

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

November 10, 2017

OXY USA INC.

NM OIL CONSERVATION
ARTESIA DISTRICT
DEC 04 2017
RECEIVED

Re:

18, 24S, 31E, NM
32.22588 -103.80922

CLIENT: OXY USA INC.
WELL: Patton MDP1 18 Federal 7H
FIELD: Cotton Draw; Bone Spring

RIG: H&P 657
COUNTY: Eddy
API NO: 30-015-44273
JOB NO: 17MLD3186

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>
Kalu Uga FE	Patton MDP1 18 Federal 7H Original Hole	795.00 Ft to 15010.00 Ft	October 7, 2017 to October 31, 2017	TelePacer SlimPulse

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

Cody Nelms
Field Service Manager

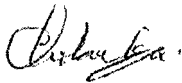
Schlumberger Drilling and Measurements
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Schlumberger

Well Reference:
18, 24S, 31E, NM
32.22588 -103.80922

I, Kalu Uga certify that: I am employed by Drilling & Measurements, a division of Schlumberger Technology Corporation; that I did on the day(s) of October 07, 2017 through October 31, 2017, conduct or supervise the taking of the TelePacer & SlimPulse surveys from a depth of 795.00 feet to a depth of 15010.00 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 Patton MDP1 18 Federal 7H Well (Original Hole) API No. 30-015-44273 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.

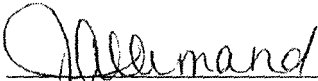
By
Kalu Uga
FE



Subscribed and Sworn to before me this 10th day of November (month) 2017 (yr)

My Commission expires:

12-20-2020



Notary Public

Adams County Colorado
(County State)

(signature) JENNIFER ALLEMAND
Notary Public
State of Colorado
Notary ID # 20164047962
My Commission Expires 12-20-2020

Oxy Patton MDP1 18 Federal 7H Gyro+MWD 0-15,048' MD Survey Geodetic Report (Def Survey)



Report Date:	October 30, 2017 - 04:41 PM	Survey / DLS Computation:	Minimum Curvature / Lubinski
Client:	OXY	Vertical Section Azimuth:	181.188 ° (Grid North)
Field:	NM Eddy County (NAD 83)	Vertical Section Origin:	0.000 ft, 0.000 ft
Structure / Slot:	Oxy Patton MDP1 18 Federal 7H / Oxy Patton MDP1 18 Federal 7H	TVD Reference Datum:	RKB=26.5'
Well:	Oxy Patton MDP1 18 Federal 7H	TVD Reference Elevation:	3550.600 ft above MSL
Borehole:	Original Borehole	Seabed / Ground Elevation:	3524.100 ft above MSL
UWI / API#:	Unknown / Unknown	Magnetic Declination:	8.954 °
Survey Name:	Oxy Patton MDP1 18 Federal 7H Gyro+MWD 0-15,048' MD	Total Gravity Field Strength:	998.4269mgm (9.80665 Based)
Survey Date:	October 25, 2017	Gravity Model:	GARM
Tort / AHD / DDI / ERD Ratio:	233.059 ° / 5486.486 ft / 6.281 / 0.544	Total Magnetic Field Strength:	48080.264 nT
Coordinate Reference System:	NAD83 New Mexico State Plane, Eastern Zone, US Feet	Magnetic Dip Angle:	59.988 °
Location Lat / Long:	N 32° 13' 27.05016", W 103° 48' 33.17524"	Declination Date:	October 25, 2017
Location Grid N/E Y/X:	N 445886.010 NUS, E 703412.250 NUS	Magnetic Declination Model:	HDGM 2017
CRS Grid Convergence Angle:	0.2795 °	North Reference:	Grid North
Grid Scale Factor:	0.99993918	Grid Convergence Used:	0.2795 °
Version / Patch:	2.10.565.0	Total Corr Mag North->Grid North:	6.6742 °
		Local Coord Referenced To:	Well Head

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 ° ' ")
Tie-In	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A	445686.01	703412.25	N 32 13 27.05 W 103 48 33.18	
	77.50	0.27	306.09	77.50	-0.10	0.11	-0.15	0.35	445686.12	703412.10	N 32 13 27.05 W 103 48 33.18	
	107.50	0.31	320.59	107.50	-0.21	0.21	-0.26	0.28	445686.22	703411.99	N 32 13 27.05 W 103 48 33.18	
	138.50	0.21	318.42	138.50	-0.31	0.32	-0.35	0.32	445686.33	703411.90	N 32 13 27.05 W 103 48 33.18	
	168.50	0.18	319.73	168.50	-0.39	0.40	-0.41	0.10	445686.41	703411.84	N 32 13 27.05 W 103 48 33.18	
	198.50	0.17	348.00	198.50	-0.46	0.47	-0.45	0.31	445686.48	703411.80	N 32 13 27.05 W 103 48 33.18	
	227.50	0.18	17.73	227.50	-0.55	0.56	-0.45	0.29	445686.57	703411.80	N 32 13 27.06 W 103 48 33.18	
	259.50	0.21	44.00	259.50	-0.64	0.65	-0.39	0.29	445686.66	703411.86	N 32 13 27.06 W 103 48 33.18	
	291.50	0.48	77.00	291.50	-0.72	0.72	-0.22	1.01	445686.73	703412.03	N 32 13 27.06 W 103 48 33.18	
	321.50	0.57	77.51	321.50	-0.79	0.78	0.05	0.30	445686.79	703412.30	N 32 13 27.06 W 103 48 33.17	
	352.50	0.54	53.79	352.50	-0.91	0.90	0.32	0.74	445686.91	703412.57	N 32 13 27.06 W 103 48 33.17	
	383.50	0.48	65.59	383.49	-1.06	1.04	0.55	0.39	445687.05	703412.80	N 32 13 27.06 W 103 48 33.17	
	415.50	0.48	71.63	415.49	-1.16	1.14	0.80	0.16	445687.15	703413.05	N 32 13 27.06 W 103 48 33.17	
	446.50	0.46	100.68	446.49	-1.18	1.16	1.05	0.76	445687.17	703413.30	N 32 13 27.06 W 103 48 33.16	
	477.50	0.59	124.06	477.49	-1.07	1.05	1.30	0.80	445687.06	703413.55	N 32 13 27.06 W 103 48 33.16	
	508.50	0.73	128.83	508.49	-0.86	0.83	1.60	0.47	445686.84	703413.85	N 32 13 27.06 W 103 48 33.16	
	540.50	0.88	128.71	540.49	-0.59	0.55	1.94	0.48	445686.56	703414.19	N 32 13 27.06 W 103 48 33.15	
	571.50	0.80	138.12	571.48	-0.29	0.24	2.27	0.51	445686.25	703414.52	N 32 13 27.05 W 103 48 33.15	
	602.50	0.88	142.62	602.48	0.05	-0.11	2.56	0.33	445685.90	703414.81	N 32 13 27.05 W 103 48 33.15	
Last Gyro	632.50	0.63	154.60	632.48	0.38	-0.44	2.77	0.98	445685.57	703415.02	N 32 13 27.05 W 103 48 33.14	
	795.00	0.62	317.74	794.97	0.54	-0.59	2.56	0.76	445685.42	703414.81	N 32 13 27.04 W 103 48 33.15	
	873.00	0.13	185.01	872.97	0.32	-0.37	2.27	0.92	445685.54	703414.52	N 32 13 27.05 W 103 48 33.15	
	1060.00	0.00	156.90	1059.97	0.53	-0.58	2.25	0.07	445685.43	703414.50	N 32 13 27.04 W 103 48 33.15	
	1220.00	0.18	239.96	1219.97	0.67	-0.71	2.03	0.11	445685.30	703414.26	N 32 13 27.04 W 103 48 33.15	
	1409.00	0.08	258.58	1408.97	0.85	-0.88	1.65	0.06	445685.13	703413.90	N 32 13 27.04 W 103 48 33.16	
	1504.00	0.08	171.91	1503.97	0.93	-0.96	1.59	0.12	445685.05	703413.84	N 32 13 27.04 W 103 48 33.16	
	1647.00	0.08	258.68	1646.97	1.05	-1.08	1.51	0.08	445684.93	703413.76	N 32 13 27.04 W 103 48 33.16	
	1745.00	0.06	116.77	1744.97	1.09	-1.12	1.49	0.14	445684.89	703413.74	N 32 13 27.04 W 103 48 33.16	
	1840.00	0.06	225.05	1839.97	1.14	-1.17	1.50	0.10	445684.84	703413.74	N 32 13 27.04 W 103 48 33.16	
	1935.00	0.08	156.58	1934.97	1.24	-1.27	1.49	0.08	445684.74	703413.74	N 32 13 27.04 W 103 48 33.16	
	2029.00	0.08	249.35	2028.97	1.32	-1.35	1.45	0.12	445684.66	703413.70	N 32 13 27.04 W 103 48 33.16	
	2124.00	0.06	40.22	2123.97	1.31	-1.34	1.42	0.14	445684.67	703413.67	N 32 13 27.04 W 103 48 33.16	
	2312.00	0.06	83.15	2311.97	1.22	-1.25	1.58	0.02	445684.76	703413.63	N 32 13 27.04 W 103 48 33.16	
	2407.00	0.08	98.03	2406.97	1.22	-1.25	1.68	0.02	445684.76	703413.93	N 32 13 27.04 W 103 48 33.16	
	2595.00	0.13	273.24	2594.97	1.22	-1.25	1.57	0.10	445684.76	703413.92	N 32 13 27.04 W 103 48 33.16	
	2690.00	0.11	287.31	2689.97	1.19	-1.22	1.37	0.04	445684.79	703413.62	N 32 13 27.04 W 103 48 33.16	
	2878.00	0.08	295.14	2878.97	1.09	-1.11	1.08	0.02	445684.90	703413.33	N 32 13 27.04 W 103 48 33.16	
	2973.00	0.13	144.15	2972.97	1.15	-1.17	1.08	0.22	445684.84	703413.33	N 32 13 27.04 W 103 48 33.16	
	3067.00	0.13	3.80	3066.97	1.13	-1.15	1.15	0.26	445684.86	703413.40	N 32 13 27.04 W 103 48 33.16	
	3162.00	0.08	88.76	3161.97	1.02	-1.04	1.22	0.15	445684.97	703413.47	N 32 13 27.04 W 103 48 33.16	
	3256.00	0.16	61.21	3255.97	0.95	-0.98	1.40	0.10	445685.03	703413.65	N 32 13 27.04 W 103 48 33.16	
	3350.00	0.06	222.40	3349.97	0.92	-0.95	1.49	0.23	445685.06	703413.74	N 32 13 27.04 W 103 48 33.16	
	3445.00	0.16	46.22	3444.97	0.86	-0.89	1.55	0.23	445685.12	703413.80	N 32 13 27.04 W 103 48 33.16	
	3539.00	0.23	109.76	3538.97	0.83	-0.87	1.82	0.23	445685.14	703414.07	N 32 13 27.04 W 103 48 33.15	
	3634.00	0.08	321.08	3633.97	0.84	-0.88	1.96	0.32	445685.13	703414.21	N 32 13 27.04 W 103 48 33.15	
	3728.00	0.08	210.02	3727.97	0.85	-0.89	1.88	0.14	445685.12	703414.13	N 32 13 27.04 W 103 48 33.15	
	3823.00	0.06	257.67	3822.97	0.92	-0.95	1.80	0.06	445685.06	703414.05	N 32 13 27.04 W 103 48 33.15	
	3917.00	0.06	245.04	3916.97	0.95	-0.99	1.71	0.01	445685.02	703413.96	N 32 13 27.04 W 103 48 33.16	
	4012.00	0.13	132.09	4011.97	1.04	-1.08	1.74	0.17	445684.93	703413.99	N 32 13 27.04 W 103 48 33.15	
	4106.00	0.56	101.67	4105.97	1.20	-1.24	2.27	0.48	445684.77	703414.52	N 32 13 27.04 W 103 48 33.15	
	4201.00	0.45	356.32	4200.96	0.91	-0.96	2.70	0.85	445685.05	703414.95	N 32 13 27.04 W 103 48 33.14	
	4252.00	0.40	8.27	4251.96	0.53	-0.59	2.72	0.20	445685.42	703414.97	N 32 13 27.04 W 103 48 33.14	
	4450.00	0.06	280.58	4449.96	-0.17	0.11	2.71	0.20	445686.12	703414.96	N 32 13 27.05 W 103 48 33.14	
	4481.00	0.08	323.30	4480.96	-0.19	0.13	2.69	0.18	445686.14	703414.94	N 32 13 27.05 W 103 48 33.14	
	4670.00	0.06	335.12	4669.96	-0.38	0.33	2.57	0.01	445686.34	703414.81	N 32 13 27.05 W 103 48 33.15	
	4859.00	0.06	252.34	4858.96	-0.44	0.39	2.43	0.04	445686.40	703414.68	N 32 13 27.05 W 103 48 33.15	
	5048.00	0.06	200.00	5047.96	-0.31	0.27	2.30	0.03	445686.28	703414.55	N 32 13 27.05 W 103 48 33.15	
	5143.00	0.13	138.14	5142.96	-0.19	0.14	2.36	0.12	445686.15	703414.61	N 32 13 27.05 W 103 48 33.15	
	5332.00	0.08	244.05	5331.96	0.03	-0.08	2.38	0.09	445685.93	703414.63	N 32 13 27.05 W 103 48 33.15	
	5426.00	0.13	355.16	5425.96	-0.05	0.00	2.31	0.19	445686.01	703414.58	N 32 13 27.05 W 103 48 33.15	
	5521.00	0.00	305.89	5520.96	-0.16	0.11	2.30	0.14	445686.12	703414.55	N 32 13 27.05 W 103 48 33.15	
	5615.00	0.13	97.86	5614.96	-0.14	0.09	2.41	0.14	445686.10	703414.66	N 32 13 27.05 W 103 48 33.15	
	5710.00	0.08	267.85	5709.96	-0.13	0.08	2.45	0.22	445686.09	703414.70	N 32 13 27.05 W 103 48 33.15	
	5804.00	0.11	266.49	5803.96	-0.12	0.07	2.29	0.03	445686.06	703414.54	N 32 13 27.05 W 103 48 33.15	
	5898.00	0.21	114.07	5897.96	-0.04	-0.01	2.36	0.33	445686.00	703414.61	N 32 13 27.05 W 103 48 33.15	
	6087.00	0.06	283.26	6086.96	0.07	-0.13	2.58	0.14	445685.88	703414.83	N 32 13 27.05 W 103 48 33.15	
	6181.00	0.06	162.52	6180.96	0.11	-0.16	2.55	0.11	445685.85	703414.80	N 32 13 27.05 W 103 48 33.15	
	6276.00	0.08	106.34	6275.96	0.18	-0.23	2.63	0.07	445685.78	703414.88	N 32 13 27.05 W 103 48 33.14	
	6370.00	0.06	137.08	6369.96	0.23	-0.29	2.72	0.04	445685.72	703414.97	N 32 13 27.05 W 103 48 33.14	
	6465.00	0.06	29.92	6464.96	0.22	-0.28	2.78	0.10	445685.73	703415.03	N 32 13 27.05 W 103 48 33.14	
	6559.00	0.06	270.31	6558.96	0.18	-0.24	2.75	0.11	445685.77	703415.00	N 32 13 27.05 W 103 48 33.14	
	6748.00	0.00	309.85	6747.96	0.18	-0.24	2.66	0.03	445685.77	703414.91	N 32 13 27.05 W 103 48 33.14	
	6842.00	0.06	270.31	6841.96	0.18	-0.24	2.61	0.06	445685.77	703414.86	N 32 13 27.05 W 103 48 33.14	
	6937.00	0.06	132.84	6936.96	0.22	-0.27	2.59	0.12	445685.74	703414.84	N 32 13 27.05 W 103 48 33.15	
	7031.00	0.11	346.02	7030.96	0.16	-0.22	2.61	0.17	445685.79	703414.86	N 32 13 27.05 W 103 48 33.14	
	7128.00	0.11	85.25	7125.96	0.07	-0.12	2.68	0.18	445685.89	703414.93	N 32 13 27.05 W 103 48 33.14	
	7220.00	0.13	77.53	7219.96	0.03	-0.09	2.87	0.03	445685.92	703415.12	N 32 13 27.05 W 103 48 33.14	
	7315.00	0.16	79.80	7314.96	-0.02	-0.04	3.11	0.03	445685.97	703415.36	N 32 13 27.05 W	

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (ft/100ft)	Northing (ft)	Easting (ft)	Latitude (N/S ° ' '')	Longitude (E/W ° ' '')
	7503.00	0.08	108.24	7502.96	-0.03	-0.04	3.49	0.05	445685.97	703415.74	N 32 13 27.05	W 103 48 33.13
	7598.00	0.08	268.50	7597.96	-0.01	-0.06	3.49	0.17	445685.95	703415.74	N 32 13 27.05	W 103 48 33.13
	7692.00	0.00	260.12	7691.96	-0.01	-0.06	3.42	0.09	445685.95	703415.67	N 32 13 27.05	W 103 48 33.14
	7786.00	2.06	92.29	7785.94	0.03	-0.13	5.11	2.19	445685.88	703417.36	N 32 13 27.05	W 103 48 33.12
	7881.00	2.80	43.51	7880.86	-1.66	1.48	8.41	2.23	445687.49	703420.66	N 32 13 27.06	W 103 48 33.08
	7975.00	2.69	40.59	7974.75	-5.06	4.82	11.43	0.19	445690.83	703423.68	N 32 13 27.10	W 103 48 33.04
	8070.00	4.04	20.37	8069.59	-9.94	9.65	14.04	1.87	445695.66	703426.29	N 32 13 27.15	W 103 48 33.01
	8164.00	4.96	347.36	8163.31	-17.02	16.72	14.31	2.88	445702.73	703426.56	N 32 13 27.21	W 103 48 33.01
	8259.00	6.73	322.28	8257.83	-25.34	25.14	10.00	3.23	445711.15	703422.25	N 32 13 27.30	W 103 48 33.06
	8353.00	6.73	318.48	8351.18	-33.67	33.62	2.98	0.47	445719.63	703415.23	N 32 13 27.38	W 103 48 33.14
	8448.00	6.29	316.90	8445.57	-41.49	41.59	-4.26	0.50	445727.59	703407.99	N 32 13 27.46	W 103 48 33.22
	8542.00	8.25	312.58	8538.81	-49.63	49.91	-12.75	2.16	445735.92	703399.50	N 32 13 27.54	W 103 48 33.32
	8637.00	10.08	314.24	8632.60	-59.81	60.32	-23.73	1.95	445746.33	703388.52	N 32 13 27.65	W 103 48 33.45
	8731.00	9.93	319.37	8725.17	-71.47	72.21	-34.90	0.96	445758.22	703377.35	N 32 13 27.77	W 103 48 33.58
	8825.00	9.71	313.72	8817.19	-82.87	83.84	-45.91	1.05	445769.84	703366.35	N 32 13 27.88	W 103 48 33.70
	8920.00	10.28	305.65	8911.36	-93.06	94.32	-56.59	1.59	445780.32	703353.67	N 32 13 27.99	W 103 48 33.85
	9014.00	11.79	298.68	9003.62	-102.26	103.82	-73.83	2.14	445789.82	703338.43	N 32 13 28.08	W 103 48 34.03
	9109.00	12.29	290.62	9098.54	-110.11	112.04	-91.81	1.84	445798.04	703320.45	N 32 13 28.16	W 103 48 34.24
	9203.00	12.69	274.88	9188.34	-114.10	116.44	-111.46	3.64	445802.44	703300.79	N 32 13 28.21	W 103 48 34.47
	9284.00	12.61	260.44	9267.39	-113.03	115.73	-129.05	3.90	445801.73	703283.21	N 32 13 28.20	W 103 48 34.67
	9380.00	11.40	247.28	9361.31	-107.23	110.32	-148.14	3.11	445796.32	703264.12	N 32 13 28.15	W 103 48 34.89
	9475.00	10.25	230.87	9454.64	-97.95	101.36	-163.36	3.45	445787.36	703248.90	N 32 13 28.06	W 103 48 35.07
	9569.00	12.54	205.45	9546.84	-83.22	86.85	-174.24	5.81	445772.86	703238.02	N 32 13 27.92	W 103 48 35.20
	9664.00	15.00	196.41	9639.11	-62.07	65.87	-182.56	3.13	445751.88	703229.70	N 32 13 27.71	W 103 48 35.30
	9758.00	19.07	176.87	9729.05	-35.10	38.96	-185.57	7.82	445724.97	703226.69	N 32 13 27.44	W 103 48 35.33
	9853.00	23.05	173.47	9817.69	-1.18	4.97	-182.60	4.38	445690.96	703229.66	N 32 13 27.11	W 103 48 35.30
	9947.00	36.99	176.91	9898.89	45.48	-41.78	-178.97	14.94	445644.23	703233.29	N 32 13 26.65	W 103 48 35.26
	10042.00	53.34	177.73	9965.64	112.48	-108.85	-175.90	17.22	445577.16	703236.36	N 32 13 25.98	W 103 48 35.23
	10136.00	69.02	170.36	10010.86	193.81	-190.38	-166.99	18.02	445495.64	703245.27	N 32 13 25.17	W 103 48 35.13
	10231.00	83.66	169.97	10033.24	284.17	-281.09	-151.26	15.42	445404.94	703261.00	N 32 13 24.28	W 103 48 34.95
	10325.00	87.83	168.34	10040.21	375.82	-373.13	-133.62	4.76	445312.90	703278.64	N 32 13 23.36	W 103 48 34.75
	10376.00	87.94	168.27	10042.09	425.51	-423.04	-123.29	0.26	445262.99	703288.97	N 32 13 22.87	W 103 48 34.63
	10471.00	89.11	171.34	10044.54	518.59	-516.50	-106.48	3.46	445169.54	703305.77	N 32 13 21.94	W 103 48 34.44
	10565.00	89.76	173.40	10045.46	611.47	-609.66	-94.00	2.30	445076.39	703318.25	N 32 13 21.09	W 103 48 34.30
	10660.00	90.03	176.33	10045.64	705.89	-704.26	-85.50	3.10	444981.79	703326.75	N 32 13 20.02	W 103 48 34.21
	10754.00	90.34	181.87	10045.33	799.79	-798.22	-84.02	5.90	444887.84	703328.23	N 32 13 19.16	W 103 48 34.20
	10848.00	90.76	185.88	10044.43	893.66	-891.98	-90.38	4.29	444794.09	703321.88	N 32 13 18.23	W 103 48 34.28
	10943.00	90.41	187.52	10043.46	988.21	-986.32	-101.46	1.77	444699.75	703310.80	N 32 13 17.30	W 103 48 34.41
	11037.00	90.65	185.26	10041.71	1176.41	-1174.13	-122.49	1.20	444511.96	703289.77	N 32 13 15.44	W 103 48 34.67
	11132.00	90.55	181.01	10040.73	1270.33	-1267.96	-127.63	4.52	444418.13	703284.63	N 32 13 14.51	W 103 48 34.73
	11226.00	90.55	181.47	10038.91	1459.32	-1456.90	-131.72	0.24	444220.20	703280.54	N 32 13 12.64	W 103 48 34.79
	11320.00	90.52	181.07	10038.04	1553.32	-1550.88	-133.80	0.43	444135.23	703278.45	N 32 13 11.71	W 103 48 34.82
	11414.00	90.38	181.47	10037.29	1648.31	-1645.85	-135.91	0.45	444040.26	703276.35	N 32 13 10.77	W 103 48 34.85
	11508.00	90.69	182.02	10036.41	1742.31	-1739.80	-138.77	0.67	443946.32	703273.49	N 32 13 9.84	W 103 48 34.89
	11602.00	90.55	180.32	10035.40	1836.30	-1833.77	-140.69	1.81	443852.35	703271.57	N 32 13 8.91	W 103 48 34.92
	11696.00	90.41	179.91	10034.60	1931.28	-1928.77	-140.88	0.46	443757.36	703271.38	N 32 13 7.97	W 103 48 34.92
	11790.00	90.72	180.00	10032.74	2120.22	-2117.76	-140.73	0.17	443568.38	703271.53	N 32 13 6.10	W 103 48 34.93
	11884.00	90.62	177.87	10031.64	2214.14	-2211.73	-138.99	2.27	443474.42	703273.27	N 32 13 5.17	W 103 48 34.92
	11978.00	90.41	175.64	10030.78	2308.84	-2306.57	-133.61	2.36	443379.58	703278.65	N 32 13 4.23	W 103 48 34.86
	12072.00	90.72	173.16	10029.86	2402.17	-2400.11	-124.44	2.66	443286.05	703287.82	N 32 13 3.31	W 103 48 34.76
	12166.00	89.62	173.37	10029.29	2589.37	-2587.80	-102.27	0.59	443098.37	703309.98	N 32 13 1.45	W 103 48 34.51
	12260.00	90.17	174.19	10029.47	2682.58	-2681.25	-92.09	1.05	443004.93	703320.17	N 32 13 0.52	W 103 48 34.40
	12354.00	90.07	177.19	10029.27	2777.13	-2775.97	-84.95	3.16	442910.22	703327.31	N 32 12 59.59	W 103 48 34.32
	12448.00	89.69	182.34	10029.47	2871.07	-2869.93	-84.56	5.49	442816.26	703327.69	N 32 12 58.66	W 103 48 34.32
	12542.00	89.55	187.18	10030.10	2965.86	-2964.58	-92.44	5.10	442721.62	703319.81	N 32 12 57.72	W 103 48 34.42
	12636.00	90.07	188.92	10030.41	3059.18	-3057.65	-105.61	1.93	442628.56	703306.65	N 32 12 56.80	W 103 48 34.58
	12730.00	90.07	185.25	10030.29	3152.66	-3150.91	-117.20	3.90	442535.30	703295.06	N 32 12 55.88	W 103 48 34.72
	12824.00	89.83	183.53	10030.38	3247.51	-3245.63	-124.47	1.83	442440.58	703287.79	N 32 12 54.94	W 103 48 34.81
	12918.00	89.97	183.64	10030.54	3341.43	-3339.45	-130.35	0.19	442346.77	703281.91	N 32 12 54.01	W 103 48 34.88
	13012.00	90.10	182.16	10030.48	3436.39	-3434.32	-135.15	1.56	442251.90	703277.10	N 32 12 53.07	W 103 48 34.94
	13106.00	90.00	180.03	10030.40	3530.38	-3528.30	-136.95	2.27	442157.93	703275.31	N 32 12 52.14	W 103 48 34.97
	13200.00	89.90	176.85	10030.48	3624.26	-3622.25	-134.39	3.38	442063.99	703277.87	N 32 12 51.21	W 103 48 34.95
	13294.00	90.10	175.27	10030.48	3718.88	-3717.02	-127.86	1.68	441969.22	703284.39	N 32 12 50.28	W 103 48 34.87
	13388.00	90.03	174.15	10030.37	3812.27	-3810.62	-119.20	1.19	441875.63	703293.06	N 32 12 49.35	W 103 48 34.78
	13482.00	90.65	175.13	10029.82	3905.66	-3904.21	-110.42	1.23	441782.05	703301.84	N 32 12 48.42	W 103 48 34.68
	13576.00	90.55	176.44	10028.82	4000.23	-3998.94	-103.44	1.38	441687.32	703308.92	N 32 12 47.49	W 103 48 34.61
	13670.00	90.55	180.55	10027.92	4094.10	-4092.99	-100.97	4.37	441593.26	703311.29	N 32 12 46.56	W 103 48 34.58
	13764.00	90.52	185.37	10027.03	4188.02	-4187.73	-105.87	5.07	441498.55	703306.38	N 32 12 45.62	W 103 48 34.65
	13858.00	90.69	185.55	10026.04	4282.76	-4281.30	-114.82	0.26	441404.98	703297.44	N 32 12 44.69	W 103 48 34.75
	13952.00	90.69	183.92	10024.90	4377.56	-4375.96	-122.66	1.72	441310.32	703289.60	N 32 12 43.76	W 103 48 34.85
	14046.00	90.45	183.95	10023.96	4471.45	-4469.74	-129.11	0.26	441216.56	703283.15	N 32 12 42.83	W 103 48 34.93
	14140.00	90.55	184.30	10023.13	4566.32	-4564.49	-135.94	0.38	441121.81	703276.32	N 32 12 41.89	W 103 48 35.02
	14234.00	90.65	183.70	10022.15	4660.20	-4658.25	-142.50	0.65	441028.05	703269.76	N 32 12 40.96	W 103 48 35.10
	14328.00	90.21	181.72	10021.43	4755.16	-4753.14	-146.99	2.13	440933.17	703265.27	N 32 12 40.02	W 103 48 35.16
	14422.00	90.72	179.22	10020.67	4849.14	-4847.12	-147.76	2.71	440839.19	703264.50	N 32 12 39.09	W 103 48 35.17
	14516.00	90.76	174.51	10019.46	4942.84	-4940.95	-142.62	5.01	440745.37	703269.64	N 32 12 37.17	W 103 48 35

