

Oilfield Services, Central U.S. Land
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

30-015-45172

December 3, 2018

OXY USA INC.

**NM OIL CONSERVATION
ARTESIA DISTRICT**

FEB 11 2019

RECEIVED

Re:

34, 23S, 31E, Eddy NM
32.23960 -103.75850

CLIENT: OXY USA INC.
WELL: Platinum MDP1 34-3 Fed Com 6H
FIELD: Cotton Draw; Bone Spring

RIG: H&P 556
COUNTY: Eddy
API NO: 3001545172
JOB NO: 18MLD3525

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>
A. Alshuker FE	Platinum MDP1 34-3 Fed Com 6H Original Hole	740.00 Ft to 20251.00 Ft	October 17, 2018 to November 21, 2018	TelePacer/SlimPulse Third Party Corrected

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

Field Service Manager

Schlumberger-Private

Oilfield Services, Central U.S. Land
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)
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Schlumberger

Well Reference:

34, 23S, 31E, Eddy NM
32.23960 -103.75850

I, A. Alshuker certify that; I am employed by Drilling & Measurements, a division of Schlumberger Technology Corporation; that I did on the day(s) of October 17, 2018 through November 21, 2018, conduct or supervise the taking of the TelePacer/SlimPulse & Third Party Corrected surveys from a depth of 740.00 feet to a depth of 20251.00 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 Platinum MDPI 34-3 Fed Com 6H Well (Original Hole) API No. 3001545172 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
A. Alshuker
FE

Subscribed and Sworn to before me this 3rd day of December (month) 2018 (yr)

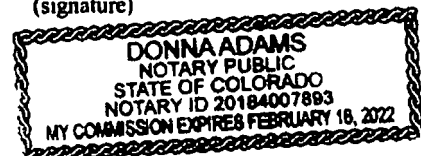
My Commission expires:

2-16-2022

D. Adams
Notary Public

Adams County Colorado
(County State)

(signature)



Oxy Platinum MDP1 34-3 Federal Com 6H Gyro + MWD 0-20295ft MD

Survey Geodetic Report

(Def Survey)



Report Date: November 26, 2016 - 10:12 AM Client: OXY Field: NM Eddy County (NAD 83) Structure / Slot: Oxy Platinum MDP1 34-3 Federal Com 6H / Oxy Platinum MDP1 34-3 Federal Com 6H Well: Oxy Platinum MDP1 34-3 FED COM 6H Borehole: Original Hole UWI / API#: H&P 556 / 30-015-45172 Survey Name: Oxy Platinum MDP1 34-3 Federal Com 6H Gyro + MWD 0-20295ft MD Survey Date: October 03, 2016 Tort / AHD / DDI / ERD Ratio: 237.270' / 10915.333' / 6.718' / 1.084 Coordinate Reference System: NAD83 New Mexico State Plane, Eastern Zone, US Feet Location Lat / Long: N 32° 16' 4.39025", W 103° 45' 36.50949" Location Grid N/E Y/X: N 481863.180 RUS, E 718502.850 RUS CRS Grid Convergence Angle: 0.3060 ° Grid Scale Factor: 0.99994504 Version / Patch: 2.10.740.0	Survey / DLS Computation: Minimum Curvature / Lubinski Vertical Section Azimuth: 177.020 ° (Grid North) Vertical Section Origin: 0.000 ft, 0.000 ft TVD Reference Datum: RKB TVD Reference Elevation: 3474.900 ft above MSL Seabed / Ground Elevation: 3444.900 ft above MSL Magnetic Declination: 6.836 ° Total Gravity Field Strength: 968.4460mgm (9.80665 Based) Gravity Model: GARM Total Magnetic Field Strength: 48035.200 nT Magnetic Dip Angle: 59.997 ° Declination Date: November 09, 2016 Magnetic Declination Model: IFR1 North Reference: Grid North Grid Convergence Used: 0.3060 ° Total Corr Mag North->Grid North: 6.5300 ° Local Coord Referenced To: Well Head	
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Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS ("/100)	Northing (RUS)	Easting (RUS)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")
WRP	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A	461863.16	718502.85	N 32 16 4.39	W 103 45 36.51
SHL	30.00	0.00	0.00	30.00	0.00	0.00	0.00	0.00	461863.16	718502.85	N 32 16 4.39	W 103 45 36.51
	122.53	0.50	1.93	122.53	-0.40	0.40	0.01	0.54	461863.56	718502.86	N 32 16 4.39	W 103 45 36.51
	212.48	0.59	314.82	212.48	-1.14	1.12	-0.30	0.49	461864.28	718502.55	N 32 16 4.40	W 103 45 36.51
	303.89	0.76	293.19	303.88	-1.75	1.69	-1.19	0.33	461864.85	718501.66	N 32 16 4.41	W 103 45 36.52
	398.37	0.85	273.58	398.35	-2.11	1.98	-2.47	0.30	461865.14	718500.38	N 32 16 4.41	W 103 45 36.54
	492.78	0.71	264.69	492.75	-2.17	1.97	-3.75	0.20	461865.13	718499.10	N 32 16 4.41	W 103 45 36.55
	587.30	0.57	263.22	587.27	-2.11	1.86	-4.80	0.15	461865.02	718498.05	N 32 16 4.41	W 103 45 36.57
Last Gyro	681.23	0.61	273.40	681.19	-2.13	1.84	-5.76	0.12	461865.00	718497.09	N 32 16 4.41	W 103 45 36.58
	740.00	0.27	278.79	739.96	-2.20	1.88	-6.21	0.58	461865.04	718496.84	N 32 16 4.41	W 103 45 36.58
	831.00	0.13	311.85	830.96	-2.31	1.98	-6.50	0.19	461865.14	718496.35	N 32 16 4.41	W 103 45 36.59
	922.00	0.17	251.25	921.96	-2.35	2.00	-6.71	0.17	461865.16	718496.15	N 32 16 4.41	W 103 45 36.59
	1014.00	0.09	181.69	1013.96	-2.24	1.89	-6.84	0.18	461865.05	718496.01	N 32 16 4.41	W 103 45 36.59
	1105.00	0.19	197.04	1104.96	-2.03	1.67	-6.88	0.12	461864.83	718495.87	N 32 16 4.41	W 103 45 36.59
	1195.00	0.09	286.66	1194.96	-1.91	1.55	-6.99	0.23	461864.71	718495.86	N 32 16 4.41	W 103 45 36.59
	1287.00	0.82	124.32	1286.95	-1.49	1.15	-6.45	1.09	461864.31	718496.40	N 32 16 4.40	W 103 45 36.58
	1377.00	2.02	132.12	1376.92	0.07	-0.32	-4.68	1.24	461862.84	718498.17	N 32 16 4.39	W 103 45 36.56
	1472.00	2.60	130.37	1471.84	2.65	-2.94	-1.67	0.82	461860.22	718501.18	N 32 16 4.36	W 103 45 36.53
	1561.00	1.50	119.87	1560.70	7.36	-7.16	3.99	0.72	461856.00	718500.84	N 32 16 4.32	W 103 45 36.46
	1755.00	0.35	147.22	1754.69	8.26	-6.02	5.21	1.28	461855.14	718500.06	N 32 16 4.31	W 103 45 36.45
	1850.00	0.09	88.48	1849.69	8.53	-6.26	5.45	0.33	461854.90	718500.30	N 32 16 4.31	W 103 45 36.45
	1944.00	0.14	132.30	1943.69	8.62	-6.34	5.60	0.10	461854.82	718500.45	N 32 16 4.31	W 103 45 36.44
	2039.00	0.13	58.62	2038.69	8.65	-6.36	5.78	0.17	461854.80	718500.63	N 32 16 4.31	W 103 45 36.44
	2133.00	0.08	247.17	2132.69	8.62	-6.33	5.81	0.22	461854.83	718500.86	N 32 16 4.31	W 103 45 36.44
	2228.00	0.09	71.25	2227.69	8.62	-6.33	5.82	0.18	461854.83	718500.87	N 32 16 4.31	W 103 45 36.44
	2322.00	0.08	115.23	2321.69	8.63	-6.33	5.95	0.07	461854.83	718500.80	N 32 16 4.31	W 103 45 36.44
	2417.00	0.02	258.79	2416.69	8.67	-6.37	6.00	0.10	461854.79	718500.85	N 32 16 4.31	W 103 45 36.44
	2511.00	0.20	74.28	2510.69	8.63	-6.32	6.14	0.23	461854.84	718500.99	N 32 16 4.31	W 103 45 36.44
	2605.00	0.14	88.08	2604.69	8.59	-6.27	6.41	0.07	461854.89	718500.26	N 32 16 4.31	W 103 45 36.44
	2700.00	0.02	247.73	2699.69	8.60	-6.27	6.51	0.17	461854.89	718500.39	N 32 16 4.31	W 103 45 36.43
	2794.00	0.10	164.84	2793.69	8.68	-6.36	6.52	0.11	461854.80	718500.37	N 32 16 4.31	W 103 45 36.43
	2889.00	0.09	183.67	2888.69	8.84	-6.51	6.53	0.03	461854.65	718500.38	N 32 16 4.31	W 103 45 36.43
	2983.00	0.06	286.90	2982.69	8.89	-6.57	6.47	0.14	461854.60	718500.32	N 32 16 4.31	W 103 45 36.43
	3078.00	0.09	247.79	3077.69	8.89	-6.57	6.33	0.06	461854.59	718500.18	N 32 16 4.31	W 103 45 36.44
	3172.00	0.02	58.54	3171.69	8.91	-6.59	6.28	0.12	461854.57	718500.13	N 32 16 4.30	W 103 45 36.44
	3266.00	0.14	72.66	3265.69	8.87	-6.55	6.40	0.13	461854.61	718500.25	N 32 16 4.31	W 103 45 36.44
	3361.00	0.14	74.20	3360.68	8.82	-6.48	6.62	0.00	461854.68	718500.47	N 32 16 4.31	W 103 45 36.43
	3456.00	0.13	153.81	3455.68	8.89	-6.55	6.78	0.18	461854.61	718500.63	N 32 16 4.31	W 103 45 36.43
	3550.00	0.08	154.42	3549.68	8.06	-6.71	6.86	0.04	461854.45	718500.71	N 32 16 4.30	W 103 45 36.43
	3644.00	0.19	213.62	3643.68	9.25	-6.91	6.81	0.17	461854.25	718500.96	N 32 16 4.30	W 103 45 36.43
	3739.00	0.07	277.89	3738.68	9.36	-9.03	6.68	0.18	461854.13	718500.51	N 32 16 4.30	W 103 45 36.43
	3834.00	0.22	187.45	3833.68	9.53	-9.20	6.58	0.24	461853.96	718500.43	N 32 16 4.30	W 103 45 36.43
	3926.00	0.12	250.17	3926.68	9.74	-9.42	6.47	0.21	461853.74	718500.32	N 32 16 4.30	W 103 45 36.43
	4023.00	0.19	272.03	4022.68	9.76	-9.45	6.22	0.10	461853.71	718500.07	N 32 16 4.30	W 103 45 36.44
	4118.00	0.09	118.94	4117.68	9.76	-9.48	6.12	0.29	461853.68	718500.97	N 32 16 4.30	W 103 45 36.44
	4213.00	0.13	142.89	4212.68	9.91	-9.60	6.26	0.06	461853.56	718500.10	N 32 16 4.29	W 103 45 36.44
	4307.00	0.09	159.84	4306.68	10.07	-9.76	6.35	0.05	461853.41	718500.19	N 32 16 4.29	W 103 45 36.44
	4377.00	0.08	94.44	4376.68	10.13	-9.81	6.41	0.13	461853.35	718500.29	N 32 16 4.29	W 103 45 36.44
	4535.00	0.00	348.98	4534.68	10.14	-9.82	6.52	0.05	461853.34	718500.37	N 32 16 4.29	W 103 45 36.43
	4724.00	0.00	183.07	4723.68	10.14	-9.82	6.52	0.00	461853.34	718500.37	N 32 16 4.29	W 103 45 36.43
	4818.00	0.11	180.89	4817.68	10.23	-9.91	6.52	0.12	461853.25	718500.37	N 32 16 4.29	W 103 45 36.43
	4912.00	0.16	190.83	4911.68	10.45	-10.13	6.50	0.08	461853.03	718500.35	N 32 16 4.29	W 103 45 36.43
	5088.00	0.23	198.55	5087.68	11.02	-10.70	6.34	0.04	461852.48	718500.19	N 32 16 4.28	W 103 45 36.44
	5182.00	0.20	202.16	5181.68	11.34	-11.03	6.22	0.04	461852.13	718500.07	N 32 16 4.28	W 103 45 36.44
	5277.00	0.15	138.20	5276.68	11.59	-11.28	6.24	0.20	461851.88	718500.09	N 32 16 4.28	W 103 45 36.44
	5371.00	0.12	113.55	5370.68	11.73	-11.41	6.41	0.07	461851.75	718500.26	N 32 16 4.28	W 103 45 36.44
	5466.00	0.08	26.72	5465.68	11.72	-11.39	6.53	0.15	461851.77	718500.38	N 32 16 4.28	W 103 45 36.43
	5560.00	0.08	294.32	5559.68	11.64	-11.31	6.51	0.11	461851.65	718500.36	N 32 16 4.28	W 103 45 36.43
	5749.00	0.15	9.07	5748.68	11.35	-11.03	6.46	0.08	461852.13	718500.31	N 32 16 4.28	W 103 45 36.43
	5843.00	0.34	21.46	5842.68	10.97	-10.65	6.58	0.21	461852.51	718500.43	N 32 16 4.28	W 103 45 36.43
	5937.00	0.40	24.33	5936.68	10.43	-10.09	6.82	0.07	461853.07	718500.67	N 32 16 4.29	W 103 45 36.43
	6032.00	0.38	19.30	6031.67	9.84	-9.49	7.06	0.04	461853.67	718500.91	N 32 16 4.30	W 103 45 36.43
	6126.00	0.31	21.83	6125.67	9.32	-8.96	7.26	0.08	461854.20	718510.11	N 32 16 4.30	W 103 45 36.43
	6315.00	0.43	44.26	6314.67	8.38	-7.97	7.64	0.10	461855.19	718510.79	N 32 16 4.31	W 103 45 36.42
	6409.00	0.62	51.82	6408.66	7.84	-7.41	7.89	0.21	461855.75	718511.44	N 32 16 4.32	W 103 45 36.41
	6504.00	0.53	40.25	6503.66	7.22	-6.75	8.27	0.15	461856.41	718512.12	N 32 16 4.32	W 103 45 36.40
	6598.00	0.46	55.95	6597.66	6.71	-6.21	8.67	0.16	461856.95	718512.72	N 32 16 4.33	W 103 45 36.39
	6797.00	0.47	345.69	6786.65	5.56	-5.03	10.31	0.28	461858.13	718513.16	N 32 16 4.34	W 103 45 36.39
	6975.00	1.76	355.90	6974.61	1.92	-1.40	9.91	0.69	461861.76	718512.76	N 32 16 4.38	W 103 45 36.40
	7070.00	1.95	0.17	7069.56	-1.15	1.67	9.81	0.25	461864.83	718512.98	N 32 16 4.41	W 103 45 36.39
	7164.00	2.07	2.69	7163.50	-4.44	4.96	9.90	0.16	461868.12	718512.75	N 32 16 4.44	W 103 45 36.39
	7258.00	1.88	1.08	7257.45	-7.67	8.20	10.01	0.21	461871.38	718512.88	N 32 16 4.47	W 103 45 36.39
	7353.00	1.43	355.23	7352.41	-10.41	10.94	9.94	0.51	461874.10	718512.79	N 32 16 4.50	W 103 45 36.39
	7447.00	1.23	354.23	7446.38	-12.59	13.11	9.74	0.21	461876.27	718512.59	N 32 16 4.52	W 103 45 36.40
	7578.00	1.05	353.65	7577.36	-15.19	15.70	9.47	0.14	461878.88	718512.32	N 32 16 4.55	W 103 45 36.40
	7672.00	1.76	71.43	7671.28	-16.87	17.53	12.27	0.07	461880.69	718515.12	N 32 16 4.56	W 103 45 36.37
	7768.00	6.22	71.68									

Comments	MD (ft)	Incl (°)	Atm Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (ft/100ft)	Northing (ft)	Easting (ft)	Latitude (N/S ° ' '')	Longitude (E/W ° ' '')
Bone Spring Intersection	8238.90	12.46	84.70	8228.00	-24.64	30.02	102.88	0.70	461693.18	718605.73	N 32 16 4.68 W 103 45 35.31	
	8237.00	12.46	84.70	8228.10	-24.64	30.03	102.91	0.70	461693.18	718605.75	N 32 16 4.68 W 103 45 35.31	
	8331.00	11.79	86.41	8320.00	-25.15	31.56	122.59	0.81	461694.72	718625.43	N 32 16 4.70 W 103 45 35.08	
	8426.00	10.73	82.85	8413.17	-25.90	33.27	141.05	1.33	461696.43	718643.89	N 32 16 4.71 W 103 45 34.66	
	8520.00	12.80	82.17	8505.19	-27.41	35.78	160.05	2.21	461698.89	718662.89	N 32 16 4.74 W 103 45 34.64	
	8614.00	13.11	81.46	8596.80	-28.33	38.78	180.91	0.37	461701.94	718683.75	N 32 16 4.76 W 103 45 34.40	
	8708.00	13.39	82.62	8688.30	-31.19	41.76	202.24	0.41	461704.92	718705.08	N 32 16 4.79 W 103 45 34.15	
	8803.00	14.19	82.63	8780.56	-32.93	44.67	224.70	0.84	461707.83	718727.54	N 32 16 4.82 W 103 45 33.89	
	8897.00	14.84	87.11	8871.56	-33.79	46.76	248.15	1.38	461709.91	718750.99	N 32 16 4.84 W 103 45 33.62	
	8991.00	16.03	86.23	8962.17	-33.95	48.22	273.12	1.29	461711.37	718775.96	N 32 16 4.85 W 103 45 33.33	
	9085.00	14.43	90.56	9052.87	-33.41	48.95	297.79	2.09	461712.11	718800.62	N 32 16 4.86 W 103 45 33.04	
	9179.00	13.35	97.36	9144.12	-30.74	47.45	320.27	2.08	461710.61	718823.10	N 32 16 4.84 W 103 45 32.78	
	9273.00	12.27	108.81	9235.80	-25.08	42.84	340.49	2.93	461706.00	718843.32	N 32 16 4.80 W 103 45 32.54	
	9367.00	12.26	119.59	9327.66	-16.00	34.69	358.82	2.43	461697.85	718861.45	N 32 16 4.71 W 103 45 32.33	
	9461.00	12.42	129.32	9419.50	-3.82	23.35	375.12	2.22	461688.51	718877.95	N 32 16 4.60 W 103 45 32.14	
100FNL Cross	9533.33	11.72	136.20	9490.23	6.98	13.12	388.23	2.21	461678.28	718889.06	N 32 16 4.50 W 103 45 32.01	
KOP Actual	9555.00	11.55	138.41	9511.48	10.34	9.91	389.19	2.21	461673.07	718892.02	N 32 16 4.47 W 103 45 31.98	
	9676.00	15.55	152.10	9629.10	34.53	-13.50	404.83	4.22	461646.68	718907.86	N 32 16 4.24 W 103 45 31.80	
	9770.00	27.34	164.86	9716.48	87.19	-45.80	416.41	13.42	461617.52	718919.24	N 32 16 3.92 W 103 45 31.66	
	9865.00	34.48	168.27	9797.94	115.00	-62.84	428.51	9.57	461570.32	718931.34	N 32 16 3.45 W 103 45 31.52	
	9959.00	43.19	168.68	9871.09	172.81	-150.13	442.15	2.88	461513.04	718944.98	N 32 16 2.88 W 103 45 31.37	
	10054.00	54.33	166.81	9933.61	243.11	-219.58	458.39	11.73	461443.59	718961.21	N 32 16 2.19 W 103 45 31.18	
	10148.00	67.13	173.45	9976.52	324.32	-300.16	472.11	14.94	461363.00	718974.93	N 32 16 1.39 W 103 45 31.03	
	10243.00	76.03	178.51	10009.52	414.31	-389.97	478.32	10.64	461273.21	718981.14	N 32 16 0.51 W 103 45 30.96	
	10337.00	83.86	175.37	10025.93	506.79	-482.31	483.28	8.95	461180.87	718988.11	N 32 15 59.59 W 103 45 30.91	
	10391.00	88.25	175.64	10030.58	560.58	-535.94	487.50	4.45	461127.25	718990.32	N 32 15 59.06 W 103 45 30.87	
	10480.00	86.48	175.21	10036.22	646.35	-624.48	494.58	0.55	461038.72	718997.41	N 32 15 58.18 W 103 45 30.79	
	10574.00	88.38	177.36	10040.44	743.24	-718.18	500.67	3.05	460945.02	719003.49	N 32 15 57.26 W 103 45 30.72	
	10667.00	88.93	177.46	10042.92	836.21	-811.06	504.87	0.60	460852.15	719007.69	N 32 15 56.34 W 103 45 30.68	
	10760.00	88.90	178.34	10044.38	926.18	-903.98	508.28	0.95	460759.23	719011.10	N 32 15 55.42 W 103 45 30.65	
	10854.00	90.24	181.41	10045.09	1023.05	-997.98	508.48	3.56	460665.26	719011.30	N 32 15 54.49 W 103 45 30.65	
	10947.00	89.14	180.24	10045.59	1115.84	-1080.95	507.14	1.73	460572.27	719009.98	N 32 15 53.57 W 103 45 30.67	
	11041.00	88.90	178.55	10047.20	1209.70	-1184.93	507.31	0.78	460478.29	719010.13	N 32 15 52.64 W 103 45 30.68	
	11134.00	88.69	178.25	10049.15	1302.63	-1277.89	509.10	1.42	460385.34	719011.92	N 32 15 51.72 W 103 45 30.69	
	11228.00	89.38	179.23	10050.74	1396.57	-1371.88	511.18	1.27	460291.38	719013.99	N 32 15 50.79 W 103 45 30.64	
	11314.00	89.00	179.18	10053.37	1582.42	-1557.82	513.75	0.21	460105.43	719016.57	N 32 15 49.05 W 103 45 30.62	
	11401.00	88.21	180.17	10057.82	1769.16	-1744.76	514.81	0.68	459918.47	719017.83	N 32 15 47.10 W 103 45 30.63	
	11495.00	91.30	180.22	10060.32	1963.00	-1839.74	514.48	3.29	459824.52	719017.30	N 32 15 46.17 W 103 45 30.62	
	11589.00	89.72	179.57	10067.48	1958.91	-1932.73	515.48	2.44	459730.54	719018.28	N 32 15 45.24 W 103 45 30.63	
	11678.00	89.38	178.31	10068.97	2145.85	-2121.65	520.61	0.23	459541.63	719023.43	N 32 15 43.37 W 103 45 30.58	
	12072.00	87.80	177.77	10061.28	2239.80	-2215.57	523.82	1.78	459447.72	719026.84	N 32 15 42.44 W 103 45 30.55	
	12168.00	89.38	179.67	10063.60	2333.72	-2309.51	525.92	2.63	459353.79	719028.74	N 32 15 41.51 W 103 45 30.53	
	12260.00	89.00	178.59	10064.92	2427.65	-2403.48	527.35	1.22	459259.81	719030.17	N 32 15 40.58 W 103 45 30.52	
	12355.00	88.65	179.81	10066.87	2522.56	-2498.45	528.67	1.34	459164.65	719031.49	N 32 15 39.64 W 103 45 30.51	
	12448.00	90.48	178.64	10067.59	2616.48	-2592.44	529.94	2.31	459070.87	719032.78	N 32 15 38.71 W 103 45 30.50	
	12544.00	89.96	181.60	10067.22	2711.33	-2687.42	529.75	3.16	458975.89	719032.57	N 32 15 37.77 W 103 45 30.51	
	12732.00	90.86	179.11	10065.88	2898.99	-2875.40	528.58	1.41	458877.92	719031.40	N 32 15 35.91 W 103 45 30.53	
	12821.00	91.85	178.43	10061.41	3087.85	-3064.30	532.64	0.64	458695.04	719035.46	N 32 15 34.04 W 103 45 30.50	
	13015.00	91.51	178.78	10058.65	3181.77	-3158.23	534.94	0.50	458505.11	719037.78	N 32 15 33.11 W 103 45 30.48	
	13110.00	91.82	178.98	10055.89	3276.68	-3253.17	536.81	0.40	458410.17	719039.63	N 32 15 32.17 W 103 45 30.46	
	13205.00	88.68	176.39	10057.15	3371.62	-3348.05	540.65	6.08	458315.31	719043.47	N 32 15 31.23 W 103 45 30.42	
	13299.00	87.00	178.08	10062.35	3465.48	-3441.79	545.17	1.83	458221.57	719047.99	N 32 15 30.31 W 103 45 30.38	
	13394.00	90.68	181.49	10064.27	3560.32	-3536.74	545.53	5.28	458128.62	719048.35	N 32 15 29.37 W 103 45 30.38	
	13488.00	91.44	180.04	10062.53	3654.10	-3630.71	544.27	1.74	458032.04	719047.06	N 32 15 28.44 W 103 45 30.40	
	13583.00	91.34	179.17	10060.23	3748.97	-3725.88	544.93	0.92	457937.89	719047.75	N 32 15 27.50 W 103 45 30.40	
	13677.00	91.08	179.75	10058.26	3842.86	-3810.65	545.81	0.68	457843.72	719048.63	N 32 15 26.57 W 103 45 30.39	
	13768.00	91.41	180.26	10054.19	4031.56	-4008.61	545.80	0.33	457654.78	719048.62	N 32 15 24.70 W 103 45 30.40	
	14058.00	91.58	182.09	10049.23	4220.99	-4198.50	541.90	0.97	457464.90	719044.72	N 32 15 22.62 W 103 45 30.46	
	14150.00	90.99	182.28	10047.12	4314.59	-4292.40	538.32	0.66	457371.00	719041.14	N 32 15 21.89 W 103 45 30.51	
	14245.00	90.00	181.61	10046.30	4409.23	-4387.34	535.10	1.26	457276.07	719037.82	N 32 15 20.95 W 103 45 30.55	
	14340.00	90.51	181.90	10045.88	4503.90	-4482.30	532.19	0.82	457181.12	719035.01	N 32 15 20.01 W 103 45 30.59	
	14434.00	88.96	182.05	10046.31	4597.55	-4576.24	528.95	1.68	457087.18	719031.77	N 32 15 19.08 W 103 45 30.63	
	14529.00	90.17	182.18	10047.03	4692.17	-4671.17	525.46	1.28	456992.26	719028.28	N 32 15 18.14 W 103 45 30.68	
	14624.00	90.38	181.40	10046.58	4786.84	-4766.12	522.51	0.83	456897.31	719025.33	N 32 15 17.20 W 103 45 30.72	
	14719.00	91.17	179.56	10045.29	4881.65	-4861.11	521.71	2.11	456802.33	719024.53	N 32 15 16.28 W 103 45 30.74	
	14813.00	90.72	179.42	10043.74	4975.55	-4955.09	522.55	0.50	456708.35	719025.37	N 32 15 15.33 W 103 45 30.73	
	14907.00	91.27	179.65	10042.11	5069.45	-5049.07	523.31	0.63	456614.38	719026.13	N 32 15 14.40 W 103 45 30.73	
	15096.00	91.30	179.27	10037.87	5258.23	-5238.01	525.09	0.20	456425.44	719027.91	N 32 15 12.53 W 103 45 30.72	
	15191.00	90.07	179.57	10036.74	5353.14	-5333.00	526.05	1.33	456330.46	719028.87	N 32 15 11.59 W 103 45 30.72	
	15285.00	89.88	180.28	10036.79	5447.02	-5427.00	526.18	0.79	456236.47	719029.06	N 32 15 10.66 W 103 45 30.72	
	15380.00	89.93	179.77	10036.97	5541.89	-5522.00	526.13	0.54	456141.47	719028.95	N 32 15 9.72 W 103 45 30.73	
	15474.00	89.62	179.68	10037.71	5636.77	-5611.00	527.04	0.17	455952.49	719028.86	N 32 15 7.85 W 103 45 30.73	
	15567.00	90.75	180.42	10037.10	5731.60	-5698.99	526.88	0.72	455764.51	719028.70	N 32 15 5.99 W 103 45 30.74	
	15661.00	90.23	180.34	10035.48	5826.47	-5688.98	525.62	0.28	455574.53	719028.44	N 32 15 4.11 W 103 45 30.77	
	16138.00	90.23	179.59	10034.72	6296.82	-6277.98	525.73	0.40	455385.54	719028.55	N 32 15 2.24 W 103 45 30.78	
	16325.00	90.44	180.29	10033.61	6485.57	-6468.97						