



Devon Energy

Eddy Co., New Mexico (Nad 83)

North Pure Gold 8 Fed #13H

NPG 8 Fed #13H

30-015-37651

Lateral #1

30-015-37651

Survey: Cudd MWD Survey #1

Standard Survey Report

25 August, 2010

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CUDD Drilling & Measurement Services

Survey Report



Company:	Devon Energy	Local Co-ordinate Reference:	Site North Pure Gold 8 Fed #13H
Project:	Eddy Co., New Mexico (Nad 83)	TVD Reference:	WELL @ 3346.00ft (Original Well Elev)
Site:	North Pure Gold 8 Fed #13H	MD Reference:	WELL @ 3346'00ft (Original Well Elev)
Well:	NPG 8 Fed #13H	North Reference:	Grid
Wellbore:	Lateral #1	Survey Calculation Method:	Minimum Curvature
Design:	Lateral #1	Database:	EDM 2003.21 Single User Db

Project	Eddy Co., New Mexico (Nad 83)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum-1983		
Map Zone:	New Mexico Eastern Zone		

Site	North Pure Gold 8 Fed #13H, Sec 8, T-23S, R-31E				
Site Position:		Northing:	478,227.75 ft	Latitude:	32° 18' 48.881 N
From:	Map	Easting:	707,248.29 ft	Longitude:	103° 47' 46.623 W
Position Uncertainty:	0.00 ft	Slot Radius:	"	Grid Convergence:	0.29 °

Well	NPG 8 Fed #13H					
Well Position	+N/-S	0.00 ft	Northing:	478,227.75 ft	Latitude:	32° 18' 48.881 N
	+E/-W	0.00 ft	Easting:	707,248.29 ft	Longitude:	103° 47' 46.623 W
Position Uncertainty		0.00 ft	Wellhead Elevation:	3,346.00 ft	Ground Level:	3,326.00 ft

Wellbore	Lateral #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	01/23/10	7.85	60.28	48,817

Design	Lateral #1				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)	
	0.00	0.00	0.00	359.63	

Survey Program	Date 08/25/10			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
100.00	11,850.00	Gyro Survey #1 (Lateral #1)	NS-GYRO-MS	North sensing gyrocompassing m/s
11,875.00	16,280.00	Cudd MWD Survey #1 (Lateral #1)	CUDD MWD	MWD - Standard CUDD MWD

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
11,850.00	0.39	262.91	11,847.85	-98.45	0.86	-98.45	0.00	0.00	0.00
Last Gyro Survey									
11,875.00	0.50	263.30	11,872.85	-98.47	0.67	-98.48	0.44	0.44	1.56
First Cudd MWD Survey									
11,967.00	8.10	358.00	11,964.55	-92.03	0.04	-92.03	8.87	8.26	102.93
11,999.00	12.00	354.90	11,996.05	-86.46	-0.33	-86.46	12.30	12.19	-9.69
12,030.00	16.70	353.40	12,026.07	-78.82	-1.13	-78.82	15.21	15.16	-4.84
12,062.00	20.30	353.20	12,056.42	-68.74	-2.32	-68.73	11.25	11.25	-0.63
12,093.00	22.60	353.40	12,085.27	-57.48	-3.64	-57.46	7.42	7.42	0.65
12,125.00	24.60	353.90	12,114.59	-44.75	-5.05	-44.72	6.28	6.25	1.56
12,156.00	27.30	355.50	12,142.46	-31.25	-6.30	-31.20	9.00	8.71	5.16
12,188.00	29.40	355.20	12,170.62	-16.10	-7.53	-16.05	6.58	6.56	-0.94



CUDD Drilling & Measurement Services

Survey Report



Company: Devon Energy
Project: Eddy Co., New Mexico (Nad 83)
Site: North Pure Gold 8 Fed #13H
Well: NPG 8 Fed #13H
Wellbore: Lateral #1
Design: Lateral #1

Local Co-ordinate Reference: Site North Pure Gold 8 Fed #13H
TVD Reference: WELL @ 3346.00ft (Original Well Elev)
MD Reference: WELL @ 3346.00ft (Original Well Elev)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 2003 21-Single User Db

Survey

Measured			Vertical			Vertical	Dogleg	Build	Turn
Depth	Inclination	Azimuth	Depth	+N/-S	+E/-W	Section	Rate	Rate	Rate
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(°/100ft)	(°/100ft)	(°/100ft)
12,219.00	31.60	356.80	12,197.33	-0.41	-8.62	-0.35	7.56	7.10	5.16
12,251.00	33.50	356.80	12,224.30	16.78	-9.58	16.84	5.94	5.94	0.00
12,282.00	35.10	357.60	12,249.91	34.23	-10.43	34.30	5.36	5.16	2.58
12,313.00	37.20	357.70	12,274.94	52.50	-11.18	52.57	6.78	6.77	0.32
12,345.00	39.10	357.70	12,300.11	72.25	-11.98	72.33	5.94	5.94	0.00
12,376.00	41.00	358.00	12,323.83	92.18	-12.72	92.26	6.16	6.13	0.97
12,407.00	43.60	359.60	12,346.76	113.04	-13.15	113.12	9.08	8.39	5.16
12,439.00	46.70	0.60	12,369.33	135.72	-13.11	135.80	9.94	9.69	3.13
12,471.00	49.40	0.80	12,390.72	159.52	-12.82	159.60	8.45	8.44	0.63
12,502.00	52.20	1.30	12,410.31	183.53	-12.37	183.61	9.12	9.03	1.61
12,534.00	54.80	1.20	12,429.34	209.25	-11.81	209.32	8.13	8.13	-0.31
12,565.00	56.30	0.70	12,446.88	234.81	-11.39	234.88	5.02	4.84	-1.61
12,597.00	58.40	1.30	12,464.14	261.74	-10.92	261.81	6.75	6.56	1.88
12,628.00	60.70	1.90	12,479.85	288.46	-10.17	288.52	7.60	7.42	1.94
12,659.00	62.10	1.70	12,494.69	315.66	-9.32	315.71	4.55	4.52	-0.65
12,691.00	63.90	2.30	12,509.22	344.15	-8.32	344.20	5.87	5.63	1.88
12,722.00	65.80	1.70	12,522.39	372.20	-7.34	372.24	6.37	6.13	-1.94
12,754.00	67.20	1.70	12,535.15	401.53	-6.47	401.56	4.38	4.38	0.00
12,785.00	68.90	1.60	12,546.74	430.27	-5.64	430.30	5.49	5.48	-0.32
12,816.00	69.90	1.60	12,557.64	459.27	-4.83	459.30	3.23	3.23	0.00
12,848.00	71.10	1.40	12,568.32	489.43	-4.04	489.44	3.80	3.75	-0.63
12,881.00	72.70	2.20	12,578.58	520.78	-3.06	520.79	5.37	4.85	2.42
12,913.00	74.70	1.90	12,587.56	551.47	-1.96	551.47	6.31	6.25	-0.94
12,944.00	76.80	1.20	12,595.19	581.50	-1.15	581.50	7.12	6.77	-2.26
12,976.00	78.40	0.60	12,602.06	612.75	-0.66	612.74	5.32	5.00	-1.88
13,007.00	80.80	0.40	12,607.66	643.24	-0.39	643.23	7.77	7.74	-0.65
13,039.00	83.70	359.90	12,611.97	674.94	-0.31	674.93	9.19	9.06	-1.56
13,071.00	85.40	359.20	12,615.01	706.80	-0.56	706.79	5.74	5.31	-2.19
13,102.00	88.80	359.30	12,616.58	737.75	-0.96	737.74	10.97	10.97	0.32
13,134.00	90.30	359.40	12,616.83	769.75	-1.33	769.74	4.70	4.69	0.31
13,165.00	91.90	359.10	12,616.23	800.74	-1.73	800.73	5.25	5.16	-0.97
13,208.00	92.30	358.70	12,614.66	843.70	-2.56	843.70	1.32	0.93	-0.93
13,240.00	92.20	358.50	12,613.40	875.67	-3.34	875.67	0.70	-0.31	-0.63
13,271.00	93.10	358.70	12,611.97	906.62	-4.10	906.63	2.97	2.90	0.65
13,303.00	92.10	358.40	12,610.52	938.58	-4.90	938.59	3.26	-3.13	-0.94
13,334.00	91.30	359.20	12,609.60	969.56	-5.55	969.57	3.65	-2.58	2.58
13,366.00	90.90	359.60	12,608.98	1,001.55	-5.89	1,001.57	1.77	-1.25	1.25
13,397.00	90.30	358.50	12,608.66	1,032.54	-6.40	1,032.56	4.04	-1.94	-3.55
13,428.00	90.30	357.80	12,608.50	1,063.53	-7.40	1,063.55	2.26	0.00	-2.26
13,460.00	91.20	358.50	12,608.08	1,095.51	-8.44	1,095.54	3.56	2.81	2.19
13,491.00	91.50	358.60	12,607.35	1,126.49	-9.22	1,126.52	1.02	0.97	0.32
13,554.00	89.20	357.70	12,606.96	1,189.45	-11.25	1,189.50	3.92	-3.65	-1.43
13,617.00	89.00	356.70	12,607.95	1,252.37	-14.33	1,252.43	1.62	-0.32	-1.59
13,680.00	88.80	357.70	12,609.16	1,315.28	-17.41	1,315.36	1.62	-0.32	1.59
13,743.00	89.60	359.60	12,610.04	1,378.25	-18.89	1,378.34	3.27	1.27	3.02
13,805.00	88.90	359.70	12,610.85	1,440.24	-19.27	1,440.34	1.14	-1.13	0.16
13,868.00	88.90	0.30	12,612.06	1,503.23	-19.27	1,503.33	0.95	0.00	0.95
13,931.00	89.30	0.80	12,613.05	1,566.22	-18.67	1,566.31	1.02	0.63	0.79
13,994.00	89.30	1.20	12,613.82	1,629.21	-17.57	1,629.29	0.63	0.00	0.63
14,057.00	90.40	1.90	12,613.99	1,692.18	-15.86	1,692.25	2.07	1.75	1.11
14,120.00	90.10	0.90	12,613.71	1,755.16	-14.32	1,755.22	1.66	-0.48	-1.59
14,183.00	90.40	1.00	12,613.44	1,818.15	-13.28	1,818.20	0.50	0.48	0.16
14,278.00	90.40	0.60	12,612.77	1,913.14	-11.95	1,913.18	0.42	0.00	-0.42
14,373.00	90.10	0.40	12,612.36	2,008.14	-11.12	2,008.17	0.38	-0.32	-0.21



CUDD Drilling & Measurement Services

Survey Report



Company:	Devon Energy	Local Co-ordinate Reference:	Site North Pure Gold 8 Fed #13H
Project:	Eddy Co., New Mexico (Nad 83)	TVD Reference:	WELL @ 3346.00ft (Original Well Elev)
Site:	North Pure Gold 8 Fed #13H	MD Reference:	WELL @ 3346 00ft (Original Well Elev)
Well:	NPG 8 Fed #13H	North Reference:	Grd
Wellbore:	Lateral #1	Survey Calculation Method:	Minimum Curvature
Design:	Lateral #1	Database:	EDM 2003.21 Single User.Db

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
14,467.00	89.60	359.60	12,612.60	2,102.13	-11.12	2,102.16	1.00	-0.53	-0.85
14,562.00	89.70	359.10	12,613.18	2,197.13	-12.20	2,197.16	0.54	0.11	-0.53
14,657.00	89.50	358.80	12,613.85	2,292.11	-13.94	2,292.15	0.38	-0.21	-0.32
14,751.00	89.60	359.20	12,614.59	2,386.09	-15.58	2,386.14	0.44	0.11	0.43
14,845.00	90.00	359.90	12,614.91	2,480.09	-16.32	2,480.14	0.86	0.43	0.74
14,940.00	90.20	0.60	12,614.75	2,575.08	-15.91	2,575.13	0.77	0.21	0.74
15,034.00	90.20	1.20	12,614.42	2,669.07	-14.43	2,669.11	0.64	0.00	0.64
15,128.00	90.20	1.30	12,614.09	2,763.05	-12.38	2,763.07	0.11	0.00	0.11
15,222.00	89.80	0.60	12,614.09	2,857.04	-10.82	2,857.05	0.86	-0.43	-0.74
15,317.00	90.10	1.20	12,614.18	2,952.02	-9.33	2,952.02	0.71	0.32	0.63
15,411.00	90.20	359.40	12,613.93	3,046.02	-8.84	3,046.01	1.92	0.11	-1.91
15,506.00	90.50	359.90	12,613.35	3,141.01	-9.42	3,141.01	0.61	0.32	0.53
15,600.00	90.80	0.50	12,612.28	3,235.01	-9.09	3,235.00	0.71	0.32	0.64
15,694.00	90.60	0.70	12,611.13	3,328.99	-8.10	3,328.98	0.30	-0.21	0.21
15,785.00	91.00	-0.80	12,609.86	3,419.98	-6.91	3,419.95	0.45	-0.44	-0.11
15,879.00	91.20	0.80	12,608.06	3,513.95	-5.60	3,513.91	0.21	0.21	0.00
15,974.00	89.80	359.20	12,607.23	3,608.94	-5.60	3,608.90	2.24	-1.47	-1.68
16,069.00	90.20	357.60	12,607.23	3,703.90	-8.25	3,703.88	1.74	0.42	-1.68
16,163.00	90.20	355.40	12,606.90	3,797.72	-13.99	3,797.73	2.34	0.00	-2.34
16,230.00	90.50	354.20	12,606.49	3,864.44	-20.06	3,864.49	1.85	0.45	-1.79
Last Cudd MWD Survey									
16,280.00	90.50	354.20	12,606.06	3,914.18	-25.12	3,914.26	0.00	0.00	0.00
Proj to Bit									

Survey Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
11,850.00	11,847.85	-98.45	0.86	Last Gyro Survey
11,875.00	11,872.85	-98.47	0.67	First Cudd MWD Survey
16,230.00	12,606.49	3,864.44	-20.06	Last Cudd MWD Survey
16,280.00	12,606.06	3,914.18	-25.12	Proj to Bit

Checked By:	Approved By:	Date:
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Survey Data Sheet

Company:	Devon Energy	MWD Survey #	8	Date:	8/24/2010
Well:	Pure Gold 8 Fed 13H	Total Correction.:	7.85		
County/State:	Eddy Co, NM	Target TVD @ 0' VS.:	12612		
Rig:	H&P 372	Target Az. @ 0' VS.:	359.63		
CUDD MWD:	Kenneth Hefner /Chris Robertson	Tgt. Inc. @ 0' VS.:	90		
CUDD Job #:	101956390501	Current Bit to Survey	50		

Date	No.	DEPTH	INC.	AZM	C.L.	T.V.D.	V.S.	N/S	E/W	DLS	B./D.	BHA
Tie - In		11850	0.39	262.91		11847.85	-98.46	98.45 S	0.86 E	0.34		
24-Jul	1	11875	0.50	263.30	25	11872.85	-98.48	98.47 S	0.67 E	0.44	0.44	1
27-Jul	2	11967	8.10	358.00	92	11964.54	-92.03	92.03 S	0.04 E	8.87	8.26	3
27-Jul	3	11999	12.00	354.90	32	11996.05	-86.46	86.46 S	0.33 W	12.30	12.19	3
28-Jul	4	12030	16.70	353.40	31	12026.07	-78.82	78.82 S	1.13 W	15.21	15.16	3
28-Jul	5	12062	20.30	353.20	32	12056.41	-68.73	68.74 S	2.32 W	11.25	11.25	3
28-Jul	6	12093	22.60	353.40	31	12085.26	-57.46	57.48 S	3.64 W	7.42	7.42	3
29-Jul	7	12125	24.60	353.90	32	12114.59	-44.72	44.75 S	5.05 W	6.28	6.25	4
30-Jul	8	12156	27.30	355.50	31	12142.46	-31.20	31.25 S	6.30 W	9.00	8.71	4
30-Jul	9	12188	29.40	355.20	32	12170.62	-16.05	16.10 S	7.53 W	6.58	6.56	4
30-Jul	10	12219	31.60	356.80	31	12197.33	-0.35	0.41 S	8.62 W	7.56	7.10	4
30-Jul	11	12251	33.50	356.80	32	12224.30	16.84	16.78 N	9.58 W	5.94	5.94	4
31-Jul	12	12282	35.10	357.60	31	12249.91	34.30	34.23 N	10.43 W	5.36	5.16	4
31-Jul	13	12313	37.20	357.70	31	12274.94	52.57	52.50 N	11.18 W	6.78	6.77	4
1-Aug	14	12345	39.10	357.70	32	12300.10	72.33	72.25 N	11.97 W	5.94	5.94	5
1-Aug	15	12376	41.00	358.00	31	12323.83	92.26	92.18 N	12.72 W	6.16	6.13	5
1-Aug	16	12407	43.60	359.60	31	12346.76	113.12	113.04 N	13.15 W	9.08	8.39	5
2-Aug	17	12439	46.70	0.60	32	12369.32	135.80	135.72 N	13.11 W	9.94	9.69	5
2-Aug	18	12471	49.40	0.80	32	12390.71	159.60	159.52 N	12.81 W	8.45	8.44	5
2-Aug	19	12502	52.20	1.30	31	12410.30	183.61	183.53 N	12.37 W	9.12	9.03	5
2-Aug	20	12534	54.80	1.20	32	12429.34	209.32	209.25 N	11.81 W	8.13	8.12	5
3-Aug	21	12565	56.30	0.70	31	12446.87	234.88	234.81 N	11.39 W	5.02	4.84	5
3-Aug	22	12597	58.40	1.30	32	12464.14	261.81	261.74 N	10.92 W	6.75	6.56	5
3-Aug	23	12628	60.70	1.90	31	12479.85	288.52	288.46 N	10.17 W	7.60	7.42	5
3-Aug	24	12659	62.10	1.70	31	12494.68	315.71	315.66 N	9.31 W	4.55	4.52	5
4-Aug	25	12691	63.90	2.30	32	12509.21	344.20	344.15 N	8.32 W	5.87	5.62	5
5-Aug	26	12722	65.80	1.70	31	12522.39	372.24	372.20 N	7.34 W	6.37	6.13	6
5-Aug	27	12754	67.20	1.70	32	12535.15	401.56	401.53 N	6.47 W	4.38	4.38	6
5-Aug	28	12785	68.90	1.60	31	12546.73	430.30	430.27 N	5.64 W	5.49	5.48	6
6-Aug	29	12816	69.90	1.60	31	12557.64	459.30	459.27 N	4.83 W	3.23	3.23	6
6-Aug	30	12848	71.10	1.40	32	12568.32	489.44	489.43 N	4.04 W	3.80	3.75	6
7-Aug	31	12881	72.70	2.20	33	12578.57	520.79	520.78 N	3.06 W	5.37	4.85	7
7-Aug	32	12913	74.70	1.90	32	12587.55	551.47	551.47 N	1.96 W	6.31	6.25	7
8-Aug	33	12944	76.80	1.20	31	12595.19	581.50	581.50 N	1.15 W	7.12	6.77	7
8-Aug	34	12976	78.40	0.60	32	12602.06	612.74	612.75 N	0.66 W	5.32	5.00	7
8-Aug	35	13007	80.80	0.40	31	12607.65	643.23	643.24 N	0.39 W	7.77	7.74	7
9-Aug	36	13039	83.70	359.90	32	12611.97	674.93	674.94 N	0.31 W	9.19	9.06	7
9-Aug	37	13071	85.40	359.20	32	12615.01	706.79	706.80 N	0.56 W	5.74	5.31	7
9-Aug	38	13102	88.80	359.30	31	12616.57	737.74	737.75 N	0.96 W	10.97	10.97	7
9-Aug	39	13134	90.30	359.40	32	12616.83	769.74	769.75 N	1.33 W	4.70	4.69	7
9-Aug	40	13165	91.90	359.10	31	12616.23	800.73	800.74 N	1.73 W	5.25	5.16	7
12-Aug	41	13208	92.30	358.70	43	12614.65	843.70	843.70 N	2.56 W	1.32	0.93	8
12-Aug	42	13240	92.20	358.50	32	12613.40	875.67	875.67 N	3.34 W	0.70	-0.31	8
12-Aug	43	13271	93.10	358.70	31	12611.97	906.63	906.62 N	4.09 W	2.97	2.90	8
12-Aug	44	13303	92.10	358.40	32	12610.51	938.59	938.58 N	4.90 W	3.26	-3.13	8
13-Aug	45	13334	91.30	359.20	31	12609.59	969.57	969.56 N	5.55 W	3.65	-2.58	8
13-Aug	46	13366	90.90	359.60	32	12608.98	1001.57	1001.55 N	5.89 W	1.77	-1.25	8



Survey Data Sheet

Company:	<u>Devon Energy</u>	MWD Survey #	<u>8</u>	Date:	<u>8/24/2010</u>
Well:	<u>Pure Gold 8 Fed 13H</u>	Total Correction.:	<u>7.85</u>		
County/State:	<u>Eddy Co, NM</u>	Target TVD @ 0' VS.:	<u>12612</u>		
Rig:	<u>H&P 372</u>	Target Az. @ 0' VS.:	<u>359.63</u>		
CUDD MWD:	<u>Kenneth Hefner /Chris Robertson</u>	Tgt. Inc. @ 0' VS.:	<u>90</u>		
CUDD Job #:	<u>101956390501</u>	Current Bit to Survey	<u>50</u>		

Date	No.	DEPTH	INC.	AZM	C.L.	T.V.D.	V.S.	N/S	E/W	DLS	B./D.	BHA
13-Aug	47	13397	90.30	358.50	31	12608.66	1032.56	1032.54 N	6.40 W	4.04	-1.94	8
13-Aug	48	13428	90.30	357.80	31	12608.49	1063.55	1063.53 N	7.40 W	2.26		8
13-Aug	49	13460	91.20	358.50	32	12608.07	1095.54	1095.51 N	8.44 W	3.56	2.81	8
13-Aug	50	13491	91.50	358.60	31	12607.34	1126.52	1126.49 N	9.22 W	1.02	0.97	8
13-Aug	51	13554	89.20	357.70	63	12606.96	1189.50	1189.45 N	11.25 W	3.92	-3.65	8
13-Aug	52	13617	89.00	356.70	63	12607.95	1252.43	1252.37 N	14.33 W	1.62	-0.32	8
13-Aug	53	13680	88.80	357.70	63	12609.16	1315.36	1315.28 N	17.41 W	1.62	-0.32	8
13-Aug	54	13743	89.60	359.60	63	12610.04	1378.34	1378.25 N	18.89 W	3.27	1.27	8
13-Aug	55	13805	88.90	359.70	62	12610.85	1440.34	1440.24 N	19.27 W	1.14	-1.13	8
13-Aug	56	13868	88.90	0.30	63	12612.06	1503.33	1503.23 N	19.27 W	0.95		8
14-Aug	57	13931	89.30	0.80	63	12613.05	1566.31	1566.22 N	18.66 W	1.02	0.63	8
14-Aug	58	13994	89.30	1.20	63	12613.82	1629.29	1629.21 N	17.57 W	0.63		8
14-Aug	59	14057	90.40	1.90	63	12613.98	1692.25	1692.18 N	15.86 W	2.07	1.75	8
14-Aug	60	14120	90.10	0.90	63	12613.71	1755.22	1755.16 N	14.32 W	1.66	-0.48	8
14-Aug	61	14183	90.40	1.00	63	12613.43	1818.20	1818.15 N	13.28 W	0.50	0.48	8
14-Aug	62	14278	90.40	0.60	95	12612.77	1913.18	1913.14 N	11.95 W	0.42		8
14-Aug	63	14373	90.10	0.40	95	12612.36	2008.17	2008.14 N	11.12 W	0.38	-0.32	8
14-Aug	64	14467	89.60	359.60	94	12612.60	2102.16	2102.13 N	11.12 W	1.00	-0.53	8
15-Aug	65	14562	89.70	359.10	95	12613.18	2197.16	2197.13 N	12.20 W	0.54	0.11	8
15-Aug	66	14657	89.50	358.80	95	12613.84	2292.15	2292.11 N	13.94 W	0.38	-0.21	8
15-Aug	67	14751	89.60	359.20	94	12614.58	2386.14	2386.09 N	15.58 W	0.44	0.11	8
15-Aug	68	14845	90.00	359.90	94	12614.91	2480.14	2480.09 N	16.32 W	0.86	0.43	8
15-Aug	69	14940	90.20	0.60	95	12614.75	2575.13	2575.08 N	15.91 W	0.77	0.21	8
15-Aug	70	15034	90.20	1.20	94	12614.42	2669.11	2669.07 N	14.43 W	0.64		8
15-Aug	71	15128	90.20	1.30	94	12614.09	2763.07	2763.05 N	12.38 W	0.11		8
15-Aug	72	15222	89.80	0.60	94	12614.09	2857.05	2857.04 N	10.82 W	0.86	-0.43	8
15-Aug	73	15317	90.10	1.20	95	12614.17	2952.02	2952.02 N	9.33 W	0.71	0.32	8
16-Aug	74	15411	90.20	359.40	94	12613.93	3046.01	3046.02 N	8.84 W	1.92	0.11	8
16-Aug	75	15506	90.50	359.90	95	12613.35	3141.01	3141.01 N	9.42 W	0.61	0.32	8
16-Aug	76	15600	90.80	0.50	94	12612.28	3235.00	3235.01 N	9.09 W	0.71	0.32	8
16-Aug	77	15694	90.60	0.70	94	12611.13	3328.98	3328.99 N	8.10 W	0.30	-0.21	8
24-Aug	78	15785	91.00	0.80	91	12609.86	3419.95	3419.98 N	6.91 W	0.45	0.44	11
24-Aug	79	15879	91.20	359.80	94	12608.06	3513.93	3513.96 N	6.42 W	1.08	0.21	11
24-Aug	80	15974	89.80	359.20	95	12607.23	3608.92	3608.95 N	7.25 W	1.60	-1.47	11
24-Aug	81	16024	89.80	359.20	50	12607.40	3658.92	3658.94 N	7.95 W			11
24-Aug	82	16069	90.20	357.60	45	12607.40	3703.91	3703.92 N	9.20 W	3.66	0.89	11
24-Aug	83	16163	90.20	355.40	94	12607.07	3797.76	3797.74 N	14.94 W	2.34		11
24-Aug	84	16230	90.50	354.20	67	12606.66	3864.52	3864.46 N	21.01 W	1.85	0.45	11
	TD	16280	90.50	354.20	50	12606.23	3914.29	3914.21 N	26.07 W			11