

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

30-015-44693

August 8, 2018

RECEIVED

Cimarex Energy Co.
202 S. Cheyenne Ave.
Tulsa, OK 74103

JAN 22 2019

DISTRICT II-ARTESIA O.C.D.

Re:

S27-T24S-R26E 762 FNL 330 FWL
N 32.19355 W 104.28846

CLIENT: Cimarex Energy Co.
WELL: Crawford 27 26 Fee 1H
FIELD: Purple Sage; Wolfcamp

RIG: H&P 396
COUNTY: Eddy
API NO: 30-015-44693
JOB NO: 18MLD3674

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>
Kenny Fusilier FS	Crawford 27 26 Fee 1H Original Hole	1867.00 Ft to 19099.00 Ft	June 30, 2018 to July 18, 2018	Extreme/SlimPulse Third Party Corrected

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

Heath Beck
Field Service Manager

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:

S27-T24S-R26E 762 FNL 330 FWL
N 32.19355 W 104.28846

I, Kenny Fusilier certify that; I am employed by Drilling & Measurements, a division of Schlumberger Technology Corporation; that I did on the day(s) of June 30, 2018 through July 18, 2018, conduct or supervise the taking of the Extreme/SlimPulse & Third Party Corrected surveys from a depth of 1867.00 feet to a depth of 19099.00 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 Cimarex Energy Co. for the Crawford 27 26 Fee 1H Well (Original Hole) API No. 30-015-44693 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
Kenny Fusilier
FS



Subscribed and Sworn to before me this 8th day of August (month) 2018 (yr)

My Commission expires:

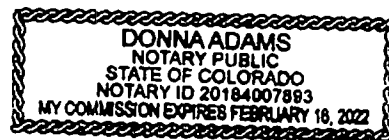
2-16-2022

D. Adams

Notary Public

Adams County Colorado
(County State)

(signature)



RECEIVED

JAN 22 2019

DISTRICT II-ARTESIA O.C.D.

Final Survey - Cimarex Energy Crawford 27-26 Fee 1H MWD 0ft - 19142ft (Surcon Corrected) (Def Survey)



Report Date: July 31, 2018 - 03:16 PM
Client: Cimarex
Field: NM Eddy County (NAD 83)
Structure / Slot: Cimarex Crawford 27-26 Fee 1H / Cimarex Crawford 27-26 Fee 1H
Well: Cimarex Crawford 27-26 Fee 1H
Borehole: Original Borehole
UWI / API#: Unknown / Unknown
Survey Name: Final Survey - Cimarex Energy Crawford 27-26 Fee 1H MWD 0ft - 19142ft (Surcon Corrected)
Survey Date: June 29, 2018
Tort / AHD / DDI / ERD Ratio: 299.202' / 10497.884 ft / 6.798' / 1.097
Coordinate Reference System: NAD83 New Mexico State Plane, Eastern Zone, US Feet
Location Lat / Long: N 32° 11' 36.77392", W 104° 17' 18.44784"
Location Grid N/E Y/X: N 434150.200 ftUS, E 555219.100 ftUS
CRS Grid Convergence Angle: 0.0239°
Grid Scale Factor: 0.99990931
Version / Patch: 2.10.720.0

Survey / DLS Computation: Minimum Curvature / Lubinski
Vertical Section Azimuth: 90.160° (Grid North)
Vertical Section Origin: 0.000 ft, 0.000 ft
TVD Reference Datum: RKB
TVD Reference Elevation: 3375.000 ft above MSL
Seabed / Ground Elevation: 3349.000 ft above MSL
Magnetic Declination: 7.399°
Total Gravity Field Strength: 998.4451mgn (9.80665 Based)
Gravity Model: GARM
Total Magnetic Field Strength: 47894.210 nT
Magnetic Dip Angle: 59.868°
Declination Date: July 13, 2018
Magnetic Declination Model: HDGM 2018
North Reference: Grid North
Grid Convergence Used: 0.0239°
Total Corr Mag North-Grid North: 7.3753°
Local Coord Referenced To: Structure Reference Point

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 ° ' ")
SHL [762' FNL, 330' FWL]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A	434150.20	555219.10	N 32 11 36.77	W 104 17 18.45
	211.00	0.46	305.18	211.00	-0.69	0.49	-0.69	0.22	434150.69	555218.41	N 32 11 36.78	W 104 17 18.46
	328.00	0.34	293.38	327.99	-1.40	0.90	-1.39	0.12	434151.10	555217.71	N 32 11 36.78	W 104 17 18.46
	484.00	0.27	288.96	483.99	-2.17	1.20	-2.17	0.05	434151.40	555216.93	N 32 11 36.79	W 104 17 18.47
	574.00	0.19	262.98	573.99	-2.52	1.25	-2.52	0.14	434151.45	555216.58	N 32 11 36.79	W 104 17 18.48
	665.00	0.29	203.33	664.99	-2.76	1.02	-2.76	0.28	434151.22	555216.34	N 32 11 36.78	W 104 17 18.48
	756.00	0.59	173.46	755.99	-2.80	0.34	-2.79	0.40	434150.54	555216.31	N 32 11 36.78	W 104 17 18.48
	848.00	0.70	152.16	847.98	-2.48	-0.62	-2.48	0.28	434149.58	555216.62	N 32 11 36.77	W 104 17 18.48
	942.00	1.24	148.54	941.97	-1.67	-2.00	-1.68	0.58	434148.20	555217.42	N 32 11 36.75	W 104 17 18.47
	1037.00	1.77	141.96	1036.94	-0.23	-4.03	-0.24	0.59	434146.17	555218.86	N 32 11 36.73	W 104 17 18.45
	1131.00	3.38	136.96	1130.84	2.57	-7.20	2.55	1.73	434143.00	555221.65	N 32 11 36.70	W 104 17 18.42
	1226.00	3.05	130.21	1225.69	6.42	-10.88	6.39	0.53	434139.32	555225.49	N 32 11 36.67	W 104 17 18.37
	1320.00	1.18	118.35	1319.62	9.19	-12.95	9.15	2.03	434137.25	555228.25	N 32 11 36.65	W 104 17 18.34
	1414.00	1.63	72.95	1413.60	11.32	-13.02	11.28	1.24	434137.18	555230.38	N 32 11 36.65	W 104 17 18.32
	1509.00	3.13	78.10	1508.51	15.14	-12.09	15.11	1.59	434138.11	555234.21	N 32 11 36.65	W 104 17 18.27
	1604.00	2.23	57.36	1603.41	19.23	-10.56	19.20	1.38	434139.64	555238.30	N 32 11 36.67	W 104 17 18.22
	1698.00	1.73	324.32	1697.37	19.94	-8.42	19.92	3.08	434141.78	555239.02	N 32 11 36.69	W 104 17 18.22
	1720.00	2.07	317.79	1719.36	19.48	-7.85	19.46	1.83	434142.35	555238.55	N 32 11 36.70	W 104 17 18.22
	1867.00	2.95	308.33	1866.22	14.72	-3.54	14.71	0.66	434146.66	555233.80	N 32 11 36.74	W 104 17 18.28
	1961.00	4.57	321.79	1960.01	10.49	0.90	10.49	1.95	434151.10	555229.59	N 32 11 36.78	W 104 17 18.33
	2056.00	4.73	321.85	2054.70	5.71	6.95	5.73	0.17	434157.15	555224.83	N 32 11 36.84	W 104 17 18.38
	2150.00	4.77	335.46	2148.38	1.68	13.56	1.71	0.20	434163.76	555220.81	N 32 11 36.91	W 104 17 18.43
	2245.00	5.04	338.27	2243.03	-1.53	21.03	-1.47	0.38	434171.23	555217.63	N 32 11 36.98	W 104 17 18.46
	2340.00	4.72	347.95	2337.69	-3.91	28.73	-3.83	0.93	434178.92	555215.27	N 32 11 37.06	W 104 17 18.49
	2434.00	4.67	349.44	2431.37	-5.44	36.27	-5.34	0.14	434186.47	555213.76	N 32 11 37.13	W 104 17 18.51
	2529.00	4.72	342.05	2526.06	-7.38	43.79	-7.25	0.64	434193.99	555211.85	N 32 11 37.21	W 104 17 18.53
	2623.00	4.67	339.95	2619.74	-9.90	51.06	-9.76	0.19	434201.26	555209.34	N 32 11 37.28	W 104 17 18.56
	2718.00	4.53	335.51	2714.44	-12.80	58.11	-12.64	0.40	434208.31	555206.46	N 32 11 37.35	W 104 17 18.59
	2812.00	4.67	340.99	2808.13	-15.61	65.11	-15.43	0.49	434215.30	555203.68	N 32 11 37.42	W 104 17 18.63
	2906.00	4.69	340.20	2901.82	-18.18	72.34	-17.97	0.07	434222.53	555201.13	N 32 11 37.49	W 104 17 18.66
	3001.00	4.73	339.51	2996.50	-20.88	79.66	-20.66	0.07	434229.86	555198.44	N 32 11 37.56	W 104 17 18.69
	3095.00	4.80	343.34	3090.17	-23.39	87.06	-23.14	0.35	434237.25	555195.96	N 32 11 37.64	W 104 17 18.72
	3190.00	4.79	341.23	3184.84	-25.82	94.63	-25.56	0.19	434244.82	555193.54	N 32 11 37.71	W 104 17 18.74
	3284.00	4.79	340.08	3278.51	-28.44	102.03	-28.16	0.10	434252.22	555190.94	N 32 11 37.78	W 104 17 18.78
	3378.00	4.92	340.84	3372.18	-31.13	109.53	-30.82	0.15	434259.72	555188.28	N 32 11 37.86	W 104 17 18.81
	3472.00	4.96	338.29	3465.83	-33.97	117.11	-33.65	0.24	434267.30	555185.46	N 32 11 37.93	W 104 17 18.84
	3567.00	4.68	343.72	3560.49	-36.60	124.65	-36.25	0.56	434274.84	555182.85	N 32 11 38.01	W 104 17 18.87
	3662.00	4.71	343.90	3655.17	-38.79	132.12	-38.42	0.04	434282.30	555180.68	N 32 11 38.08	W 104 17 18.89
	3756.00	4.46	342.13	3748.87	-41.00	139.30	-40.61	0.31	434289.49	555178.49	N 32 11 38.15	W 104 17 18.92
	3851.00	4.16	341.78	3843.60	-43.23	146.09	-42.82	0.32	434296.28	555176.28	N 32 11 38.22	W 104 17 18.95
	3945.00	3.84	340.01	3937.37	-45.39	152.29	-44.96	0.36	434302.47	555174.14	N 32 11 38.28	W 104 17 18.97
	4040.00	3.67	340.55	4032.17	-47.51	158.14	-47.06	0.18	434308.33	555172.04	N 32 11 38.34	W 104 17 18.99
	4134.00	3.66	337.94	4125.98	-49.65	163.78	-49.19	0.18	434313.95	555169.91	N 32 11 38.39	W 104 17 19.02
	4229.00	3.95	346.95	4220.77	-51.54	169.76	-51.07	0.70	434319.94	555168.03	N 32 11 38.45	W 104 17 19.04
	4323.00	3.99	351.62	4314.54	-52.77	176.15	-52.28	0.35	434326.33	555166.83	N 32 11 38.52	W 104 17 19.06
	4418.00	4.01	354.09	4409.31	-53.61	182.72	-53.10	0.18	434332.91	555166.00	N 32 11 38.58	W 104 17 19.06
	4513.00	3.82	354.28	4504.09	-54.29	189.18	-53.76	0.20	434339.36	555165.35	N 32 11 38.65	W 104 17 19.07
	4607.00	3.49	351.46	4597.90	-55.04	195.12	-54.50	0.40	434345.30	555164.61	N 32 11 38.70	W 104 17 19.08
	4702.00	3.98	346.23	4692.70	-56.27	201.18	-55.71	0.63	434351.36	555163.39	N 32 11 38.76	W 104 17 19.10
	4796.00	3.94	345.20	4786.47	-57.89	207.47	-57.31	0.09	434357.65	555161.79	N 32 11 38.83	W 104 17 19.11
	4891.00	4.93	347.24	4881.19	-59.65	214.61	-59.05	1.06	434364.79	555160.06	N 32 11 38.90	W 104 17 19.13
	4986.00	5.22	346.94	4975.82	-61.55	222.80	-60.93	0.31	434372.98	555158.18	N 32 11 38.96	W 104 17 19.16
	5080.00	5.13	345.92	5069.43	-63.56	231.04	-62.91	0.14	434381.22	555156.19	N 32 11 39.06	W 104 17 19.18
	5175.00	4.99	344.98	5164.06	-65.69	239.15	-65.02	0.17	434389.33	555154.09	N 32 11 39.14	W 104 17 19.20
	5270.00	4.79	344.42	5258.72	-67.84	246.96	-67.15	0.22	434397.14	555151.95	N 32 11 39.22	W 104 17 19.23
	5364.00	4.40	347.51	5352.41	-69.70	254.26	-68.99	0.49	434404.44	555150.12	N 32 11 39.29	W 104 17 19.25
	5459.00	4.03	344.23	5447.16	-71.41	261.04	-70.68	0.46	434411.21	555148.42	N 32 11 39.36	W 104 17 19.27
	5554.00	4.14	343.31	5541.92	-73.32	267.53	-72.58	0.13	434417.71	555146.53	N 32 11 39.42	W 104 17 19.29
	5648.00	4.67	341.63	5635.64	-75.52	274.41	-74.76	0.58	434424.59	555144.35	N 32 11 39.49	W 104 17 19.32
	5743.00	4.72	338.60	5730.32	-78.19	281.72	-77.40	0.27	434431.90	555141.71	N 32 11 39.56	W 104 17 19.35
	5837.00	5.66	348.79	5823.93	-80.52	289.87	-79.71	1.40	434440.05	555139.39	N 32 11 39.64	W 104 17 19.37
	5932.00	5.12	2.84	5918.52	-81.25	298.70	-80.41	1.50	434448.87	555138.69	N 32 11 39.73	W 104 17 19.38
	6026.00	4.20	20.10	6012.21	-79.88	306.12	-79.02	1.77	434456.30	555140.08	N 32 11 39.80	W 104 17 19.37
	6121.00	3.05	6.74	6107.02	-78.40	311.90	-77.53	1.49	434462.07	555141.58	N 32 11 39.86	W 104 17 19.35
	6216.00	2.82	332.70	6201.90	-79.19	316.49	-78.31	1.82	434466.66	555140.80	N 32 11 39.91	W 104 17 19.36
	6310.00	2.69	325.28	6295.80	-81.52	320.36	-80.62	0.40	434470.53	555138.48	N 32 11 39.94	W 104 17 19.38
	6405.00	2.26	323.27	6390.71	-83.92	323.69	-83.01	0.46	434473.86	555136.09	N 32 11 39.98	W 104 17 19.41
	6500.00	1.82	324.71	6485.65	-85.92	326.42	-85.01	0.47	434476.59	555134.10	N 32 11 40.00	W 104 17 19.44
	6594.00	1.58	303.94	6579.61	-87.86	328.36	-86.94	0.70	434478.53	555132.17	N 32 11 40.02	W 104 17 19.46
	6689.00	0.86	316.13	6674.58	-89.44	329.61	-88.52	0.80	434479.78	555130.58	N 32 11 40.04	W 104 17 19.48
	6783.00	1.25	331.49	6768.57	-90.43	331.02	-89.50	0.51	434481.19	555128.61	N 32 11 40.05	W 104 17 19.49
	6878.00	1.25	326.83	6863.55	-91.49	332.80	-90.56	0.11	434482.97	555128.55	N 32 11 40.07	W 104 17 19.50
	6972.00	1.14	315.44	6957.52	-92.71	334.32	-91.78	0.28	434484.49	555127.33	N 32 11 40.08</	

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Northing (ft)	Easting (ft)	Latitude (N/S ° ' '')	Longitude (E/W ° ' '')
	7350.00	2.20	148.61	7335.45	-93.26	331.68	-92.34	0.97	434481.85	555126.77	N 32 11 40.06 W 104 17 19.52	
	7445.00	1.72	152.52	7430.40	-91.65	328.86	-90.73	0.52	434479.03	555128.38	N 32 11 40.03 W 104 17 19.50	
	7539.00	2.03	152.47	7524.35	-90.22	326.13	-89.31	0.33	434476.30	555129.80	N 32 11 40.00 W 104 17 19.49	
	7634.00	2.53	162.95	7619.27	-88.82	322.63	-87.91	0.68	434472.80	555131.19	N 32 11 39.97 W 104 17 19.47	
	7728.00	1.86	182.41	7713.20	-88.26	319.12	-87.37	1.06	434469.30	555131.74	N 32 11 39.93 W 104 17 19.46	
	7823.00	1.42	266.60	7808.18	-89.50	317.51	-86.61	2.34	434467.69	555130.50	N 32 11 39.92 W 104 17 19.48	
	7917.00	1.10	272.44	7902.15	-91.56	317.48	-90.67	0.37	434467.65	555128.43	N 32 11 39.92 W 104 17 19.50	
	8012.00	1.00	298.85	7997.14	-93.20	317.92	-92.31	0.52	434468.09	555126.80	N 32 11 39.92 W 104 17 19.52	
	8201.00	1.03	265.95	8186.11	-96.34	318.60	-95.45	0.30	434468.77	555123.66	N 32 11 39.93 W 104 17 19.56	
	8296.00	1.14	265.23	8281.09	-98.13	318.46	-97.24	0.12	434468.63	555121.86	N 32 11 39.93 W 104 17 19.58	
	8391.00	0.95	256.35	8376.08	-99.84	318.20	-98.95	0.26	434468.37	555120.16	N 32 11 39.92 W 104 17 19.60	
	8486.00	1.28	214.18	8471.06	-101.20	317.13	-100.31	0.90	434467.30	555118.80	N 32 11 39.91 W 104 17 19.61	
	8674.00	1.66	325.35	8659.03	-103.93	317.63	-103.04	1.30	434467.81	555116.07	N 32 11 39.92 W 104 17 19.65	
	8732.00	1.98	328.64	8717.00	-104.93	319.18	-104.04	0.58	434469.35	555115.07	N 32 11 39.93 W 104 17 19.66	
	8808.00	4.48	24.10	8792.88	-104.41	323.01	-103.51	4.91	434473.18	555115.60	N 32 11 39.97 W 104 17 19.65	
	8839.00	8.73	30.07	8823.67	-102.75	326.16	-101.84	13.87	434476.33	555117.27	N 32 11 40.00 W 104 17 19.63	
	8902.00	15.84	35.44	8885.19	-95.39	337.31	-94.45	11.42	434487.48	555124.66	N 32 11 40.11 W 104 17 19.55	
	8934.00	20.54	38.50	8915.59	-89.38	345.27	-88.42	14.98	434495.44	555130.69	N 32 11 40.19 W 104 17 19.48	
	8966.00	23.00	42.53	8945.30	-81.68	354.27	-80.69	8.99	434504.44	555138.41	N 32 11 40.28 W 104 17 19.39	
	8997.00	23.95	49.81	8973.74	-72.80	362.80	-71.79	9.84	434512.96	555147.32	N 32 11 40.36 W 104 17 19.28	
	9028.00	25.83	58.41	9001.87	-62.26	370.40	-61.23	13.14	434520.56	555157.88	N 32 11 40.44 W 104 17 19.16	
	9060.00	28.07	64.84	9030.40	-49.52	377.25	-48.47	11.48	434527.42	555170.63	N 32 11 40.51 W 104 17 19.01	
	9092.00	29.72	69.46	9058.42	-35.30	383.24	-34.23	8.67	434533.40	555184.88	N 32 11 40.57 W 104 17 18.84	
First Legal Take Point	9144.00	35.47	75.01	9102.22	-8.65	391.67	-7.55	12.45	434541.84	555211.55	N 32 11 40.65 W 104 17 18.53	
	9186.00	40.26	78.44	9135.37	16.42	397.55	17.53	12.45	434547.71	555238.63	N 32 11 40.71 W 104 17 18.24	
	9218.00	45.90	79.30	9158.73	37.85	401.76	38.97	17.72	434551.92	555258.07	N 32 11 40.75 W 104 17 17.99	
	9249.00	50.93	81.61	9179.31	60.70	405.58	61.83	17.15	434555.75	555280.92	N 32 11 40.79 W 104 17 17.73	
	9281.00	55.43	84.75	9198.48	86.11	408.60	87.26	16.10	434558.77	555306.35	N 32 11 40.82 W 104 17 17.43	
	9312.00	59.47	88.54	9215.16	112.18	410.11	113.33	16.61	434560.28	555332.42	N 32 11 40.83 W 104 17 17.13	
	9344.00	62.54	91.26	9230.67	140.17	410.15	141.31	12.14	434560.31	555360.40	N 32 11 40.83 W 104 17 16.80	
	9375.00	65.83	92.05	9244.17	168.06	409.34	169.20	10.86	434559.51	555388.29	N 32 11 40.82 W 104 17 16.48	
	9407.00	67.66	92.24	9256.80	197.44	408.24	198.58	5.74	434558.41	555417.66	N 32 11 40.81 W 104 17 16.13	
	9506.00	75.93	87.29	9287.72	291.36	408.72	292.51	9.61	434558.89	555411.58	N 32 11 40.82 W 104 17 15.04	
	9569.00	81.33	88.17	9300.14	353.05	411.17	354.20	8.68	434561.33	555573.27	N 32 11 40.84 W 104 17 14.32	
	9601.00	83.59	90.00	9304.34	384.76	411.67	385.91	9.06	434561.83	555604.98	N 32 11 40.85 W 104 17 13.95	
	9632.00	84.14	92.01	9307.65	415.58	411.13	416.73	6.69	434561.29	555635.79	N 32 11 40.84 W 104 17 13.60	
	9664.00	84.21	92.00	9310.90	447.40	410.02	448.55	0.22	434560.18	555667.60	N 32 11 40.83 W 104 17 13.23	
	9696.00	84.49	91.66	9314.05	479.23	409.00	480.37	1.37	434559.16	555689.43	N 32 11 40.82 W 104 17 12.86	
	9727.00	85.21	92.15	9316.83	510.09	407.97	511.23	2.81	434558.14	555730.28	N 32 11 40.81 W 104 17 12.50	
	9759.00	87.52	92.08	9318.86	542.01	406.79	543.14	7.22	434556.96	555762.19	N 32 11 40.80 W 104 17 12.13	
	9804.00	91.17	91.33	9319.38	586.98	405.46	588.11	8.28	434555.62	555807.16	N 32 11 40.78 W 104 17 11.60	
	9854.00	88.76	92.26	9319.41	636.95	403.89	638.08	5.17	434554.05	555857.12	N 32 11 40.77 W 104 17 11.02	
	9900.00	88.93	91.74	9320.33	682.92	402.29	684.05	1.19	434552.45	555903.08	N 32 11 40.75 W 104 17 10.49	
	9949.00	89.28	92.51	9321.10	731.88	400.47	733.01	1.73	434550.63	555952.04	N 32 11 40.73 W 104 17 9.92	
	10044.00	88.97	92.00	9322.55	826.81	396.73	827.92	0.63	434546.89	556046.94	N 32 11 40.70 W 104 17 8.81	
	10138.00	88.66	92.08	9324.49	920.74	393.39	921.84	0.34	434543.55	556140.86	N 32 11 40.66 W 104 17 7.72	
	10233.00	88.52	91.75	9326.83	1015.67	390.21	1016.76	0.38	434540.38	556235.77	N 32 11 40.63 W 104 17 6.61	
	10328.00	88.49	91.94	9329.31	1110.59	387.15	1111.68	0.20	434537.32	556330.67	N 32 11 40.60 W 104 17 5.51	
	10423.00	89.00	92.19	9331.39	1205.52	383.73	1206.59	0.60	434533.90	556425.58	N 32 11 40.57 W 104 17 4.40	
	10518.00	87.35	91.60	9334.42	1300.42	380.59	1301.49	1.84	434530.76	556520.47	N 32 11 40.53 W 104 17 3.30	
	10612.00	88.76	92.40	9337.61	1394.32	377.31	1395.37	1.72	434527.48	556614.35	N 32 11 40.50 W 104 17 2.21	
	10707.00	88.31	89.94	9340.04	1489.26	375.37	1490.32	2.63	434525.54	556709.28	N 32 11 40.48 W 104 17 1.10	
	10802.00	88.21	90.81	9342.92	1584.22	374.75	1585.27	0.92	434524.92	556804.22	N 32 11 40.48 W 104 17 0.00	
	10897.00	88.52	90.39	9345.63	1679.17	373.76	1680.23	0.55	434523.92	556899.17	N 32 11 40.46 W 104 16 58.89	
	10992.00	87.35	89.55	9349.05	1774.11	373.81	1775.16	1.52	434523.97	556994.10	N 32 11 40.47 W 104 16 57.79	
	11087.00	89.55	91.72	9351.62	1869.06	372.75	1870.11	3.25	434522.92	557089.04	N 32 11 40.45 W 104 16 56.68	
	11182.00	91.44	93.39	9350.80	1963.97	368.52	1965.00	2.65	434518.69	557183.92	N 32 11 40.41 W 104 16 55.58	
	11276.00	90.89	91.59	9348.89	2057.87	364.44	2058.89	2.00	434514.60	557277.80	N 32 11 40.37 W 104 16 54.49	
	11371.00	87.97	90.68	9349.84	2152.84	362.56	2153.86	3.22	434512.72	557372.76	N 32 11 40.35 W 104 16 53.38	
	11466.00	89.90	88.95	9351.60	2247.81	362.86	2248.83	2.73	434513.03	557467.72	N 32 11 40.35 W 104 16 52.28	
	11561.00	89.21	88.07	9352.34	2342.77	365.33	2343.79	1.18	434515.50	557562.68	N 32 11 40.38 W 104 16 51.17	
	11656.00	90.17	87.68	9352.85	2437.69	368.86	2438.73	1.09	434519.02	557657.60	N 32 11 40.41 W 104 16 50.07	
	11751.00	88.45	88.47	9354.00	2532.61	372.05	2533.66	1.99	434522.21	557752.53	N 32 11 40.44 W 104 16 48.96	
	11845.00	88.59	89.24	9356.43	2626.56	373.92	2627.61	0.83	434524.09	557846.47	N 32 11 40.46 W 104 16 47.87	
	11940.00	84.73	91.19	9361.96	2721.37	373.57	2722.43	4.55	434523.74	557941.27	N 32 11 40.46 W 104 16 46.77	
	12035.00	89.48	90.69	9366.76	2816.22	372.02	2817.26	5.03	434522.18	558036.10	N 32 11 40.44 W 104 16 45.66	
	12130.00	89.38	90.65	9367.70	2911.21	370.91	2912.25	0.11	434521.07	558131.08	N 32 11 40.43 W 104 16 44.56	
	12225.00	88.56	90.02	9369.41	3006.19	370.35	3007.24	1.09	434520.52	558226.06	N 32 11 40.42 W 104 16 43.45	
	12320.00	89.93	91.09	9370.66	3101.18	369.43	3102.22	1.83	434519.60	558321.03	N 32 11 40.42 W 104 16 42.35	
	12415.00	90.55	90.69	9370.26	3196.17	367.95	3197.21	0.78	434518.12	558416.01	N 32 11 40.40 W 104 16 41.24	
	12509.00	91.89	92.60	9368.26	3290.11	365.26	3291.14	2.48	434515.42	558509.93	N 32 11 40.37 W 104 16 40.15	
	12540.00	89.76	92.96	9367.82	3321.07	363.75	3322.10	6.97	434513.92	558540.89	N 32 11 40.36 W 104 16 39.79	
	12572.00	90.00	92.20	9367.88	3353.04	362.31	3354.07	2.49	434512.48	558572.85	N 32 11 40.34 W 104 16 39.42	
	12604.00	90.00	91.16	9367.88	3385.03	361.37	3386.05	3.25	434511.54	558604.84	N 32 11 40.33 W 104 16 39.04	
	12635.00	90.14	90.68	9367.85	3416.03	360.88	3417.05	1.61	434511.04	558635.83	N 32 11 40.33 W 104 16 38.68	
	12699.00	90.24	90.86	9367.63	3480.02	360.02	3481.04	0.32	434510.18	558669.82	N 32 11 40.32 W 104 16 37.94	
	12794.00	91.17	88.89	9366.46	3575.01	360.22	3576.03	2.29	434510.39	558794.80	N 32 11 40.32 W 104 16 36.83	

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