

Results of Directional Survey

API number:	30-025-41331		
OGRID:		Operator:	CHEVRON U S A INC
		Property:	BRININSTOOL 23 23 33 USA # 2H

surface	ULSTR:	A	23	T 23S	R 33E
				150 FNL	400 FEL

BH Loc	ULSTR:	P	23	T 23S	R 33E
15773	MD	11266.5	TVD	333 FSL	364 FEL
				4947 FNL	

Top Perf/OH	ULSTR:	A	23	T 23S	R 33E
10976	MD	10956.1	TVD	252 FNL	418 FEL

Bot Perf/OH	ULSTR:	P	23	T 23S	R 33E
15485	MD	11276.5	TVD	620 FSL	381 FEL
				4660 FNL	

	MD	N/S	E/W	VD
	10963	-95.20	-18.56	10945.35
TOP PERFS/OH	10976	-102.48	-17.93	10956.10
	11008	-120.40	-16.37	10982.56
	15436	-4460.82	16.04	11277.51
BOT PERFS/OH	15485	-4509.74	18.63	11276.47
	15525	-4549.68	20.75	11275.62

NEXT TO LAST	15704	-4728.24	31.61	11269.49
LAST READING	15774	-4798.02	36.28	11266.45
TD	15773	-4797.02	36.21	11266.49

Surface Location	150	FN	400	FE
Projected BHL	4947	FN	364	FE
Location of				
Top Perfs/OH	252	FN	418	FE
Bottom Perfs/OH	4660	FN	381	FE

SUMMARY of Subsurface Locations

Surface Location	A-23-23S-33E	150	FN	400	FE	Vert. Depth
Top Perfs/OH	A-23-23S-33E	252	FN	418	FE	10956.10
Bottom Perfs/OH	P-23-23S-33E	4660	FN	381	FE	11276.47
Projected TD	P-23-23S-33E	4947	FN	364	FE	11266.49



Directional Survey

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Well Name: BRININSTOOL 23-23-33 USA 002H	Lease: Brininstool 23-23-33 USA	Field Name: Brininstool	Business Unit: Mid-Continent
Ground Elevation (ft) 3,627.00	Original RKB (ft) 3,651.50	Current RKB Elevation 3,651.50, 3/14/2014	Mud Line Elevation (ft) 179.53

Wellbore Name Original Hole	Parent Wellbore Original Hole	Kick Off Depth (ftKB) 10.677	Vertical Section Direction (*) 179.53
UTM Northing (Y) (ft)	UTM Easting (X) (ft)	UTM Grid Zone	
Date 3/21/2014	Definitive? Y	Description MWD	Planned? N
MD Tie In (ftKB) 0.00	TVD Tie In (ftKB) 0.00	Inclination Tie In (*) 0.00	Azimuth Tie In (*) 0.00
		NS Tie In (ft) 0.00	EW Tie In (ft) 0.00

Survey Data

MD (ftKB)	Incl (*)	Azim (*)	TVD (ftKB)	NS (ft)	EW (ft)	VS (ft)	DLS (*/100ft)	Method	Survey Company	Build (*/100ft)	Depart (ft)	Turn (*/100ft)	Unuse d data
200	0.77	81.43	199.99	-0.20	1.33	-0.19	0.39	Gyro MS	Multi-Shot	0.39	1.34	40.72	N
300	0.84	82.59	299.98	-0.39	2.72	-0.37	0.07	Gyro MS	Multi-Shot	0.07	2.75	1.16	N
400	0.74	87.11	399.97	0.52	4.09	-0.49	0.12	Gyro MS	Multi-Shot	-0.10	4.13	4.52	N
500	0.87	84.00	499.96	0.63	5.49	-0.59	0.14	Gyro MS	Multi-Shot	0.13	5.53	-3.11	N
600	0.71	128.48	599.96	0.33	6.73	-0.27	0.62	Gyro MS	Multi-Shot	-0.16	6.74	44.48	N
700	0.30	138.55	699.95	-0.25	7.39	0.31	0.42	Gyro MS	Multi-Shot	-0.41	7.39	10.07	N
800	0.43	127.03	799.95	-0.68	7.86	0.74	0.15	Gyro MS	Multi-Shot	0.13	7.89	-11.52	N
900	0.42	87.64	899.95	-0.89	8.53	0.96	0.29	Gyro MS	Multi-Shot	-0.01	8.58	-39.39	N
1,000	0.39	46.47	999.95	-0.64	9.14	0.71	-0.29	Gyro MS	Multi-Shot	-0.03	9.16	-41.17	N
1,100	0.28	15.64	1,099.94	-0.17	9.45	0.25	0.21	Gyro MS	Multi-Shot	-0.11	9.46	-30.83	N
1,200	0.39	34.84	1,199.94	0.35	9.71	-0.27	0.16	Gyro MS	Multi-Shot	0.11	9.72	19.20	N
1,300	0.46	39.44	1,299.94	0.94	10.16	-0.85	0.08	Gyro MS	Multi-Shot	0.07	10.21	4.60	N
1,355	0.68	51.08	1,354.94	1.31	10.56	-1.22	0.45	Gyro MS	Multi-Shot	0.40	10.64	21.16	N
1,647	0.90	359.37	1,646.91	4.69	11.88	-4.60	0.25	Magn MWD	Phoenix Directional	0.08	12.77	105.58	N
1,826	0.63	1.73	1,825.90	7.08	11.90	-6.98	0.15	Magn MWD	Phoenix Directional	-0.15	13.84	-	N
2,005	0.86	358.29	2,004.88	9.41	11.89	-9.31	0.13	Magn MWD	Phoenix Directional	0.13	15.16	199.20	N
2,183	0.99	4.02	2,182.86	12.28	11.95	-12.18	0.09	Magn MWD	Phoenix Directional	0.07	17.14	-	N
2,363	1.34	4.67	2,362.82	15.93	12.23	-15.83	0.19	Magn MWD	Phoenix Directional	0.19	20.08	0.36	N
2,542	1.75	359.04	2,541.75	20.75	12.36	-20.64	0.24	Magn MWD	Phoenix Directional	0.23	24.15	197.97	N
2,721	1.98	4.95	2,720.66	26.56	12.58	-26.46	0.17	Magn MWD	Phoenix Directional	0.13	29.39	-	N
2,900	1.72	11.45	2,899.57	32.27	13.38	-32.16	0.19	Magn MWD	Phoenix Directional	-0.15	34.94	3.63	N
3,078	1.38	16.18	3,077.50	36.95	14.51	-36.83	0.20	Magn MWD	Phoenix Directional	-0.19	39.70	2.66	N
3,257	1.74	26.99	3,256.43	41.44	16.34	-41.31	0.26	Magn MWD	Phoenix Directional	0.20	44.55	6.04	N
3,437	0.51	342.66	3,436.40	44.64	17.34	-44.50	0.79	Magn MWD	Phoenix Directional	-0.68	47.89	175.37	N
3,616	0.85	25.16	3,615.39	46.60	17.67	-46.46	0.33	Magn MWD	Phoenix Directional	0.19	49.84	-	N
3,795	1.01	29.49	3,794.36	49.18	19.01	-49.02	0.10	Magn MWD	Phoenix Directional	0.09	52.73	2.42	N
3,974	0.78	43.42	3,973.34	51.44	20.62	-51.27	0.18	Magn MWD	Phoenix Directional	-0.13	55.42	7.78	N
4,152	0.74	37.54	4,151.33	53.23	22.16	-53.04	0.05	Magn MWD	Phoenix Directional	-0.02	57.66	-3.30	N
4,331	1.59	75.19	4,330.29	54.78	25.26	-54.57	0.62	Magn MWD	Phoenix Directional	0.47	60.32	21.03	N
4,509	1.72	55.50	4,508.22	56.92	29.85	-56.68	0.33	Magn MWD	Phoenix Directional	0.07	64.28	-11.06	N
4,688	1.08	67.66	4,687.16	59.09	33.63	-58.81	0.39	Magn MWD	Phoenix Directional	-0.36	67.99	6.79	N
4,867	2.18	75.73	4,866.09	60.57	38.49	-60.25	0.63	Magn MWD	Phoenix Directional	0.61	71.76	4.51	N



Directional Survey

Well Name BRININSTOOL 23-23-33 USA 002H		Lease Brininstool 23-23-33 USA		Field Name Brininstool		Business Unit Mid-Continent	
Ground Elevation (ft) 3,627.00	Original RKB (ft) 3,651.50	Current RKB Elevation 3,651.50, 3/14/2014		Mud Line Elevation (ft)		Water Depth (ft)	

Survey Data													
MD (RKB)	Inc (°)	Azm (°)	TVD (RKB)	NS (ft)	EW (ft)	VS (ft)	DLS (°/100ft)	Method	Survey Company	Build (°/100ft)	Depth (ft)	Turn (°/100ft)	Unuse d data
5,046	1.01	88.47	5,045.02	61.45	43.36	-61.09	0.68	Magn MWD	Phoenix Directional	-0.65	75.21	7.12	N
5,136	1.27	90.88	5,135.00	61.45	45.15	-61.08	0.29	Magn MWD	Phoenix Directional	0.29	76.26	2.68	N
5,330	0.79	106.28	5,328.97	61.05	48.59	-60.65	0.28	Magn MWD	Phoenix Directional	-0.25	78.02	7.94	N
5,509	0.98	117.73	5,507.95	59.99	51.13	-59.57	0.14	Magn MWD	Phoenix Directional	0.11	78.82	6.40	N
5,688	1.03	8.02	5,686.93	60.87	52.71	-60.43	0.92	Magn MWD	Phoenix Directional	0.03	80.52	-61.29	N
5,867	2.10	309.83	5,865.87	64.56	50.41	-64.15	1.00	Magn MWD	Phoenix Directional	0.60	81.91	168.61	N
6,046	2.50	302.48	6,044.73	68.76	44.60	-68.39	0.28	Magn MWD	Phoenix Directional	0.22	81.96	-4.11	N
6,226	2.44	265.44	6,224.57	70.56	37.47	-70.25	0.87	Magn MWD	Phoenix Directional	-0.03	79.89	-20.58	N
6,405	2.48	255.20	6,403.41	69.27	29.93	-69.02	0.25	Magn MWD	Phoenix Directional	0.02	75.46	-5.72	N
6,583	2.58	265.96	6,581.23	68.01	22.21	-67.82	0.27	Magn MWD	Phoenix Directional	0.06	71.54	6.04	N
6,583	2.58	265.96	6,581.23	68.01	22.21	-67.82	0.27	Magn MWD	Phoenix Directional	0.00	71.54	0.00	N
6,762	2.00	209.55	6,760.11	65.00	16.65	-64.87	1.24	Magn MWD	Phoenix Directional	-0.32	67.10	-31.51	N
6,941	2.21	217.29	6,938.99	59.54	13.01	-59.43	0.20	Magn MWD	Phoenix Directional	0.12	60.95	4.32	N
7,120	1.81	209.39	7,117.88	54.33	9.54	-54.25	0.27	Magn MWD	Phoenix Directional	-0.22	55.16	-4.41	N
7,299	1.90	219.75	7,296.79	49.59	6.25	-49.54	0.19	Magn MWD	Phoenix Directional	0.05	49.98	5.79	N
7,478	1.82	211.79	7,475.69	44.89	2.86	-44.87	0.15	Magn MWD	Phoenix Directional	-0.04	44.98	-4.45	N
7,657	2.03	191.48	7,654.59	39.37	0.73	-39.36	0.40	Magn MWD	Phoenix Directional	0.12	39.37	-11.35	N
7,835	1.60	199.70	7,832.50	33.94	-0.74	-33.94	0.28	Magn MWD	Phoenix Directional	-0.24	33.95	4.62	N
8,014	1.30	197.20	8,011.45	29.65	-2.18	-29.66	0.17	Magn MWD	Phoenix Directional	-0.17	29.73	-1.40	N
8,193	1.80	192.70	8,190.38	24.96	-3.40	-24.99	0.29	Magn MWD	Phoenix Directional	0.28	25.19	-2.51	N
8,372	1.64	185.71	8,369.30	19.67	-4.27	-19.71	0.15	Magn MWD	Phoenix Directional	-0.09	20.13	-3.91	N
8,551	1.39	178.56	8,548.24	14.95	-4.47	-14.99	0.17	Magn MWD	Phoenix Directional	-0.14	15.61	-3.99	N
8,730	1.33	173.78	8,727.19	10.72	-4.19	-10.75	0.07	Magn MWD	Phoenix Directional	-0.03	11.51	-2.67	N
8,909	1.61	156.30	8,906.13	6.35	-2.96	-6.37	0.29	Magn MWD	Phoenix Directional	0.16	7.00	-9.77	N
9,089	1.49	160.06	9,086.06	1.83	-1.14	-1.84	0.09	Magn MWD	Phoenix Directional	-0.07	2.16	2.09	N
9,268	1.24	203.15	9,265.02	-2.13	-1.11	2.12	0.57	Magn MWD	Phoenix Directional	-0.14	2.41	24.07	N
9,447	1.63	228.03	9,443.96	-5.62	-3.76	5.59	0.41	Magn MWD	Phoenix Directional	0.22	6.76	13.90	N
9,626	1.65	221.10	9,622.89	-9.26	-7.35	9.20	0.11	Magn MWD	Phoenix Directional	0.01	11.82	-3.87	N
9,805	1.98	260.40	9,801.81	-11.72	-12.09	11.62	0.70	Magn MWD	Phoenix Directional	0.18	16.84	21.96	N



Directional Survey

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Ground Elevation (ft) 3,627.00	Original RKB (ft) 3,651.50	Current RKB Elevation 3,651.50, 3/14/2014		Mud Line Elevation (ft)		Water Depth (ft)	

Survey Data													
MD (ftKB)	Inc (°)	Azm (°)	TVD (ftKB)	NS (ft)	EW (ft)	VS (ft)	DLS (°/100ft)	Method	Survey Company	Budd (°/100ft)	Depart (ft)	Turn (°/100ft)	Unuse d data
9,984	1.48	259.38	9,980.72	-12.66	-17.42	12.52	0.28	Magn MWD	Phoenix Directional	-0.28	21.53	-0.57	N
10,163	0.73	219.57	10,159.69	-13.97	-20.41	13.80	0.58	Magn MWD	Phoenix Directional	-0.42	24.73	-22.24	N
10,342	0.97	233.68	10,338.67	-15.74	-22.36	15.56	0.18	Magn MWD	Phoenix Directional	0.13	27.35	7.88	N
10,521	0.95	247.04	10,517.65	-17.22	-24.95	17.01	0.13	Magn MWD	Phoenix Directional	-0.01	30.31	7.46	N
10,624	1.10	246.09	10,620.63	-17.95	-26.64	17.73	0.15	Magn MWD	Phoenix Directional	0.15	32.12	-0.92	N
10,695	2.02	185.33	10,691.61	-19.48	-27.38	19.25	2.49	Magn MWD	Phoenix Directional	1.30	33.60	-85.58	N
10,740	6.92	172.03	10,736.46	-22.95	-27.07	22.73	11.06	Magn MWD	Phoenix Directional	10.89	35.49	-29.56	N
10,784	11.64	170.08	10,779.87	-29.95	-25.94	29.74	10.75	Magn MWD	Phoenix Directional	10.73	39.63	-4.43	N
10,829	16.50	173.42	10,823.51	-40.78	-24.43	40.58	10.95	Magn MWD	Phoenix Directional	10.80	47.54	7.42	N
10,874	21.42	172.16	10,866.05	-55.28	-22.57	55.09	10.97	Magn MWD	Phoenix Directional	10.93	59.71	-2.80	N
10,919	27.04	174.71	10,907.07	-73.62	-20.51	73.45	12.70	Magn MWD	Phoenix Directional	12.49	76.42	5.67	N
10,963	32.00	174.97	10,945.35	-95.20	-18.56	95.05	11.28	Magn MWD	Phoenix Directional	11.27	97.00	0.59	N
11,008	36.40	175.07	10,982.56	-120.40	-16.37	120.26	9.78	Magn MWD	Phoenix Directional	9.78	121.50	0.22	N
11,053	40.37	175.53	11,017.82	-148.24	-14.08	148.12	8.84	Magn MWD	Phoenix Directional	8.82	148.91	1.02	N
11,098	44.40	176.78	11,051.06	-178.50	-12.06	178.39	9.15	Magn MWD	Phoenix Directional	8.96	178.91	2.78	N
11,143	49.13	176.63	11,081.87	-211.22	-10.18	211.13	10.51	Magn MWD	Phoenix Directional	10.51	211.46	-0.33	N
11,187	53.25	177.09	11,109.44	-245.45	-8.30	245.37	9.40	Magn MWD	Phoenix Directional	9.36	245.59	1.05	N
11,232	55.80	178.17	11,135.56	-282.06	-6.79	281.99	5.99	Magn MWD	Phoenix Directional	5.67	282.14	2.40	N
11,279	58.81	177.70	11,160.94	-321.58	-5.37	321.53	6.46	Magn MWD	Phoenix Directional	6.40	321.63	-1.00	N
11,324	63.18	179.29	11,182.76	-360.91	-4.34	360.87	10.19	Magn MWD	Phoenix Directional	9.71	360.94	3.53	N
11,369	66.23	179.74	11,201.98	-401.59	-4.00	401.55	6.84	Magn MWD	Phoenix Directional	6.78	401.61	1.00	N
11,414	70.24	179.37	11,218.67	-443.37	-3.68	443.33	8.94	Magn MWD	Phoenix Directional	8.91	443.39	-0.82	N
11,458	75.91	178.53	11,231.47	-485.44	-2.90	485.40	13.02	Magn MWD	Phoenix Directional	12.89	485.45	-1.91	N
11,503	81.49	177.16	11,240.29	-529.52	-1.24	529.49	12.75	Magn MWD	Phoenix Directional	12.40	529.52	-3.04	N
11,546	85.83	176.63	11,245.03	-572.19	1.08	572.17	10.17	Magn MWD	Phoenix Directional	10.09	572.19	-1.23	N
11,591	88.97	176.57	11,247.07	-617.05	3.75	617.06	6.98	Magn MWD	Phoenix Directional	6.98	617.07	-0.13	N
11,680	90.48	178.39	11,247.50	-705.96	7.66	706.00	2.66	Magn MWD	Phoenix Directional	1.70	706.00	2.04	N
11,770	91.20	178.19	11,246.18	-795.91	10.34	795.97	0.83	Magn MWD	Phoenix Directional	0.80	795.98	-0.22	N
11,859	91.12	179.27	11,244.38	-884.87	12.32	884.94	1.22	Magn MWD	Phoenix Directional	-0.09	884.95	1.21	N



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Survey Data													
MD (ft)	Incl (°)	Azm (°)	TVD (ft)	NS (ft)	EW (ft)	VS (ft)	DLS (°/100ft)	Method	Survey Company	Build (°/100ft)	Depart (ft)	Turn (°/100ft)	Unusable data
11,948	89.78	179.98	11,243.68	-973.86	12.90	973.93	1.70	Magn MWD	Phoenix Directional	-1.51	973.95	0.80	N
12,038	89.64	179.94	11,244.14	-1,063.86	12.96	1,063.93	0.16	Magn MWD	Phoenix Directional	-0.16	1,063.94	-0.04	N
12,127	90.28	179.49	11,244.20	-1,152.86	13.40	1,152.93	0.88	Magn MWD	Phoenix Directional	0.72	1,152.94	-0.51	N
12,216	89.55	180.03	11,244.33	-1,241.86	13.78	1,241.93	1.02	Magn MWD	Phoenix Directional	-0.82	1,241.93	0.61	N
12,306	89.39	179.93	11,245.16	-1,331.85	13.81	1,331.92	0.21	Magn MWD	Phoenix Directional	-0.18	1,331.92	-0.11	N
12,395	88.88	181.72	11,246.51	-1,420.83	12.53	1,420.88	2.09	Magn MWD	Phoenix Directional	-0.57	1,420.88	2.01	N
12,484	88.74	181.87	11,248.35	-1,509.77	9.74	1,509.80	0.23	Magn MWD	Phoenix Directional	-0.16	1,509.80	0.17	N
12,574	88.57	181.23	11,250.47	-1,599.71	7.31	1,599.71	0.74	Magn MWD	Phoenix Directional	-0.19	1,599.73	-0.71	N
12,663	88.35	180.56	11,252.86	-1,688.66	5.92	1,688.66	0.79	Magn MWD	Phoenix Directional	-0.25	1,688.68	-0.75	N
12,753	88.69	180.29	11,255.18	-1,778.63	5.25	1,778.62	0.48	Magn MWD	Phoenix Directional	0.38	1,778.64	-0.30	N
12,842	88.83	179.54	11,257.11	-1,867.61	5.38	1,867.59	0.86	Magn MWD	Phoenix Directional	0.16	1,867.62	-0.84	N
12,931	88.63	179.45	11,259.08	-1,956.59	6.16	1,956.57	0.25	Magn MWD	Phoenix Directional	-0.22	1,956.59	-0.10	N
13,021	88.57	180.86	11,261.28	-2,046.56	5.92	2,046.54	1.57	Magn MWD	Phoenix Directional	-0.07	2,046.56	1.57	N
13,110	88.55	181.04	11,263.52	-2,135.52	4.45	2,135.48	0.20	Magn MWD	Phoenix Directional	-0.02	2,135.52	0.20	N
13,200	89.02	180.42	11,265.43	-2,225.49	3.30	2,225.44	0.86	Magn MWD	Phoenix Directional	0.52	2,225.49	-0.69	N
13,289	89.33	180.03	11,266.71	-2,314.48	2.95	2,314.42	0.56	Magn MWD	Phoenix Directional	0.35	2,314.48	-0.44	N
13,378	89.44	179.47	11,267.66	-2,403.47	3.34	2,403.42	0.64	Magn MWD	Phoenix Directional	0.12	2,403.47	-0.63	N
13,468	89.86	178.99	11,268.21	-2,493.46	4.55	2,493.41	0.71	Magn MWD	Phoenix Directional	0.47	2,493.46	-0.53	N
13,557	90.59	178.57	11,267.86	-2,582.44	6.44	2,582.40	0.95	Magn MWD	Phoenix Directional	0.82	2,582.45	-0.47	N
13,647	90.14	179.80	11,267.29	-2,672.43	7.72	2,672.40	1.46	Magn MWD	Phoenix Directional	-0.50	2,672.44	1.37	N
13,736	90.59	181.63	11,266.72	-2,761.41	6.61	2,761.37	2.12	Magn MWD	Phoenix Directional	0.51	2,761.42	2.06	N
13,826	91.17	181.12	11,265.34	-2,851.38	4.45	2,851.32	0.86	Magn MWD	Phoenix Directional	0.64	2,851.38	-0.57	N
13,915	89.11	181.45	11,265.12	-2,940.35	2.46	2,940.27	2.34	Magn MWD	Phoenix Directional	-2.31	2,940.35	0.37	N
14,004	88.97	181.17	11,266.61	-3,029.31	0.42	3,029.21	0.35	Magn MWD	Phoenix Directional	-0.16	3,029.31	-0.31	N
14,094	88.99	180.68	11,268.22	-3,119.29	-1.03	3,119.17	0.54	Magn MWD	Phoenix Directional	0.02	3,119.29	-0.54	N
14,183	89.50	180.21	11,269.39	-3,208.28	-1.72	3,208.15	0.78	Magn MWD	Phoenix Directional	0.57	3,208.28	-0.53	N
14,273	89.66	179.86	11,270.05	-3,298.27	-1.78	3,298.15	0.43	Magn MWD	Phoenix Directional	0.18	3,298.27	-0.39	N
14,362	89.89	179.37	11,270.40	-3,387.27	-1.18	3,387.15	0.61	Magn MWD	Phoenix Directional	0.26	3,387.27	-0.55	N
14,452	88.41	180.15	11,271.73	-3,477.26	-0.80	3,477.13	1.86	Magn MWD	Phoenix Directional	-1.64	3,477.26	0.87	N



Directional Survey

Well Name BRININSTOOL 23-23-33 USA 002H		Lease Brininstool 23-23-33 USA		Field Name Brininstool		Business Unit Mid-Continent	
Ground Elevation (ft) 3,627.00	Original RKB (ft) 3,651.50	Current RKB Elevation 3,651.50, 3/14/2014				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)	Unusable data
14,541	88.04	180.31	11,274.49	-3,566.21	-1.16	3,566.08	0.45	Magn MWD	Phoenix Directional	-0.42	3,566.21	0.18	N
14,630	88.52	180.34	11,277.16	-3,655.17	-1.66	3,655.03	0.54	Magn MWD	Phoenix Directional	0.54	3,655.17	0.03	N
14,720	88.94	180.00	11,279.16	-3,745.15	-1.93	3,745.01	0.60	Magn MWD	Phoenix Directional	0.47	3,745.15	-0.38	N
14,809	89.41	179.71	11,280.44	-3,834.14	-1.70	3,833.99	0.62	Magn MWD	Phoenix Directional	0.53	3,834.14	-0.33	N
14,899	89.94	179.12	11,280.95	-3,924.13	-0.79	3,923.99	0.88	Magn MWD	Phoenix Directional	0.59	3,924.13	-0.66	N
14,988	90.03	178.92	11,280.97	-4,013.12	0.74	4,012.99	0.25	Magn MWD	Phoenix Directional	0.10	4,013.12	-0.22	N
15,078	90.34	178.40	11,280.68	-4,103.09	2.84	4,102.98	0.67	Magn MWD	Phoenix Directional	0.34	4,103.09	-0.58	N
15,167	90.28	178.12	11,280.20	-4,192.05	5.54	4,191.95	0.32	Magn MWD	Phoenix Directional	-0.07	4,192.05	-0.31	N
15,257	90.45	178.12	11,279.63	-4,282.00	8.50	4,281.92	0.19	Magn MWD	Phoenix Directional	0.19	4,282.01	0.00	N
15,346	90.64	177.57	11,278.78	-4,370.93	11.84	4,370.88	0.65	Magn MWD	Phoenix Directional	0.21	4,370.95	-0.62	N
15,436	90.98	177.09	11,277.51	-4,460.82	16.04	4,460.81	0.65	Magn MWD	Phoenix Directional	0.38	4,460.85	-0.53	N
15,525	91.45	176.84	11,275.62	-4,549.68	20.75	4,549.70	0.60	Magn MWD	Phoenix Directional	0.53	4,549.73	-0.28	N
15,615	91.96	176.53	11,272.94	-4,639.49	25.95	4,639.55	0.66	Magn MWD	Phoenix Directional	0.57	4,639.56	-0.34	N
15,704	92.49	176.17	11,269.49	-4,728.24	31.61	4,728.34	0.72	Magn MWD	Phoenix Directional	0.60	4,728.35	-0.40	N
15,774	92.49	176.17	11,266.45	-4,798.02	36.28	4,798.15	0.00	Magn MWD	Phoenix Directional	0.00	4,798.16	0.00	N