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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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DEC 04 2019

Schlumberger

DISTRICT 7 - ARTESIA O.C.D.

Well Reference:

S1, T21S, R32E Lea, NM
N 32.521579 W -103.623968

I, Hossam Elezaby certify that; I am employed by Drilling & Measurements, a division of Schlumberger Technology Corporation; that I did on the day(s) of April 22, 2019 through July 05, 2019, conduct or supervise the taking of the SlimPulse & 3rd Party Corrected surveys from a depth of 498.00 feet to a depth of 18769.00 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 Incorporated for the Length CC 6_7 Federal Com 26H Well (Original Hole) API No. 30-015-45567 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
Hossam Elezaby
FE

Hossam Elezaby

Subscribed and Sworn to before me this 19 day of August (month) 2019 (yr)

My Commission expires:

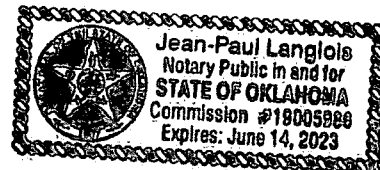
6/14/2023

Notary Public

Jean-Paul Langlois
Comanche, Oklahoma

(County State)

(signature)



Schlumberger

OXY

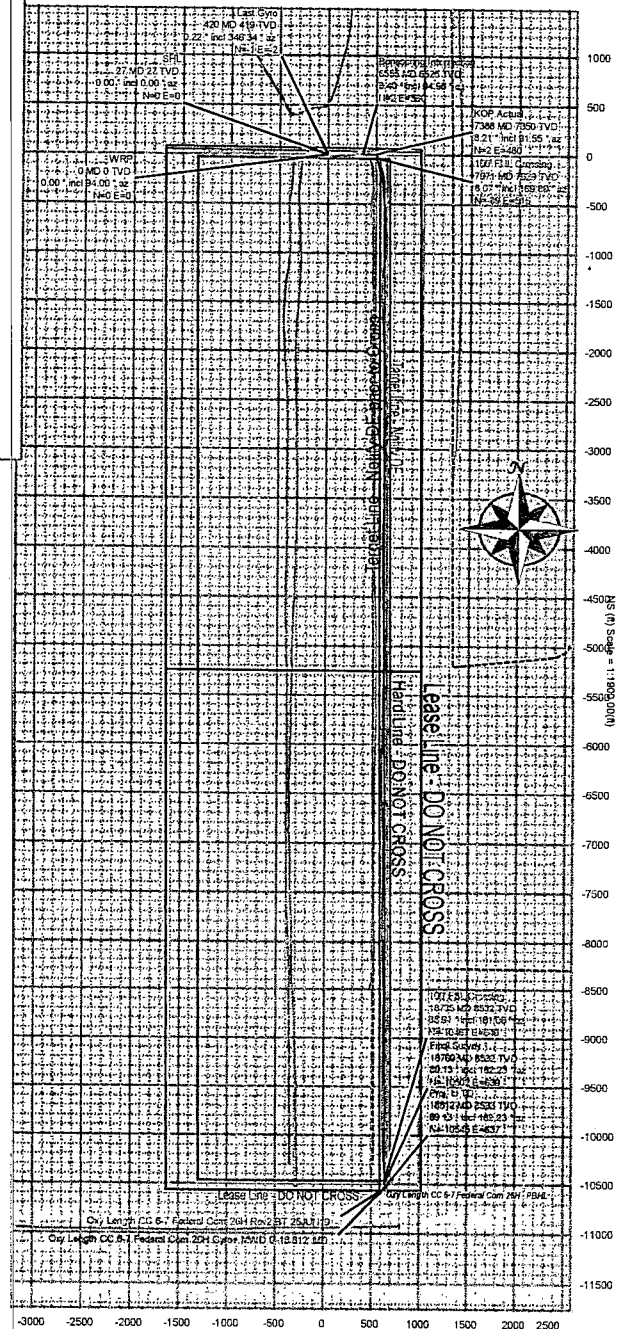
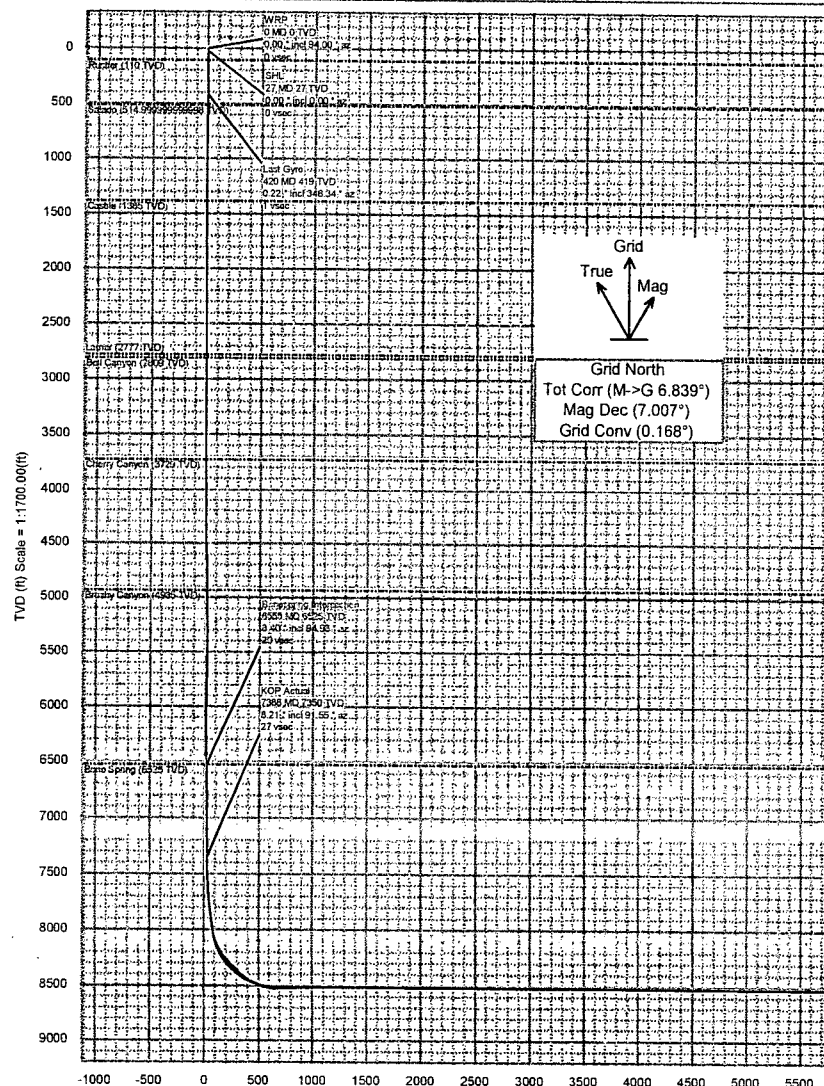


Borehole:	Well:	Field:	Structure:
Original Borehole	Oxy Length CC 6-7 Federal Com 26H	NM Eddy County (NAD 83)	Oxy Length CC 6-7 Federal Com 26H

Gravity & Magnetic Parameters				Surface Location				Miscellaneous			
Model:	IPR1	Dip:	60.015°	Date:	25-Jun-2019	Lat:	N 32 15 14.49	North:	456230.4ftUS	Grid Conv:	0.1881°
MagDec:	7.007°	FS:	47909.2mT	Gravity FS:	998.471mgm (9.80665 Based)	Lon:	W 104 1 6.16	East:	538699.92ftUS	Scale Fact:	0.99991995
								Plan: Oxy Length CC 6-7 Federal Com 26H Gyro+ MWD 0'-18,812' MD			

Critical Points

Critical Point	MD	INCL	AZIM	TVD	VSEC	N(+)/S(-)	E(+)/W(-)	DLS
WRP	0.00	0.00	94.00	0.00	0.00	0.00	0.00	
SHL	26.50	0.00	0.00	26.50	0.00	0.00	0.00	
Last Gyro	419.50	0.22	346.34	419.49	0.50	-0.63	-2.13	0.43
Bonespring Intersection	6554.57	8.40	94.98	6525.00	19.80	2.16	360.50	0.36
KOP Actual	7388.00	8.21	91.55	7349.74	27.40	1.86	480.47	0.46
100' FNL Crossing	7971.29	8.07	169.89	7929.34	70.03	-38.77	514.69	0.27
100' FSL Crossing	18734.58	88.91	181.08	8531.77	10486.95	-10467.40	640.10	3.41
Final Survey	18769.00	89.13	182.23	8532.35	10521.23	-10501.80	639.10	3.41
Proj. to TD	18812.00	89.13	182.23	8533.01	10564.01	-10544.76	637.43	0.00



Vertical Section (ft) Azim = 176.51° Scale = 1:1700.00(ft) Origin = 0N-S, 0E-W

Oxy Length CC 6-7 Federal Com 26H Gyro+ MWD 0'-18,812' MD Survey

Geodetic Report

(Def Survey)



Report Date: July 05, 2019 - 09:43 AM
 Client: OXY
 Field: NM Eddy County (NAD 83)
 Structure / Slot: Oxy Length CC 6-7 Federal Com 26H / Oxy Length CC 6-7 Federal Com 26H
 Well: Oxy Length CC 6-7 Federal Com 26H
 Borehole: Original Borehole
 UWI / API#: H&P639 / 30-015-45567
 Survey Name: Oxy Length CC 6-7 Federal Com 26H Gyro+ MWD 0'-18,812' MD
 Survey Date: April 05, 2019
 Tort / AHD / DDI / ERD Ratio: 294.438' / 11093.804 ft / 6.857' / 1.300
 Coordinate Reference System: NAD83 New Mexico State Plane, Eastern Zone, US Feet
 Location Lat / Long: N 32° 15' 14.49017", W 104° 1' 6.16140"
 Location Grid N/E Y/X: N 456290.400 RUS, E 638699.920 RUS
 CRS Grid Convergence Angle: 0.1681°
 Grid Scale Factor: 0.99991995
 Version / Patch: 2.10.760.0

Survey / DLS Computation: Minimum Curvature / Lubinski
 Vertical Section Azimuth: 176.509° (Grid North)
 Vertical Section Origin: 0.000 ft, 0.000 ft
 TVD Reference Datum: RKB
 TVD Reference Elevation: 2982.100 ft above MSL
 Seabed / Ground Elevation: 2955.600 ft above MSL
 Magnetic Declination: 7.007°
 Total Gravity Field Strength: 998.4714mg (9.80665 Based)
 Gravity Model: GARM
 Total Magnetic Field Strength: 47909.200 nT
 Magnetic Dip Angle: 60.015°
 Declination Date: June 26, 2019
 Magnetic Declination Model: IFR1
 North Reference: Grid North
 Grid Convergence Used: 0.1681°
 Total Corr Mag North→Grid North: 6.8389°
 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 ° ' ")
WRP	0.00	0.00	94.00	0.00	0.00	0.00	0.00	N/A	456290.40	638699.92	N 32 15 14.49 W 104	1 6.16
SHL	26.50	0.00	0.00	26.50	0.00	0.00	0.00	0.00	456290.40	638699.92	N 32 15 14.49 W 104	1 6.16
	99.50	0.27	304.02	99.50	-0.10	0.10	-0.14	0.37	456290.50	638699.78	N 32 15 14.49 W 104	1 6.16
	134.50	0.20	244.16	134.50	-0.13	0.12	-0.27	0.69	456290.52	638699.65	N 32 15 14.49 W 104	1 6.16
	189.50	0.58	241.84	189.50	0.02	-0.06	-0.60	0.69	456290.34	638699.32	N 32 15 14.49 W 104	1 6.17
	246.50	0.70	249.75	246.49	0.24	-0.31	-1.18	0.26	456290.09	638698.74	N 32 15 14.49 W 104	1 6.18
	310.50	0.48	235.30	310.49	0.49	-0.60	-1.77	0.41	456289.80	638698.15	N 32 15 14.48 W 104	1 6.18
	373.50	0.14	284.00	373.49	0.61	-0.73	-2.06	0.64	456289.67	638697.86	N 32 15 14.48 W 104	1 6.19
Last Gyro	419.50	0.22	346.34	419.49	0.50	-0.63	-2.13	0.43	456289.77	638697.79	N 32 15 14.48 W 104	1 6.19
	498.00	1.86	42.60	497.98	-0.53	0.45	-1.31	2.23	456290.85	638698.61	N 32 15 14.49 W 104	1 6.18
	679.00	0.08	74.74	678.94	-2.59	2.65	0.80	0.99	456293.05	638700.72	N 32 15 14.52 W 104	1 6.15
	770.00	0.05	150.44	769.94	-2.57	2.63	0.89	0.09	456293.03	638700.80	N 32 15 14.52 W 104	1 6.15
	890.00	0.03	5.00	889.94	-2.55	2.61	0.91	0.06	456293.01	638700.83	N 32 15 14.52 W 104	1 6.15
	982.00	0.03	2.53	981.94	-2.60	2.66	0.92	0.00	456293.06	638700.84	N 32 15 14.52 W 104	1 6.15
	1165.00	0.03	294.43	1164.94	-2.67	2.73	0.88	0.02	456293.13	638700.80	N 32 15 14.52 W 104	1 6.15
	1348.00	0.05	244.85	1347.94	-2.66	2.72	0.76	0.02	456293.11	638700.68	N 32 15 14.52 W 104	1 6.15
	1530.00	0.08	192.21	1529.94	-2.51	2.56	0.65	0.03	456292.96	638700.58	N 32 15 14.52 W 104	1 6.15
	1620.00	0.47	76.08	1619.94	-2.52	2.58	1.01	0.57	456292.98	638700.93	N 32 15 14.52 W 104	1 6.15
	1715.00	0.06	196.44	1714.94	-2.54	2.63	1.37	0.53	456293.03	638701.29	N 32 15 14.52 W 104	1 6.15
	1809.00	0.06	118.68	1808.94	-2.47	2.56	1.40	0.08	456292.96	638701.32	N 32 15 14.52 W 104	1 6.15
	1998.00	0.12	176.28	1997.94	-2.22	2.31	1.50	0.05	456292.71	638701.42	N 32 15 14.51 W 104	1 6.14
	2093.00	0.18	151.20	2092.94	-1.98	2.08	1.58	0.09	456292.48	638701.50	N 32 15 14.51 W 104	1 6.14
	2187.00	0.15	185.76	2186.94	-1.73	1.83	1.64	0.11	456292.23	638701.56	N 32 15 14.51 W 104	1 6.14
	2282.00	0.09	164.21	2281.94	-1.53	1.64	1.64	0.08	456292.04	638701.56	N 32 15 14.51 W 104	1 6.14
	2377.00	0.12	247.71	2376.94	-1.43	1.53	1.57	0.15	456291.93	638701.49	N 32 15 14.51 W 104	1 6.14
	2566.00	0.10	220.62	2565.94	-1.25	1.33	1.28	0.03	456291.73	638701.20	N 32 15 14.50 W 104	1 6.15
	2661.00	0.06	289.26	2660.94	-1.21	1.28	1.18	0.10	456291.68	638701.10	N 32 15 14.50 W 104	1 6.15
	2755.00	0.03	189.88	2754.94	-1.20	1.27	1.13	0.08	456291.67	638701.05	N 32 15 14.50 W 104	1 6.15
	2944.00	0.05	253.51	2943.94	-1.14	1.20	1.04	0.02	456291.60	638700.96	N 32 15 14.50 W 104	1 6.15
	3039.00	0.03	71.54	3038.94	-1.13	1.20	1.03	0.08	456291.60	638700.95	N 32 15 14.50 W 104	1 6.15
	3227.00	0.05	302.15	3226.94	-1.19	1.26	1.00	0.04	456291.66	638700.92	N 32 15 14.50 W 104	1 6.15
	3417.00	0.02	324.25	3416.94	-1.27	1.33	0.91	0.02	456291.73	638700.83	N 32 15 14.50 W 104	1 6.15
	3511.00	0.05	127.98	3510.94	-1.26	1.32	0.94	0.07	456291.72	638700.83	N 32 15 14.50 W 104	1 6.15
	3606.00	0.87	229.49	3605.93	-0.79	0.82	0.42	0.93	456291.22	638700.34	N 32 15 14.50 W 104	1 6.16
	3701.00	1.34	69.67	3700.93	-0.68	0.74	0.91	2.29	456291.14	638700.33	N 32 15 14.50 W 104	1 6.15
	3890.00	2.44	219.08	3889.88	1.64	-1.62	0.45	1.94	456288.78	638700.37	N 32 15 14.47 W 104	1 6.16
	3984.00	2.23	135.70	3983.82	4.50	-4.48	0.47	3.31	456285.92	638700.39	N 32 15 14.45 W 104	1 6.16
	4079.00	1.75	5.22	4078.80	4.47	-4.36	1.89	3.81	456286.54	638701.81	N 32 15 14.45 W 104	1 6.14
	4173.00	1.24	202.99	4172.79	3.96	-3.87	1.62	3.14	456286.54	638701.54	N 32 15 14.45 W 104	1 6.14
	4363.00	4.49	91.74	4362.60	6.48	-5.98	8.26	2.67	456284.42	638700.18	N 32 15 14.43 W 104	1 6.07
	4457.00	7.09	95.97	4456.11	7.77	-6.70	17.71	2.80	456283.70	638717.63	N 32 15 14.42 W 104	1 5.96
	4552.00	9.67	99.11	4550.09	10.47	-8.57	31.42	2.76	456281.83	638731.34	N 32 15 14.40 W 104	1 5.80
	4646.00	10.74	97.85	4642.60	13.92	-11.02	47.89	1.16	456279.38	638747.81	N 32 15 14.38 W 104	1 5.60
	4741.00	10.66	93.07	4735.95	16.66	-12.70	65.43	0.94	456277.70	638765.35	N 32 15 14.36 W 104	1 5.40
	4930.00	9.82	86.21	4921.94	18.57	-12.57	98.97	0.78	456277.83	638798.88	N 32 15 14.35 W 104	1 5.01
	5024.00	10.08	88.60	5014.53	18.83	-11.84	115.19	0.52	456278.56	638815.11	N 32 15 14.37 W 104	1 4.82
	5119.00	10.12	89.47	5108.06	19.57	-11.56	131.85	-0.17	456278.84	638831.76	N 32 15 14.37 W 104	1 4.63
	5214.00	10.10	90.08	5201.58	20.52	-11.49	148.53	0.11	456278.91	638848.44	N 32 15 14.37 W 104	1 4.43
	5308.00	9.97	89.43	5294.15	21.44	-11.42	164.91	0.18	456278.98	638864.81	N 32 15 14.37 W 104	1 4.24
	5402.00	9.93	85.83	5386.73	21.76	-10.75	181.13	0.66	456279.65	638881.03	N 32 15 14.39 W 104	1 4.05
	5497.00	10.17	82.42	5480.28	21.07	-9.05	197.61	0.68	456281.35	638897.51	N 32 15 14.39 W 104	1 3.86
	5592.00	9.47	81.50	5573.88	19.79	-6.79	213.65	0.76	456283.61	638913.56	N 32 15 14.42 W 104	1 3.67
	5686.00	9.50	81.85	5666.60	18.48	-4.55	228.98	0.07	456285.85	638928.88	N 32 15 14.44 W 104	1 3.50
	5781.00	9.60	82.05	5760.28	17.23	-2.34	244.58	0.11	456288.06	638944.49	N 32 15 14.46 W 104	1 3.31
	5876.00	9.45	81.67	5853.97	15.96	-0.11	260.15	0.17	456290.29	638960.05	N 32 15 14.48 W 104	1 3.13
	5970.00	8.61	80.99	5946.81	14.63	2.11	274.73	0.90	456292.50	638974.63	N 32 15 14.50 W 104	1 2.96
	6159.00	8.46	86.73	6133.72	13.32	5.11	302.58	0.46	456295.51	639002.48	N 32 15 14.53 W 104	1 2.64
	6254.00	8.35	91.23	6227.70	13.92	5.36	316.46	0.70	456295.76	639016.35	N 32 15 14.53 W 104	1 2.48
	6348.00	8.54	93.60	6320.68	15.34	4.78	330.25	0.42	456295.18	639030.14	N 32 15 14.53 W 104	1 2.32
	6443.00	8.45	95.38	6414.64	17.29	3.68	344.24	0.29	456294.08	639044.13	N 32 15 14.52 W 104	1 2.15
	6538.00	8.39	95.38	6508.61	19.43	2.38	358.09	0.06	456292.78	639057.98	N 32 15 14.50 W 104	1 1.99
Bonespring Intersection	6554.57	8.40	94.98	6525.00	19.80	2.16	360.50	0.36	456292.56	639060.39	N 32 15 14.50 W 104	1 1.96
	6727.00	8.55	90.93	6695.55	22.64	0.86	385.86	0.36	456291.26	639085.75	N 32 15 14.49 W 104	1 1.67
	6822.00	8.15	85.86	6789.55	23.11	1.23	399.64	0.88	456291.63	639099.53	N 32 15 14.49 W 104	1 1.51
	6916.00	8.46	86.91	6882.56	23.08	2.08	413.19	0.37	456292.48	639113.08	N 32 15 14.50 W 104	1 1.35
	7105.00	8.21	91.47	7069.57	24.35	2.49	440.57	0.37	456292.89	639140.45	N 32 15 14.50 W 104	1 1.03
	7200.00	7.98	92.65	7163.62	25.64	2.01	453.93	0.30	456292.41	639153.82	N 32 15 14.50 W 104	1 0.88
KOP Actual	7294.00	8.14	88.54	7256.69	26.57	1.87	467.10	0.64	456292.27	639166.99	N 32 15 14.50 W 104	1 0.72
	7388.00	8.21	91.55	7349.74	27.40	1.86	480.47	0.46	456292.26	639180.35	N 32 15 14.49 W 104	1 0.57
	7483.00	6.51	90.39	7443.95	28.36	1.64	492.63	1.80	456292.04	639192.51	N 32 15 14.49 W 104	1 0.42
	7672.00	4.52	145.07	7632.19	35.44	-4.54	507.62	2.84	456285.86	639207.50	N 32 15 14.43 W 104	1 0.25
	7766.00	5.97	171.40	7725.80	43.47	-12.41	510.47	2.95	456277.99	639210.35	N 32 15 14.35 W 104	1 0.22
	7861.00	7.75	171.99	7820.12	54.78	-23.64	512.11	1.88	456266.76	639211.98	N 32 15 14.24 W 104	1 0.20
	7934.00	8.14	169.36	7892.42	64.81	-33.59	513.75	0.73	456256.81	639213.62	N 32 15 14.14 W 104	1 0.18
100' FNL Crossing	7971.29	8.07	169.89	7929.34	70.03	-38.77	514.99	0.27	456251.64	639214.57	N 32 15 14.09 W 104	1 0.17
	80											

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (ft/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")
	8146.00	23.12	158.85	8099.55	105.51	-73.72	524.33	16.27	456216.68	639224.20	N 32 15 13.75 W 104	1 0.06
	8241.00	32.47	157.79	8183.50	147.53	-114.82	540.73	9.86	456175.59	639240.81	N 32 15 13.34 W 104	0.59.87
	8335.00	39.69	164.85	8259.45	200.92	-167.24	558.15	8.85	456123.17	639258.02	N 32 15 12.82 W 104	0.59.67
	8430.00	47.71	169.62	8328.10	265.63	-231.21	572.43	9.12	456059.21	639272.30	N 32 15 12.19 W 104	0.59.50
	8524.00	47.94	175.16	8391.24	335.07	-300.21	581.64	4.37	455890.22	639281.52	N 32 15 11.50 W 104	0.59.40
	8619.00	58.79	175.16	8447.84	411.16	-376.05	588.07	11.42	455914.38	639287.94	N 32 15 10.75 W 104	0.59.33
	8713.00	69.52	176.59	8488.76	495.63	-460.31	594.10	11.50	455830.13	639293.97	N 32 15 9.92 W 104	0.59.26
	8807.00	77.31	177.14	8515.57	585.85	-550.20	599.01	8.31	455740.25	639298.88	N 32 15 9.03 W 104	0.59.21
	8902.00	92.07	175.17	8524.34	679.97	-644.31	605.35	15.67	455646.14	639305.22	N 32 15 8.10 W 104	0.59.13
	8930.00	92.14	175.06	8523.31	707.95	-672.19	607.74	0.47	455618.27	639307.61	N 32 15 7.82 W 104	0.59.11
	9079.00	90.85	178.46	8519.42	856.87	-820.87	616.15	2.44	455469.59	639316.02	N 32 15 6.35 W 104	0.59.01
	9172.00	91.46	182.69	8517.55	949.59	-913.83	615.22	4.59	455376.65	639315.09	N 32 15 5.43 W 104	0.59.03
	9358.00	90.85	190.60	8513.79	1132.51	-1098.39	593.72	4.26	455192.10	639293.59	N 32 15 3.60 W 104	0.58.97
	9545.00	90.30	183.85	8511.91	1316.13	-1283.79	570.21	3.62	455006.71	639270.09	N 32 15 1.77 W 104	0.58.90
	9731.00	90.57	177.74	8510.50	1501.52	-1469.68	567.63	3.29	454820.84	639267.51	N 32 14 59.93 W 104	0.58.60
	9918.00	90.19	175.86	8509.26	1688.50	-1656.38	578.07	1.03	454634.16	639277.95	N 32 14 58.08 W 104	0.58.48
	10104.00	88.51	176.71	8511.37	1874.48	-1841.97	590.12	1.01	454448.59	639289.99	N 32 14 56.25 W 104	0.58.35
	10291.00	90.98	177.76	8512.20	2061.45	-2028.73	599.14	1.44	454261.84	639299.01	N 32 14 54.40 W 104	0.58.25
	10478.00	90.05	175.48	8510.52	2248.42	-2215.38	610.17	1.32	454075.20	639310.04	N 32 14 52.55 W 104	0.58.13
	10571.00	89.54	176.94	8510.85	2341.42	-2308.17	616.31	1.66	453982.41	639316.18	N 32 14 51.63 W 104	0.58.06
	10655.00	89.88	179.40	8511.28	2425.38	-2392.12	619.00	2.96	453898.47	639318.87	N 32 14 50.80 W 104	0.58.04
	10758.00	89.16	179.29	8512.14	2528.25	-2495.11	620.17	0.71	453795.49	639320.04	N 32 14 49.78 W 104	0.58.03
	10851.00	90.16	179.37	8512.69	2621.13	-2588.10	621.26	1.08	453702.51	639321.13	N 32 14 48.86 W 104	0.58.02
	10945.00	89.95	179.53	8512.60	2715.01	-2682.10	622.16	0.28	453608.52	639322.03	N 32 14 47.93 W 104	0.58.01
	11038.00	89.78	178.62	8512.82	2807.91	-2775.09	623.66	1.00	453515.54	639323.53	N 32 14 47.01 W 104	0.58.99
	11131.00	89.68	179.87	8513.26	2900.80	-2868.07	624.89	1.35	453422.56	639324.76	N 32 14 46.09 W 104	0.58.98
	11225.00	89.78	180.94	8513.70	2994.58	-2962.07	624.23	1.14	453328.57	639324.09	N 32 14 45.16 W 104	0.58.99
	11318.00	91.05	183.34	8513.03	3087.12	-3054.99	620.75	2.92	453235.66	639320.62	N 32 14 44.24 W 104	0.59.04
	11411.00	89.99	180.60	8512.19	3179.69	-3147.93	617.56	3.16	453142.73	639317.43	N 32 14 43.32 W 104	0.59.08
	11505.00	90.05	182.54	8512.15	3273.32	-3241.89	614.98	2.06	453048.78	639314.85	N 32 14 42.39 W 104	0.59.11
	11599.00	89.30	181.91	8512.69	3366.85	-3335.81	611.33	1.04	452954.86	639311.20	N 32 14 41.46 W 104	0.59.16
	11788.00	89.88	180.58	8514.04	3555.19	-3524.76	607.23	0.77	452765.93	639307.10	N 32 14 39.59 W 104	0.59.21
	11882.00	89.81	182.50	8514.29	3648.82	-3618.72	604.70	2.04	452671.98	639304.57	N 32 14 38.67 W 104	0.59.24
	12071.00	89.99	182.69	8514.62	3836.76	-3807.52	596.14	0.14	452483.19	639296.01	N 32 14 36.80 W 104	0.59.35
	12260.00	89.16	178.53	8516.02	4025.23	-3996.47	594.13	2.24	452294.26	639294.00	N 32 14 34.93 W 104	0.59.38
	12454.00	89.37	180.11	8518.00	4213.98	-4185.44	596.37	0.87	452105.31	639296.24	N 32 14 33.06 W 104	0.59.36
	12638.00	89.50	179.75	8518.82	4307.81	-4279.43	596.49	0.48	452011.32	639296.36	N 32 14 32.13 W 104	0.59.36
	12732.00	89.61	178.65	8519.75	4402.66	-4374.43	597.03	0.21	451916.33	639296.90	N 32 14 31.19 W 104	0.59.36
	12827.00	89.71	177.02	8520.48	4496.56	-4468.41	598.46	1.02	451822.36	639298.33	N 32 14 30.26 W 104	0.59.35
	12921.00	89.71	178.27	8521.05	4591.53	-4563.34	602.05	1.72	451727.44	639301.92	N 32 14 29.32 W 104	0.59.31
	13016.00	89.02	176.91	8522.58	4685.51	-4657.26	605.91	1.33	451633.53	639305.78	N 32 14 28.39 W 104	0.59.27
	13111.00	89.30	178.91	8523.97	4780.48	-4752.16	609.91	1.61	451538.63	639309.78	N 32 14 27.45 W 104	0.59.22
	13205.00	90.09	176.43	8524.47	4875.47	-4847.01	615.03	0.29	451443.78	639314.90	N 32 14 26.51 W 104	0.59.17
	13299.00	89.92	178.79	8524.46	4969.42	-4940.96	618.03	2.81	451349.85	639317.90	N 32 14 25.58 W 104	0.59.13
	13488.00	90.09	182.53	8524.44	5063.32	-5034.94	619.49	0.70	451255.87	639319.36	N 32 14 24.65 W 104	0.59.12
	13583.00	89.74	182.42	8524.58	5157.18	-5123.89	617.15	2.03	451166.93	639317.02	N 32 14 22.78 W 104	0.59.15
	13677.00	90.57	182.85	8524.33	5251.08	-5197.80	612.96	0.43	450972.03	639312.83	N 32 14 21.84 W 104	0.59.21
	13772.00	89.71	179.66	8524.10	5344.98	-5272.71	608.84	0.99	450878.14	639308.51	N 32 14 20.91 W 104	0.59.26
	13861.00	90.16	182.80	8524.31	5438.88	-5357.67	606.56	3.48	450783.19	639306.43	N 32 14 19.97 W 104	0.59.29
	14056.00	89.92	182.33	8524.25	5532.78	-5442.60	602.51	1.68	450688.24	639303.38	N 32 14 18.10 W 104	0.59.34
	14150.00	89.78	181.48	8524.49	5626.68	-5527.51	598.25	0.56	450593.27	639302.38	N 32 14 17.17 W 104	0.59.39
	14339.00	90.16	181.89	8524.59	5720.58	-5612.44	595.13	0.92	450498.32	639299.00	N 32 14 16.24 W 104	0.59.43
	14434.00	90.74	181.91	8523.85	5814.48	-5697.37	589.57	0.30	450403.37	639295.00	N 32 14 15.31 W 104	0.59.50
	14529.00	90.02	180.13	8523.22	5908.37	-5782.30	586.42	0.61	450308.42	639291.00	N 32 14 14.38 W 104	0.59.54
	14623.00	89.99	179.87	8523.21	6002.26	-5867.23	584.73	2.02	450213.47	639287.00	N 32 14 13.45 W 104	0.59.57
	14718.00	89.88	177.73	8523.31	6096.15	-5952.16	583.04	0.28	450118.52	639283.00	N 32 14 12.52 W 104	0.59.57
	14806.00	89.99	175.83	8523.53	6190.04	-6037.09	581.35	2.26	449923.57	639279.00	N 32 14 11.59 W 104	0.59.55
	15096.00	89.88	177.15	8523.74	6283.93	-6122.02	579.66	1.01	449728.62	639275.00	N 32 14 10.66 W 104	0.59.43
	15285.00	90.02	181.60	8523.91	6377.82	-6206.95	577.97	0.70	449633.67	639271.00	N 32 14 9.73 W 104	0.59.31
	15473.00	90.54	180.05	8522.99	6471.71	-6291.88	576.28	2.36	449538.72	639267.00	N 32 14 8.80 W 104	0.59.29
	15663.00	88.13	180.22	8525.19	6565.60	-6376.81	574.59	0.87	449443.77	639263.00	N 32 14 7.87 W 104	0.59.33
	15757.00	87.65	180.22	8528.66	6659.49	-6461.74	572.90	0.51	449348.82	639259.00	N 32 14 6.94 W 104	0.59.34
	15852.00	89.71	181.20	8530.84	6753.38	-6546.67	571.21	2.40	449253.87	639255.00	N 32 14 5.01 W 104	0.59.35
	15946.00	88.23	181.92	8532.53	6847.27	-6631.60	569.52	0.51	449158.92	639251.00	N 32 14 4.08 W 104	0.59.36
	16041.00	90.40	180.07	8533.67	6941.16	-6716.53	567.83	1.75	449063.97	639247.00	N 32 14 3.15 W 104	0.59.40
	16135.00	90.57	179.65	8532.87	7035.05	-6801.46	566.14	3.00	448969.02	639243.00	N 32 14 2.22 W 104	0.59.42
	16325.00	90.50	178.94	8531.10	7128.94	-6886.39	564.45	0.48	448874.07	639239.00	N 32 14 1.29 W 104	0.59.42
	16514.00	89.95	176.38	8530.36	7222.83	-6971.32	562.76	0.38	448779.12	639235.00	N 32 14 0.36 W 104	0.59.40
	16703.00	90.57	178.06	8529.50	7316.72	-7056.25	561.07	1.39	448684.17	639231.00	N 32 13 59.40 W 104	0.59.36
	16891.00	89.74	181.10	8528.99	7410.61	-7141.18	559.38	0.95	448589.22	639227.00	N 32 13 58.48 W 104	0.59.40
	16986.00	90.60	181.74	8528.71	7504.50	-7226.11	557.69	1.68	448494.27	639223.00	N 32 13 57.54 W 104	0.59.42
	17080.00	90.23	179.35	8528.03	7598.39	-7311.04	556.00	0.48	448399.32	639219.00	N 32 13 56.61 W 104	0.59.42
	17175.00	90.09	179.89	8527.76	7692.28	-7395.97	554.31	0.38	448304.37	639215.00	N 32 13 55.68 W 104	0.59.40
	17269.00	89.88	179.30	8527.79	7786.17	-7480.90	552.62	1.75	448209.42	639211.00	N 32 13 54.75 W 104	0.59.42
	17364.00	90.78	180.74	8527.24	7880.06	-7565.83	550.93	3.00	448114.47	639207.00	N 32 13 53.82 W 104	0.59.40
	17458.00	90.54	180.99	8526.16	7973.95	-7650.76	549.24	0.48	448019.52	639203.00	N 32 13 52.89 W 104	0.59.42
	17648.00	89.71</										