

Results of Directional Survey

API number:	30-025-41330		
OGRID:		Operator:	CHEVRON U S A INC
		Property:	BRININSTOOL 23 23 33 USA # 1H

surface	ULSTR:	B	23	T 23S	R 33E
				149 FNL	1568 FEL

BH Loc	ULSTR:	O	23	T 23S	R 33E
15867	MD	11310.2	TVD	332 FSL	1469 FEL
				4948 FNL	

Top Perf/OH	ULSTR:	B	23	T 23S	R 33E
11310	MD	11223.4	TVD	403 FNL	1582 FEL

Bot Perf/OH	ULSTR:	O	23	T 23S	R 33E
15735	MD	11310.1	TVD	463 FSL	1482 FEL
				4817 FNL	

	MD	N/S	E/W	VD
	11270	-218.94	-12.84	11206.18
TOP PERFS/OH	11310	-253.62	-13.71	11223.38
	11315	-257.95	-13.82	11225.53
	15680	-4613.31	81.29	11310.29
BOT PERFS/OH	15735	-4668.10	86.08	11310.14
	15769	-4701.97	89.04	11310.05

NEXT TO LAST	15809	-4741.79	92.88	11309.98
LAST READING	15867	-4799.47	98.94	11310.19
TD	15867	-4799.47	98.94	11310.19

Surface Location	149	FN	1568	FE
Projected BHL	4948	FN	1469	FE
Location of				
Top Perfs/OH	403	FN	1582	FE
Bottom Perfs/OH	4817	FN	1482	FE

SUMMARY of Subsurface Locations

Surface Location	B-23-23S-33E	149	FN	1568	FE	Vert. Depth
Top Perfs/OH	B-23-23S-33E	403	FN	1582	FE	11223.38
Bottom Perfs/OH	O-23-23S-33E	4817	FN	1482	FE	11310.14
Projected TD	O-23-23S-33E	4948	FN	1469	FE	11310.19

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Directional Survey

Well Name BRININSTOOL 23-23-33 USA 001H		Lease Brininstool 23-23-33 USA		Field Name Bell Lake North		Business Unit Mid-Continent	
Ground Elevation (ft) 3,673.00	Original RKB (ft) 3,698.00	Current RKB Elevation 3,698.00; 11/19/2013				Mud Line Elevation (ft)	Water Depth (ft)

Wellbore Name Original Hole		Parent Wellbore Original Hole		Kick Off Depth (ftKB) 5.230		Vertical Section Direction (°) 179.56	
UTM Northing (Y) (ft)			UTM Easting (X) (ft)			UTM Grid Zone	
Date 11/22/2013		Definitive? Y		Description MWD		Planned? N	
MD Tie In (ftKB)		TVD Tie In (ftKB)	Inclination Tie In (°)	Azimuth Tie In (°)		NSTie In (ft)	EW Tie In (ft)

Survey Data

MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	NS (ft)	EW (ft)	VS (ft)	DLS (°/100ft)	Method	Survey Company	Build (°/100ft)	Depart (ft)	Turn (°/100ft)	Unuse d data
211	0.30	14.60	211.00	0.53	0.14	-0.53	0.14	Magn MWD	Phoenix Directional	0.14	0.55	6.92	N
389	0.30	5.00	389.00	1.45	0.30	-1.45	0.03	Magn MWD	Phoenix Directional	0.00	1.48	-5.39	N
573	0.40	43.00	572.99	2.40	0.78	-2.39	0.13	Magn MWD	Phoenix Directional	0.05	2.52	20.65	N
754	0.50	19.90	753.99	3.60	1.48	-3.59	0.11	Magn MWD	Phoenix Directional	0.06	3.89	-12.76	N
933	0.60	15.40	932.98	5.24	1.99	-5.23	0.06	Magn MWD	Phoenix Directional	0.06	5.61	-2.51	N
1,112	0.50	348.90	1,111.97	6.91	2.09	-6.90	0.15	Magn MWD	Phoenix Directional	-0.06	7.22	186.31	N
1,291	0.70	354.60	1,290.96	8.77	1.84	-8.75	0.12	Magn MWD	Phoenix Directional	0.11	8.96	3.18	N
1,343	0.70	0.90	1,342.96	9.40	1.81	-9.39	0.15	Magn MWD	Phoenix Directional	0.00	9.57	680.19	N
1,472	1.00	7.20	1,471.94	11.31	1.97	-11.29	0.24	Magn MWD	Phoenix Directional	0.23	11.48	4.88	N
1,651	1.10	15.20	1,650.91	14.51	2.61	-14.49	0.10	Magn MWD	Phoenix Directional	0.06	14.75	4.47	N
1,830	1.20	20.70	1,829.88	17.92	3.72	-17.90	0.08	Magn MWD	Phoenix Directional	0.06	18.31	3.07	N
2,009	1.20	19.40	2,008.84	21.45	5.01	-21.41	0.02	Magn MWD	Phoenix Directional	0.00	22.02	-0.73	N
2,189	1.20	17.40	2,188.80	25.02	6.20	-24.97	0.02	Magn MWD	Phoenix Directional	0.00	25.78	-1.11	N
2,368	1.30	14.20	2,367.76	28.78	7.26	-28.72	0.07	Magn MWD	Phoenix Directional	0.06	29.68	-1.79	N
2,546	1.50	15.10	2,545.70	32.99	8.36	-32.92	0.11	Magn MWD	Phoenix Directional	0.11	34.03	0.51	N
2,725	1.60	15.60	2,724.64	37.66	9.64	-37.58	0.06	Magn MWD	Phoenix Directional	0.06	38.87	0.28	N
2,904	1.90	16.70	2,903.55	42.90	11.17	-42.82	0.17	Magn MWD	Phoenix Directional	0.17	44.33	0.61	N
3,082	2.20	16.40	3,081.44	49.01	12.98	-48.91	0.17	Magn MWD	Phoenix Directional	0.17	50.70	-0.17	N
3,261	2.40	18.20	3,260.30	55.86	15.12	-55.75	0.12	Magn MWD	Phoenix Directional	0.11	57.87	1.01	N
3,440	1.10	356.80	3,439.21	61.14	16.20	-61.01	0.80	Magn MWD	Phoenix Directional	-0.73	63.25	189.16	N
3,619	1.40	1.20	3,618.17	65.04	16.15	-64.92	0.18	Magn MWD	Phoenix Directional	0.17	67.02	198.66	N
3,798	1.20	259.00	3,797.14	66.87	14.35	-66.76	1.13	Magn MWD	Phoenix Directional	-0.11	68.39	144.02	N
3,977	1.30	261.20	3,976.10	66.20	10.50	-66.12	0.06	Magn MWD	Phoenix Directional	0.06	67.03	1.23	N
4,155	1.40	252.40	4,154.05	65.24	6.44	-65.18	0.13	Magn MWD	Phoenix Directional	0.06	65.55	-4.94	N
4,334	1.10	251.70	4,333.00	64.04	2.72	-64.01	0.17	Magn MWD	Phoenix Directional	-0.17	64.09	-0.39	N
4,513	0.90	235.20	4,511.98	62.69	-0.06	-62.69	0.19	Magn MWD	Phoenix Directional	-0.11	62.69	-9.22	N



Directional Survey

Well Name BRININSTOOL 23-23-33 USA 001H		Lease Brininstool 23-23-33 USA		Field Name Bell Lake North		Business Unit Mid-Continent	
Ground Elevation (ft) 3,673.00	Original RKB (ft) 3,698.00	Current RKB Elevation 3,698.00, 11/19/2013				Mud Line Elevation (ft)	Water Depth (ft)

Survey Data													
MD (RKB)	Incl (°)	Azm (°)	TVD (RKB)	NS (ft)	EW (ft)	VS (ft)	DLS (°/100ft)	Method	Survey Company	Build (°/100ft)	Depth (ft)	Turn (°/100ft)	Unuse d data
4,692	0.70	221.20	4,690.96	61.07	-1.94	-61.08	0.16	Magn MWD	Phoenix Directional	-0.11	61.10	-7.82	N
4,870	0.70	174.90	4,868.95	59.17	-2.56	-59.19	0.31	Magn MWD	Phoenix Directional	0.00	59.22	-26.01	N
5,049	1.10	145.50	5,047.93	56.66	-1.49	-56.67	0.33	Magn MWD	Phoenix Directional	0.22	56.68	-16.42	N
5,152	0.90	140.40	5,150.91	55.22	-0.41	-55.23	0.21	Magn MWD	Phoenix Directional	-0.19	55.23	-4.95	N
5,328	0.90	138.40	5,326.89	53.13	1.39	-53.11	0.02	Magn MWD	Phoenix Directional	0.00	53.14	-1.14	N
5,506	0.80	152.30	5,504.87	50.98	2.89	-50.96	0.13	Magn MWD	Phoenix Directional	-0.06	51.06	7.81	N
5,685	0.70	150.70	5,683.85	48.92	4.01	-48.89	0.06	Magn MWD	Phoenix Directional	-0.06	49.08	-0.89	N
5,864	0.70	150.00	5,862.84	47.02	5.09	-46.98	0.00	Magn MWD	Phoenix Directional	0.00	47.29	-0.39	N
6,043	0.60	146.30	6,041.83	45.29	6.16	-45.24	0.06	Magn MWD	Phoenix Directional	-0.06	45.71	-2.07	N
6,222	0.60	150.80	6,220.82	43.70	7.13	-43.64	0.03	Magn MWD	Phoenix Directional	0.00	44.27	2.51	N
6,401	0.50	162.90	6,399.81	42.13	7.82	-42.07	0.09	Magn MWD	Phoenix Directional	-0.06	42.85	6.76	N
6,580	0.60	157.80	6,578.80	40.52	8.40	-40.45	0.06	Magn MWD	Phoenix Directional	0.06	41.38	-2.85	N
6,759	0.70	155.40	6,757.79	38.65	9.21	-38.58	0.06	Magn MWD	Phoenix Directional	0.06	39.74	-1.34	N
6,938	0.60	152.20	6,936.78	36.83	10.11	-36.75	0.06	Magn MWD	Phoenix Directional	-0.06	38.19	-1.79	N
7,117	0.60	145.90	7,115.77	35.23	11.07	-35.14	0.04	Magn MWD	Phoenix Directional	0.00	36.92	-3.52	N
7,295	0.60	140.90	7,293.76	33.73	12.18	-33.64	0.03	Magn MWD	Phoenix Directional	0.00	35.86	-2.81	N
7,474	0.80	154.20	7,472.75	31.88	13.31	-31.78	0.14	Magn MWD	Phoenix Directional	0.11	34.55	7.43	N
7,653	0.70	160.00	7,651.73	29.73	14.23	-29.62	0.07	Magn MWD	Phoenix Directional	-0.06	32.96	3.24	N
7,831	0.70	177.50	7,829.72	27.62	14.65	-27.50	0.12	Magn MWD	Phoenix Directional	0.00	31.26	9.83	N
8,010	0.80	179.20	8,008.70	25.28	14.72	-25.16	0.06	Magn MWD	Phoenix Directional	0.06	29.25	0.95	N
8,189	1.00	178.40	8,187.68	22.47	14.78	-22.35	0.11	Magn MWD	Phoenix Directional	0.11	26.89	-0.45	N
8,368	1.00	184.10	8,366.65	19.35	14.71	-19.23	0.06	Magn MWD	Phoenix Directional	0.00	24.30	3.18	N
8,547	1.10	172.50	8,545.62	16.08	14.82	-15.97	0.13	Magn MWD	Phoenix Directional	0.06	21.87	-6.48	N
8,726	1.30	170.30	8,724.59	12.38	15.39	-12.26	0.11	Magn MWD	Phoenix Directional	0.11	19.75	-1.23	N
8,905	1.20	166.30	8,903.54	8.56	16.17	-8.43	0.07	Magn MWD	Phoenix Directional	-0.06	18.30	-2.23	N
9,083	1.30	167.10	9,081.50	4.78	17.07	-4.65	0.06	Magn MWD	Phoenix Directional	0.06	17.72	0.45	N
9,262	1.00	187.00	9,260.46	1.25	17.33	-1.12	0.28	Magn MWD	Phoenix Directional	-0.17	17.37	11.12	N
9,441	1.40	205.40	9,439.43	-2.28	16.20	2.40	0.31	Magn MWD	Phoenix Directional	0.22	16.36	10.28	N
9,620	1.00	229.70	9,618.39	-5.26	14.07	5.37	0.36	Magn MWD	Phoenix Directional	-0.22	15.02	13.58	N



Directional Survey

Well Name: BRININSTOOL 23-23-33 USA 001H		Lease: Brininstool 23-23-33 USA		Field Name: Bell Lake North		Business Unit: Mid-Continent	
Ground Elevation (ft) 3,673.00	Original RKB (ft) 3,698.00	Current RKB Elevation: 3,698.00, 11/19/2013		Mud Line Elevation (ft)		Water Depth (ft)	

Survey Data

MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	NS (ft)	EW (ft)	VS (ft)	DLS (°/100ft)	Method	Survey Company	Build (°/100ft)	Depart (ft)	Turn (°/100ft)	Unuse d data
9.798	1.20	236.80	9.796.35	-7.29	11.33	7.37	0.14	Magn MWD	Phoenix Directional	0.11	13.47	3.99	N
9.977	1.90	235.60	9.975.29	-9.99	7.31	10.05	0.39	Magn MWD	Phoenix Directional	0.39	12.38	-0.67	N
10.157	1.40	259.30	10.155.21	-12.09	2.69	12.11	0.46	Magn MWD	Phoenix Directional	-0.28	12.38	13.17	N
10.336	1.00	252.50	10.334.18	-12.96	-0.95	12.95	0.24	Magn MWD	Phoenix Directional	-0.22	13.00	-3.80	N
10.515	1.10	252.00	10.513.15	-13.96	-4.07	13.93	0.06	Magn MWD	Phoenix Directional	0.06	14.54	-0.28	N
10.646	1.50	257.30	10.644.11	-14.73	-6.94	14.67	0.32	Magn MWD	Phoenix Directional	0.31	16.28	4.05	N
10.733	2.50	202.00	10.731.06	-16.74	-8.77	16.67	2.36	Magn MWD	Phoenix Directional	1.15	18.89	-63.56	N
10.778	5.00	182.00	10.775.97	-19.61	-9.20	19.54	6.19	Magn MWD	Phoenix Directional	5.56	21.66	-44.44	N
10.823	6.80	175.00	10.820.73	-24.22	-9.04	24.15	4.30	Magn MWD	Phoenix Directional	4.00	25.85	-15.56	N
10.868	9.00	174.00	10.865.30	-30.38	-8.44	30.31	4.90	Magn MWD	Phoenix Directional	4.89	31.53	-2.22	N
10.912	11.90	173.00	10.908.56	-38.30	-7.52	38.24	6.60	Magn MWD	Phoenix Directional	6.59	39.04	-2.27	N
10.957	14.20	173.90	10.952.40	-48.40	-6.37	48.35	5.13	Magn MWD	Phoenix Directional	5.11	48.82	2.00	N
11.002	19.00	177.30	10.995.51	-61.21	-5.44	61.17	10.88	Magn MWD	Phoenix Directional	10.67	61.45	7.56	N
11.047	24.60	181.30	11.037.28	-77.91	-5.31	77.86	12.87	Magn MWD	Phoenix Directional	12.44	78.09	8.89	N
11.091	30.50	182.40	11.076.27	-98.24	-5.98	98.19	13.46	Magn MWD	Phoenix Directional	13.41	98.42	2.50	N
11.136	36.20	183.70	11.113.85	-122.93	-7.32	122.87	12.77	Magn MWD	Phoenix Directional	12.67	123.15	2.89	N
11.181	43.00	183.50	11.148.50	-151.54	-9.12	151.46	15.11	Magn MWD	Phoenix Directional	15.11	151.81	-0.44	N
11.226	49.30	183.70	11.179.66	-183.91	-11.16	183.82	14.00	Magn MWD	Phoenix Directional	14.00	184.25	0.44	N
11.270	56.50	181.90	11.206.18	-218.94	-12.84	218.83	16.68	Magn MWD	Phoenix Directional	16.36	219.31	-4.09	N
11.315	63.90	181.00	11.228.53	-257.95	-13.82	257.83	16.54	Magn MWD	Phoenix Directional	16.44	258.32	-2.00	N
11.360	71.30	180.00	11.245.67	-299.52	-14.17	299.40	16.57	Magn MWD	Phoenix Directional	16.44	299.86	-2.22	N
11.412	79.80	180.40	11.258.63	-349.83	-14.35	349.71	16.36	Magn MWD	Phoenix Directional	16.35	350.12	0.77	N
11.431	79.90	179.00	11.261.98	-368.53	-14.25	368.41	7.27	Magn MWD	Phoenix Directional	0.53	368.81	-7.37	N
11.475	81.60	179.00	11.269.21	-412.94	-13.48	412.82	3.78	Magn MWD	Phoenix Directional	3.78	413.16	0.00	N
11.565	85.30	178.00	11.279.36	-501.31	-11.16	501.21	4.30	Magn MWD	Phoenix Directional	4.16	501.43	-1.12	N
11.655	88.70	176.00	11.284.07	-591.05	-6.46	590.98	4.38	Magn MWD	Phoenix Directional	3.78	591.08	-2.22	N
11.744	88.90	176.00	11.285.94	-679.81	-0.25	679.79	0.22	Magn MWD	Phoenix Directional	0.22	679.81	0.00	N
11.834	88.90	176.00	11.287.67	-769.57	6.03	769.60	0.00	Magn MWD	Phoenix Directional	0.00	769.60	0.00	N
11.923	89.20	176.00	11.289.14	-858.34	12.24	858.41	0.34	Magn MWD	Phoenix Directional	0.34	858.43	0.00	N



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Survey Data

MD (RKB)	Incl (°)	Azm (°)	TVD (RKB)	NS (ft)	EW (ft)	VS (ft)	DLS (°/100ft)	Method	Survey Company	Build (°/100ft)	Depart (ft)	Turn (°/100ft)	Unuse d data
12,012	88.90	177.00	11,290.62	-947.16	17.67	947.27	1.17	Magn MWD	Phoenix Directional	-0.34	947.33	1.12	N
12,102	89.50	177.00	11,291.87	-1,037.03	22.38	1,037.17	0.67	Magn MWD	Phoenix Directional	0.67	1,037.27	0.00	N
12,191	91.20	180.00	11,291.33	-1,125.99	24.71	1,126.14	3.87	Magn MWD	Phoenix Directional	1.91	1,126.26	3.37	N
12,281	90.40	180.00	11,290.07	-1,215.98	24.71	1,216.13	0.89	Magn MWD	Phoenix Directional	-0.89	1,216.23	0.00	N
12,370	89.80	180.00	11,289.92	-1,304.98	24.71	1,305.13	0.67	Magn MWD	Phoenix Directional	-0.67	1,305.21	0.00	N
12,460	90.10	180.00	11,290.00	-1,394.98	24.71	1,395.12	0.33	Magn MWD	Phoenix Directional	0.33	1,395.19	0.00	N
12,549	89.50	180.00	11,290.31	-1,483.98	24.71	1,484.12	0.67	Magn MWD	Phoenix Directional	-0.67	1,484.18	0.00	N
12,639	89.60	180.00	11,291.01	-1,573.97	24.71	1,574.12	0.11	Magn MWD	Phoenix Directional	0.11	1,574.17	0.00	N
12,728	89.30	180.00	11,291.87	-1,662.97	24.71	1,663.11	0.34	Magn MWD	Phoenix Directional	-0.34	1,663.15	0.00	N
12,818	89.50	179.00	11,292.81	-1,752.96	25.49	1,753.10	1.13	Magn MWD	Phoenix Directional	0.22	1,753.14	-1.11	N
12,908	89.60	180.00	11,293.52	-1,842.95	26.28	1,843.10	1.12	Magn MWD	Phoenix Directional	0.11	1,843.14	1.11	N
12,997	89.60	180.00	11,294.14	-1,931.95	26.28	1,932.09	0.00	Magn MWD	Phoenix Directional	0.00	1,932.13	0.00	N
13,086	88.55	179.91	11,295.58	-2,020.94	26.35	2,021.08	1.18	Magn MWD	Phoenix Directional	-1.18	2,021.11	-0.10	N
13,176	88.99	179.99	11,297.51	-2,110.92	26.43	2,111.06	0.50	Magn MWD	Phoenix Directional	0.49	2,111.08	0.09	N
13,265	90.92	180.47	11,297.58	-2,199.91	26.07	2,200.05	2.23	Magn MWD	Phoenix Directional	2.17	2,200.06	0.54	N
13,355	90.75	179.75	11,296.27	-2,289.90	25.90	2,290.03	0.82	Magn MWD	Phoenix Directional	-0.19	2,290.05	-0.80	N
13,444	90.04	178.92	11,295.65	-2,378.89	26.93	2,379.03	1.23	Magn MWD	Phoenix Directional	-0.80	2,379.04	-0.93	N
13,533	90.40	178.60	11,295.31	-2,467.87	28.85	2,468.02	0.54	Magn MWD	Phoenix Directional	0.40	2,468.04	-0.36	N
13,623	90.04	178.45	11,294.97	-2,557.84	31.17	2,558.00	0.43	Magn MWD	Phoenix Directional	-0.40	2,558.03	-0.17	N
13,713	90.66	179.80	11,294.42	-2,647.82	32.55	2,648.00	1.65	Magn MWD	Phoenix Directional	0.69	2,648.02	1.50	N
13,802	89.69	179.16	11,294.14	-2,736.82	33.35	2,736.99	1.31	Magn MWD	Phoenix Directional	-1.09	2,737.02	-0.72	N
13,898	90.00	179.00	11,294.40	-2,832.80	34.90	2,832.99	0.36	Magn MWD	Phoenix Directional	0.32	2,833.02	-0.17	N
13,981	90.10	180.00	11,294.33	-2,915.80	35.62	2,915.99	1.21	Magn MWD	Phoenix Directional	0.12	2,916.02	1.20	N
14,071	89.20	180.00	11,294.88	-3,005.80	35.62	3,005.98	1.00	Magn MWD	Phoenix Directional	-1.00	3,006.01	0.00	N
14,160	90.00	180.00	11,295.50	-3,094.79	35.62	3,094.98	0.90	Magn MWD	Phoenix Directional	0.90	3,095.00	0.00	N
14,250	90.00	180.00	11,295.50	-3,184.79	35.62	3,184.97	0.00	Magn MWD	Phoenix Directional	0.00	3,184.99	0.00	N
14,339	89.90	179.00	11,295.58	-3,273.79	36.40	3,273.97	1.13	Magn MWD	Phoenix Directional	-0.11	3,273.99	-1.12	N
14,428	90.10	180.00	11,295.58	-3,362.79	37.17	3,362.97	1.15	Magn MWD	Phoenix Directional	0.22	3,362.99	1.12	N
14,518	90.50	180.00	11,295.11	-3,452.78	37.17	3,452.97	0.44	Magn MWD	Phoenix Directional	0.44	3,452.98	0.00	N



Directional Survey

Well Name BRININSTOOL 23-23-33 USA 001H		Lease Brininstool 23-23-33 USA		Field Name Bell Lake North		Business Unit Mid-Continent	
Ground Elevation (ft) 3,673.00	Original RKB (ft) 3,698.00	Current RKB Elevation: 3,698.00; 11/19/2013				Mud Line Elevation (ft)	Water Depth (ft)

Survey Data													
MD (RKB)	Incl (°)	Azm (°)	TVD (RKB)	NS (ft)	EW (ft)	VS (ft)	DLS (°/100ft)	Method	Survey Company	Build (°/100ft)	Depart (ft)	Turn (°/100ft)	Unuse d data
14,608	89.60	179.00	11,295.03	-3,542.78	37.96	3,542.97	1.49	Magn MWD	Phoenix Directional	-1.00	3,542. 98	-1.11	N
14,695	89.90	179.00	11,295.41	-3,629.76	39.48	3,629.96	0.34	Magn MWD	Phoenix Directional	-0.34	3,629. 98	0.00	N
14,784	89.00	179.00	11,296.26	-3,718.75	41.03	3,718.95	1.01	Magn MWD	Phoenix Directional	-1.01	3,718. 97	0.00	N
14,874	89.52	179.48	11,297.43	-3,808.73	42.22	3,808.94	0.79	Magn MWD	Phoenix Directional	0.58	3,808. 96	0.53	N
14,964	89.25	180.56	11,298.39	-3,898.72	42.19	3,898.93	1.24	Magn MWD	Phoenix Directional	-0.30	3,898. 95	1.20	N
15,053	89.08	178.64	11,299.69	-3,987.71	42.81	3,987.92	2.17	Magn MWD	Phoenix Directional	-0.19	3,987. 94	-2.16	N
15,142	88.02	177.60	11,301.94	-4,076.63	45.73	4,076.86	1.67	Magn MWD	Phoenix Directional	-1.19	4,076. 89	-1.17	N
15,232	89.25	177.01	11,304.09	-4,166.50	49.96	4,166.76	1.52	Magn MWD	Phoenix Directional	1.37	4,166. 80	-0.66	N
15,321	89.96	176.95	11,304.70	-4,255.38	54.65	4,255.67	0.80	Magn MWD	Phoenix Directional	0.80	4,255. 73	-0.07	N
15,411	88.90	176.00	11,305.59	-4,345.20	60.18	4,345.53	1.58	Magn MWD	Phoenix Directional	-1.18	4,345. 62	-1.06	N
15,501	88.50	176.00	11,307.64	-4,434.96	66.46	4,435.34	0.44	Magn MWD	Phoenix Directional	-0.44	4,435. 45	0.00	N
15,590	89.10	175.00	11,309.50	-4,523.66	73.44	4,524.09	1.31	Magn MWD	Phoenix Directional	0.67	4,524. 26	-1.12	N
15,680	89.90	175.00	11,310.29	-4,613.31	81.29	4,613.80	0.89	Magn MWD	Phoenix Directional	0.89	4,614. 03	0.00	N
15,769	90.40	175.00	11,310.05	-4,701.97	89.04	4,702.52	0.56	Magn MWD	Phoenix Directional	0.56	4,702. 82	0.00	N
15,809	89.80	174.00	11,309.98	-4,741.79	92.88	4,742.36	2.92	Magn MWD	Phoenix Directional	-1.50	4,742. 70	-2.50	N
15,867	89.80	174.00	11,310.19	-4,799.47	98.94	4,800.09	0.00	Magn MWD	Phoenix Directional	0.00	4,800. 49	0.00	N