



Reservoir Development

Schlumberger Drilling and Measurements

9200 West Reno Avenue

Oklahoma City, Oklahoma 73127 USA

Phone: (405) 789-1515

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April 25, 2016

WPX San Juan, LLC.

One Williams Center

Tulsa, OK, 74172

Re:

CLIENT: WPX San Juan, LLC.
WELL: North Brushy Draw Federal 35-12H
FIELD: Eddy County
RIG: Orion Pegasus
COUNTY: Eddy
API NO: 30-015-43603
JOB NO: 16MLD1149

35, 25S, 29E, Eddy NM
N 32.07960 W -103.95097

Enclosed, please find the original copy of the survey performed on the referenced well by Drilling & Measurements, a division of Schlumberger Technology Corporation (P-5 No. 754900).

Other information required by your office is as follows.

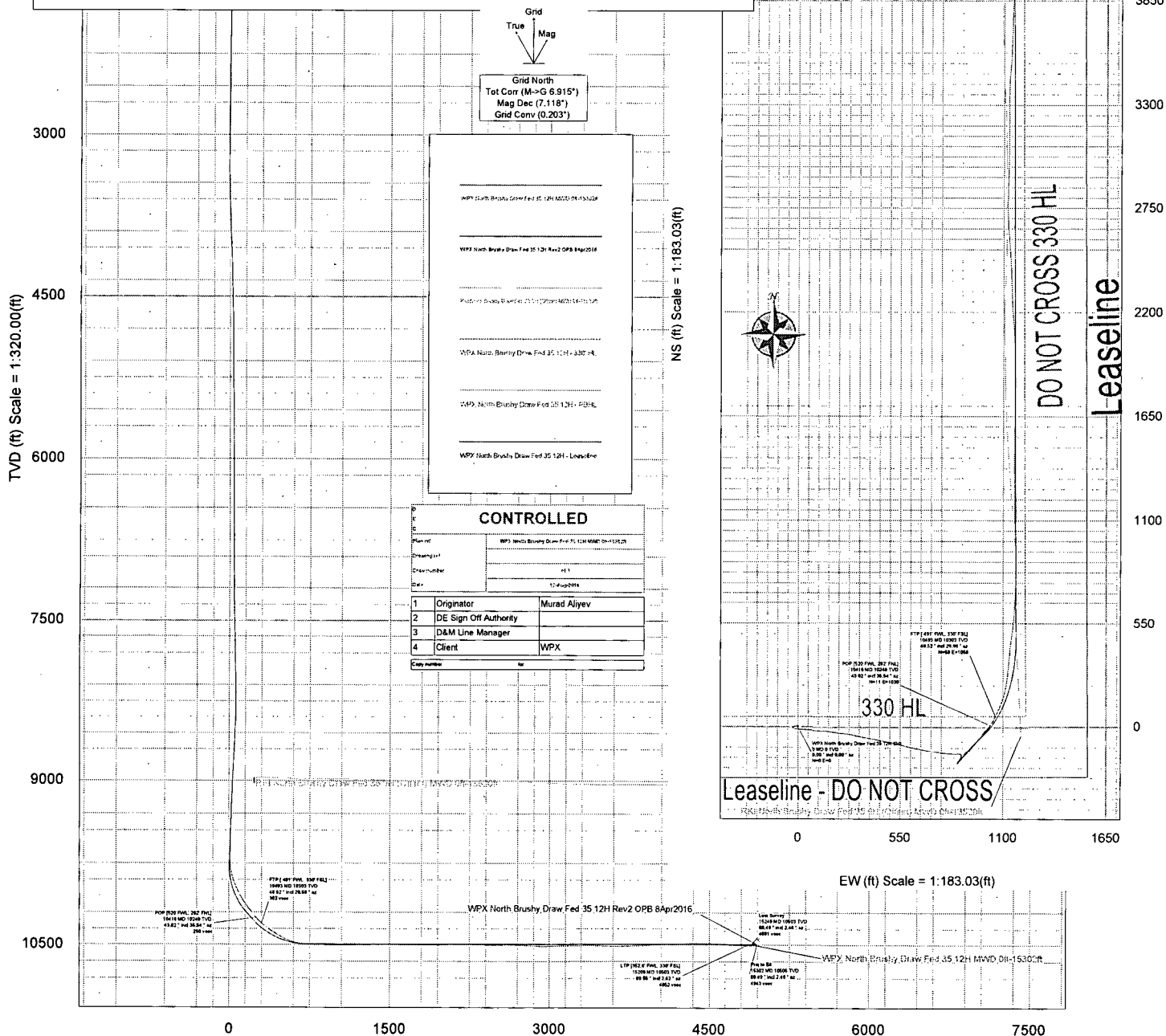
<u>Name & Title of Surveyor</u>	<u>Drainhole Number</u>	<u>Surveyed Depths</u>	<u>Dates Performed</u>	<u>Type of Survey</u>
Elizabeth Tiblin FE	North Brushy Draw Federal 35-12H Original Hole	178.00 Ft to 15302.00 Ft	March 29, 2016 to April 23, 2016	TelePacer

If any other information is required, please contact the undersigned at the above letterhead and phone number.
Sincerely,

Lindsey Keith
Field Service Manager

Borehole:		Well:		Field:		Structure:	
Original Borehole		WPX North Brushy Draw Fed 35 12H		NM Eddy County (NAD 27)		WPX North Brushy Draw Fed 35 12H	
Gravity & Magnetic Parameters				Surface Location		Miscellaneous	
Model:	HGGM 2016	Dip:	69.867°	Date:	23-Mar-2018	NAD 27 New Mexico State Plane, Eastern Zone, US Feet	
MagDec:	7.118°	F8:	48183.744nT	Gravity F8:	998.46mgN (9.80665 Based)	Lat:	N 32 4 48.56
						North:	302892.87US
						East:	W 103 67 3.50
						Easting:	818427.78US
						Grid Conv:	0.2031°
						Scale Fac:	0.99992616
						Slot:	WPX North Brushy Draw Fed 35 12H
						TVD Ref:	RKB13033ft above MSL
						Plan:	WPX North Brushy Draw Fed 35 12H MWD ON-163021

	Critical Points							
Critical Point	MD	INCL	AZIM	TVD	VSEC	N(+)/S(-)	E(+)/W(-)	DLS
WPX North Brushy Draw Fed.35 12H SHL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
POP [520' FWL, 282' FNL]	10415.68	43.62	35.54	10249.00	249.67	10.54	1029.95	11.59
FTP [491' FWL, 330' FSL]	10492.63	48.52	26.66	10302.53	302.43	58.07	1058.00	8.91
LTP [352.6' FWL, 330' FSL]	15209.38	89.55	2.62	10502.50	4851.88	4707.31	1176.64	2.71
Last Survey	15249.00	88.49	2.46	10503.18	4890.78	4746.89	1178.40	2.71
Proj to Bit	15302.00	88.49	2.46	10504.58	4942.79	4799.82	1180.67	0.00



Vertical Section (ft) Azim = 13.442° Scale = 1:320.00(ft) Origin = 0N/-S, 0E/-W

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Well Reference:

35, 25S, 29E, Eddy NM

N 32.07960 W -103.95097

I, Elizabeth Tiblin certify that; I am employed by Drilling & Measurements, a division of Schlumberger Technology Corporation; that I did on the day(s) of March 29, 2016 through April 23, 2016, conduct or supervise the taking of the TelePacer surveys from a depth of 178.00 feet to a depth of 15302.00 feet referenced to driller's depth; that the data is true, correct, complete and within the limitations of the tool as set forth by Drilling & Measurements, a division of Schlumberger Technology Corporation; that I am authorized and qualified to make this report; that this survey was conducted at the request of WPX San Juan, LLC. for the North Brushy Draw Federal 35-12H Well (Original Hole) API No. 30-015-43603 in New Mexico; and that I have reviewed this report and find that it conforms to the principals and procedures as set forth by Drilling & Measurements, a division of Schlumberger Technology Corporation.

By

Elizabeth Tiblin

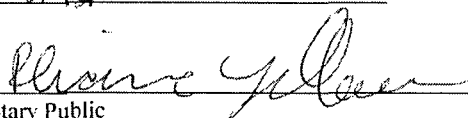
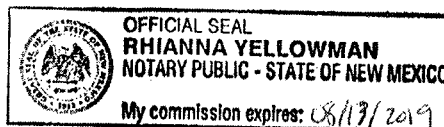
FE



Subscribed and Sworn to before me this 25 day of April (month) 2016 (yr)

My Commission expires:

08/13/2019



Notary Public

(signature)

San Juan County, New Mexico
(County State)

WPX North Brushy Draw Fed 35 12H MWD 0ft-15302ft Survey Geodetic Report (Def Survey)

Report Date: April 25, 2016 - 12:00 PM
Client: WPX
Field: NM Eddy County (NAD 27)
Structure / Slot: WPX North Brushy Draw Fed 35 12H / WPX North Brushy Draw Fed 35 12H
Well: WPX North Brushy Draw Fed 35 12H
Borehole: Original Borehole
UWI / API#: Unknown / Unknown
Survey Name: WPX North Brushy Draw Fed 35 12H MWD 0ft-15302ft
Survey Date: March 23, 2016
Tort / AHD / DDI / ERD Ratio: 265.179° / 6096.271 ft / 6.372 / 0.580
Coordinate Reference System: NAD27 New Mexico State Plane, Eastern Zone, US Feet
Location Lat / Long: N 32° 4' 46.56471", W 103° 57' 3.50097"
Location Grid N/E Y/X: N 392892.900 (RUS, E 618427.700 (RUS)
CRS Grid Convergence Angle: 0.2031°
Grid Scale Factor: 0.99992515
Version / Patch: 2.9.365.0

Survey / DLS Computation: Minimum Curvature / Lubinski
Vertical Section Azimuth: 13.442° (Grid North)
Vertical Section Origin: 0.000 ft, 0.000 ft
TVD Reference Datum: RKB
TVD Reference Elevation: 3033.000 ft above MSL
Seabed / Ground Elevation: 3011.000 ft above MSL
Magnetic Declination: 7.118°
Total Gravity Field Strength: 998.4495mgn (9.80665 Based)
Gravity Model: GARM
Total Magnetic Field Strength: 48183.744 nT
Magnetic Dip Angle: 59.857°
Declination Date: March 23, 2016
Magnetic Declination Model: HDGM 2015
North Reference: Grid North
Grid Convergence Used: 0.2031°
Total Corr Mag North->Grid North: 6.9151°
Local Coord Reference To: Structure Reference Point

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Northing (RUS)	Easting (RUS)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")
WPX North Brushy Draw Fed 35 12H SHL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A	392892.90	618427.70	N 32	4 46.56 W 103 57 3.50
	178.00	0.13	217.22	178.00	-0.16	-0.16	-0.12	0.07	392892.74	618427.58	N 32	4 46.56 W 103 57 3.50
	380.00	0.15	164.14	380.00	-0.63	-0.60	-0.19	0.06	392892.30	618427.51	N 32	4 46.56 W 103 57 3.50
	521.00	0.84	70.05	520.99	-0.22	-0.42	0.83	0.61	392892.48	618428.53	N 32	4 46.56 W 103 57 3.49
	639.00	0.86	23.28	638.98	1.13	0.69	2.00	0.57	392893.59	618429.70	N 32	4 46.57 W 103 57 3.48
	803.00	0.68	355.81	802.97	3.27	2.79	2.41	0.25	392895.69	618430.11	N 32	4 46.59 W 103 57 3.47
	992.00	0.62	282.90	991.96	4.33	4.13	1.33	0.41	392897.03	618429.03	N 32	4 46.61 W 103 57 3.49
	1182.00	0.79	272.51	1181.94	4.07	4.42	-0.98	0.11	392897.32	618426.72	N 32	4 46.61 W 103 57 3.51
	1373.00	0.97	265.54	1372.92	3.33	4.35	-3.90	0.11	392897.25	618423.80	N 32	4 46.61 W 103 57 3.55
	1562.00	1.49	266.43	1561.88	2.12	4.08	-7.95	0.28	392896.98	618419.75	N 32	4 46.61 W 103 57 3.59
	1753.00	1.54	251.88	1752.81	0.05	3.12	-12.87	0.20	392896.02	618414.83	N 32	4 46.60 W 103 57 3.65
	1946.00	1.49	256.44	1945.74	-2.45	1.73	-17.77	0.07	392894.63	618409.93	N 32	4 46.58 W 103 57 3.71
	2135.00	1.36	257.03	2134.69	-4.56	0.65	-22.35	0.07	392893.55	618405.35	N 32	4 46.57 W 103 57 3.76
	2325.00	1.10	256.31	2324.64	-6.40	-0.29	-26.32	0.14	392892.61	618401.38	N 32	4 46.56 W 103 57 3.81
	2515.00	0.51	231.80	2514.62	-7.89	-1.24	-28.75	0.35	392891.66	618398.95	N 32	4 46.55 W 103 57 3.84
	2705.00	0.68	147.13	2704.62	-9.34	-2.71	-28.81	0.43	392890.19	618398.90	N 32	4 46.54 W 103 57 3.84
	2895.00	1.58	122.62	2894.58	-10.98	-5.07	-25.99	0.53	392887.83	618401.71	N 32	4 46.52 W 103 57 3.80
	3061.00	1.63	118.66	3060.51	-12.35	-7.44	-21.99	0.07	392885.46	618405.71	N 32	4 46.49 W 103 57 3.76
	3178.00	1.27	121.96	3177.47	-13.20	-8.92	-19.43	0.32	392883.96	618408.27	N 32	4 46.48 W 103 57 3.73
	3273.00	3.82	105.93	3272.37	-13.67	-10.35	-15.49	2.76	392882.55	618412.21	N 32	4 46.46 W 103 57 3.68
	3368.00	7.45	98.39	3366.90	-13.26	-12.12	-6.35	3.89	392880.78	618421.35	N 32	4 46.45 W 103 57 3.58
	3463.00	11.27	94.35	3460.62	-11.25	-13.72	9.00	4.08	392879.18	618436.70	N 32	4 46.43 W 103 57 3.40
	3558.00	12.32	93.95	3553.61	-8.11	-15.12	28.37	1.11	392877.78	618456.07	N 32	4 46.41 W 103 57 3.17
	3653.00	12.13	93.32	3646.46	-4.69	-16.40	48.45	0.24	392876.50	618476.14	N 32	4 46.40 W 103 57 2.94
	3842.00	11.78	93.71	3831.36	2.06	-18.80	87.52	0.19	392874.10	618515.22	N 32	4 46.38 W 103 57 2.48
	3936.00	11.81	92.68	3923.37	5.48	-19.87	106.71	0.23	392873.03	618534.40	N 32	4 46.36 W 103 57 2.26
	4031.00	11.58	91.73	4016.40	9.23	-20.61	125.95	0.32	392872.29	618553.64	N 32	4 46.36 W 103 57 2.04
	4125.00	11.03	91.73	4108.58	12.97	-21.17	144.37	0.59	392871.73	618572.06	N 32	4 46.35 W 103 57 1.82
	4220.00	11.98	98.37	4201.67	15.69	-22.88	163.21	1.71	392870.03	618590.89	N 32	4 46.33 W 103 57 1.61
	4315.00	12.09	98.79	4294.58	17.37	-25.83	182.79	0.15	392867.07	618610.48	N 32	4 46.30 W 103 57 1.38
	4410.00	12.13	97.85	4387.47	19.15	-28.72	202.51	0.21	392864.19	618630.20	N 32	4 46.27 W 103 57 1.15
	4505.00	12.02	97.39	4480.37	21.16	-31.35	222.21	0.15	392861.55	618649.89	N 32	4 46.25 W 103 57 0.92
	4600.00	11.65	96.06	4573.35	23.44	-33.64	241.56	0.48	392859.27	618669.24	N 32	4 46.22 W 103 57 0.69
	4696.00	11.58	96.31	4667.38	25.88	-35.72	260.77	0.09	392857.18	618688.45	N 32	4 46.20 W 103 57 0.47
	4790.00	11.82	101.88	4759.43	27.31	-38.74	279.57	1.23	392854.17	618707.25	N 32	4 46.17 W 103 57 0.25
	4885.00	11.78	102.19	4852.42	27.79	-42.79	298.57	0.08	392850.12	618726.25	N 32	4 46.13 W 103 57 0.03
	4980.00	11.45	102.61	4945.48	28.14	-46.89	317.25	0.36	392846.01	618744.93	N 32	4 46.09 W 103 56 59.82
	5075.00	11.25	101.90	5038.62	28.53	-50.86	335.52	0.26	392842.04	618763.20	N 32	4 46.05 W 103 56 59.60
	5170.00	10.94	101.11	5131.85	29.14	-54.51	353.44	0.36	392838.39	618781.11	N 32	4 46.01 W 103 56 59.40
	5265.00	10.66	100.36	5225.16	29.98	-57.83	370.92	0.33	392835.08	618798.60	N 32	4 45.98 W 103 56 59.19
	5359.00	10.44	99.85	5317.57	30.98	-60.85	387.87	0.25	392832.06	618815.54	N 32	4 45.95 W 103 56 59.00
	5454.00	10.20	98.25	5411.04	32.28	-63.53	404.67	0.39	392829.38	618832.34	N 32	4 45.92 W 103 56 58.80
	5549.00	10.20	102.43	5504.54	33.19	-66.55	421.21	0.78	392826.36	618849.88	N 32	4 45.89 W 103 56 58.61
	5643.00	10.02	103.80	5597.08	33.29	-70.29	437.28	0.32	392822.62	618864.95	N 32	4 45.85 W 103 56 58.42
	5738.00	11.69	101.89	5690.37	33.50	-74.24	454.73	1.80	392818.66	618882.39	N 32	4 45.81 W 103 56 58.22
	5834.00	11.45	101.21	5784.42	34.13	-78.10	473.59	0.29	392814.81	618891.25	N 32	4 45.78 W 103 56 58.00
	5929.00	10.97	100.34	5877.61	34.99	-81.55	491.73	0.54	392811.35	618919.39	N 32	4 45.74 W 103 56 57.79
	6025.00	10.94	100.82	5971.86	35.80	-84.90	509.67	1.00	392808.00	618937.33	N 32	4 45.71 W 103 56 57.58
	6121.00	11.98	104.02	6065.95	36.22	-89.03	528.28	1.27	392803.68	618955.94	N 32	4 45.67 W 103 56 57.36
	6216.00	12.02	104.53	6158.87	35.93	-93.90	547.42	0.12	392799.01	618975.08	N 32	4 45.62 W 103 56 57.14
	6311.00	11.78	103.46	6251.83	35.74	-98.64	566.43	0.34	392794.27	618994.09	N 32	4 45.57 W 103 56 56.92
	6404.00	11.58	103.46	6342.90	35.73	-103.02	584.74	0.22	392789.89	619012.39	N 32	4 45.52 W 103 56 56.71
	6499.00	11.32	102.85	6436.01	35.82	-107.31	603.10	0.30	392785.60	619030.76	N 32	4 45.48 W 103 56 56.50
	6593.00	11.47	102.68	6528.18	36.04	-111.42	621.22	0.16	392781.49	619048.87	N 32	4 45.44 W 103 56 56.29
	6688.00	10.90	101.65	6621.38	36.45	-115.30	639.23	0.64	392777.61	619066.88	N 32	4 45.40 W 103 56 56.08
	6784.00	10.64	102.06	6715.66	36.95	-118.99	656.78	0.28	392773.92	619084.43	N 32	4 45.36 W 103 56 55.87
	6879.00	10.11	101.79	6809.11	37.40	-122.52	673.52	0.56	392770.39	619101.17	N 32	4 45.33 W 103 56 55.68
	6973.00	11.19	100.49	6901.49	38.11	-125.87	690.57	1.18	392767.04	619118.22	N 32	4 45.29 W 103 56 55.48
	7069.00	11.32	100.79	6995.64	39.02	-129.33	708.88	0.15	392763.58	619136.63	N 32	4 45.26 W 103 56 55.27
	7164.00	11.73	101.33	7088.73	39.81	-132.97	727.61	0.45	392759.94	619155.25	N 32	4 45.22 W 103 56 55.05
	7259.00	10.77	101.16	7181.90	40.52	-136.59	745.79	1.01	392756.32	619173.43	N 32	4 45.19 W 103 56 54.84
	7354.00	8.70	101.02	7275.53	41.18	-139.68	761.55	2.18	392753.23	619189.19	N 32	4 45.16 W 103 56 54.66
	7449.00	8.77	99.42	7369.43	41.99	-142.24	775.75	0.27	392750.67	619203.39	N 32	4 45.13 W 103 56 54.49
	7544.00	8.99	93.55	7463.29	43.77	-143.88	790.30	0.98	392749.03	619217.94	N 32	4 45.11 W 103 56 54.32
	7639.00	7.27	89.25	7557.33	46.52	-144.26	803.72	1.92	392748.65	619231.36	N 32	4 45.11 W 103 56 54.17
	7733.00	7.32	94.45	7650.57	48.91	-144.65	815.64	0.70	392748.26	619243.28	N 32	4 45.10 W 103 56 54.03
	7827.00	7.38	96.70	7743.80	50.56	-145.82	827.60	0.31	392747.09	619255.24	N 32	4 45.09 W 103 56 53.89
	7920.00	5.27	92.70	7836.23	52.06	-146.72	837.80	2.32	392746.19	619265.44	N 32	4 45.08 W 103 56 53.77
	8017.00	4.46	88.76	7932.88	53.84	-146.85	846.02	0.90	392746.06	619273.66	N 32	4 45.08 W 103 56 53.67
	8111.00	4.24	87.34	8026.61	55.73	-146.61	853.15	0.26	392746.30	619280.78	N 32	4 45.08 W 103 56 53.59
	8206.00	4.15	90.13	8121.36	57.50	-146.45	860.10	0.23	392746.46	619287.73	N 32	4 45.09 W 103 56 53.51
	8301.00	3.65	88.66	8216.14	59.06	-146.39	866.56	0.54	392746.52	619294.19	N 32	4 45.09 W 103 56 53.44
	8396.00	2.46	109.10	8311.00	59.63	-146.98	871.51	1.68	392745.93	619299.14	N 32	4 45.08

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")
	8680.00	2.31	188.78	8594.71	49.80	-158.04	875.90	0.79	392734.87	619303.53	N 32 4 44.97 W	103 56 53.33
	8775.00	2.59	199.98	8689.63	45.86	-161.95	874.87	0.58	392730.96	619302.51	N 32 4 44.93 W	103 56 53.34
	8870.00	2.83	204.94	8784.52	41.43	-166.10	873.15	0.35	392726.82	619300.78	N 32 4 44.89 W	103 56 53.36
	8966.00	2.80	210.25	8880.40	36.78	-170.34	870.93	0.29	392722.57	619298.56	N 32 4 44.85 W	103 56 53.39
	9061.00	2.97	210.41	8975.28	32.13	-174.54	868.47	0.07	392718.37	619296.11	N 32 4 44.81 W	103 56 53.41
	9156.00	2.75	216.78	9070.16	27.88	-178.49	865.86	0.41	392714.42	619293.50	N 32 4 44.77 W	103 56 53.45
	9250.00	2.37	223.15	9164.06	23.92	-181.71	863.18	0.50	392711.20	619290.82	N 32 4 44.74 W	103 56 53.48
	9345.00	2.64	219.21	9258.97	20.24	-184.84	860.46	0.34	392708.07	619288.09	N 32 4 44.71 W	103 56 53.51
	9440.00	2.04	202.16	9353.89	16.60	-188.10	858.44	0.96	392704.81	619286.07	N 32 4 44.67 W	103 56 53.53
	9535.00	1.85	204.51	9448.84	13.43	-191.06	857.16	0.22	392701.85	619284.80	N 32 4 44.64 W	103 56 53.55
	9616.00	1.56	204.11	9539.80	11.06	-193.26	856.17	0.36	392699.65	619283.80	N 32 4 44.62 W	103 56 53.56
	9724.00	1.41	214.72	9637.77	8.38	-195.69	854.81	0.29	392697.22	619282.45	N 32 4 44.60 W	103 56 53.57
	9820.00	1.47	16.16	9733.76	8.51	-195.48	854.48	2.96	392697.43	619282.12	N 32 4 44.60 W	103 56 53.58
	9865.00	6.83	36.19	9778.62	11.55	-192.77	856.22	12.16	392700.15	619283.86	N 32 4 44.63 W	103 56 53.56
	9914.00	12.48	36.78	9826.91	19.11	-186.17	861.12	11.53	392706.75	619289.75	N 32 4 44.69 W	103 56 53.50
	9960.00	17.65	35.23	9871.31	30.15	-176.49	868.12	11.27	392716.43	619295.75	N 32 4 44.79 W	103 56 53.42
	10009.00	21.91	38.51	9917.41	45.34	-163.26	878.10	8.98	392729.66	619305.74	N 32 4 44.92 W	103 56 53.30
	10054.00	25.51	41.90	9958.61	61.47	-149.47	889.81	8.55	392743.44	619317.44	N 32 4 45.05 W	103 56 53.17
	10103.00	28.85	43.10	10002.19	81.02	-132.98	904.94	5.91	392759.93	619332.57	N 32 4 45.22 W	103 56 52.99
	10150.00	31.29	42.25	10042.87	101.58	-115.66	920.89	6.27	392777.25	619348.52	N 32 4 45.39 W	103 56 52.80
	10197.00	35.03	40.79	10082.21	124.26	-96.41	937.92	8.14	392796.50	619365.54	N 32 4 45.58 W	103 56 52.60
	10248.00	38.15	40.77	10123.15	151.26	-73.39	957.77	6.12	392819.51	619385.40	N 32 4 45.80 W	103 56 52.37
	10294.00	40.96	41.64	10158.61	177.18	-51.36	977.07	6.23	392841.54	619404.70	N 32 4 46.02 W	103 56 52.15
	10343.00	41.82	41.98	10195.37	205.68	-27.21	998.67	1.81	392865.69	619426.29	N 32 4 46.26 W	103 56 51.90
	10389.00	42.43	39.72	10229.49	233.07	-3.87	1018.84	3.55	392889.03	619446.47	N 32 4 46.49 W	103 56 51.66
	10436.00	44.63	38.72	10263.59	262.92	22.27	1037.86	11.59	392915.17	619465.48	N 32 4 46.75 W	103 56 51.44
	10484.00	47.91	27.28	10296.78	296.17	52.34	1055.09	10.39	392945.24	619482.70	N 32 4 47.05 W	103 56 51.24
	10531.00	51.29	24.03	10327.24	331.15	84.60	1070.55	8.91	392977.50	619498.11	N 32 4 47.36 W	103 56 51.06
	10578.00	55.07	22.27	10355.40	368.22	119.19	1085.33	8.58	393012.08	619512.94	N 32 4 47.71 W	103 56 50.88
	10626.00	57.99	18.23	10381.88	407.97	156.75	1099.16	9.29	393046.64	619526.77	N 32 4 48.08 W	103 56 50.72
	10673.00	58.87	11.69	10408.50	447.96	195.41	1109.48	12.00	393088.29	619537.09	N 32 4 48.46 W	103 56 50.60
	10720.00	62.19	8.76	10429.63	488.80	235.67	1116.72	8.91	393128.55	619544.33	N 32 4 48.86 W	103 56 50.51
	10767.00	66.30	7.04	10450.05	530.93	277.59	1122.53	9.34	393170.47	619550.14	N 32 4 49.27 W	103 56 50.44
	10814.00	71.77	5.14	10466.86	574.43	321.21	1127.17	12.23	393214.09	619554.78	N 32 4 49.70 W	103 56 50.39
	10862.00	77.31	4.20	10479.65	620.14	367.30	1130.93	11.69	393260.17	619558.54	N 32 4 50.16 W	103 56 50.34
	10911.00	81.90	6.11	10488.49	667.81	415.29	1135.26	10.12	393308.16	619562.87	N 32 4 50.63 W	103 56 50.29
	10958.00	85.57	8.95	10493.62	714.27	461.59	1141.39	9.85	393354.45	619569.00	N 32 4 51.09 W	103 56 50.22
	11039.00	88.12	6.04	10498.08	794.70	541.76	1151.93	4.77	393434.62	619579.54	N 32 4 51.89 W	103 56 50.09
	11134.00	89.81	3.24	10499.79	888.55	636.42	1159.61	3.44	393529.27	619587.22	N 32 4 52.82 W	103 56 50.00
	11228.00	89.42	2.84	10500.42	981.00	730.29	1164.60	0.59	393623.13	619592.21	N 32 4 53.75 W	103 56 49.94
	11322.00	88.80	0.32	10501.88	1072.98	824.23	1167.19	2.76	393717.07	619594.80	N 32 4 54.68 W	103 56 49.90
	11416.00	93.40	359.51	10500.08	1164.33	918.19	1167.05	4.97	393811.02	619594.66	N 32 4 55.61 W	103 56 49.90
	11512.00	89.24	356.58	10497.87	1256.83	1014.08	1163.78	5.30	393906.90	619591.39	N 32 4 56.56 W	103 56 49.93
	11606.00	92.01	359.61	10496.84	1347.45	1108.00	1160.65	4.37	394000.81	619588.26	N 32 4 57.49 W	103 56 49.97
	11701.00	90.74	0.13	10494.56	1439.77	1202.97	1160.44	1.44	394095.78	619588.05	N 32 4 58.43 W	103 56 49.96
	11795.00	88.21	358.28	10495.42	1530.87	1296.94	1159.13	3.33	394189.74	619586.74	N 32 4 59.36 W	103 56 49.98
	11889.00	88.52	359.98	10498.11	1621.91	1390.89	1157.71	1.84	394283.68	619585.32	N 32 5 0.29 W	103 56 49.99
	11983.00	89.42	0.81	10499.80	1713.47	1484.87	1158.35	1.30	394377.66	619585.96	N 32 5 1.22 W	103 56 49.98
	12078.00	89.68	0.69	10500.54	1806.14	1579.86	1159.60	0.30	394472.64	619587.21	N 32 5 2.16 W	103 56 49.96
	12172.00	89.88	359.95	10500.90	1897.69	1673.86	1160.12	0.82	394566.63	619587.73	N 32 5 3.09 W	103 56 49.95
	12267.00	91.53	0.03	10499.73	1990.07	1768.85	1160.11	1.74	394661.61	619587.72	N 32 5 4.03 W	103 56 49.94
	12361.00	91.62	0.34	10497.15	2081.53	1862.81	1160.41	0.34	394755.57	619588.02	N 32 5 4.96 W	103 56 49.94
	12455.00	89.55	359.37	10496.19	2172.89	1956.80	1160.17	2.43	394849.55	619587.78	N 32 5 5.89 W	103 56 49.94
	12550.00	89.31	358.32	10497.14	2264.82	2051.77	1158.26	1.13	394944.52	619585.87	N 32 5 6.83 W	103 56 49.95
	12644.00	88.25	354.77	10499.14	2354.72	2145.57	1152.59	3.94	395038.30	619580.21	N 32 5 7.76 W	103 56 50.02
	12739.00	88.58	357.05	10501.77	2445.27	2240.28	1145.82	2.42	395133.01	619573.43	N 32 5 8.69 W	103 56 50.09
	12833.00	92.32	358.52	10501.03	2535.76	2334.19	1142.19	4.27	395226.91	619569.80	N 32 5 9.62 W	103 56 50.13
	12928.00	89.48	357.30	10498.54	2627.27	2429.10	1138.73	3.25	395321.82	619566.34	N 32 5 10.56 W	103 56 50.17
	13022.00	87.81	355.48	10501.76	2717.10	2522.88	1132.81	2.63	395415.59	619560.42	N 32 5 11.49 W	103 56 50.23
	13117.00	86.43	355.69	10508.53	2807.41	2617.48	1125.51	1.47	395510.18	619553.12	N 32 5 12.43 W	103 56 50.31
	13211.00	88.19	358.34	10510.94	2897.46	2711.24	1120.62	3.38	395603.93	619548.23	N 32 5 13.35 W	103 56 50.36
	13305.00	91.68	1.51	10511.05	2988.83	2805.21	1120.49	5.02	395697.89	619548.11	N 32 5 14.28 W	103 56 50.36
	13400.00	91.29	1.40	10508.59	3081.73	2900.15	1122.91	0.43	395792.82	619550.52	N 32 5 15.22 W	103 56 50.33
	13495.00	89.97	0.63	10507.54	3174.50	2995.12	1124.59	1.61	395887.79	619552.20	N 32 5 16.16 W	103 56 50.31
	13589.00	90.71	0.36	10506.99	3266.10	3089.12	1125.40	0.84	395981.78	619553.01	N 32 5 17.09 W	103 56 50.29
	13683.00	90.56	0.31	10505.94	3357.65	3183.11	1125.95	0.17	396075.76	619553.56	N 32 5 18.02 W	103 56 50.28
	13778.00	87.99	359.50	10507.15	3449.99	3278.09	1125.79	2.84	396170.74	619553.41	N 32 5 18.96 W	103 56 50.28
	13872.00	87.86	0.72	10510.55	3541.40	3372.03	1125.97	1.30	396264.67	619553.59	N 32 5 19.89 W	103 56 50.27
	13966.00	89.53	5.29	10512.69	3633.79	3465.85	1130.90	5.17	396358.48	619558.51	N 32 5 20.82 W	103 56 50.21
	14061.00	92.87	3.02	10510.70	3727.51	3560.56	1137.78	4.25	396453.18	619565.30	N 32 5 21.75 W	103 56 50.13
	14156.00	90.98	1.44	10507.51	3820.63	3655.42	1141.47	2.50	396548.04	619569.09	N 32 5 22.70 W	103 56 50.08
	14250.00	94.12	2.27	10503.33	3912.62	3748.27	1144.51	3.45	396641.88	619572.13	N 32 5 23.63 W	103 56 50.04
	14344.00	91.83	1.99	10498.45	4004.66	3843.07	1148.00	2.45	396735.68	619575.61	N 32 5 24.55 W	103 56 50.00
	14438.00	91.83	2.50	10495.45	4096.82	3936.95	1151.68	0.54	396829.55	619579.29	N 32 5 25.48 W	103 56 49.95
	14533.00	92.10	3.38	10492.19	4190.17	4031.77	1155.55	0.97	396924.36	619584.16	N 32 5 26.42 W	103 56 49.89
	14627.00	92.23	1.85	10488.64	4282.43	4125.60	1160.84	1.63	397018.18	619588.45	N 32 5 27.35 W	103 56 49.84
	14721.00	90.08	0.20	10486.75	4374.21	4219.56	1162.					