



PHOENIX
TECHNOLOGY SERVICES

May 8, 2018

Oil Conservation Division
State of New Mexico
1625 N. French Drive
Hobbs, New Mexico 88240

Dear District 1 - Hobbs

Re: EOG Resources
Bandit 29 State Com No. 502H
Lea County, NM
API #30-025-44384
Job No. 62644

HOBBS OCD
MAY 14 2018
RECEIVED

Enclosed please find the Survey Data Certification, and the original Plat and one copy of the Survey Report performed on the above referenced well by Phoenix Technology Services, Inc. Other information required by your office is as follows:

Name & Title of Surveyor	Drain Hole Number	Surveyed Depths		Dates Performed		Type of Survey
		From	To	Start	End	
Oscar Velasquez	502H	0	4,805	4/12/18	4/12/18	Gyro

A certified plat on which the bottom hole location is oriented both to the surface location and to the lease lines (or unit lines in case of pooling) is attached to the survey report. If any other information is required, please contact the undersigned at the letterhead address and phone number.

Best Regards,

Brittany Carley

Brittany Carley
Operations Administrator

SURVEY CERTIFICATION FORM

3610 Elkins Road Midland, TX 79705 t:432-684-0057 f: 432-686-7964



PHOENIX
TECHNOLOGY SERVICES

Company: EOG

Job #: 62644

Well Name: Bandit 29 State Com No 502H

County/State: Lea Co., New Mexico

Survey Instrument Type: North Seek Rate Gyro

API # 30-025-44384

TIE-IN DATA

Measure Depth (ft)	Vertical Depth (ft)	Inclination (°)	Azimuth (°)	N-S Coordinates	E-W Coordinates	Data Source
0	0	0	0	0	0	Surface

First Survey

Date	Depth (ft)	Inclination (°)	Azimuth (°)
2018-04-12	0	0	0

Last Survey

Date	Depth (ft)	Inclination (°)	Azimuth (°)
2018-04-12	4805	2.93	126.09

Projected TD Survey

Date	Depth (ft)	Inclination (°)	Azimuth (°)
0	0	0	0

Grid Correction
-0.4

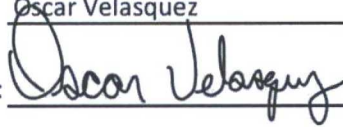
Gyro Operator: Phoenix Technology Services USA Ltd.

Gyro Supervisor: Angel Guebara

To the best of my knowledge I certify this survey data to be correct and true

Date: 2018-04-12

Print Name: Oscar Velasquez

Signature: 



Company: EOG
 Well: Bandit 29 State Com No. 502H
 Location: Lea Co. New Mexico
 Rig: Mast

Job Number: 62644
 Grid Corr.: -0.40
 Lat: 32.19
 Long: -103.59

Date: 04-12-18
 Calculation Method: Minimum Curvature
 Proposed Azimuth: 182.25
 RKB - MSL in feet: Ground Level
 Tie Into: Surface

Survey Tool Type	Survey Depth (ft)	Inclination (deg)	Azimuth (deg)	Course Length (ft)	True Vertical Depth (ft)	Vertical Section (ft)	Coordinates		Closure		Dogleg Severity (d/100')	Build Rate (d/100')	Walk Rate (d/100')
							N/S (ft)	E/W (ft)	Distance (ft)	Angle (deg)			
Enter Tie-In Survey on Line 10													
FIELD COPY, NON-DEFINITIVE													
TIE IN	0			0	0	0	0	0					
Gyro	100.00	0.39	284.18	100	100.00	-0.07	0.08 N	0.33 W	0.34	284.18	0.39	0.39	284.18
	125.00	0.40	285.04	25	125.00	-0.11	0.13 N	0.50 W	0.51	284.33	0.05	0.04	3.44
	150.00	0.40	285.90	25	150.00	-0.15	0.17 N	0.66 W	0.69	284.62	0.02	0.00	3.44
	175.00	0.40	284.90	25	175.00	-0.19	0.22 N	0.83 W	0.86	284.78	0.03	0.00	-4.00
	200.00	0.41	282.16	25	200.00	-0.22	0.26 N	1.00 W	1.04	284.56	0.09	0.04	-10.96
	225.00	0.37	276.51	25	225.00	-0.24	0.29 N	1.17 W	1.21	283.85	0.22	-0.16	-22.60
	250.00	0.27	283.88	25	250.00	-0.26	0.31 N	1.31 W	1.35	283.41	0.43	-0.40	29.48
	275.00	0.25	301.36	25	275.00	-0.30	0.35 N	1.41 W	1.46	284.09	0.33	-0.08	69.92
	300.00	0.27	314.57	25	300.00	-0.37	0.42 N	1.50 W	1.56	285.78	0.25	0.08	52.84
	325.00	0.23	308.20	25	325.00	-0.43	0.50 N	1.58 W	1.66	287.42	0.19	-0.16	-25.48
	350.00	0.24	296.94	25	349.99	-0.49	0.55 N	1.67 W	1.76	288.28	0.19	0.04	-45.04
	375.00	0.18	316.41	25	374.99	-0.53	0.60 N	1.74 W	1.85	289.10	0.37	-0.24	77.88
	400.00	0.10	343.92	25	399.99	-0.58	0.65 N	1.78 W	1.89	290.19	0.41	-0.32	110.04
	425.00	0.13	177.29	25	424.99	-0.58	0.65 N	1.78 W	1.89	289.93	0.91	0.12	-666.52
	450.00	0.39	352.02	25	449.99	-0.63	0.70 N	1.79 W	1.92	291.39	2.08	1.04	698.92
	475.00	0.31	307.97	25	474.99	-0.75	0.83 N	1.86 W	2.03	294.02	1.09	-0.32	-176.20
	500.00	0.16	322.35	25	499.99	-0.82	0.90 N	1.93 W	2.13	294.91	0.64	-0.60	57.52
	525.00	0.23	291.82	25	524.99	-0.86	0.94 N	2.00 W	2.21	295.25	0.49	0.28	-122.12
	550.00	0.29	203.17	25	549.99	-0.82	0.90 N	2.07 W	2.26	293.57	1.46	0.24	-354.60
	575.00	0.43	149.29	25	574.99	-0.68	0.76 N	2.05 W	2.19	290.48	1.40	0.56	-215.52
	600.00	0.14	124.16	25	599.99	-0.59	0.67 N	1.97 W	2.08	288.66	1.24	-1.16	-100.52
	625.00	0.22	159.53	25	624.99	-0.53	0.60 N	1.93 W	2.03	287.38	0.53	0.32	141.48
	650.00	0.57	157.76	25	649.99	-0.37	0.44 N	1.87 W	1.92	283.39	1.40	1.40	-7.08
	675.00	0.30	330.90	25	674.99	-0.31	0.39 N	1.85 W	1.89	281.79	3.47	-1.08	692.56
	700.00	0.45	287.96	25	699.99	-0.40	0.47 N	1.98 W	2.03	283.48	1.23	0.60	-171.76
	725.00	0.39	227.86	25	724.99	-0.36	0.45 N	2.14 W	2.18	281.84	1.70	-0.24	-240.40
	750.00	0.02	168.81	25	749.99	-0.30	0.39 N	2.20 W	2.23	279.97	1.52	-1.48	-236.20
	775.00	0.36	167.88	25	774.99	-0.22	0.31 N	2.18 W	2.20	277.97	1.36	1.36	-3.72
	800.00	0.08	153.47	25	799.99	-0.13	0.21 N	2.16 W	2.17	275.64	1.13	-1.12	-57.64
	825.00	0.11	126.61	25	824.99	-0.10	0.18 N	2.13 W	2.14	274.91	0.21	0.12	-107.44



Company: EOG
 Well: Bandit 29 State Com No. 502H
 Location: Lea Co. New Mexico
 Rig: Mast

Job Number: 62644
 Grid Corr.: -0.40
 Lat: 32.19
 Long: -103.59

Calculation Method: Minimum Curvature
 Proposed Azimuth: 182.25
 RKB - MSL in feet: Ground Level
 Tie Into: Surface

Survey Tool Type	Survey Depth (ft)	Inclination (deg)	Azimuth (deg)	Course Length (ft)	True Vertical Depth (ft)	Vertical Section (ft)	Coordinates		Closure		Dogleg Severity (d/100')	Build Rate (d/100')	Walk Rate (d/100')
							N/S (ft)	E/W (ft)	Distance (ft)	Angle (deg)			
	850.00	0.03	148.99	25	849.99	-0.08	0.16 N	2.11 W	2.11	274.42	0.33	-0.32	89.52
	875.00	0.13	101.95	25	874.99	-0.07	0.15 N	2.08 W	2.08	274.17	0.45	0.40	-188.16
	900.00	0.24	155.90	25	899.99	-0.02	0.10 N	2.03 W	2.03	272.76	0.78	0.44	215.80
	925.00	0.14	122.68	25	924.99	0.04	0.03 N	1.98 W	1.98	270.97	0.58	-0.40	-132.88
	950.00	0.18	145.72	25	949.99	0.09	0.02 S	1.93 W	1.93	269.54	0.30	0.16	92.16
	975.00	0.17	137.31	25	974.99	0.15	0.08 S	1.88 W	1.89	267.72	0.11	-0.04	-33.64
	1000.00	0.22	144.32	25	999.99	0.21	0.14 S	1.83 W	1.84	265.58	0.22	0.20	28.04
	1025.00	0.22	162.92	25	1024.99	0.30	0.23 S	1.79 W	1.80	262.79	0.28	0.00	74.40
	1050.00	0.23	145.59	25	1049.99	0.38	0.31 S	1.75 W	1.77	259.82	0.27	0.04	-69.32
	1075.00	0.14	128.45	25	1074.99	0.44	0.37 S	1.69 W	1.73	257.55	0.42	-0.36	-68.56
	1100.00	0.15	214.60	25	1099.99	0.49	0.42 S	1.69 W	1.74	256.04	0.79	0.04	344.60
	1125.00	0.18	237.05	25	1124.99	0.54	0.47 S	1.74 W	1.80	254.94	0.28	0.12	89.80
	1150.00	0.27	252.40	25	1149.99	0.58	0.51 S	1.83 W	1.90	254.50	0.43	0.36	61.40
	1175.00	0.12	240.04	25	1174.99	0.61	0.54 S	1.91 W	1.98	254.25	0.62	-0.60	-49.44
	1200.00	0.16	272.85	25	1199.99	0.63	0.55 S	1.97 W	2.04	254.38	0.35	0.16	131.24
	1225.00	0.08	252.00	25	1224.99	0.63	0.55 S	2.02 W	2.09	254.66	0.36	-0.32	-83.40
	1250.00	0.19	211.16	25	1249.99	0.67	0.59 S	2.06 W	2.14	253.88	0.56	0.44	-163.36
	1275.00	0.31	319.14	25	1274.99	0.66	0.58 S	2.12 W	2.20	254.74	1.64	0.48	431.92
	1300.00	0.21	330.84	25	1299.99	0.57	0.49 S	2.19 W	2.24	257.44	0.45	-0.40	46.80
	1325.00	0.25	389.53	25	1324.99	0.49	0.40 S	2.18 W	2.22	259.62	0.91	0.16	234.76
	1350.00	0.22	312.41	25	1349.99	0.41	0.32 S	2.19 W	2.21	261.69	1.18	-0.12	-308.48
	1375.00	0.21	338.27	25	1374.99	0.33	0.25 S	2.24 W	2.26	263.77	0.39	-0.04	103.44
	1400.00	0.21	338.68	25	1399.99	0.25	0.16 S	2.28 W	2.28	265.99	0.01	0.00	1.64
	1425.00	0.27	346.71	25	1424.99	0.15	0.06 S	2.31 W	2.31	268.52	0.27	0.24	32.12
	1450.00	0.22	318.60	25	1449.99	0.06	0.03 N	2.35 W	2.35	270.82	0.51	-0.20	-112.44
	1475.00	0.32	278.38	25	1474.99	0.02	0.08 N	2.45 W	2.45	271.86	0.83	0.40	-160.88
	1500.00	0.48	286.22	25	1499.99	-0.02	0.12 N	2.62 W	2.63	272.60	0.67	0.64	31.36
	1525.00	0.43	284.67	25	1524.98	-0.06	0.17 N	2.81 W	2.82	273.50	0.21	-0.20	-6.20
	1550.00	0.48	284.32	25	1549.98	-0.10	0.22 N	3.01 W	3.01	274.22	0.20	0.20	-1.40
	1575.00	0.44	285.56	25	1574.98	-0.15	0.27 N	3.20 W	3.21	274.88	0.16	-0.16	4.96
	1600.00	0.50	287.01	25	1599.98	-0.20	0.33 N	3.40 W	3.41	275.57	0.24	0.24	5.80
	1625.00	0.55	283.32	25	1624.98	-0.25	0.39 N	3.62 W	3.64	276.16	0.24	0.20	-14.76
	1650.00	0.59	287.46	25	1649.98	-0.31	0.46 N	3.86 W	3.89	276.75	0.23	0.16	16.56



Company: EOG
Well: Bandit 29 State Com No. 502H
Location: Lea Co. New Mexico
Rig: Mast

Job Number: 62644
Grid Corr.: -0.40
Lat: 32.19
Long: -103.59

Calculation Method: Minimum Curvature
Proposed Azimuth: 182.25
RKB - MSL in feet: Ground Level
Tie Into: Surface

Survey Tool Type	Survey Depth (ft)	Inclination (deg)	Azimuth (deg)	Course Length (ft)	True Vertical Depth (ft)	Vertical Section (ft)	Coordinates		Closure		Dogleg Severity (d/100')	Build Rate (d/100')	Walk Rate (d/100')
							N/S (ft)	E/W (ft)	Distance (ft)	Angle (deg)			
	1675.00	0.63	292.44	25	1674.98	-0.39	0.55 N	4.11 W	4.14	277.60	0.27	0.16	19.92
	1700.00	0.65	305.94	25	1699.98	-0.51	0.68 N	4.35 W	4.40	278.93	0.61	0.08	54.00
	1725.00	0.55	293.82	25	1724.98	-0.64	0.82 N	4.57 W	4.65	280.11	0.64	-0.40	-48.48
	1750.00	0.75	275.27	25	1749.97	-0.69	0.88 N	4.85 W	4.93	280.28	1.15	0.80	-74.20
	1775.00	0.79	295.46	25	1774.97	-0.76	0.97 N	5.17 W	5.26	280.61	1.09	0.16	80.76
	1800.00	0.83	293.94	25	1799.97	-0.90	1.12 N	5.49 W	5.60	281.49	0.18	0.16	-6.08
	1825.00	0.81	292.45	25	1824.97	-1.03	1.26 N	5.82 W	5.95	282.19	0.12	-0.08	-5.96
	1850.00	0.87	299.77	25	1849.96	-1.18	1.42 N	6.14 W	6.31	283.00	0.49	0.24	29.28
	1875.00	0.96	295.56	25	1874.96	-1.35	1.60 N	6.50 W	6.69	283.86	0.45	0.36	-16.84
	1900.00	0.86	297.02	25	1899.96	-1.51	1.78 N	6.85 W	7.08	284.55	0.41	-0.40	5.84
	1925.00	0.97	299.49	25	1924.95	-1.68	1.97 N	7.20 W	7.47	285.28	0.47	0.44	9.88
	1950.00	1.13	307.30	25	1949.95	-1.92	2.22 N	7.58 W	7.90	286.32	0.86	0.64	31.24
	1975.00	1.05	310.20	25	1974.95	-2.20	2.52 N	7.96 W	8.35	287.57	0.39	-0.32	11.60
	2000.00	1.21	313.12	25	1999.94	-2.52	2.85 N	8.32 W	8.80	288.88	0.68	0.64	11.68
	2025.00	1.28	316.49	25	2024.93	-2.89	3.23 N	8.71 W	9.29	290.35	0.41	0.28	13.48
	2050.00	1.28	315.98	25	2049.93	-3.27	3.63 N	9.09 W	9.79	291.78	0.05	0.00	-2.04
	2075.00	1.39	315.84	25	2074.92	-3.68	4.05 N	9.50 W	10.33	293.10	0.44	0.44	-0.56
	2100.00	1.36	317.97	25	2099.91	-4.10	4.49 N	9.91 W	10.88	294.37	0.24	-0.12	8.52
	2125.00	1.23	302.10	25	2124.91	-4.44	4.85 N	10.34 W	11.42	295.15	1.52	-0.52	-63.48
	2150.00	1.63	317.57	25	2149.90	-4.83	5.26 N	10.80 W	12.01	295.95	2.21	1.60	61.88
	2175.00	1.59	320.08	25	2174.89	-5.34	5.79 N	11.27 W	12.66	297.18	0.32	-0.16	10.04
	2200.00	1.51	321.32	25	2199.88	-5.85	6.31 N	11.69 W	13.29	298.35	0.35	-0.32	4.96
	2225.00	1.61	324.06	25	2224.87	-6.37	6.85 N	12.11 W	13.91	299.50	0.50	0.40	10.96
	2250.00	1.66	322.64	25	2249.86	-6.92	7.42 N	12.53 W	14.57	300.64	0.26	0.20	-5.68
	2275.00	1.55	325.17	25	2274.85	-7.47	7.99 N	12.94 W	15.21	301.68	0.52	-0.44	10.12
	2300.00	1.51	324.44	25	2299.84	-8.00	8.53 N	13.33 W	15.83	302.63	0.18	-0.16	-2.92
	2325.00	1.49	324.86	25	2324.83	-8.52	9.07 N	13.71 W	16.44	303.48	0.09	-0.08	1.68
	2350.00	1.50	322.28	25	2349.83	-9.03	9.59 N	14.10 W	17.05	304.24	0.27	0.04	-10.32
	2375.00	1.65	323.57	25	2374.82	-9.56	10.14 N	14.51 W	17.70	304.95	0.62	0.60	5.16
	2400.00	1.73	325.66	25	2399.81	-10.15	10.74 N	14.94 W	18.40	305.72	0.40	0.32	8.36
	2425.00	1.64	324.35	25	2424.80	-10.73	11.34 N	15.36 W	19.09	306.45	0.39	-0.36	-5.24
	2450.00	1.64	323.61	25	2449.78	-11.29	11.92 N	15.78 W	19.78	307.08	0.08	0.00	-2.96
	2475.00	1.68	325.32	25	2474.77	-11.87	12.51 N	16.20 W	20.47	307.68	0.25	0.16	6.84



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Calculation Method: Minimum Curvature
 Proposed Azimuth: 182.25
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Survey Tool Type	Survey Depth (ft)	Inclination (deg)	Azimuth (deg)	Course Length (ft)	True Vertical Depth (ft)	Vertical Section (ft)	Coordinates		Closure		Dogleg Severity (d/100')	Build Rate (d/100')	Walk Rate (d/100')
							N/S (ft)	E/W (ft)	Distance (ft)	Angle (deg)			
	3325.00	1.60	354.41	25	3324.41	-33.07	34.18 N	27.68 W	43.98	321.00	0.16	0.04	5.56
	3350.00	1.34	356.89	25	3349.40	-33.71	34.82 N	27.73 W	44.51	321.47	1.07	-1.04	9.92
	3375.00	0.99	352.94	25	3374.40	-34.21	35.33 N	27.77 W	44.94	321.83	1.44	-1.40	-15.80
	3400.00	0.53	330.59	25	3399.40	-34.52	35.64 N	27.85 W	45.24	322.00	2.16	-1.84	-89.40
	3425.00	0.37	335.17	25	3424.40	-34.69	35.82 N	27.94 W	45.43	322.04	0.66	-0.64	18.32
	3450.00	0.33	349.83	25	3449.39	-34.84	35.96 N	27.99 W	45.57	322.11	0.39	-0.16	58.64
	3475.00	0.27	338.65	25	3474.39	-34.96	36.09 N	28.02 W	45.69	322.17	0.33	-0.24	-44.72
	3500.00	0.30	331.36	25	3499.39	-35.07	36.20 N	28.08 W	45.81	322.20	0.19	0.12	-29.16
	3525.00	0.33	335.93	25	3524.39	-35.19	36.32 N	28.14 W	45.95	322.24	0.16	0.12	18.28
	3550.00	0.29	354.66	25	3549.39	-35.32	36.45 N	28.17 W	46.07	322.30	0.43	-0.16	74.92
	3575.00	0.31	217.57	25	3574.39	-35.33	36.46 N	28.22 W	46.11	322.26	2.23	0.08	-548.36
	3600.00	0.21	213.44	25	3599.39	-35.23	36.37 N	28.29 W	46.07	322.13	0.41	-0.40	-16.52
	3625.00	0.04	235.61	25	3624.39	-35.19	36.33 N	28.32 W	46.06	322.06	0.69	-0.68	88.68
	3650.00	0.10	216.31	25	3649.39	-35.16	36.30 N	28.34 W	46.06	322.02	0.25	0.24	-77.20
	3675.00	0.16	140.23	25	3674.39	-35.12	36.26 N	28.33 W	46.01	322.00	0.67	0.24	-304.32
	3700.00	0.20	155.67	25	3699.39	-35.05	36.19 N	28.29 W	45.94	321.99	0.25	0.16	61.76
	3725.00	0.29	190.82	25	3724.39	-34.95	36.09 N	28.28 W	45.85	321.92	0.68	0.36	140.60
	3750.00	0.17	188.12	25	3749.39	-34.85	35.99 N	28.30 W	45.79	321.82	0.48	-0.48	-10.80
	3775.00	0.34	178.46	25	3774.39	-34.74	35.88 N	28.30 W	45.70	321.73	0.70	0.68	-38.64
	3800.00	0.44	188.18	25	3799.39	-34.57	35.71 N	28.32 W	45.58	321.59	0.48	0.40	38.88
	3825.00	0.42	214.28	25	3824.39	-34.40	35.54 N	28.38 W	45.48	321.39	0.78	-0.08	104.40
	3850.00	0.52	199.14	25	3849.39	-34.21	35.36 N	28.47 W	45.40	321.16	0.63	0.40	-60.56
	3875.00	0.51	228.18	25	3874.39	-34.03	35.18 N	28.59 W	45.33	320.90	1.03	-0.04	116.16
	3900.00	0.49	214.33	25	3899.39	-33.86	35.01 N	28.73 W	45.29	320.63	0.49	-0.08	-55.40
	3925.00	0.46	211.07	25	3924.39	-33.68	34.84 N	28.84 W	45.23	320.38	0.16	-0.12	-13.04
	3950.00	0.54	195.13	25	3949.39	-33.48	34.64 N	28.93 W	45.13	320.14	0.64	0.32	-63.76
	3975.00	0.54	195.45	25	3974.38	-33.25	34.41 N	28.99 W	45.00	319.89	0.01	0.00	1.28
	4000.00	0.46	234.64	25	3999.38	-33.07	34.24 N	29.10 W	44.94	319.64	1.37	-0.32	156.76
	4025.00	0.57	233.67	25	4024.38	-32.93	34.11 N	29.28 W	44.96	319.35	0.44	0.44	-3.88
	4050.00	0.61	244.18	25	4049.38	-32.79	33.98 N	29.50 W	45.00	319.03	0.46	0.16	42.04
	4075.00	0.66	234.93	25	4074.38	-32.64	33.84 N	29.74 W	45.05	318.69	0.46	0.20	-37.00
	4100.00	0.71	223.51	25	4099.38	-32.44	33.64 N	29.97 W	45.05	318.31	0.58	0.20	-45.68
	4125.00	0.63	195.48	25	4124.38	-32.19	33.40 N	30.11 W	44.97	317.96	1.33	-0.32	-112.12



Company: EOG
 Well: Bandit 29 State Com No. 502H
 Location: Lea Co. New Mexico
 Rig: Mast

Job Number: 62644
 Grid Corr.: -0.40
 Lat: 32.19
 Long: -103.59

Calculation Method: Minimum Curvature
 Proposed Azimuth: 182.25
 RKB - MSL in feet: Ground Level
 Tie Into: Surface

Survey Tool Type	Survey Depth (ft)	Inclination (deg)	Azimuth (deg)	Course Length (ft)	True Vertical Depth (ft)	Vertical Section (ft)	Coordinates		Closure		Dogleg Severity (d/100')	Build Rate (d/100')	Walk Rate (d/100')
	4150.00	0.76	221.43	25	4149.37	-31.93	33.14 N	30.26 W	44.88	317.61	1.35	0.52	103.80
	4175.00	0.78	222.52	25	4174.37	-31.67	32.89 N	30.48 W	44.84	317.18	0.10	0.08	4.36
	4200.00	0.68	230.29	25	4199.37	-31.44	32.67 N	30.71 W	44.84	316.77	0.56	-0.40	31.08
	4225.00	0.69	223.87	25	4224.37	-31.23	32.47 N	30.93 W	44.84	316.39	0.31	0.04	-25.68
	4250.00	0.39	251.90	25	4249.37	-31.09	32.33 N	31.11 W	44.87	316.10	1.57	-1.20	112.12
	4275.00	0.55	206.38	25	4274.37	-30.95	32.20 N	31.25 W	44.87	315.86	1.57	0.64	-182.08
	4300.00	0.58	176.92	25	4299.37	-30.71	31.97 N	31.29 W	44.73	315.61	1.16	0.12	-117.84
	4325.00	0.70	172.03	25	4324.36	-30.44	31.69 N	31.27 W	44.52	315.38	0.53	0.48	-19.56
	4350.00	0.89	155.77	25	4349.36	-30.11	31.36 N	31.17 W	44.21	315.18	1.17	0.76	-65.04
	4375.00	1.14	148.67	25	4374.36	-29.73	30.97 N	30.96 W	43.79	315.01	1.12	1.00	-28.40
	4400.00	1.05	175.26	25	4399.35	-29.30	30.53 N	30.81 W	43.37	314.74	2.04	-0.36	106.36
	4425.00	1.36	143.95	25	4424.35	-28.84	30.06 N	30.61 W	42.91	314.48	2.86	1.24	-125.24
	4450.00	1.39	148.56	25	4449.34	-28.35	29.56 N	30.28 W	42.32	314.31	0.46	0.12	18.44
	4475.00	1.26	145.30	25	4474.33	-27.88	29.08 N	29.97 W	41.76	314.14	0.60	-0.52	-13.04
	4500.00	1.18	148.54	25	4499.33	-27.45	28.63 N	29.68 W	41.24	313.97	0.42	-0.32	12.96
	4525.00	1.34	144.25	25	4524.32	-27.00	28.18 N	29.37 W	40.70	313.81	0.74	0.64	-17.16
	4550.00	1.32	139.82	25	4549.32	-26.56	27.72 N	29.01 W	40.13	313.69	0.42	-0.08	-17.72
	4575.00	1.59	141.09	25	4574.31	-26.08	27.23 N	28.61 W	39.50	313.58	1.09	1.08	5.08
	4600.00	1.71	137.47	25	4599.30	-25.56	26.68 N	28.14 W	38.78	313.48	0.64	0.48	-14.48
	4625.00	1.90	134.04	25	4624.28	-25.02	26.12 N	27.59 W	37.99	313.43	0.87	0.76	-13.72
	4650.00	2.12	133.33	25	4649.27	-24.44	25.52 N	26.96 W	37.12	313.43	0.89	0.88	-2.84
	4675.00	2.26	132.23	25	4674.25	-23.82	24.87 N	26.26 W	36.16	313.44	0.58	0.56	-4.40
	4700.00	2.52	132.64	25	4699.23	-23.14	24.16 N	25.49 W	35.12	313.47	1.04	1.04	1.64
	4725.00	2.70	131.67	25	4724.20	-22.41	23.40 N	24.64 W	33.98	313.52	0.74	0.72	-3.88
	4750.00	2.68	133.14	25	4749.18	-21.66	22.61 N	23.78 W	32.81	313.56	0.29	-0.08	5.88
	4775.00	2.29	135.61	25	4774.15	-20.93	21.85 N	23.00 W	31.73	313.53	1.62	-1.56	9.88
	4800.00	2.58	128.39	25	4799.13	-20.26	21.15 N	22.21 W	30.67	313.59	1.69	1.16	-28.88
	4805.00	2.93	126.09	5	4804.12	-20.12	21.00 N	22.02 W	30.43	313.64	7.34	7.00	-46.00