	0.19	658847.98	397821.04	14.34 (N)	-3.22 (W)
1262.00	1.00	4.00	1261.83	16.16	-2.98	-16.22	0.35	658848.22	397822.87	16.16 (N)	-2.98 (W)
1354.00	0.50	329.10	1353.82	17.31	-3.13	-17.37	0.71	658848.07	397824.01	17.31 (N)	-3.13 (W)
1445.00	0.60	230.90	1444.82	17.35	-3.70	-17.42	0.92	658847.50	397824.05	17.35 (N)	-3.70 (W)
1536.00	0.70	216.50	1535.81	16.60	-4.40	-16.69	0.21	658846.80	397823.31	16.60 (N)	-4.40 (W)
1628.00	0.60	218.20	1627.81	15.77	-5.04	-15.87	0.11	658846.16	397822.48	15.77 (N)	-5.04 (W)
1720.00	0.40	203.30	1719.81	15.10	-5.46	-15.21	0.26	658845.74	397821.80	15.10 (N)	-5.46 (W)
1815.00	0.30	173.60	1814.80	14.55	-5.56	-14.66	0.21	658845.63	397821.25	14.55 (N)	-5.56 (W)
1910.00	0.20	154.40	1909.80	14.15	-5.47	-14.26	0.14	658845.73	397820.86	14.15 (N)	-5.47 (W)
2005.00	0.30	151.60	2004.80	13.78	-5.28	-13.89	0.11	658845.92	397820.49	13.78 (N)	-5.28 (W)
2100.00	0.30	150.90	2099.80	13.35	-5.04	-13.45	0.00	658846.16	397820.05	13.34 (N)	-5.04 (W)
2195.00	0.30	153.90	2194.80	12.91	-4.81	-13.00	0.02	658846.39	397819.61	12.90 (N)	-4.81 (W)
2290.00	0.20	189.40	2289.80	12.52	-4.72	-12.61	0.19	658846.48	397819.22	12.52 (N)	-4.72 (W)
2385.00	0.20	222.80	2384.80	12.23	-4.86	-12.33	0.12	658846.34	397818.94	12.23 (N)	-4.86 (W)
2480.00	0.40	126.50	2479.80	11.91	-4.71	-12.01	0.49	658846.49	397818.62	11.91 (N)	-4.71 (W)
2575.00	0.80	121.90	2574.79	11.37	-3.88	-11.44	0.42	658847.32	397818.07	11.36 (N)	-3.88 (W)
2669.00	0.50	102.90	2668.79	10.93	-2.92	-10.99	0.39	658848.28	397817.63	10.93 (N)	-2.92 (W)
2764.00	1.10	91.30	2763.78	10.81	-1.61	-10.85	0.65	658849.59	397817.52	10.81 (N)	-1.61 (W)
2859.00	1.40	95.20	2858.75	10.69	0.46	-10.68	0.33	658851.66	397817.39	10.69 (N)	0.46 (E)
2954.00	1.90	103.30	2953.71	10.22	3.15	-10.15	0.58	658854.35	397816.93	10.22 (N)	3.15 (E)
3048.00	1.70	103.40	3047.67	9.54	6.02	-9.41	0.21	658857.22	397816.24	9.54 (N)	6.02 (E)
3143.00	1.20	105.90	3142.64	8.94	8.35	-8.77	0.53	658859.55	397815.65	8.94 (N)	8.35 (E)
3238.00	0.70	107.10	3237.62	8.50	9.86	-8.29	0.53	658861.06	397815.20	8.50 (N)	9.86 (E)
3333.00	0.50	90.30	3332.62	8.32	10.83	-8.10	0.28	658862.03	397815.03	8.32 (N)	10.83 (E)
3428.00	0.50	74.80	3427.61	8.43	11.64	-8.19	0.14	658862.84	397815.14	8.43 (N)	11.64 (E)
3522.00	0.40	61.30	3521.61	8.70	12.33	-8.44	0.15	658863.53	397815.40	8.69 (N)	12.33 (E)
3617.00	0.10	47.40	3616.61	8.91	12.68	-8.65	0.32	658863.88	397815.62	8.91 (N)	12.68 (E)
3712.00	0.30	249.20	3711.61	8.88	12.51	-8.62	0.42	658863.71	397815.58	8.88 (N)	12.51 (E)
3807.00	0.30	207.20	3806.61	8.57	12.16	-8.32	0.23	658863.36	397815.27	8.57 (N)	12.16 (E)
3901.00	0.20	205.60	3900.61	8.20	11.98	-7.95	0.11	658863.18	397814.91	8.20 (N)	11.98 (E)
3996.00	0.30	161.30	3995.61	7.82	11.99	-7.57	0.22	658863.19	397814.52	7.81 (N)	11.99 (E)
4091.00	0.20	79.00	4090.61	7.61	12.23	-7.36	0.36	658863.43	397814.32	7.61 (N)	12.23 (E)

Measured Depth (Ft)	INC Deg	AZM Deg	TVD (Ft)	NS (Ft)	EW (Ft)	VS (Ft)	DLS */100 Ft	Easting (US ft)	Northing (US ft)	UD/NS From-Plan (Ft)	LR/EW From-Plan (Ft)
4186.00	0.10	341.60	4185.61	7.72	12.37	-7.47	0.25	658863.57	397814.43	7.72 (N)	12.37 (E)
4280.00	0.10	220.30	4279.61	7.74	12.29	-7.48	0.19	658863.49	397814.44	7.74 (N)	12.29 (E)
4375.00	0.10	143.70	4374.61	7.61	12.28	-7.35	0.13	658863.48	397814.31	7.61 (N)	12.28 (E)
4470.00	0.10	110.30	4469.61	7.51	12.41	-7.25	0.06	658863.61	397814.22	7.51 (N)	12.41 (E)
4565.00	0.10	355.50	4564.61	7.57	12.48	-7.31	0.18	658863.68	397814.27	7.56 (N)	12.48 (E)
4660.00	0.10	261.30	4659.61	7.64	12.39	-7.38	0.15	658863.59	397814.34	7.63 (N)	12.39 (E)
4754.00	0.00	0.00	4753.61	7.63	12.31	-7.37	0.11	658863.51	397814.33	7.62 (N)	12.31 (E)
4849.00	0.10	284.00	4848.61	7.65	12.23	-7.39	0.11	658863.43	397814.35	7.64 (N)	12.23 (E)
4944.00	0.10	179.20	4943.61	7.58	12.15	-7.33	0.17	658863.35	397814.29	7.58 (N)	12.15 (E)
5038.00	0.10	83.60	5037.61	7.51	12.23	-7.25	0.16	658863.43	397814.21	7.51 (N)	12.23 (E)
5133.00	0.10	15.90	5132.61	7.60	12.34	-7.34	0.12	658863.54	397814.30	7.59 (N)	12.34 (E)
5255.00	0.10	273.10	5254.61	7.71	12.26	-7.45	0.13	658863.46	397814.41	7.70 (N)	12.26 (E)
5348.00	0.00	0.00	5347.61	7.71	12.18	-7.46	0.11	658863.38	397814.42	7.71 (N)	12.18 (E)
5442.00	0.00	0.00	5441.61	7.71	12.18	-7.46	0.00	658863.38	397814.42	7.71 (N)	12.18 (E)
5537.00	0.20	203.60	5536.60	7.56	12.11	-7.31	0.21	658863.31	397814.26	7.56 (N)	12.11 (E)
5632.00	0.30	123.10	5631.60	7.27	12.26	-7.02	0.35	658863.46	397813.98	7.27 (N)	12.26 (E)
5727.00	0.30	65.80	5726.60	7.24	12.69	-6.97	0.30	658863.89	397813.94	7.23 (N)	12.69 (E)
5820.00	0.40	2.40	5819.60	7.66	12.93	-7.39	0.41	658864.13	397814.37	7.66 (N)	12.93 (E)
5915.00	0.50	293.80	5914.60	8.16	12.56	-7.90	0.54	658863.76	397814.87	8.16 (N)	12.56 (E)
6009.00	0.80	229.70	6008.59	7.90	11.69	-7.66	0.78	658862.89	397814.61	7.90 (N)	11.69 (E)
6103.00	0.90	156.20	6102.59	6.80	11.48	-6.56	1.09	658862.68	397813.51	6.80 (N)	11.48 (E)
6196.00	1.20	114.30	6195.57	5.73	12.67	-5.47	0.86	658863.87	397812.44	5.73 (N)	12.67 (E)
6291.00	1.20	71.50	6290.55	5.64	14.52	-5.34	0.92	658865.72	397812.34	5.63 (N)	14.52 (E)
6387.00	1.20	22.20	6386.53	6.89	15.85	-6.56	1.04	658867.05	397813.59	6.88 (N)	15.85 (E)
6481.00	1.10	339.70	6480.52	8.65	15.91	-8.31	0.89	658867.11	397815.35	8.64 (N)	15.91 (E)
6575.00	1.10	299.30	6574.50	9.93	14.81	-9.62	0.81	658866.01	397816.64	9.93 (N)	14.81 (E)
6670.00	1.10	242.30	6669.49	9.96	13.21	-9.68	1.10	658864.40	397816.66	9.95 (N)	13.21 (E)
6766.00	1.20	188.40	6765.47	8.53	12.24	-8.28	1.09	658863.44	397815.24	8.53 (N)	12.24 (E)
6860.00	1.30	182.70	6859.45	6.50	12.05	-6.24	0.17	658863.25	397813.20	6.49 (N)	12.05 (E)
6954.00	1.30	189.90	6953.42	4.38	11.81	-4.13	0.17	658863.01	397811.08	4.37 (N)	11.81 (E)
7050.00	1.60	217.50	7049.39	2.24	10.81	-2.02	0.78	658862.01	397808.95	2.24 (N)	10.81 (E)
7145.00	1.80	231.40	7144.35	0.26	8.84	-0.08	0.48	658860.04	397806.97	0.25 (N)	8.84 (E)
7240.00	1.90	232.80	7239.30	-1.62	6.42	1.76	0.12	658857.62	397805.08	-1.63 (S)	6.42 (E)
7334.00	1.80	225.80	7333.25	-3.59	4.12	3.68	0.26	658855.32	397803.11	-3.60 (S)	4.12 (E)
7434.00	0.70	193.80	7433.23	-5.28	2.85	5.34	1.26	658854.05	397801.42	-5.29 (S)	2.85 (E)
7530.00	0.40	231.80	7529.22	-6.06	2.44	6.11	0.48	658853.64	397800.65	-6.07 (S)	2.44 (E)
7625.00	0.30	214.20	7624.22	-6.47	2.04	6.51	0.15	658853.24	397800.24	-6.48 (S)	2.04 (E)
7720.00	0.40	358.00	7719.22	-6.34	1.89	6.38	0.70	658853.09	397800.36	-6.35 (S)	1.89 (E)
7815.00	0.50	312.30	7814.22	-5.73	1.57	5.77	0.38	658852.77	397800.97	-5.74 (S)	1.57 (E)
7910.00	0.50	253.60	7909.22	-5.57	0.87	5.59	0.52	658852.07	397801.13	-5.58 (S)	0.87 (E)
8005.00	0.40	154.30	8004.21	-5.99	0.62	6.00	0.73	658851.82	397800.72	-5.99 (S)	0.62 (E)
8100.00	0.10	338.30	8099.21	-6.21	0.73	6.22	0.53	658851.93	397800.50	-6.22 (S)	0.73 (E)
8193.00	0.40	231.10	8192.21	-6.34	0.45	6.35	0.47	658851.65	397800.37	-6.34 (S)	0.45 (E)
8288.00	1.00	242.80	8287.21	-6.92	-0.55	6.91	0.65	658850.65	397799.78	-6.93 (S)	-0.55 (W)
8383.00	1.10	289.10	8382.19	-7.01	-2.15	6.96	0.87	658849.05	397799.70	-7.01 (S)	-2.15 (W)
8479.00	1.40	305.60	8478.17	-6.02	-3.97	5.94	0.49	658847.23	397800.68	-6.03 (S)	-3.97 (W)
8573.00	1.20	311.20	8572.14	-4.70	-5.65	4.59	0.25	658845.55	397802.00	-4.71 (S)	-5.65 (W)
8668.00	1.20	340.40	8667.12	-3.11	-6.73	2.97	0.64	658844.47	397803.59	-3.12 (S)	-6.73 (W)
8763.00	0.80	27.70	8762.11	-1.59	-6.75	1.45	0.93	658844.44	397805.12	-1.59 (S)	-6.75 (W)
8858.00	0.30	25.00	8857.11	-0.78	-6.34	0.64	0.53	658844.86	397805.93	-0.78 (S)	-6.34 (W)
8953.00	0.10	269.40	8952.11	-0.55	-6.32	0.42	0.37	658844.88	397806.15	-0.56 (S)	-6.32 (W)
9048.00	0.30	149.00	9047.11	-0.76	-6.27	0.63	0.38	658844.93	397805.94	-0.77 (S)	-6.27 (W)
9143.00	0.40	205.90	9142.10	-1.28	-6.29	1.15	0.36	658844.91	397805.43	-1.28 (S)	-6.29 (W)
9238.00	0.30	233.50	9237.10	-1.72	-6.64	1.58	0.20	658844.56	397804.98	-1.73 (S)	-6.64 (W)
9333.00	0.30	253.00	9332.10	-1.94	-7.07	1.80	0.11	658844.13	397804.76	-1.95 (S)	-7.07 (W)
9427.00	0.30	216.50	9426.10	-2.21	-7.46	2.06	0.20	658843.74	397804.49	-2.22 (S)	-7.46 (W)

Measured Depth (Ft)	INC Deg	AZM Deg	TVD (Ft)	NS (Ft)	EW (Ft)	VS (Ft)	DLS %/100 Ft	Easting (US ft)	Northing (US ft)	UD/NS From-Plan (Ft)	LR/EW From-Plan (Ft)
9522.00	0.40	226.10	9521.10	-2.64	-7.84	2.48	0.12	658843.36	397804.06	-2.65 (S)	-7.84 (W)
9619.00	0.30	224.90	9618.10	-3.06	-8.27	2.88	0.10	658842.93	397803.65	-3.07 (S)	-8.27 (W)
9683.00	0.30	215.60	9682.10	-3.31	-8.48	3.14	0.08	658842.72	397803.39	-3.32 (S)	-8.48 (W)
9715.00	0.20	156.30	9714.10	-3.43	-8.51	3.25	0.82	658842.69	397803.27	-3.44 (S)	-8.51 (W)
9747.00	1.20	183.30	9746.09	-3.82	-8.50	3.64	3.21	658842.70	397802.89	-3.83 (S)	-8.50 (W)
9779.00	4.10	181.20	9778.06	-5.30	-8.55	5.12	9.07	658842.65	397801.41	5.50 (U)	8.43 (R)
9811.00	7.70	180.10	9809.88	-8.58	-8.58	8.40	11.26	658842.62	397798.12	8.69 (U)	8.56 (R)
9843.00	11.30	179.40	9841.44	-13.86	-8.55	13.68	11.26	658842.65	397792.84	13.66 (U)	8.76 (R)
9874.00	14.90	179.70	9871.62	-20.89	-8.49	20.71	11.61	658842.71	397785.82	19.37 (U)	9.02 (R)
9906.00	17.70	180.20	9902.34	-29.87	-8.49	29.69	8.76	658842.71	397776.83	25.30 (U)	9.57 (R)
9937.00	20.20	178.30	9931.65	-39.93	-8.35	39.75	8.31	658842.85	397766.77	30.29 (U)	11.43 (R)
9969.00	22.60	175.00	9961.45	-51.58	-7.65	51.41	8.39	658843.55	397755.12	34.59 (U)	14.19 (R)
10001.00	25.10	172.40	9990.71	-64.44	-6.21	64.30	8.47	658844.99	397742.27	38.37 (U)	16.51 (R)
10032.00	27.60	170.40	10018.49	-78.04	-4.15	77.94	8.56	658847.05	397728.67	41.54 (U)	18.27 (R)
10064.00	30.40	169.60	10046.47	-93.31	-1.45	93.26	8.83	658849.75	397713.39	44.78 (U)	19.10 (R)
10096.00	33.30	168.40	10073.65	-109.89	1.78	109.90	9.28	658852.98	397696.82	47.59 (U)	19.99 (R)
10127.00	35.90	168.00	10099.17	-127.12	5.38	127.20	8.42	658856.58	397679.59	50.20 (U)	20.13 (R)
10159.00	38.10	168.10	10124.72	-145.96	9.37	146.12	6.88	658860.57	397660.75	52.48 (U)	19.85 (R)
10190.00	40.40	169.50	10148.73	-165.19	13.17	165.43	7.95	658864.37	397641.51	54.42 (U)	18.88 (R)
10222.00	42.30	170.50	10172.75	-186.01	16.84	186.32	6.29	658868.04	397620.69	55.54 (U)	18.65 (R)
10254.00	44.20	171.30	10196.06	-207.66	20.31	208.04	6.18	658871.51	397599.04	55.72 (U)	18.99 (R)
10285.00	44.70	171.20	10218.19	-229.12	23.61	229.56	1.63	658874.81	397577.59	55.41 (U)	20.05 (R)
10317.00	45.10	171.00	10240.85	-251.43	27.10	251.94	1.33	658878.30	397555.27	55.32 (U)	21.14 (R)
10348.00	46.60	172.00	10262.45	-273.43	30.39	274.00	5.36	658881.59	397533.27	56.08 (U)	21.60 (R)
10380.00	50.10	173.30	10283.71	-297.14	33.44	297.77	11.35	658884.64	397509.56	57.51 (U)	22.27 (R)
10412.00	53.20	173.80	10303.56	-322.08	36.26	322.76	9.76	658887.46	397484.63	58.63 (U)	23.39 (R)
10444.00	55.70	174.40	10322.17	-347.97	38.93	348.71	7.96	658890.13	397458.73	59.42 (U)	24.28 (R)
10475.00	58.20	175.40	10339.07	-373.85	41.24	374.63	8.51	658892.44	397432.85	59.82 (U)	24.91 (R)
10507.00	60.90	176.10	10355.29	-401.36	43.28	402.17	8.65	658894.48	397405.35	59.71 (U)	25.81 (R)
10539.00	63.10	176.20	10370.31	-429.55	45.17	430.39	6.88	658896.37	397377.16	58.94 (U)	26.81 (R)
10570.00	65.10	177.40	10383.85	-457.39	46.73	458.26	7.33	658897.93	397349.32	57.66 (U)	27.26 (R)
10602.00	67.70	178.30	10396.66	-486.69	47.83	487.58	8.52	658899.03	397320.02	55.44 (U)	28.10 (R)
10634.00	69.90	178.20	10408.23	-516.51	48.74	517.41	6.88	658899.94	397290.20	52.55 (U)	29.15 (R)
10649.00	70.50	178.30	10413.31	-530.61	49.17	531.52	4.05	658900.37	397276.09	51.07 (U)	29.48 (R)
10681.00	72.20	177.70	10423.55	-560.91	50.23	561.84	5.60	658901.43	397245.79	46.94 (U)	29.98 (R)
10713.00	74.20	176.80	10432.79	-591.51	51.70	592.46	6.81	658902.90	397215.19	41.83 (U)	29.69 (R)
10744.00	76.50	176.10	10440.63	-621.44	53.56	622.42	7.73	658904.76	397185.26	36.25 (U)	28.52 (R)
10776.00	79.00	176.40	10447.42	-652.65	55.60	653.66	7.87	658906.80	397154.06	30.16 (U)	26.66 (R)
10807.00	81.00	176.70	10452.81	-683.12	57.44	684.16	6.52	658908.64	397123.59	24.41 (U)	24.83 (R)
10839.00	82.50	177.00	10457.40	-714.74	59.18	715.81	4.78	658910.38	397091.97	19.53 (U)	23.15 (R)
10871.00	84.00	176.60	10461.16	-746.47	60.95	747.57	4.85	658912.15	397060.24	15.53 (U)	21.50 (R)
10902.00	85.20	176.30	10464.08	-777.27	62.86	778.41	3.99	658914.06	397029.44	12.42 (U)	19.72 (R)
10934.00	86.30	176.10	10466.45	-809.11	64.98	810.28	3.49	658916.18	396997.60	9.88 (U)	17.73 (R)
10966.00	86.60	176.20	10468.43	-840.98	67.12	842.19	0.99	658918.32	396965.73	7.74 (U)	15.72 (R)
10998.00	87.00	176.00	10470.22	-872.85	69.30	874.10	1.40	658920.50	396933.85	5.79 (U)	13.69 (R)
11029.00	87.50	175.00	10471.70	-903.72	71.72	905.01	3.60	658922.92	396902.98	4.16 (U)	11.41 (R)
11060.00	88.60	175.20	10472.76	-934.59	74.37	935.93	3.61	658925.57	396872.12	2.95 (U)	8.89 (R)
11092.00	89.20	175.70	10473.37	-966.48	76.91	967.87	2.44	658928.11	396840.22	2.18 (U)	6.49 (R)
11155.00	90.40	179.20	10473.59	-1029.41	79.71	1030.84	5.87	658930.91	396777.30	1.67 (U)	3.97 (R)
11219.00	92.10	179.70	10472.20	-1093.39	80.33	1094.82	2.77	658931.53	396713.32	2.76 (U)	3.66 (R)
11282.00	91.30	179.20	10470.33	-1156.36	80.93	1157.79	1.50	658932.13	396650.35	4.33 (U)	3.35 (R)
11377.00	90.20	178.80	10469.08	-1251.33	82.59	1252.78	1.23	658933.79	396555.37	5.13 (U)	2.15 (R)
11472.00	91.20	178.30	10467.92	-1346.29	84.99	1347.77	1.18	658936.19	396460.41	5.84 (U)	0.19 (R)
11568.00	89.90	179.00	10467.00	-1442.26	87.25	1443.76	1.54	658938.45	396364.45	6.31 (U)	-1.61 (L)
11663.00	90.20	178.10	10466.92	-1537.23	89.66	1538.76	1.00	658940.86	396269.48	5.95 (U)	-3.56 (L)
11757.00	89.30	180.00	10467.33	-1631.21	91.22	1632.75	2.24	658942.42	396175.50	5.09 (U)	-4.67 (L)

Measured Depth (Ft)	INC Deg	AZM Deg	TVD (Ft)	NS (Ft)	EW (Ft)	VS (Ft)	DLS °/100 Ft	Easting (US ft)	Northing (US ft)	UD/NS From-Plan (Ft)	LR/EW From-Plan (Ft)
11852.00	89.80	180.20	10468.07	-1726.20	91.05	1727.72	0.57	658942.25	396080.50	3.90 (U)	-4.06 (L)
11947.00	90.50	180.10	10467.83	-1821.20	90.80	1822.70	0.74	658942.00	395985.50	3.70 (U)	-3.36 (L)
12042.00	87.70	180.20	10469.32	-1916.18	90.55	1917.65	2.95	658941.75	395890.52	1.76 (U)	-2.66 (L)
12137.00	86.80	179.70	10473.88	-2011.07	90.64	2012.52	1.08	658941.84	395795.63	-3.25 (D)	-2.29 (L)
12232.00	85.60	178.30	10480.17	-2105.84	92.29	2107.31	1.94	658943.49	395700.86	-10.02 (D)	-3.51 (L)
12326.00	87.80	177.90	10485.58	-2199.63	95.40	2201.14	2.38	658946.60	395607.07	-15.86 (D)	-6.18 (L)
12421.00	88.90	178.30	10488.32	-2294.54	98.55	2296.09	1.23	658949.75	395512.17	-19.03 (D)	-8.86 (L)
12516.00	92.00	181.80	10487.57	-2389.51	98.47	2391.04	4.92	658949.67	395417.20	-18.73 (D)	-8.35 (L)
12611.00	90.00	180.80	10485.91	-2484.46	96.31	2485.93	2.35	658947.51	395322.24	-17.51 (D)	-5.71 (L)
12706.00	89.80	179.80	10486.08	-2579.46	95.81	2580.89	1.07	658947.01	395227.24	-18.13 (D)	-4.76 (L)
12801.00	89.40	178.30	10486.74	-2674.44	97.39	2675.89	1.63	658948.59	395132.26	-19.24 (D)	-5.89 (L)
12895.00	93.10	179.80	10484.69	-2768.39	98.95	2769.85	4.25	658950.15	395038.32	-17.65 (D)	-7.00 (L)
12990.00	92.70	179.70	10479.89	-2863.26	99.36	2864.71	0.43	658950.56	394943.44	-13.28 (D)	-6.96 (L)
13085.00	94.00	182.70	10474.33	-2958.07	97.38	2959.45	3.44	658948.58	394848.64	-8.18 (D)	-4.56 (L)
13180.00	93.20	181.90	10468.37	-3052.80	93.57	3054.09	1.19	658944.77	394753.90	-2.65 (D)	-0.28 (L)
13274.00	92.40	180.50	10463.78	-3146.67	91.61	3147.89	1.71	658942.81	394660.04	1.50 (U)	2.14 (R)
13369.00	91.90	179.20	10460.21	-3241.60	91.86	3242.81	1.47	658943.06	394565.11	4.62 (U)	2.34 (R)
13464.00	92.90	178.80	10456.23	-3336.50	93.51	3337.72	1.13	658944.71	394470.21	8.16 (U)	1.13 (R)
13559.00	90.00	179.00	10453.83	-3431.44	95.34	3432.68	3.06	658946.54	394375.26	10.11 (U)	-0.23 (L)
13654.00	87.60	177.50	10455.82	-3526.37	98.24	3527.65	2.98	658949.43	394280.34	7.68 (U)	-2.67 (L)
13749.00	88.90	178.50	10458.72	-3621.26	101.55	3622.59	1.73	658952.75	394185.44	4.32 (U)	-5.54 (L)
13844.00	90.60	178.60	10459.14	-3716.23	103.95	3717.58	1.79	658955.15	394090.48	3.46 (U)	-7.50 (L)
13940.00	89.00	178.10	10459.47	-3812.18	106.72	3813.58	1.75	658957.92	393994.52	2.67 (U)	-9.81 (L)
14035.00	87.80	176.20	10462.12	-3907.02	111.44	3908.49	2.36	658962.64	393899.68	-0.43 (D)	-14.10 (L)
14130.00	87.80	177.40	10465.77	-4001.80	116.74	4003.36	1.26	658967.94	393804.90	-4.53 (D)	-18.94 (L)
14225.00	88.30	176.80	10469.00	-4096.62	121.54	4098.26	0.82	658972.74	393710.08	-8.21 (D)	-23.32 (L)
14320.00	89.40	178.70	10470.91	-4191.53	125.27	4193.22	2.31	658976.47	393615.18	-10.56 (D)	-26.56 (L)
14415.00	88.80	177.90	10472.40	-4286.47	128.09	4288.21	1.05	658979.29	393520.23	-12.50 (D)	-28.94 (L)
14510.00	87.60	177.50	10475.39	-4381.35	131.90	4383.14	1.33	658983.10	393425.36	-15.95 (D)	-32.33 (L)
14604.00	88.20	178.00	10478.83	-4475.21	135.58	4477.06	0.83	658986.78	393331.49	-19.83 (D)	-35.55 (L)
14699.00	87.20	177.50	10482.64	-4570.06	139.31	4571.97	1.18	658990.51	393236.65	-24.11 (D)	-38.87 (L)
14794.00	86.60	177.80	10487.78	-4664.84	143.20	4666.81	0.71	658994.40	393141.87	-29.72 (D)	-42.32 (L)
14889.00	86.40	177.40	10493.58	-4759.58	147.17	4761.61	0.47	658998.37	393047.13	-35.99 (D)	-45.88 (L)
14975.00	86.50	176.80	10498.91	-4845.30	151.51	4847.40	0.71	659002.71	392961.40	-41.73 (D)	-49.88 (L)
PTB @ TD											
15027.00	86.50	176.80	10502.08	-4897.13	154.41	4899.28	0.00	659005.61	392909.58	-	-