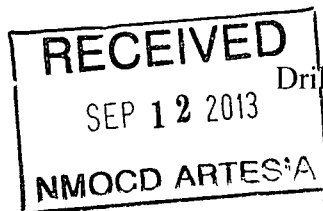


WELL NAME AND NUMBER Ouimet State Com 4H 30-015-4049
LOCATION Section 2, T17S, R29E, Lot H, 2420 FNL, 330 FEL, Eddy County
OPERATOR COG Operating LLC
DRILLING CONTRACTOR United Drilling, Inc.

The undersigned hereby certifies that he is an authorized representative of the drilling contractor who drilled the above described well and had conducted deviation test and obtained the following results:

Degrees @ Depth	Degrees @ Depth	Degrees @ Depth
.5° @ 174'		
1° @ 317'		
.4° @ 609'		
.9° @ 853'		
.7° @ 1100'		
.3° @ 1278'		
.2° @ 1680'		
.2° @ 2161'		
.3° @ 2530'		
.5° @ 2975'		
.5° @ 3419'		
.3° @ 3863'		
.6° @ 4307'		



Drilling Contractor- UNITED DRILLING, INC.

By: *Luis Noriega*
(Luisa Noriega)

Title: Asst. Office Manager

Subscribed and sworn to before me this 8th day of April, 2013.

Carline Marten
Notary Public
Chaves New Mexico
County State

My Commission Expires: 10/8/16



COG Operating, LLC

Eddy County(NM27E)

Sec.2-T17S-R29E

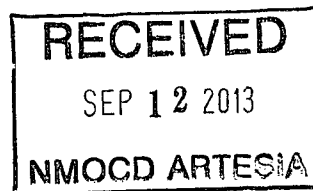
Ouimet State Com #4H

Wellbore #1

Survey: Survey #2-Archer MWD

Standard Survey Report

04 April, 2013



Archer

Company:	COG Operating, LLC	Local Co-ordinate Reference:	Well Ouimet State Com #4H
Project:	Eddy County(NM27E)	TVD Reference:	WELL @ 3677.00usft (Original Well Elev)
Site:	Sec 2-T17S-R29E	MD Reference:	WELL @ 3677.00usft (Original Well Elev)
Well:	Ouimet State Com #4H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM 5000.1 Single User Db

Project:	Eddy County(NM27E)	System Datum:	Mean Sea Level
Map System:	US State Plane 1927 (Exact solution)		
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		

Site:	Sec 2-T17S-R29E				
Site Position:		Northing:	678,180.600 usft	Latitude:	32° 51' 50.585 N
From:	Map	Easting:	590,868.800 usft	Longitude:	104° 2' 14.622 W
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16"	Grid Convergence:	0.16 °

Well: Ouimet State Com #4H					
Well Position	+N/-S	0.00 usft	Northing:	678,180.600 usft	Latitude: 32° 51' 50.585 N
	+E/-W	0.00 usft	Easting:	590,868.800 usft	Longitude: 104° 2' 14.622 W
Position Uncertainty		0.00 usft	Wellhead Elevation:	usft	Ground Level: 3,663.00 usft

Wellbore:	Wellbore #1				
Magnetics:	Model Name	Sample Date	Declination	Dip Angle	Field Strength
			(°)	(°)	(nT)
	IGRF2010	2013/03/25	7.63	60.65	48,770

Design:	Wellbore #1				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD)	+N-S	+E-W	Direction	
	(usft)	(usft)	(usft)	(°)	
	0.00	0.00	0.00	271.73	

Survey Program	Date	2013/04/04			
From	To	Survey (Wellbore)	Tool Name	Description	
(usft)	(usft)				
100.00	4,586.00	Survey #1-VES Gyro (Wellbore #1)	GYD_DP_MS	Gyrodatta gyro-compassing and drop	
4,586.00	9,697.00	Survey #2-Archer MWD (Wellbore #1)	MWD	MWD - Standard	

Survey									
Measured Depth	Inclination	Azimuth	Vertical Depth	+N-S	+E-W	Vertical Section	Dogleg Rate	Build Rate	Turn Rate
(usft)	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(°/100usft)	(°/100usft)	(°/100usft)
Tie-In / VES Survey									
4,586.00	1.10	295.39	4,585.80	5.61	-4.80	4.97	0.00	0.00	0.00
First Archer Survey									
4,721.00	1.60	290.10	4,720.76	6.82	-7.74	7.94	0.38	0.37	-3.92
4,753.00	4.90	273.90	4,752.70	7.06	-9.52	9.73	10.60	10.31	-50.62
4,785.00	8.70	271.20	4,784.47	7.21	-13.31	13.52	11.91	11.87	-8.44
4,817.00	12.40	270.30	4,815.93	7.28	-19.16	19.38	11.57	11.56	-2.81
4,848.00	15.90	271.70	4,845.98	7.42	-26.74	26.95	11.34	11.29	4.52
4,880.00	18.50	274.10	4,876.55	7.91	-36.19	36.41	8.42	8.12	7.50
4,912.00	20.90	274.40	4,908.67	8.71	-46.94	47.18	7.51	7.50	0.94
4,944.00	23.00	274.80	4,936.35	9.68	-58.87	59.13	6.58	6.56	1.25
4,975.00	25.10	275.30	4,964.66	10.79	-71.45	71.74	6.81	6.77	1.61

Company:	COG Operating, LLC	Local Co-ordinate Reference:	Well Ouimet State Com #4H
Project:	Eddy County(NM27E)	TVD Reference:	WELL @ 3677.00usft (Original Well Elev)
Site:	Sec.2-T.17S-R29E	MD Reference:	WELL @ 3677.00usft (Original Well Elev)
Well:	Ouimet State Com #4H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM 5000.1 Single User Db

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
5,007.00	27.20	276.60	4,993.38	12.26	-85.47	85.80	6.80	6.56	4.06
5,039.00	29.60	277.30	5,021.53	14.10	-100.58	100.96	7.57	7.50	2.19
5,071.00	31.90	277.30	5,049.03	16.18	-116.81	117.24	7.19	7.19	0.00
5,102.00	34.10	278.10	5,075.03	18.45	-133.54	134.03	7.23	7.10	2.58
5,134.00	36.70	277.80	5,101.11	21.01	-151.89	152.46	8.14	8.12	-0.94
5,166.00	40.10	277.90	5,126.18	23.72	-171.58	172.22	10.63	10.62	0.31
5,197.00	43.70	277.50	5,149.25	26.50	-192.10	192.81	11.64	11.61	-1.29
5,229.00	46.90	277.00	5,171.76	29.36	-214.66	215.45	10.06	10.00	-1.56
5,261.00	50.90	277.10	5,192.79	32.32	-238.58	239.45	12.50	12.50	0.31
5,293.00	54.90	278.40	5,212.09	35.77	-263.87	264.83	12.91	12.50	4.06
5,324.00	57.80	279.90	5,229.27	39.88	-289.34	290.41	10.18	9.35	4.84
5,356.00	61.40	281.10	5,245.46	44.91	-316.47	317.68	11.71	11.25	3.75
5,388.00	64.80	282.10	5,259.93	50.65	-344.42	345.79	10.98	10.62	3.12
5,419.00	67.30	283.70	5,272.52	56.98	-372.03	373.58	9.34	8.06	5.16
5,451.00	70.70	285.20	5,283.98	64.44	-400.95	402.72	11.49	10.62	4.69
5,483.00	74.10	285.90	5,293.66	72.62	-430.33	432.33	10.83	10.62	2.19
5,515.00	77.70	286.80	5,301.45	81.35	-460.11	462.36	11.58	11.25	2.81
5,546.00	81.10	287.70	5,307.15	90.39	-489.21	491.71	11.33	10.97	2.90
5,578.00	84.40	288.60	5,311.19	100.28	-519.37	522.16	10.68	10.31	2.81
5,610.00	87.90	288.20	5,313.34	110.35	-549.66	552.74	11.01	10.94	-1.25
5,642.00	90.30	287.30	5,313.84	120.11	-580.13	583.49	8.01	7.50	-2.81
5,706.00	90.50	285.50	5,313.40	138.18	-641.52	645.40	2.83	0.31	-2.81
5,801.00	89.40	281.20	5,313.48	160.11	-733.93	738.43	4.67	-1.16	-4.53
5,896.00	89.50	276.90	5,314.39	175.05	-827.72	832.63	4.53	0.11	-4.53
5,991.00	91.10	273.20	5,313.89	183.41	-922.33	927.45	4.24	1.68	-3.89
6,086.00	92.00	269.20	5,311.32	185.39	-1,017.25	1,022.39	4.31	0.95	-4.21
6,181.00	92.50	268.90	5,307.59	183.82	-1,112.17	1,117.21	0.61	0.53	-0.32
6,276.00	92.50	268.40	5,303.45	181.59	-1,207.05	1,211.98	0.53	0.00	-0.53
6,371.00	92.40	268.20	5,299.39	178.77	-1,301.92	1,306.73	0.24	-0.11	-0.21
6,467.00	93.10	267.60	5,294.78	175.26	-1,397.75	1,402.40	0.96	0.73	-0.62
6,562.00	92.70	267.80	5,289.98	171.45	-1,492.55	1,497.04	0.47	-0.42	0.21
6,657.00	91.30	268.30	5,286.66	168.22	-1,587.43	1,591.79	1.56	-1.47	0.53
6,752.00	92.10	268.30	5,283.84	165.40	-1,682.35	1,686.57	0.84	0.84	0.00
6,847.00	91.60	269.40	5,280.78	163.50	-1,777.28	1,781.40	1.27	-0.53	1.16
6,943.00	90.20	270.40	5,279.27	163.33	-1,873.26	1,877.34	1.79	-1.46	1.04
7,038.00	91.10	270.40	5,278.19	163.99	-1,968.25	1,972.31	0.95	0.95	0.00
7,133.00	90.20	270.10	5,277.11	164.41	-2,063.24	2,067.27	1.00	-0.95	-0.32
7,228.00	90.80	269.90	5,276.28	164.41	-2,158.24	2,162.22	0.67	0.63	-0.21
7,323.00	91.80	270.50	5,274.13	164.74	-2,253.21	2,257.16	1.23	1.05	0.63
7,418.00	91.00	270.10	5,271.81	165.23	-2,348.18	2,352.10	0.94	-0.84	-0.42
7,513.00	92.10	270.40	5,269.24	165.65	-2,443.14	2,447.03	1.20	1.16	0.32
7,608.00	90.80	270.50	5,266.83	166.39	-2,538.11	2,541.98	1.37	-1.37	0.11
7,703.00	91.50	271.00	5,264.93	167.64	-2,633.08	2,636.94	0.91	0.74	0.53
7,798.00	90.20	269.20	5,263.52	167.80	-2,728.06	2,731.89	2.34	-1.37	-1.89
7,894.00	91.00	269.20	5,262.51	166.46	-2,824.05	2,827.79	0.83	0.83	0.00
7,989.00	92.00	269.30	5,260.03	165.22	-2,919.01	2,922.67	1.06	1.05	0.11
8,084.00	90.80	268.90	5,257.70	163.73	-3,013.97	3,017.54	1.33	-1.26	-0.42
8,179.00	89.50	269.00	5,257.46	161.99	-3,108.95	3,112.42	1.37	-1.37	0.11
8,274.00	90.50	268.80	5,257.46	160.16	-3,203.93	3,207.30	1.07	1.05	-0.21
8,369.00	90.30	268.30	5,256.79	157.76	-3,298.90	3,302.15	0.57	-0.21	-0.53
8,465.00	91.40	268.40	5,255.37	155.00	-3,394.84	3,397.98	1.15	1.15	0.10
8,560.00	91.10	269.30	5,253.30	153.09	-3,489.80	3,492.83	1.00	-0.32	0.95
8,655.00	91.30	269.00	5,251.31	151.68	-3,584.77	3,587.71	0.38	0.21	-0.32
8,750.00	91.40	269.10	5,249.07	150.11	-3,679.73	3,682.58	0.15	0.11	0.11

Company:	COG Operating, LLC	Local Co-ordinate Reference:	Well Ouimet State Com #4H
Project:	Eddy County(NM27E)	TVD Reference:	WELL @ 3677.00usft (Original Well Elev)
Site:	Sec.2-T17S-R29E	MD Reference:	WELL @ 3677.00usft (Original Well Elev)
Well:	Ouimet State Com #4H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM 5000.1 Single User Db

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
8,845.00	91.00	268.80	5,247.08	148.37	-3,774.69	3,777.45	0.53	-0.42	-0.32
8,940.00	91.70	268.40	5,244.84	146.05	-3,869.64	3,872.28	0.85	0.74	-0.42
9,035.00	90.20	268.90	5,243.27	143.81	-3,964.59	3,967.13	1.66	-1.58	0.53
9,130.00	90.30	268.60	5,242.85	141.73	-4,059.57	4,062.00	0.33	0.11	-0.32
9,225.00	91.10	268.70	5,241.69	139.50	-4,154.54	4,156.85	0.85	0.84	0.11
9,321.00	91.10	268.80	5,239.85	137.40	-4,250.50	4,252.71	0.10	0.00	0.10
9,416.00	91.80	268.60	5,237.44	135.25	-4,345.44	4,347.54	0.77	0.74	-0.21
9,511.00	92.10	269.50	5,234.21	133.67	-4,440.37	4,442.38	1.00	0.32	0.95
9,606.00	91.90	269.60	5,230.90	132.93	-4,535.31	4,537.26	0.24	-0.21	0.11
Last Archer Survey									
9,633.00	91.90	269.60	5,230.00	132.74	-4,562.30	4,564.22	0.00	0.00	0.00
PTB									
9,697.00	91.90	269.60	5,227.88	132.29	-4,626.26	4,628.14	0.00	0.00	0.00

Survey Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
4,586.00	4,585.80	5.61	-4.80	Tie-In / VES Survey
4,721.00	4,720.76	6.82	-7.74	First Archer Survey
9,633.00	5,230.00	132.74	-4,562.30	Last Archer Survey
9,697.00	5,227.88	132.29	-4,626.26	PTB

Checked By: _____ Approved By: _____ Date: _____



Archer Directional Drilling Services.
12101 Cutten Road
Houston, Texas 77066
Tel: 281-301-2600
Fax: 281-301-2795

COG Operating, LLC
One Concho Center
600 W. Illinois Avenue
Midland, Texas 79701

April 5, 2013

Re: COG Operating, LLC
Ouimet State Com #4H
Field: Grayburg Jackson
Rig: United 40
Eddy County, New Mexico
API # 30-015-40419

Enclosed please find the original of the surveys performed on the referenced well by Archer Directional Drilling Services. Other information required by your office is as follows:

<u>Name & Title Of Surveyor</u>	<u>Wellhole Number</u>	<u>Survey Depths</u>	<u>Dates Performed</u>	<u>Type Survey</u>
Justin Warnack Field Engineer	Original Hole	4721-9697	03/25/13-04/03/13	MWD

If additional information is required, please contact the undersigned at the letterhead address and phone number.

Amador Baggerly
MWD Coordinator



Archer Directional Drilling Services.
12101 Cutten Road
Houston, Texas 77066
Tel: 281-301-2600
Fax: 281-301-2795

MWD Survey Certification

State of New Mexico
County of Eddy

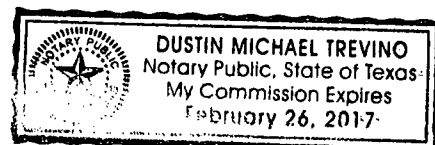
I, Amador Baggerly, certify that; I am employed by Archer Directional Drilling Services; that I did on the day(s) of 03/25/13 through 04/03/13, conduct or supervise the taking of MWD surveys from a depth of 4721 feet to a depth of 9697 feet; that the data is true, correct, complete and within the limitations of the tool as set forth by Archer Directional Drilling Services; that I am authorized and qualified to make this report; that these surveys were conducted at the request of COG Operating, LLC for the Ouimet State Com #4H (API # 30-015-40419), Well located in Eddy County, New Mexico; and that I have reviewed this report and find that it conforms to the principles and procedures as set forth by Archer Directional Drilling Services

Amador Baggerly
MWD Coordinator

State of Texas
County of Harris

Before me, a notary public, on this day personally appeared Amador Baggerly on this 5 day of April, 2013, known to me to be the person whose name is subscribed to the foregoing document and, being by me first duly sworn, declared that the statement therein contained are true and correct.

Notary Public's Signature





Company: COG Operating, LLC

Job Number: 04153-433-22

Calculation Method

Minimum Curvature

Well: Ouimet State Com #4H

Mag Decl.: 7.48

Proposed Azimuth

271.7

Location: Eddy County, New Mexico

Dir Driller: Cody Styles

Depth Reference

KBG

Rig: UDI 40

MWD Eng:

Justin Warnack

Tie Into: Gyro Survey

Job Date: 03/25/13 - 04/03/13

Survey Number	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)	Direction Azimuth			
Tie In	4586.00	1.1	295.39	0	4585.8	4.97	5.61 N	4.80 W	0.00	0.00	0	0	0
1	4721	1.6	290.1	135	4720.76	7.94	6.81 N	7.74 W	10.31	311.35	0.38	0.37	-3.92
2	4753	4.9	273.9	32	4752.71	9.73	7.06 N	9.52 W	11.86	306.55	10.60	10.31	-50.63
3	4785	8.7	271.2	32	4784.48	13.52	7.20 N	13.31 W	15.13	298.43	11.91	11.88	-8.44
4	4817	12.4	270.3	32	4815.93	19.38	7.27 N	19.17 W	20.50	290.78	11.57	11.56	-2.81
5	4848	15.9	271.7	31	4845.98	26.95	7.42 N	26.74 W	27.75	285.50	11.34	11.29	4.52
6	4880	18.5	274.1	32	4876.55	36.41	7.91 N	36.19 W	37.04	282.33	8.42	8.13	7.50
7	4912	20.9	274.4	32	4906.68	47.19	8.71 N	46.94 W	47.75	280.51	7.51	7.50	0.94
8	4944	23.0	274.8	32	4936.35	59.13	9.67 N	58.87 W	59.66	279.33	6.58	6.56	1.25
9	4975	25.1	275.3	31	4964.66	71.74	10.79 N	71.45 W	72.26	278.58	6.81	6.77	1.61
10	5007	27.2	276.6	32	4993.39	85.81	12.25 N	85.48 W	86.35	278.16	6.80	6.56	4.06
11	5039	29.6	277.3	32	5021.53	100.96	14.10 N	100.58 W	101.56	277.98	7.57	7.50	2.19
12	5071	31.9	277.3	32	5049.03	117.24	16.18 N	116.81 W	117.92	277.88	7.19	7.19	0.00
13	5102	34.1	278.1	31	5075.03	134.04	18.44 N	133.54 W	134.81	277.86	7.23	7.10	2.58
14	5134	36.7	277.8	32	5101.11	152.46	21.00 N	151.90 W	153.34	277.87	8.14	8.13	-0.94
15	5166	40.1	277.9	32	5126.18	172.22	23.72 N	171.58 W	173.22	277.87	10.63	10.63	0.31
16	5197	43.7	277.5	31	5149.25	192.81	26.49 N	192.10 W	193.91	277.85	11.64	11.61	-1.29
17	5229	46.9	277.0	32	5171.76	215.45	29.36 N	214.66 W	216.66	277.79	10.06	10.00	-1.56
18	5261	50.9	277.1	32	5192.79	239.45	32.32 N	238.58 W	240.76	277.71	12.50	12.50	0.31
19	5293	54.9	278.4	32	5212.09	264.83	35.77 N	263.87 W	266.28	277.72	12.91	12.50	4.06
20	5324	57.8	279.9	31	5229.27	290.41	39.87 N	289.34 W	292.07	277.85	10.18	9.35	4.84
21	5356	61.4	281.1	32	5245.46	317.68	44.91 N	316.47 W	319.64	278.08	11.71	11.25	3.75
22	5388	64.8	282.1	32	5259.93	345.79	50.65 N	344.42 W	348.13	278.37	10.98	10.63	3.13
23	5419	67.3	283.7	31	5272.52	373.58	56.98 N	372.03 W	376.37	278.71	9.34	8.06	5.16
24	5451	70.7	285.2	32	5283.99	402.72	64.44 N	400.96 W	406.10	279.13	11.49	10.63	4.69
25	5483	74.1	285.9	32	5293.66	432.33	72.61 N	430.34 W	436.42	279.58	10.83	10.63	2.19
26	5515	77.7	286.8	32	5301.45	462.36	81.35 N	460.11 W	467.25	280.03	11.58	11.25	2.81
27	5546	81.1	287.7	31	5307.16	491.71	90.39 N	489.21 W	497.49	280.47	11.33	10.97	2.90
28	5578	84.4	288.6	32	5311.19	522.16	100.27 N	519.37 W	528.96	280.93	10.68	10.31	2.81
29	5610	87.9	288.2	32	5313.34	552.74	110.35 N	549.66 W	560.63	281.35	11.01	10.94	-1.25
30	5642	90.3	287.3	32	5313.85	583.49	120.10 N	580.13 W	592.43	281.70	8.01	7.50	-2.81
31	5706	90.5	285.5	64	5313.40	645.40	138.17 N	641.52 W	656.23	282.15	2.83	0.31	-2.81
32	5801	89.4	281.2	95	5313.48	738.43	160.10 N	733.93 W	751.19	282.31	4.67	-1.16	-4.53
33	5896	89.5	276.9	95	5314.39	832.63	175.04 N	827.72 W	846.03	281.94	4.53	0.11	-4.53
34	5991	91.1	273.2	95	5313.90	927.45	183.40 N	922.33 W	940.39	281.25	4.24	1.68	-3.89
35	6086	92.0	269.2	95	5311.33	1022.39	185.39 N	1017.26 W	1034.01	280.33	4.31	0.95	-4.21
36	6181	92.5	268.9	95	5307.60	1117.21	183.82 N	1112.17 W	1127.26	279.38	0.61	0.53	-0.32



Company: COG Operating, LLC

Job Number: 04153-433-22

Calculation Method

Minimum Curvature

Well: Ouimet State Com #4H

Mag Decl.: 7.48

Proposed Azimuth

271.7

Location: Eddy County, New Mexico

Dir Driller: Cody Styles

Depth Reference

KBG

Rig: UDI 40

MWD Eng: Justin Warnack

Tie Into: Gyro Survey

Job Date: 03/25/13 - 04/03/13

Survey Number	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)	Direction Azimuth			
37	6276	92.5	268.4	95	5303.45	1211.98	181.58 N	1207.05 W	1220.63	278.56	0.53	0.00	-0.53
38	6371	92.4	268.2	95	5299.39	1306.73	178.76 N	1301.92 W	1314.14	277.82	0.24	-0.11	-0.21
39	6467	93.1	267.6	96	5294.78	1402.40	175.25 N	1397.75 W	1408.69	277.15	0.96	0.73	-0.62
40	6562	92.7	267.8	95	5289.98	1497.04	171.44 N	1492.55 W	1502.36	276.55	0.47	-0.42	0.21
41	6657	91.3	268.3	95	5286.66	1591.79	168.21 N	1587.43 W	1596.32	276.05	1.56	-1.47	0.53
42	6752	92.1	268.3	95	5283.84	1686.58	165.40 N	1682.35 W	1690.46	275.61	0.84	0.84	0.00
43	6847	91.6	269.4	95	5280.78	1781.40	163.49 N	1777.28 W	1784.78	275.26	1.27	-0.53	1.16
44	6943	90.2	270.4	96	5279.27	1877.34	163.32 N	1873.26 W	1880.37	274.98	1.79	-1.46	1.04
45	7038	91.1	270.4	95	5278.19	1972.31	163.99 N	1968.25 W	1975.07	274.76	0.95	0.95	0.00
46	7133	90.2	270.1	95	5277.11	2067.27	164.40 N	2063.25 W	2069.78	274.56	1.00	-0.95	-0.32
47	7228	90.8	269.9	95	5276.29	2162.22	164.40 N	2158.24 W	2164.49	274.36	0.67	0.63	-0.21
48	7323	91.8	270.5	95	5274.13	2257.16	164.73 N	2253.21 W	2259.23	274.18	1.23	1.05	0.63
49	7418	91.0	270.1	95	5271.81	2352.10	165.23 N	2348.18 W	2353.99	274.02	0.94	-0.84	-0.42
50	7513	92.1	270.4	95	5269.24	2447.03	165.64 N	2443.15 W	2448.76	273.88	1.20	1.16	0.32
51	7608	90.8	270.5	95	5266.84	2541.98	166.39 N	2538.11 W	2543.56	273.75	1.37	-1.37	0.11
52	7703	91.5	271.0	95	5264.93	2636.94	167.63 N	2633.08 W	2638.41	273.64	0.91	0.74	0.53
53	7798	90.2	269.2	95	5263.52	2731.89	167.80 N	2728.07 W	2733.22	273.52	2.34	-1.37	-1.89
54	7894	91.0	269.2	96	5262.51	2827.79	166.46 N	2824.05 W	2828.95	273.37	0.83	0.83	0.00
55	7989	92.0	269.3	95	5260.03	2922.67	165.22 N	2919.01 W	2923.68	273.24	1.06	1.05	0.11
56	8084	90.8	268.9	95	5257.71	3017.54	163.72 N	3013.97 W	3018.41	273.11	1.33	-1.26	-0.42
57	8179	89.5	269.0	95	5257.46	3112.42	161.98 N	3108.95 W	3113.17	272.98	1.37	-1.37	0.11
58	8274	90.5	268.8	95	5257.46	3207.30	160.16 N	3203.93 W	3207.93	272.86	1.07	1.05	-0.21
59	8369	90.3	268.3	95	5256.79	3302.16	157.75 N	3298.90 W	3302.67	272.74	0.57	-0.21	-0.53
60	8465	91.4	268.4	96	5255.37	3397.98	154.99 N	3394.85 W	3398.38	272.61	1.15	1.15	0.10
61	8560	91.1	269.3	95	5253.30	3492.83	153.08 N	3489.80 W	3493.16	272.51	1.00	-0.32	0.95
62	8655	91.3	269.0	95	5251.31	3587.72	151.68 N	3584.77 W	3587.98	272.42	0.38	0.21	-0.32
63	8750	91.4	269.1	95	5249.07	3682.59	150.10 N	3679.73 W	3682.79	272.34	0.15	0.11	0.11
64	8845	91.0	268.8	95	5247.08	3777.45	148.36 N	3774.69 W	3777.61	272.25	0.53	-0.42	-0.32
65	8940	91.7	268.4	95	5244.84	3872.28	146.04 N	3869.64 W	3872.39	272.16	0.85	0.74	-0.42
66	9035	90.2	268.9	95	5243.27	3967.13	143.80 N	3964.60 W	3967.20	272.08	1.66	-1.58	0.53
67	9130	90.3	268.6	95	5242.85	4062.00	141.73 N	4059.57 W	4062.05	272.00	0.33	0.11	-0.32
68	9225	91.1	268.7	95	5241.69	4156.86	139.49 N	4154.54 W	4156.88	271.92	0.85	0.84	0.11
69	9321	91.1	268.8	96	5239.85	4252.71	137.40 N	4250.50 W	4252.72	271.85	0.10	0.00	0.10
70	9416	91.8	268.6	95	5237.45	4347.54	135.24 N	4345.44 W	4347.55	271.78	0.77	0.74	-0.21
71	9511	92.1	269.5	95	5234.21	4442.38	133.67 N	4440.37 W	4442.38	271.72	1.00	0.32	0.95
72	9606	91.9	269.6	95	5230.90	4537.26	132.92 N	4535.31 W	4537.26	271.68	0.24	-0.21	0.11
73	9633	91.9	269.6	27	5230.00	4564.22	132.74 N	4562.30 W	4564.23	271.67	0.00	0.00	0.00
Proj.	9697	91.9	269.6	64	5227.88	4628.14	132.29 N	4626.26 W	4628.15	271.64	0.00	0.00	0.00