

Schlumberger Drilling and Measurements
Drilling Group
Geo Market Area: South West Texas Basin
7220 W I-H 20
Midland, Texas 79706
Phone : (432) 742-5400 (Main)
Fax : (432) 742-5606 (Shared)

Schlumberger

30-015-44776

April 12, 2018

OXY USA Inc.
P.O. BOX 2289
Houston, TX 77252

Re:

35, 23S, 31E, Eddy NM
N 32.26787 W -103.74281

CLIENT: OXY USA Inc.
WELL: Cal - Mon MDPI 35 Federal 6H
FIELD: Cotton Draw Bone Spring

RIG: H&P 656
COUNTY: Eddy
API NO: 30-015-44776
JOB NO: 18MLD2566

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>
Magid Ibrahim FE	Cal - Mon MDPI 35 Federal 6H Original Hole	859.00 Ft to 14926.00 Ft	March 22, 2018 to April 7, 2018	TelePacer

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

Mike Stephens
Field Service Manager

Schlumberger Drilling and Measurements
Drilling Group
Geo Market Area: South West Texas Basin
7220 W I-H 20
Midland, Texas 79706
Phone : (432) 742-5400 (Main)
Fax : (432) 742-5606 (Shared)

Schlumberger

Well Reference:

35, 23S, 31E, Eddy NM
N 32.26787 W -103.74281

I, Magid Ibrahim certify that; I am employed by Drilling & Measurements, a division of Schlumberger Technology Corporation; that I did on the day(s) of March 22, 2018 through April 07, 2018, conduct or supervise the taking of the TelePacer surveys from a depth of 859.00 feet to a depth of 14926.00 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 OXY USA Inc. for the Cal - Mon MDP1 35 Federal 6H Well (Original Hole) API No. 30-015-44776 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 Magid Ibrahim
Magid Ibrahim
FE

Subscribed and Sworn to before me this 13th day of April (month) 2018 (yr)

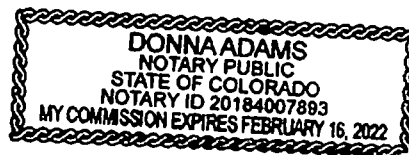
My Commission expires:

2-16-2022

Donna Adams
Notary Public

Adams County Colorado
(County State)

(signature)



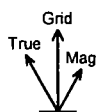
Schlumberger

OXY

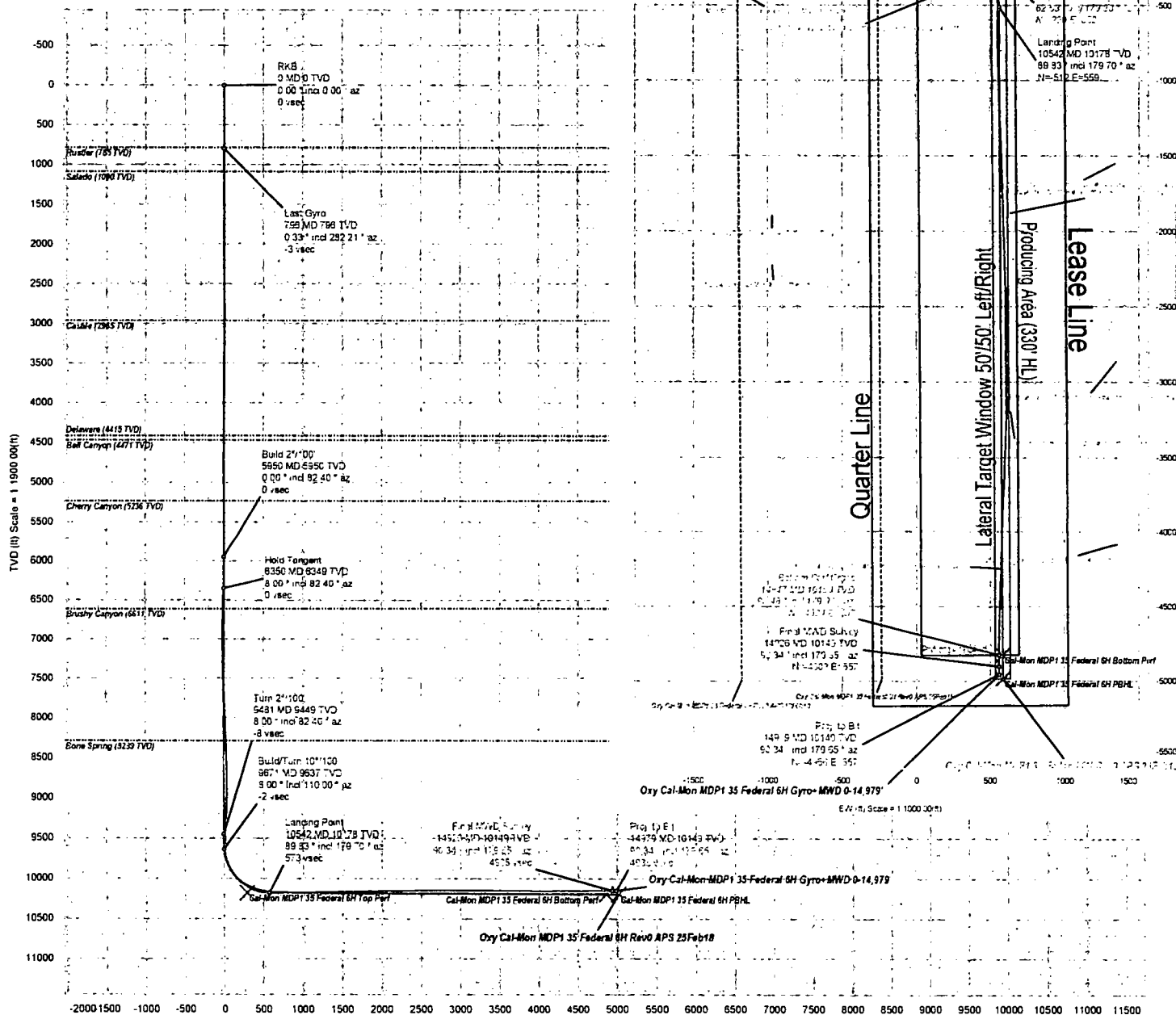


Borehole: Original Borehole Well: Oxy Cal-Mon MDP1 35 Federal 6H Field: NM Eddy County (NAD 83) Structure: Oxy Cal-Mon MDP1 35 Federal 6H

Gravity & Magnetic Parameters
 Model: HDG13 2018 Dip: 60.02° Date: 19-Mar-2018 Surface Location: NAD83 New Mexico State Plane, Eastern Zone, US Feet
 MagDec: 6.902° FS: 48072.399mT Gravity FS: 998.446mgm (8.00655 Based) Lat: N 32 16 4.35 Northing: 481887.01mUS Grid Conv: 0.315°
 Lon: W 103 44 35.78 Easting: 723717.17mUS Scale Fact: 0.89994719
 Miscellaneous: Oxy Cal-Mon MDP1 35 Federal TVD Ref: RKB=26.5' (3494.7ft above MSL)
 Slot: 6H Plan: Oxy Cal-Mon MDP1 35 Federal 6H Rev0 APS 25Feb18



Grid North
 Tot Corr (M->G 6.587°)
 Mag Dec (6.902°)
 Grid Conv (0.315°)



Oxy Cal-Mon MDP1 35 Federal 6H Gyro+MWD 0-14,979' Survey Geodetic Report

(Def Survey)



Report Date: April 07, 2018 - 03:38 PM
 Client: OXY
 Field: NM Eddy County (NAD 83)
 Structure / Slot: Oxy Cal-Mon MDP1 35 Federal 6H / Oxy Cal-Mon MDP1 35 Federal 6H
 Well: Oxy Cal-Mon MDP1 35 Federal 6H
 Borehole: Original Borehole
 UWI / API#: Unknown / 30-015-44776
 Survey Name: Oxy Cal-Mon MDP1 35 Federal 6H Gyro+MWD 0-14,979'
 Survey Date: March 19, 2018
 Tort / AHD / DDI / ERD Ratio: 165.446' / 5541.884 ft / 6.130 / 0.544
 Coordinate Reference System: NAD83 New Mexico State Plane, Eastern Zone, US Feet
 Location Lat / Long: N 32° 16' 4.34661", W 103° 44' 35.77816"
 Location Grid N/E Y/X: N 461687 010 RUS, E 723717.170 RUS
 CRS Grid Convergence Angle: 0.3150°
 Grid Scale Factor: 0.9994719
 Version / Patch: 2.10.715.0

Survey / DLS Computation: Minimum Curvature / Lubinski
 Vertical Section Azimuth: 173.336° (Grid North)
 Vertical Section Origin: 0.000 ft, 0.000 ft
 TVD Reference Datum: RKB=26.5'
 TVD Reference Elevation: 3494.700 ft above MSL
 Seabed / Ground Elevation: 3468.200 ft above MSL
 Magnetic Declination: 6.902°
 Total Gravity Field Strength: 998.4459mgm (9.80665 Based)
 Gravity Model: GARM
 Total Magnetic Field Strength: 48072.399 nT
 Magnetic Dip Angle: 60.020°
 Declination Date: March 19, 2018
 Magnetic Declination Model: HDGM 2018
 North Reference: Grid North
 Grid Convergence Used: 0.3150°
 Total Corr Mag North->Grid: 6.5867°
 North: 6.5867°
 Local Coord Referenced To: Well Head

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (ft/100ft)	Northing (RUS)	Easting (RUS)	Latitude (N/S ° ° ' '')	Longitude (E/W ° ° ' '')
RKB	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A	461687.01	723717.17	N 32 16 4.35	W 103 44 35.78
SHL	26.50	0.00	0.00	26.50	0.00	0.00	0.00	0.00	461687.01	723717.02	N 32 16 4.35	W 103 44 35.78
	69.70	0.42	249.78	69.70	0.04	-0.05	-0.15	0.97	461686.96	723717.02	N 32 16 4.35	W 103 44 35.78
	98.60	0.48	262.16	98.60	0.06	-0.11	-0.37	0.39	461686.90	723716.80	N 32 16 4.35	W 103 44 35.78
	132.80	0.45	265.81	132.80	0.06	-0.14	-0.64	0.12	461686.87	723716.53	N 32 16 4.35	W 103 44 35.79
	160.40	0.45	272.12	160.40	0.04	-0.14	-0.86	0.18	461686.87	723716.31	N 32 16 4.35	W 103 44 35.79
	189.40	0.47	276.96	189.40	-0.01	-0.12	-1.09	0.15	461686.89	723716.08	N 32 16 4.35	W 103 44 35.79
	219.90	0.43	284.21	218.89	-0.08	-0.08	-1.33	0.23	461686.93	723715.84	N 32 16 4.35	W 103 44 35.79
	250.00	0.42	288.98	249.99	-0.16	-0.02	-1.54	0.12	461686.99	723715.63	N 32 16 4.35	W 103 44 35.80
	280.80	0.38	292.85	280.79	-0.26	0.06	-1.74	0.16	461687.07	723715.43	N 32 16 4.35	W 103 44 35.80
	312.50	0.38	295.48	312.48	-0.49	0.15	-1.93	0.05	461687.16	723715.24	N 32 16 4.35	W 103 44 35.80
	344.20	0.43	296.89	344.19	-0.64	0.25	-2.13	0.16	461687.26	723715.04	N 32 16 4.35	W 103 44 35.80
	375.90	0.44	303.63	375.89	-0.80	0.37	-2.34	0.16	461687.38	723714.83	N 32 16 4.35	W 103 44 35.81
	407.50	0.47	306.19	407.49	-0.98	0.51	-2.55	0.11	461687.52	723714.62	N 32 16 4.35	W 103 44 35.81
	439.10	0.50	305.89	439.09	-1.17	0.67	-2.76	0.10	461687.68	723714.41	N 32 16 4.35	W 103 44 35.81
	470.70	0.49	307.02	470.69	-1.35	0.83	-2.98	0.04	461687.84	723714.19	N 32 16 4.35	W 103 44 35.81
	502.40	0.50	300.24	502.39	-1.51	0.98	-3.21	0.19	461687.99	723713.96	N 32 16 4.36	W 103 44 35.82
	534.10	0.55	296.66	534.09	-1.69	1.12	-3.47	0.19	461688.13	723713.70	N 32 16 4.36	W 103 44 35.82
	565.80	0.58	298.14	565.78	-1.86	1.26	-3.74	0.11	461688.27	723713.43	N 32 16 4.36	W 103 44 35.82
	597.40	0.55	297.01	597.38	-2.03	1.41	-4.02	0.10	461688.42	723713.15	N 32 16 4.36	W 103 44 35.82
	629.10	0.61	291.48	629.08	-2.18	1.54	-4.31	0.26	461688.55	723712.86	N 32 16 4.36	W 103 44 35.83
	660.70	0.59	288.28	660.68	-2.29	1.65	-4.62	0.12	461688.66	723712.55	N 32 16 4.36	W 103 44 35.83
	692.30	0.56	279.30	692.28	-2.37	1.73	-4.93	0.30	461688.74	723712.24	N 32 16 4.36	W 103 44 35.84
	724.20	0.57	278.00	724.18	-2.46	1.77	-5.24	0.05	461688.78	723711.93	N 32 16 4.36	W 103 44 35.84
	755.90	0.56	280.22	755.87	-2.52	1.86	-5.55	0.08	461688.83	723711.62	N 32 16 4.36	W 103 44 35.84
	786.90	0.54	271.93	786.87	-2.54	1.86	-5.85	0.26	461688.87	723711.32	N 32 16 4.37	W 103 44 35.85
	795.90	0.33	282.21	795.87	-2.61	1.91	-6.12	2.48	461688.87	723711.26	N 32 16 4.37	W 103 44 35.85
	859.00	0.06	291.20	858.97	-2.71	2.01	-6.13	0.43	461688.92	723711.05	N 32 16 4.37	W 103 44 35.85
	950.00	0.11	21.23	949.97	-2.77	2.07	-6.14	0.14	461689.02	723711.04	N 32 16 4.37	W 103 44 35.85
	1042.00	0.06	239.92	1041.97	-2.74	2.03	-6.23	0.18	461689.08	723711.03	N 32 16 4.37	W 103 44 35.85
	1135.00	0.06	255.70	1134.97	-2.71	1.99	-6.31	0.02	461689.04	723710.94	N 32 16 4.37	W 103 44 35.85
	1227.00	0.06	225.29	1226.97	-2.76	2.04	-6.36	0.03	461689.00	723710.86	N 32 16 4.37	W 103 44 35.85
	1318.00	0.11	353.73	1317.97	-2.81	2.09	-6.34	0.17	461689.05	723710.81	N 32 16 4.37	W 103 44 35.85
	1409.00	0.06	140.45	1408.97	-2.78	2.07	-5.95	0.18	461689.10	723710.83	N 32 16 4.37	W 103 44 35.85
	1596.00	0.11	67.02	1595.97	-2.74	2.09	-6.11	0.06	461689.10	723711.06	N 32 16 4.37	W 103 44 35.85
	1690.00	0.11	126.23	1689.97	-2.71	2.07	-5.95	0.12	461689.08	723711.22	N 32 16 4.37	W 103 44 35.85
	1785.00	0.06	51.28	1784.97	-2.71	2.04	-5.84	0.12	461689.05	723711.33	N 32 16 4.37	W 103 44 35.85
	1880.00	0.05	201.72	1879.97	-2.70	2.04	-5.82	0.11	461689.05	723711.35	N 32 16 4.37	W 103 44 35.85
	1975.00	0.04	216.03	1974.97	-2.66	1.97	-5.85	0.02	461688.98	723711.32	N 32 16 4.37	W 103 44 35.85
	2069.00	0.06	13.13	2068.97	-2.67	1.99	-5.86	0.10	461689.00	723711.31	N 32 16 4.37	W 103 44 35.85
	2164.00	0.09	113.28	2163.97	-2.66	2.01	-5.78	0.12	461689.02	723711.39	N 32 16 4.37	W 103 44 35.85
	2354.00	0.06	39.15	2353.97	-2.73	2.03	-5.58	0.05	461689.04	723711.59	N 32 16 4.37	W 103 44 35.84
	2543.00	0.06	258.87	2542.97	-2.77	2.12	-5.69	0.06	461689.10	723711.55	N 32 16 4.37	W 103 44 35.84
	2638.00	0.06	326.53	2637.97	-2.87	2.09	-5.62	0.07	461689.13	723711.48	N 32 16 4.37	W 103 44 35.84
	2827.00	0.06	76.41	2826.97	-2.77	2.23	-5.65	0.05	461689.24	723711.52	N 32 16 4.37	W 103 44 35.84
	2922.00	0.06	170.36	2921.97	-2.82	2.19	-5.59	0.09	461689.20	723711.58	N 32 16 4.37	W 103 44 35.84
	3017.00	0.06	37.86	3016.97	-2.81	2.18	-5.55	0.12	461689.19	723711.62	N 32 16 4.37	W 103 44 35.84
	3112.00	0.06	279.60	3111.97	-2.86	2.23	-5.57	0.11	461689.24	723711.60	N 32 16 4.37	W 103 44 35.84
	3206.00	0.06	354.30	3205.97	-2.92	2.28	-5.63	0.08	461689.29	723711.54	N 32 16 4.37	W 103 44 35.84
	3301.00	0.11	179.29	3300.97	-2.88	2.24	-5.63	0.18	461689.25	723711.54	N 32 16 4.37	W 103 44 35.84
	3491.00	0.16	120.33	3490.97	-2.72	1.93	-5.40	0.07	461688.94	723711.77	N 32 16 4.37	W 103 44 35.84
	3585.00	0.08	34.86	3584.97	-2.51	1.91	-5.25	0.18	461688.92	723711.92	N 32 16 4.37	W 103 44 35.84
	3680.00	0.17	75.25	3679.97	-2.58	2.00	-5.07	0.13	461689.01	723712.10	N 32 16 4.37	W 103 44 35.84
	3775.00	0.06	79.69	3774.97	-2.60	2.05	-4.89	0.12	461689.06	723712.28	N 32 16 4.37	W 103 44 35.83
	3870.00	0.00	192.84	3869.97	-2.60	2.06	-4.84	0.06	461689.07	723712.33	N 32 16 4.37	W 103 44 35.83
	3964.00	0.06	189.51	3963.97	-2.56	2.01	-4.85	0.06	461689.02	723712.32	N 32 16 4.37	W 103 44 35.83
	4059.00	0.06	182.61	4058.97	-2.46	1.91	-4.86	0.01	461688.92	723712.31	N 32 16 4.37	W 103 44 35.83
	4154.00	0.06	131.10	4153.97	-2.37	1.83	-4.82	0.05	461688.84	723712.35	N 32 16 4.36	W 103 44 35.83
	4333.00	0.23	251.63	4332.97	-2.23	1.65	-5.09	0.15	461688.66	723712.08	N 32 16 4.36	W 103 44 35.84
	4533.00	0.17	272.45	4532.97	-2.20	1.54	-5.77	0.05	461688.55	723711.40	N 32 16 4.36	W 103 44 35.85
	4723.00	0.11	279.37	4722.97	-2.29	1.58	-6.23	0.03	461688.59	723710.94	N 32 16 4.36	W 103 44 35.85
	4817.00	0.11	130.63	4816.97	-2.25	1.54	-6.25	0.23	461688.55	723710.92	N 32 16 4.36	W 103 44 35.85
	4912.00	0.11	75.10	4911.97	-2.20	1.50	-6.10	0.11	461688.51	723711.07	N 32 16 4.36	W 103 44 35.85
	5006.00	0.11	357.45	5005.97	-2.30	1.61	-6.01	0.15	461688.52	723711.16	N 32 16 4.36	W 103 44 35.85
	5101.00	0.11	87.52	5100.97	-2.38	1.71	-5.93	0.16	461688.72	723711.24	N 32 16 4.36	W 103 44 35.85
	5196.00	0.11	180.54	5195.97	-2.29	1.62	-5.84	0.17	461688.53	723711.33	N 32 16 4.36	W 103 44 35.85
	5290.00	0.11	111.90	5289.97	-2.16	1.50	-5.75	0.13	461688.51	723711.42	N 32 16 4.36	W 103 44 35.85
	5385.00	0.11	64.64	5384.97	-2.14	1.50	-5.59	0.09	461688.51	723711.58	N 32 16 4.36	W 103 44 35.84
	5480.00	0.11	7.99	5479.97	-2.26	1.63	-5.49	0.11	461688.64	723711.68	N 32 16 4.36	W 103 44 35.84
	5574.00	0.11	147.03	5573.97	-2.26	1.65	-5.43	0.22	461688.66	723711.74	N 32 16 4.36	W 103 44 35.84
	5669.00	0.11	219.45	5668.97	-2.12	1.50	-5.44	0.14	461688.51	723711.73	N 32 16 4.36	W 103 44 35.84
	5764.00	0.11	140.14	5763.97	-1.98	1.36	-5.44	0.15	461688.37	723711.73	N 32 16 4.36	W 103 44 35.84
	5858.00	0.11	250.73	5857.97	-1.89	1.26	-5.46	0.19	461688.27	723711.71	N 32 16 4.36	W 103 44 35.84
	5953.00	0.70	67.57	5952.96	-2.02	1.45	-5.01	0.85	461688.46	723712.16	N 32 16 4.36	W 103 44 35.84
	6047.00	2.79	79.09	6046.92	-2.35	2.10	-2.24	2.24	461689.11	723714.93	N 32 16 4.37	W 103 44 35.80
	6142.00	5.16	7									

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (ft/100ft)	Northing (NUS)	Easting (EUS)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")
	6425.00	10.88	75.91	6421.68	-7.86	12.98	43.33	1.78	461699.99	723760.50	N 32 16 4.47	W 103 44 35.27
	6614.00	9.97	75.78	6607.56	-12.32	21.34	76.49	0.48	461708.35	723793.66	N 32 16 4.55	W 103 44 34.89
	6804.00	9.94	76.35	6794.70	-16.48	29.25	108.37	0.05	461716.26	723825.54	N 32 16 4.63	W 103 44 34.51
	6993.00	9.75	87.54	6980.93	-17.29	33.79	140.22	1.02	461720.79	723857.38	N 32 16 4.67	W 103 44 34.14
	7183.00	9.94	87.51	7168.14	-14.91	35.19	172.67	0.10	461722.20	723889.83	N 32 16 4.69	W 103 44 33.76
	7372.00	9.47	88.57	7354.43	-12.31	36.29	204.51	0.27	461723.29	723921.67	N 32 16 4.69	W 103 44 33.39
	7467.00	9.72	90.17	7448.10	-10.64	36.46	220.35	0.38	461723.46	723937.50	N 32 16 4.70	W 103 44 33.21
	7562.00	8.72	92.00	7541.87	-8.60	36.18	235.56	1.10	461723.19	723952.72	N 32 16 4.69	W 103 44 33.03
	7657.00	8.99	96.80	7635.74	-5.79	35.05	250.13	0.83	461722.06	723967.29	N 32 16 4.68	W 103 44 32.86
	7846.00	8.79	97.68	7729.60	-2.26	33.20	264.69	0.25	461720.21	723981.85	N 32 16 4.66	W 103 44 32.69
	7941.00	8.29	98.45	7822.56	1.28	31.25	278.51	0.55	461718.25	723995.67	N 32 16 4.64	W 103 44 32.53
	8036.00	7.88	99.93	7916.58	5.00	29.07	291.96	0.24	461716.08	724009.12	N 32 16 4.62	W 103 44 32.38
	8131.00	7.44	101.26	8010.64	8.94	26.64	305.02	0.39	461713.65	724022.18	N 32 16 4.59	W 103 44 32.22
	8225.00	6.99	103.41	8198.05	12.63	24.17	317.44	0.46	461711.18	724034.60	N 32 16 4.57	W 103 44 32.08
	8320.00	6.37	104.24	8282.41	16.66	21.66	328.98	0.56	461708.87	724046.13	N 32 16 4.54	W 103 44 31.95
	8414.00	5.70	104.75	8365.88	24.09	19.02	339.71	0.66	461706.03	724056.86	N 32 16 4.52	W 103 44 31.82
	8509.00	5.54	100.57	8480.43	27.17	16.55	349.28	0.72	461703.56	724066.43	N 32 16 4.49	W 103 44 31.71
	8604.00	5.58	93.15	8574.98	29.32	14.51	358.35	0.46	461701.52	724075.50	N 32 16 4.47	W 103 44 31.60
	8698.00	5.74	87.65	8668.52	30.45	13.35	367.47	0.76	461700.42	724084.62	N 32 16 4.46	W 103 44 31.50
	8793.00	5.69	83.88	8763.05	30.85	14.05	386.16	0.40	461700.36	724093.88	N 32 16 4.46	W 103 44 31.39
	8888.00	6.48	78.47	8857.52	30.44	15.62	396.09	1.03	461702.63	724103.30	N 32 16 4.46	W 103 44 31.28
	8983.00	6.94	76.55	8951.87	29.31	18.03	406.93	0.54	461705.04	724113.24	N 32 16 4.48	W 103 44 31.16
	9077.00	6.95	67.25	9045.18	27.06	21.55	417.69	1.20	461708.56	724124.07	N 32 16 4.50	W 103 44 31.04
	9172.00	6.89	63.34	9138.49	23.52	26.33	428.09	0.50	461713.34	724134.84	N 32 16 4.54	W 103 44 30.91
	9267.00	8.22	58.23	9233.66	18.69	32.46	438.95	1.57	461718.47	724145.23	N 32 16 4.58	W 103 44 30.79
	9362.00	7.54	60.59	9327.76	13.40	39.10	450.16	0.79	461726.11	724156.10	N 32 16 4.64	W 103 44 30.66
	9457.00	5.73	66.18	9422.13	9.59	44.08	459.93	2.02	461731.08	724167.30	N 32 16 4.71	W 103 44 30.53
	9528.00	5.20	70.95	9492.80	7.86	46.56	469.21	0.98	461733.57	724177.07	N 32 16 4.76	W 103 44 30.42
	9568.00	4.90	71.30	9532.65	7.11	47.70	469.54	0.75	461734.70	724186.69	N 32 16 4.79	W 103 44 30.35
	9662.00	5.30	92.24	9626.28	6.95	48.81	477.68	2.01	461735.82	724194.83	N 32 16 4.80	W 103 44 30.21
	9756.00	15.78	124.20	9718.63	16.01	41.44	492.64	12.36	461728.44	724209.79	N 32 16 4.73	W 103 44 30.04
	9851.00	23.80	143.81	9808.04	41.21	18.64	514.71	10.85	461705.65	724231.85	N 32 16 4.50	W 103 44 29.78
	9945.00	31.06	161.21	9891.55	81.54	-19.73	533.77	11.43	461667.28	724250.91	N 32 16 4.12	W 103 44 29.56
	10040.00	40.60	173.52	9968.58	136.61	-73.84	545.19	12.54	461613.17	724262.33	N 32 16 3.59	W 103 44 29.43
	10134.00	53.14	178.06	10032.74	204.97	-142.11	549.94	13.79	461544.91	724267.08	N 32 16 2.91	W 103 44 29.38
	10229.00	61.99	179.24	10083.64	284.72	-222.19	551.79	9.37	461464.84	724268.93	N 32 16 2.12	W 103 44 29.37
	10323.00	70.59	180.97	10121.40	370.09	-308.17	551.59	9.30	461378.86	724268.73	N 32 16 1.27	W 103 44 29.37
	10418.00	78.16	180.23	10146.97	460.78	-399.58	550.64	8.00	461287.45	724267.78	N 32 16 0.36	W 103 44 29.39
	10513.00	82.19	179.80	10163.18	553.73	-493.17	550.62	4.27	461193.87	724267.76	N 32 15 58.44	W 103 44 29.40
	10607.00	87.76	180.01	10171.41	646.72	-586.77	550.77	5.93	461100.27	724267.91	N 32 15 58.51	W 103 44 29.40
	10648.00	88.54	179.87	10172.73	687.43	-627.75	550.81	1.93	461059.29	724267.96	N 32 15 58.11	W 103 44 29.40
	10677.00	88.32	180.09	10173.53	716.22	-656.74	550.82	1.07	461030.31	724267.96	N 32 15 57.82	W 103 44 29.41
	10771.00	88.49	178.62	10178.15	809.66	-750.69	551.88	1.57	460936.36	724269.02	N 32 15 56.89	W 103 44 29.40
	10960.00	90.28	178.40	10178.17	997.88	-939.61	556.80	0.95	460747.45	724273.94	N 32 15 55.02	W 103 44 29.35
	11149.00	91.46	178.73	10175.30	1186.06	-1128.53	561.53	0.65	460558.54	724278.67	N 32 15 53.15	W 103 44 29.31
	11243.00	91.34	178.17	10173.01	1279.66	-1222.46	564.07	0.61	460464.61	724281.21	N 32 15 52.22	W 103 44 29.29
	11338.00	91.23	177.43	10170.88	1374.35	-1317.37	567.72	0.79	460369.71	724284.86	N 32 15 51.28	W 103 44 29.25
	11432.00	91.40	178.07	10168.72	1468.05	-1411.27	571.41	0.70	460275.82	724288.54	N 32 15 50.35	W 103 44 29.21
	11621.00	91.34	178.10	10164.20	1656.34	-1600.11	577.72	0.04	460086.98	724294.86	N 32 15 48.48	W 103 44 29.15
	11715.00	91.23	177.86	10162.09	1750.01	-1694.03	581.03	0.28	459993.07	724298.17	N 32 15 47.55	W 103 44 29.12
	11810.00	91.01	178.64	10160.24	1844.64	-1788.97	583.93	0.85	459898.14	724301.07	N 32 15 46.61	W 103 44 29.09
	11905.00	90.73	177.98	10158.79	1939.27	-1883.91	586.73	0.75	459803.20	724303.87	N 32 15 45.67	W 103 44 29.07
	11999.00	91.01	178.69	10157.37	2032.90	-1977.86	589.47	0.81	459709.26	724306.60	N 32 15 44.74	W 103 44 29.04
	12093.00	90.95	177.76	10155.76	2126.55	-2071.80	592.38	0.99	459615.32	724309.51	N 32 15 43.81	W 103 44 29.01
	12188.00	90.73	177.58	10154.37	2221.27	-2166.71	596.24	0.30	459520.41	724313.38	N 32 15 42.87	W 103 44 28.97
	12282.00	90.90	178.21	10153.03	2314.96	-2260.64	599.69	0.69	459426.49	724316.83	N 32 15 41.95	W 103 44 28.94
	12376.00	90.90	177.21	10151.55	2408.67	-2354.55	603.45	1.06	459332.59	724320.58	N 32 15 41.02	W 103 44 28.90
	12471.00	91.07	178.98	10149.92	2503.33	-2449.48	606.60	1.87	459237.66	724323.74	N 32 15 40.08	W 103 44 28.87
	12565.00	90.90	180.93	10148.30	2596.68	-2543.46	606.68	2.08	459143.68	724323.81	N 32 15 39.15	W 103 44 28.88
	12660.00	90.39	180.00	10147.23	2690.94	-2638.45	605.91	1.12	459048.70	724323.04	N 32 15 38.21	W 103 44 28.89
	12754.00	90.56	180.32	10146.45	2784.27	-2732.45	605.64	0.39	458954.71	724322.78	N 32 15 37.28	W 103 44 28.90
	12849.00	90.28	179.02	10145.76	2878.69	-2827.44	606.19	1.40	458859.72	724323.33	N 32 15 36.34	W 103 44 28.90
	12943.00	90.39	179.34	10145.21	2972.20	-2921.43	607.54	0.36	458765.74	724324.67	N 32 15 35.41	W 103 44 28.89
	13038.00	90.00	179.90	10144.88	3066.82	-3016.43	608.17	0.72	458670.75	724325.30	N 32 15 34.47	W 103 44 28.89
	13132.00	89.38	180.00	10145.39	3160.00	-3110.43	608.25	0.67	458576.75	724325.39	N 32 15 33.54	W 103 44 28.89
	13227.00	89.38	180.61	10146.42	3254.29	-3205.42	607.74	0.64	458481.77	724324.88	N 32 15 32.60	W 103 44 28.91
	13321.00	89.44	181.79	10147.39	3347.40	-3299.39	605.77	1.26	458387.80	724322.91	N 32 15 31.67	W 103 44 28.94
	13415.00	89.38	182.66	10148.36	3440.26	-3393.32	602.13	0.93	458293.88	724319.26	N 32 15 30.74	W 103 44 28.98
	13510.00	89.38	182.31	10149.39	3534.05	-3488.22	598.01	0.37	458198.98	724315.14	N 32 15 29.80	W 103 44 29.04
	13604.00	89.50	182.79	10150.30	3626.83	-3582.12	593.82	0.53	458105.08	724310.96	N 32 15 28.87	W 103 44 29.09
	13698.00	88.82	182.67	10151.68	3719.56	-3676.01	589.35	0.73	458011.21	724306.49	N 32 15 27.94	W 103 44 29.15
	13793.00	89.38	182.71	10153.17	3813.29	-3770.89	584.89	0.59	457916.33	724302.03	N 32 15 27.00	W 103 44 29.21
	13887.00	89.27	181.57	10154.28	3906.17	-3864.82	581.38	1.22	457822.41	724298.52	N 32 15 26.07	W 103 44 29.26
	13982.00	89.94	181.21	10154.94	4000.23	-3959.78	579.08	0.80	457727.44	724296.21	N 32 15 25.13	W 103 44 29.29
	14076.00	90.34	181.05	10154.71	4093.36	-4053.77	577.22	0.46	457633.47	724294.36	N 32 15 24.20	W 103 44 29.32
	14171.00	90.39	181.68	10154.10	4187.43	-4148.74	574.98	0.67	457538.50	724292.10	N 32 15 23.26	W 103 44 29.35
	14266.00	90.56	182.09	10153.31	4281.37							