

Results of Directional Survey

API number:	30-025-41609		
OGRID:		Operator:	CIMAREX ENERGY CO.
		Property:	WHITHERSPOON 23 STATE # 4H

surface	ULSTR:	A	23	T 21S	R 33E
				330 FNL	660 FEL

BH Loc	ULSTR:	P	23	T 21S	R 33E
13438	MD	9632.5	TVD	1108 FSL	794 FEL
				4172 FNL	

Top Perf/OH	ULSTR:	A	23	T 21S	R 33E
9415	MD	9378.0	TVD	344 FNL	497 FEL

Bot Perf/OH	ULSTR:	P	23	T 21S	R 33E
13400	MD	9632.1	TVD	1140 FSL	773 FEL
				4140 FNL	

	MD	N/S	E/W	VD
	9402	-6.99	157.02	9368.35
TOP PERFS/OH	9415	-13.52	162.70	9378.04
	9433	-22.57	170.57	9391.46
	13381	-3794.39	-102.15	9631.88
BOT PERFS/OH	13400	-3810.10	-112.83	9632.08
	13438	-3841.53	-134.19	9632.49

NEXT TO LAST	13381	-3794.39	-102.15	9631.88
LAST READING	13438	-3841.53	-134.19	9632.49
TD	13438	-3841.53	-134.19	9632.49

Surface Location	330	FN	660	FE
Projected BHL	4172	FN	794	FE
Location of				
Top Perfs/OH	344	FN	497	FE
Bottom Perfs/OH	4140	FN	773	FE

SUMMARY of Subsurface Locations

Surface Location	A-23-21S-33E	330	FN	660	FE	Vert. Depth
Top Perfs/OH	A-23-21S-33E	344	FN	497	FE	9378.04
Bottom Perfs/OH	P-23-21S-33E	4140	FN	773	FE	9632.08
Projected TD	P-23-21S-33E	4172	FN	794	FE	9632.49

JUL 16 2014

Reservoir Development

PathFinder, a Schlumberger Company
9200 West Reno Avenue
Oklahoma City, Oklahoma 73127 USA
Phone: (405) 789-1515
Fax: (405) 789-1519



July 2, 2014

Cimarex
600 N MARIENFELD STREET SUITE 600
MIDLAND, TX 79701

HOBBS OCD
JUL 14 2014
RECEIVED

Re:

CLIENT: Cimarex Energy Co.
WELL: Witherspoon 23 State 4H ST01
FIELD: Berry; Bone Spring, North
RIG: NorAm 26
COUNTY: Lea
API NO: 30-025-41609-01
JOB NO: 14MLD0049

Sec 23, T21S, R33E Lea NM
N 32.47063 W 103.53682

Enclosed, please find the original copy of the survey performed on the referenced well by PathFinder, a division of Schlumberger Technology Corporation.

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>
Jesse White MWD	Witherspoon 23 State 4H ST01 Side Track	9213.00 Ft to 13381.00 Ft	March 15, 2014 to April 15, 2014	SlimPulse

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

Joseph Hogan
Field Service Manager

HOBBS OCD

JUL 14 2014

RECEIVED

PATHFINDER
A Schlumberger Company

Reservoir Development

PathFinder, a Schlumberger Company
9200 West Reno Avenue
Oklahoma City, Oklahoma 73127 USA
Phone: (405) 789-1515
Fax: (405) 789-1519

Well Reference:

Sec 23, T21S, R33E Lea NM
N 32.47063 W 103.53682

I, Jesse White certify that; I am employed by PathFinder, a division of Schlumberger Technology Corporation; that I did on the day(s) of March 15, 2014 through April 15, 2014, conduct or supervise the taking of the SlimPulse surveys from a depth of 9213.00 feet to a depth of 13381.00 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 Witherspoon 23 State 4H ST01 Well (Side Track) API No. 30-025-41609-01 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.

SIGNED ON BEHALF OF JESSE WHITE BY JOE HOGAN.

By
Jesse White
MWD

Subscribed and Sworn to before me this 2nd day of July (month) 2014 (yr)

My Commission expires:

September 5, 2016



Michelle Ellwood

Notary Public

Midland, Texas
(County State)

(signature)

SCHLUMBERGER

Survey Report

7-Jul-2014

Client.....: Cimarex Energy Co.
Field.....: Berry, Bone Spring, North
Well.....: Witherspoon 23 State 4H STD1
API number.....: JO-026-41609-01
Engineer.....: Jesse White
County.....: Lea
State.....: New Mexico
Rig.....: Noram 26
Spud date.....: 19-Feb-14
Last survey date.....: 15-Apr-14
Total accepted surveys.....: 72
MD of first survey.....: 9213.00 ft
MD of last survey.....: 13381.00 ft
Latitude.....: 32° 28' 14.264" N
Longitude.....: 103° 32' 12.569" W

--- Survey calculation methods ---
Method for positions.....: Minimum curvature
Method for DLS.....: Lubinski
--- Depth reference ---
Permanent datum.....: MSL
Depth reference.....: Driller's Depth
GL above permanent.....: 3783.00
KS above permanent.....: 3805.00
DF above permanent.....: 3805.00

--- Vertical section origin ---
Latitude (+N/-S).....: 0.00 ft
Departure (+E/-W).....: 0.00 ft

--- Grid Coordinates ---
NAD27 Texas State Plane, Central Zone, US Feet
X.....: 786979.50 ft
Y.....: 535862.40 ft

Azimuth from Vsect Origin to target: 176.80 degrees

MWD Survey Reference Criteria

---Run1--- Calculation Date: 13-Mar-2014
Location G.....: 998.8478 mgn Tolerance G.....: 2.50 mgn
Location B.....: 48473.21 nT Tolerance B.....: 300.00 nT
Magnetic Dip: 60.34042 degrees Tolerance Dip: 0.45 degrees

---Run2--- Calculation Date: 16-Mar-2014
Location G.....: 998.8478 mgn Tolerance G.....: 2.50 mgn
Location B.....: 48472.25 nT Tolerance B.....: 300.00 nT
Magnetic Dip: 60.34016 degrees Tolerance Dip: 0.45 degrees

---Run3--- Calculation Date: 18-Mar-2014
Location G.....: 998.8478 mgn Tolerance G.....: 2.50 mgn
Location B.....: 48471.61 nT Tolerance B.....: 300.00 nT
Magnetic Dip: 60.34 degrees Tolerance Dip: 0.45 degrees

---Run4--- Calculation Date: 19-Mar-2014
Location G.....: 998.8478 mgn Tolerance G.....: 2.50 mgn
Location B.....: 48471.29 nT Tolerance B.....: 300.00 nT
Magnetic Dip: 60.33991 degrees Tolerance Dip: 0.45 degrees

---Run5--- Calculation Date: 20-Mar-2014
Location G.....: 998.8478 mgn Tolerance G.....: 2.50 mgn
Location B.....: 48470.97 nT Tolerance B.....: 300.00 nT
Magnetic Dip: 60.33983 degrees Tolerance Dip: 0.45 degrees

---Run6--- Calculation Date: 21-Mar-2014
Location G.....: 998.8478 mgn Tolerance G.....: 2.50 mgn
Location B.....: 48470.65 nT Tolerance B.....: 300.00 nT
Magnetic Dip: 60.33974 degrees Tolerance Dip: 0.45 degrees

---Run7--- Calculation Date: 23-Mar-2014
Location G.....: 998.8478 mgn Tolerance G.....: 2.50 mgn
Location B.....: 48470.01 nT Tolerance B.....: 300.00 nT
Magnetic Dip: 60.33957 degrees Tolerance Dip: 0.45 degrees

---Run8--- Calculation Date: 24-Mar-2014
Location G.....: 998.8478 mgn Tolerance G.....: 2.50 mgn
Location B.....: 48469.69 nT Tolerance B.....: 300.00 nT
Magnetic Dip: 60.33949 degrees Tolerance Dip: 0.45 degrees

---Run9--- Calculation Date: 26-Mar-2014
Location G.....: 998.8478 mgn Tolerance G.....: 2.50 mgn
Location B.....: 48469.05 nT Tolerance B.....: 300.00 nT
Magnetic Dip: 60.33932 degrees Tolerance Dip: 0.45 degrees

---Run10--- Calculation Date: 27-Mar-2014
Location G.....: 998.8478 mgn Tolerance G.....: 2.50 mgn
Location B.....: 48468.73 nT Tolerance B.....: 300.00 nT
Magnetic Dip: 60.33924 degrees Tolerance Dip: 0.45 degrees

---Run11--- Calculation Date: 28-Mar-2014
Location G.....: 998.8478 mgn Tolerance G.....: 2.50 mgn
Location B.....: 48468.41 nT Tolerance B.....: 300.00 nT
Magnetic Dip: 60.33915 degrees Tolerance Dip: 0.45 degrees

---Run12--- Calculation Date: 30-Mar-2014
Location G.....: 998.8478 mgn Tolerance G.....: 2.50 mgn
Location B.....: 48467.77 nT Tolerance B.....: 300.00 nT
Magnetic Dip: 60.33898 degrees Tolerance Dip: 0.45 degrees

---Run13--- Calculation Date: 1-Apr-2014
Location G.....: 998.8478 mgn Tolerance G.....: 2.50 mgn
Location B.....: 48467.13 nT Tolerance B.....: 300.00 nT
Magnetic Dip: 60.33881 degrees Tolerance Dip: 0.45 degrees

---Run14--- Calculation Date: 2-Apr-2014
Location G.....: 998.8478 mgn Tolerance G.....: 2.50 mgn
Location B.....: 48466.81 nT Tolerance B.....: 300.00 nT
Magnetic Dip: 60.33873 degrees Tolerance Dip: 0.45 degrees

---Run15--- Calculation Date: 5-Apr-2014
Location G.....: 998.8478 mgn Tolerance G.....: 2.50 mgn
Location B.....: 48466.85 nT Tolerance B.....: 300.00 nT
Magnetic Dip: 60.33847 degrees Tolerance Dip: 0.45 degrees

---Run16--- Calculation Date: 6-Apr-2014
Location G.....: 998.8478 mgn Tolerance G.....: 2.50 mgn
Location B.....: 48465.53 nT Tolerance B.....: 300.00 nT
Magnetic Dip: 60.33839 degrees Tolerance Dip: 0.45 degrees

---Run17--- Calculation Date: 10-Apr-2014
Location G.....: 998.8478 mgn Tolerance G.....: 2.50 mgn
Location B.....: 48464.25 nT Tolerance B.....: 300.00 nT
Magnetic Dip: 60.33805 degrees Tolerance Dip: 0.45 degrees

---Run18--- Calculation Date: 11-Apr-2014
Location G.....: 998.8478 mgn Tolerance G.....: 2.50 mgn
Location B.....: 48463.93 nT Tolerance B.....: 300.00 nT
Magnetic Dip: 60.33797 degrees Tolerance Dip: 0.45 degrees

-----Run19----- Calculation Date: 14-Apr-2014
Location G..... 998.8478 mgn Tolerance G..... 2.50 mgn
Location B..... 48462.97 nT Tolerance B..... 100.00 nT
Magnetic Dip: 60.33772 degrees Tolerance Dip: 0.45 degrees

BGGM Model: 2013

-----Run1-----
Magnetic dec (+E/W).....: 7.3628 degrees
Grid Conv (+E/W).....: 0.42764 degrees
Total Azim Corr (+E/W).....: 6.93516 degrees

-----Run2-----
Magnetic dec (+E/W).....: 7.36188 degrees
Grid Conv (+E/W).....: 0.42764 degrees
Total Azim Corr (+E/W).....: 6.93424 degrees

-----Run3-----
Magnetic dec (+E/W).....: 7.36127 degrees
Grid Conv (+E/W).....: 0.42764 degrees
Total Azim Corr (+E/W).....: 6.93363 degrees

-----Run4-----
Magnetic dec (+E/W).....: 7.36096 degrees
Grid Conv (+E/W).....: 0.42764 degrees
Total Azim Corr (+E/W).....: 6.93332 degrees

-----Run5-----
Magnetic dec (+E/W).....: 7.36065 degrees
Grid Conv (+E/W).....: 0.42764 degrees
Total Azim Corr (+E/W).....: 6.93301 degrees

-----Run6-----
Magnetic dec (+E/W).....: 7.36035 degrees
Grid Conv (+E/W).....: 0.42764 degrees
Total Azim Corr (+E/W).....: 6.93271 degrees

-----Run7-----
Magnetic dec (+E/W).....: 7.35974 degrees
Grid Conv (+E/W).....: 0.42764 degrees
Total Azim Corr (+E/W).....: 6.9321 degrees

-----Run8-----
Magnetic dec (+E/W).....: 7.35943 degrees
Grid Conv (+E/W).....: 0.42764 degrees
Total Azim Corr (+E/W).....: 6.93179 degrees

-----Run9-----
Magnetic dec (+E/W).....: 7.35882 degrees
Grid Conv (+E/W).....: 0.42764 degrees
Total Azim Corr (+E/W).....: 6.93118 degrees

-----Run10-----
Magnetic dec (+E/W).....: 7.35851 degrees
Grid Conv (+E/W).....: 0.42764 degrees
Total Azim Corr (+E/W).....: 6.93087 degrees

-----Run11-----
Magnetic dec (+E/W).....: 7.35821 degrees
Grid Conv (+E/W).....: 0.42764 degrees
Total Azim Corr (+E/W).....: 6.93057 degrees

-----Run12-----
Magnetic dec (+E/W).....: 7.35759 degrees
Grid Conv (+E/W).....: 0.42764 degrees
Total Azim Corr (+E/W).....: 6.92995 degrees

-----Run13-----
Magnetic dec (+E/W).....: 7.35698 degrees
Grid Conv (+E/W).....: 0.42764 degrees
Total Azim Corr (+E/W).....: 6.92934 degrees

-----Run14-----
Magnetic dec (+E/W).....: 7.35668 degrees
Grid Conv (+E/W).....: 0.42764 degrees
Total Azim Corr (+E/W).....: 6.92904 degrees

-----Run15-----
Magnetic dec (+E/W).....: 7.35576 degrees
Grid Conv (+E/W).....: 0.42764 degrees
Total Azim Corr (+E/W).....: 6.92812 degrees

-----Run16-----
Magnetic dec (+E/W).....: 7.35545 degrees
Grid Conv (+E/W).....: 0.42764 degrees
Total Azim Corr (+E/W).....: 6.92781 degrees

-----Run17-----
Magnetic dec (+E/W).....: 7.35423 degrees
Grid Conv (+E/W).....: 0.42764 degrees
Total Azim Corr (+E/W).....: 6.92659 degrees

-----Run18-----
Magnetic dec (+E/W).....: 7.35392 degrees
Grid Conv (+E/W).....: 0.42764 degrees
Total Azim Corr (+E/W).....: 6.92628 degrees

-----Run19-----
Magnetic dec (+E/W).....: 7.353 degrees
Grid Conv (+E/W).....: 0.42764 degrees
Total Azim Corr (+E/W).....: 6.92536 degrees

-----Survey Correction Index Description-----

0 = Uncorrected 1 = Sag Corrected
2 = DMAG Corrected 3 = Sag + DMAG Corrected

Survey List													Correction
Seq	MO (ft)	Incl (deg)	Azim (deg)	Course (ft)	TVD (ft)	V Sec (ft)	N/S (ft)	E/W (ft)	Closure (ft)	at Azi (deg)	DLS (deg/100ft)	Tool	
1	0.00	0.00	0.00	-999.25	0.00	0.00	0.00	0.00	0	90.00	0.00	TIP	0
2	100.00	0.42	100.35	100.00	100.00	0.12	-0.10	0.15	0.36652	106.25	0.42	Other	0
3	200.00	0.81	129.41	100.00	199.99	0.72	-0.65	1.25	1.41058	117.62	0.45	Other	0
4	300.00	1.14	138.54	100.00	299.98	1.98	-1.85	2.45	3.07258	126.98	0.36	Other	0
5	400.00	1.27	135.04	100.00	399.96	3.59	-3.38	3.90	5.15662	130.92	0.15	Other	0
6	500.00	0.89	138.82	100.00	499.94	5.03	-4.75	5.19	7.0317	132.44	0.39	Other	0
7	600.00	0.79	144.65	100.00	599.93	6.22	-5.89	6.10	8.4825	134.01	0.13	Other	0
8	700.00	0.78	147.08	100.00	699.92	7.40	-7.03	6.87	9.82707	135.65	0.03	Other	0
9	800.00	0.75	159.39	100.00	799.91	8.82	-8.21	7.47	11.10047	137.70	0.17	Other	0
10	900.00	0.69	167.94	100.00	899.90	9.83	-9.41	7.83	12.24099	140.28	0.12	Other	0
11	1000.00	0.69	173.77	100.00	999.89	11.03	-10.60	8.02	13.29092	142.90	0.07	Other	0
12	1100.00	0.67	175.87	100.00	1099.88	12.22	-11.78	8.12	14.31137	145.41	0.03	Other	0
13	1200.00	0.58	170.79	100.00	1199.88	13.30	-12.86	8.25	15.28125	147.33	0.11	Other	0

14	1300.00	0.65	172.30	100.00	1299.88	14.37	-13.93	8.40	16.26576	148.89	0.07	Other	0
15	1400.00	0.34	175.40	100.00	1399.87	15.24	-14.78	8.49	17.05056	150.12	0.11	Other	0
16	1500.00	0.22	206.24	100.00	1499.87	15.70	-15.25	8.42	17.42344	151.10	0.18	Other	0
17	1600.00	0.07	250.59	100.00	1599.87	15.88	-15.45	8.28	17.52445	151.81	0.18	Other	0
18	1700.00	0.46	356.73	100.00	1699.87	15.50	-15.07	8.20	17.15142	151.45	0.48	Other	0
19	1750.00	0.66	41.29	52.60	1752.47	15.00	-14.57	8.24	16.73726	150.40	0.43	Other	0
20	1847.00	0.80	6.82	94.40	1846.86	13.84	-13.39	8.43	15.82429	147.83	0.18	Other	0
21	1941.30	0.74	10.47	94.30	1941.15	12.59	-12.13	8.62	14.87615	144.60	0.07	Other	0
22	2035.70	0.84	15.74	94.40	2035.54	11.33	-10.84	8.92	14.04086	140.57	0.12	Other	0
23	2130.00	0.97	17.44	94.30	2129.83	9.92	-9.42	9.35	13.26759	135.22	0.14	Other	0
24	2224.40	0.91	19.02	94.40	2224.22	8.48	-7.95	9.83	12.83969	128.96	0.07	Other	0
25	2318.80	0.83	21.54	94.40	2318.61	7.17	-6.60	10.32	12.25484	122.60	0.09	Other	0
26	2413.10	0.93	19.05	94.30	2412.90	5.84	-5.24	10.82	12.01802	115.84	0.11	Other	0
27	2507.50	0.81	17.37	94.40	2507.28	4.51	-3.88	11.27	11.92398	109.00	0.13	Other	0
28	2601.80	0.91	18.34	94.30	2601.57	3.19	-2.54	11.71	11.98021	102.22	0.11	Other	0
29	2696.20	1.03	21.47	94.40	2695.96	1.72	-1.03	12.26	12.28882	94.82	0.14	Other	0
30	2790.60	1.08	23.88	94.40	2790.34	0.15	-0.57	12.93	12.31845	87.48	0.07	Other	0
31	2884.90	1.07	24.52	94.30	2884.63	-1.42	2.18	13.65	13.82447	80.92	0.02	Other	0
32	2979.30	1.20	26.86	94.40	2979.01	-3.05	3.87	14.46	14.97133	75.03	0.15	Other	0
33	3073.60	1.22	30.79	94.30	3073.29	-4.74	5.61	15.42	16.41194	70.01	0.09	Other	0
34	3168.00	1.54	35.71	94.40	3167.66	-6.56	7.50	16.68	18.38835	65.78	0.16	Other	0
35	3262.40	1.56	38.05	94.40	3262.03	-8.51	9.54	18.21	20.56064	62.34	0.07	Other	0
36	3356.70	1.79	42.63	94.30	3356.29	-10.50	11.64	20.00	23.1398	59.80	0.28	Other	0
37	3451.10	1.85	43.43	94.40	3450.64	-12.58	13.83	22.05	26.02476	57.90	0.07	Other	0
38	3545.40	1.83	46.16	94.40	3544.88	-14.63	16.00	24.15	28.97113	56.47	0.05	Other	0
39	3639.80	1.90	45.16	94.40	3639.24	-15.58	18.18	26.12	31.90263	55.38	0.08	Other	0
40	3734.20	1.75	47.94	94.40	3733.59	-18.62	20.25	28.50	34.96313	54.62	0.18	Other	0
41	3828.50	1.91	50.63	94.30	3827.84	-20.45	22.21	30.79	37.96196	54.20	0.19	Other	0
42	3922.90	2.01	51.68	94.40	3922.19	-22.33	24.23	33.30	41.18632	53.96	0.11	Other	0
43	4017.20	2.07	51.80	94.40	4016.43	-24.26	26.31	35.94	44.5408	53.79	0.06	Other	0
44	4111.60	2.08	51.32	94.40	4110.77	-26.24	28.44	38.62	47.95616	53.63	0.02	Other	0
45	4206.00	2.24	51.77	94.40	4205.10	-28.29	30.65	41.40	51.5121	53.49	0.17	Other	0
46	4300.30	2.28	52.98	94.30	4299.33	-30.39	32.92	44.35	55.2989	53.42	0.07	Other	0
47	4394.70	2.24	49.87	94.40	4393.65	-32.54	35.24	47.16	58.94904	53.29	0.14	Other	0
48	4489.20	2.23	52.90	94.40	4487.88	-34.70	37.55	50.11	62.623	53.15	0.09	Other	0
49	4583.40	2.55	52.97	94.40	4582.20	-36.92	39.95	53.24	66.55923	53.11	0.34	Other	0
50	4677.80	2.70	55.68	94.40	4676.50	-39.23	42.47	56.75	70.88047	53.19	0.21	Other	0
51	4772.10	2.80	54.23	94.30	4770.69	-41.62	45.07	60.45	75.40246	53.10	0.13	Other	0
52	4866.50	2.94	54.37	94.40	4864.97	-44.16	47.82	64.79	80.12818	53.16	0.15	Other	0
53	4960.80	3.19	60.74	94.40	4959.14	-46.61	50.52	68.55	85.14921	53.61	0.45	Other	0
54	5055.20	3.18	59.85	94.40	5053.39	-48.95	53.11	73.10	90.30333	53.00	0.05	Other	0
55	5149.60	3.28	58.29	94.40	5147.64	-51.43	55.85	77.66	95.65917	54.28	0.14	Other	0
56	5243.90	3.32	57.95	94.30	5241.79	-54.03	58.72	82.27	101.0759	54.49	0.05	Other	0
57	5338.30	3.39	55.80	94.40	5336.02	-56.79	61.74	86.90	106.54952	54.61	0.15	Other	0
58	5432.60	3.44	59.71	94.40	5430.16	-59.51	64.73	91.65	112.20074	54.77	0.25	Other	0
59	5527.00	3.53	59.78	94.40	5524.18	-62.12	67.82	96.60	117.91841	55.01	0.10	Other	0
60	5620.00	3.60	58.81	33.00	5557.32	-63.07	68.67	98.37	119.96468	55.08	0.28	Other	0
61	5645.00	3.52	60.75	85.00	5642.15	-65.47	71.33	102.93	125.24999	55.28	0.17	Other	0
62	5738.40	3.18	61.45	94.40	5734.99	-67.88	74.21	107.84	130.79179	55.54	0.17	Other	0
63	5833.00	2.02	74.38	94.40	5828.88	-69.40	75.77	111.87	135.11873	55.89	1.57	Other	0
64	5927.00	0.79	185.08	95.00	5923.86	-89.12	75.58	113.66	136.49438	56.37	2.29	Other	0
65	6021.00	1.10	196.28	94.00	6017.84	-67.64	74.09	113.57	135.60159	56.88	0.63	Other	0
66	6115.00	1.10	196.85	94.00	6111.83	-65.94	72.16	113.05	134.20771	57.38	0.01	Other	0
67	6205.00	1.10	202.12	95.00	6201.79	-61.58	68.53	111.84	131.3734	58.55	0.06	Other	0
68	6307.00	1.32	210.34	282.00	6303.73	-57.43	63.62	109.18	126.35967	59.77	0.10	Other	0
69	6776.00	1.49	213.46	189.00	6772.67	-53.64	59.69	106.72	122.28003	60.78	0.10	Other	0
70	6965.00	1.32	216.06	189.00	6961.62	-49.98	55.88	104.09	118.11708	61.77	0.10	Other	0
71	7153.00	1.32	215.88	188.00	7149.57	-46.63	52.37	101.54	114.25351	62.72	0.00	Other	0
72	7342.00	1.58	209.84	189.00	7338.51	-42.75	48.35	98.97	110.14076	63.96	0.16	Other	0
73	7437.00	1.71	203.84	95.00	7433.47	-40.39	45.92	97.74	107.99324	64.84	0.23	Other	0
74	7531.00	1.89	205.47	94.00	7527.42	-37.78	43.24	96.51	105.75345	65.87	0.20	Other	0
75	7628.00	2.11	208.28	95.00	7622.36	-34.92	40.28	95.01	103.19558	67.02	0.25	Other	0
76	7722.00	2.20	209.46	96.00	7718.29	-31.86	37.12	93.27	100.81317	68.30	0.10	Other	0
77	7815.00	1.01	215.98	91.00	7811.26	-30.23	35.40	91.59	98.18772	68.87	0.84	Other	0
78	7909.00	1.32	281.36	94.00	7905.24	-30.37	35.44	89.71	96.45908	68.45	0.60	Other	0
79	8097.00	1.58	284.35	188.00	8093.18	-31.70	36.51	85.08	92.58112	66.78	0.14	Other	0
80	8285.00	1.58	284.04	188.00	8281.11	-33.25	37.78	80.05	88.52019	64.74	0.00	Other	0
81	8474.00	1.58	293.66	189.00	8470.08	-35.20	39.45	75.14	84.84879	62.30	0.14	Other	0
82	8662.00	1.84	286.57	188.00	8657.96	-37.37	41.34	69.94	81.21914	59.41	0.16	Other	0
83	8851.00	1.80	293.44	191.00	8848.86	-39.73	43.39	64.31	77.57531	55.99	0.11	Other	0
84	9041.00	2.20	295.47	188.00	9036.75	-42.78	46.11	58.34	74.36463	51.58	0.22	Other	0
85	9231.00	1.44	110.89	312.00	9227.17	-35.57	39.84	75.51	65.37907	62.18	9.67	Slip/Pulse	0
86	9324.00	1.44	110.89	312.00	9319.61	-32.28	37.06	84.73	62.46411	60.37	24.85	Slip/Pulse	0
87	9417.00	77.25	108.33	32.00	9405.69	-27.81	33.30	97.50	60.33019	71.14	18.07	Slip/Pulse	0
88	9307.00	31.92	116.82	31.00	9292.64	-21.09	27.36	111.59	114.89216	76.22	19.98	Slip/Pulse	0
89	9319.00	35.79	123.72	32.00	9319.22	-11.23	18.34	126.93	128.25003	81.78	17.02	Slip/Pulse	0
90	9370.00	39.04	129.98	31.00	9343.85	0.91	7.03	141.96	142.18529	87.16	16.13	Slip/Pulse	0
91	9402.00	41.08	136.85	31.00	9368.35	15.74	-6.89	157.02	157.176	93.55	13.33	Slip/Pulse	0
92	9413.00	42.55	142.09	31.00	9391.46	32.05	-22.57	170.57	172.05603	97.54	14.32	Slip/Pulse	0
93	9465.00	43.80	146.90	32.00	9414.81	50.55	-40.39	183.27	187.66712	102.43	11.01	Slip/Pulse	0
94	9496.00	44.67	152.29	31.00	9437.03	69.78	-59.03	194.20	202.97221	106.91	12.45	Slip/Pulse	0
95	9528.00	43.80	157.68	32.00	9499.57	90.86	-79.40	203.79	218.74553	111.34	17.46	Slip/Pulse	0
96	9559.00	46.71	162.57	31.00	9481.01	112.30	-100.65	211.39	234.13216	115.46	11.77	Slip/Pulse	0
97	9590.00	46.80	166.77	31.00	9502.25	134.37	-122.43	217.36	249.46497	119.39	9.89	Slip/Pulse	0
98	9622.00	47.32	171.02	32.00	9524.06	157.56	-145.40	221.86	265.26637	123.24	9.84	Slip/Pulse	0
99	9653.00	48.26	173.93	31.00	9544.89	180.45	-168.16	224.67	280.7927	126.79	7.58	Slip/Pulse	0
100	9685.00	48.87	178.80	32.00	9566.06	204.41	-182.02	227.43	297.65019	130.17	1.91	Slip/Pulse	0
101	9715.00	50.40	174.64	60.00	9604.92	250.08	-237.40	2					