

Results of Directional Survey

API number:	30-025-41360		
OGRID:		Operator:	CHEVRON U S A INC
		Property:	LIMESTONE 11 23 33 FEDERAL # 1H

surface	ULSTR:	D	11	T	23S	R	33E
				150	FNL	650	FWL

BH Loc	ULSTR:	M	11	T	23S	R	33E
15673	MD	11113.1	TVD	346	FSL	701	FWL
				4934	FNL		

Top Perf/OH	ULSTR:	M	11	T	23S	R	33E
11758	MD	11096.4	TVD	1022	FNL	668	FWL

Bot Perf/OH	ULSTR:	M	11	T	23S	R	33E
15525	MD	11114.9	TVD	494	FSL	689	FWL
				4786	FNL		

	MD	N/S	E/W	VD
	11675	-788.85	15.65	11097.55
TOP PERFS/OH	11758	-871.84	18.38	11096.40
	11765	-878.84	18.61	11096.30
	15521	-4632.20	39.13	11114.98
BOT PERFS/OH	15525	-4636.19	39.44	11114.94
	15610	-4720.93	45.96	11114.13

NEXT TO LAST	15610	-4720.93	45.96	11114.13
LAST READING	15673	-4783.71	51.12	11113.14
TD	15673	-4783.71	51.12	11113.14

Surface Location	150	FN	650	FW
Projected BHL	4934	FN	701	FW
Location of				
Top Perfs/OH	1022	FN	668	FW
Bottom Perfs/OH	4786	FN	689	FW

SUMMARY of Subsurface Locations

Surface Location	D-11-23S-33E	150	FN	650	FW	Vert. Depth
Top Perfs/OH	M-11-23S-33E	1022	FN	668	FW	11096.40
Bottom Perfs/OH	M-11-23S-33E	4786	FN	689	FW	11114.94
Projected TD	M-11-23S-33E	4934	FN	701	FW	11113.14

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Directional Survey

Well Name LIMESTONE 11-23-33 FED 001H	Lease LIMESTONE DRAW FEDERAL	Field Name Brininstool	Business Unit Mid-Continent
Ground Elevation (ft) 3,560.00	Original RKB (ft) 3,585.00	Current RKB Elevation 3,585.00, 10/7/2013	Mud Line Elevation (ft) 0.00
			Water Depth (ft) 0.00

Wellbore Name Original Hole	Parent Wellbore Original Hole	Kick Off Depth (ftKB) 10,525	Vertical Section Direction (*) 179.53
UTM Northing (Y) (ft)	UTM Easting (X) (ft)	UTM Grid Zone	
Date 10/15/2013	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
150	0.40	86.70	150.00	0.03	0.52	-0.03	0.27	Magn MWD	Phoenix Directional	0.27	0.52	57.80	N
300	0.60	96.40	299.99	-0.03	1.83	0.04	0.14	Magn MWD	Phoenix Directional	0.13	1.83	6.47	N
480	0.70	95.30	479.98	-0.23	3.86	0.27	0.06	Magn MWD	Phoenix Directional	0.06	3.86	-0.61	N
667	0.60	100.30	666.97	-0.51	5.96	0.56	0.06	Magn MWD	Phoenix Directional	-0.05	5.98	2.67	N
1,028	0.40	80.20	1,027.96	-0.64	9.06	0.71	0.07	Magn MWD	Phoenix Directional	-0.06	9.08	-5.57	N
1,150	0.40	68.10	1,149.95	-0.41	9.87	0.49	0.07	Magn MWD	Phoenix Directional	0.00	9.88	-9.92	N
1,204	0.40	61.20	1,203.95	-0.25	10.21	0.33	0.09	Magn MWD	Phoenix Directional	0.00	10.22	-12.78	N
1,385	0.50	63.50	1,384.95	0.41	11.47	-0.32	0.06	Magn MWD	Phoenix Directional	0.06	11.48	1.27	N
1,563	0.40	59.40	1,562.94	1.07	12.70	-0.97	0.06	Magn MWD	Phoenix Directional	-0.06	12.75	-2.30	N
1,742	0.50	45.40	1,741.93	1.94	13.80	-1.83	0.08	Magn MWD	Phoenix Directional	0.06	13.93	-7.82	N
1,921	0.40	34.40	1,920.93	3.00	14.71	-2.88	0.07	Magn MWD	Phoenix Directional	-0.06	15.01	-6.15	N
2,100	0.40	14.40	2,099.93	4.13	15.22	-4.00	0.08	Magn MWD	Phoenix Directional	0.00	15.77	-11.17	N
2,279	0.40	20.50	2,278.92	5.32	15.59	-5.19	0.02	Magn MWD	Phoenix Directional	0.00	16.47	3.41	N
2,636	1.40	40.60	2,635.87	9.79	18.86	-9.64	0.29	Magn MWD	Phoenix Directional	0.28	21.26	5.63	N
2,726	1.50	46.80	2,725.84	11.44	20.44	-11.27	0.21	Magn MWD	Phoenix Directional	0.11	23.42	6.89	N
2,815	1.80	45.60	2,814.81	13.21	22.29	-13.03	0.34	Magn MWD	Phoenix Directional	0.34	25.91	-1.35	N
3,068	2.50	51.80	3,067.63	19.40	29.46	-19.16	0.29	Magn MWD	Phoenix Directional	0.28	35.28	2.45	N
3,172	2.70	52.90	3,171.52	22.28	33.20	-22.01	0.20	Magn MWD	Phoenix Directional	0.19	39.98	1.06	N
3,350	3.10	50.00	3,349.29	27.91	40.23	-27.58	0.24	Magn MWD	Phoenix Directional	0.22	48.96	-1.63	N
3,529	0.80	59.40	3,528.18	31.65	45.01	-31.28	1.29	Magn MWD	Phoenix Directional	-1.28	55.03	5.25	N
3,708	0.90	65.70	3,707.16	32.87	47.37	-32.48	0.08	Magn MWD	Phoenix Directional	0.06	57.66	3.52	N
3,886	0.90	63.30	3,885.14	34.07	49.89	-33.66	0.02	Magn MWD	Phoenix Directional	0.00	60.42	-1.35	N
4,065	0.70	70.30	4,064.12	35.07	52.18	-34.64	0.12	Magn MWD	Phoenix Directional	-0.11	62.87	3.91	N
4,245	1.20	100.30	4,244.09	35.11	55.07	-34.65	0.38	Magn MWD	Phoenix Directional	0.28	65.31	16.67	N
4,424	2.00	99.70	4,423.02	34.24	59.99	-33.75	0.45	Magn MWD	Phoenix Directional	0.45	69.08	-0.34	N
4,603	2.40	103.60	4,601.89	32.84	66.71	-32.29	0.24	Magn MWD	Phoenix Directional	0.22	74.36	2.18	N



Directional Survey

Well Name LIMESTONE 11-23-33 FED 001H		Lease LIMESTONE DRAW FEDERAL		Field Name Brininstool		Business Unit Mid-Continent	
Ground Elevation (ft) 3,560.00	Original RKB (ft) 3,585.00	Current RKB Elevation 3,585.00, 10/7/2013				Mud Line Elevation (ft) 0.00	Water Depth (ft) 0.00

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
4,871	2.20	162.50	4,869.71	26.61	73.71	-26.01	0.85	Magn MWD	Phoenix Directional	-0.07	78.37	21.98	N
4,953	2.20	167.70	4,951.65	23.57	74.52	-22.96	0.24	Magn MWD	Phoenix Directional	0.00	78.16	6.34	N
5,025	2.20	167.70	5,023.60	20.87	75.11	-20.25	0.00	Magn MWD	Phoenix Directional	0.00	77.96	0.00	N
5,258	1.80	167.50	5,256.45	12.93	76.86	-12.30	0.17	Magn MWD	Phoenix Directional	-0.17	77.94	-0.09	N
5,437	1.70	167.60	5,435.37	7.59	78.04	-6.95	0.06	Magn MWD	Phoenix Directional	-0.06	78.40	0.06	N
5,616	0.90	84.30	5,614.33	5.14	80.00	-4.48	1.02	Magn MWD	Phoenix Directional	-0.45	80.17	-46.54	N
5,797	1.50	212.90	5,795.31	3.29	80.13	-2.63	1.20	Magn MWD	Phoenix Directional	0.33	80.20	71.05	N
5,974	1.50	228.00	5,972.25	-0.21	77.15	0.84	0.22	Magn MWD	Phoenix Directional	0.00	77.15	8.53	N
6,152	2.70	276.50	6,150.14	-1.29	71.25	1.87	1.15	Magn MWD	Phoenix Directional	0.67	71.27	27.25	N
6,331	2.80	277.10	6,328.94	-0.27	62.73	0.79	0.06	Magn MWD	Phoenix Directional	0.06	62.73	0.34	N
6,570	2.60	277.70	6,567.67	1.18	51.56	-0.75	0.08	Magn MWD	Phoenix Directional	-0.08	51.58	0.25	N
6,689	2.70	281.00	6,686.54	2.07	46.14	-1.69	0.15	Magn MWD	Phoenix Directional	0.08	46.18	2.77	N
6,867	2.90	285.00	6,864.33	4.04	37.67	-3.73	0.16	Magn MWD	Phoenix Directional	0.11	37.89	2.25	N
7,046	2.90	282.00	7,043.10	6.15	28.87	-5.91	0.08	Magn MWD	Phoenix Directional	0.00	29.52	-1.68	N
7,225	3.00	276.00	7,221.87	7.58	19.78	-7.42	0.18	Magn MWD	Phoenix Directional	0.06	21.18	-3.35	N
7,404	3.00	275.00	7,400.62	8.48	10.46	-8.39	0.03	Magn MWD	Phoenix Directional	0.00	13.46	-0.56	N
7,583	2.80	272.00	7,579.39	9.04	1.42	-9.03	0.14	Magn MWD	Phoenix Directional	-0.11	9.15	-1.68	N
7,761	1.70	276.00	7,757.25	9.47	-5.55	-9.51	0.62	Magn MWD	Phoenix Directional	-0.62	10.97	2.25	N
7,940	1.50	280.00	7,936.18	10.15	-10.50	-10.24	0.13	Magn MWD	Phoenix Directional	-0.11	14.60	2.23	N
8,119	1.60	279.00	8,115.12	10.95	-15.27	-11.08	0.06	Magn MWD	Phoenix Directional	0.06	18.79	-0.56	N
8,298	1.50	280.00	8,294.05	11.75	-20.05	-11.91	0.06	Magn MWD	Phoenix Directional	-0.06	23.24	0.56	N
8,476	0.40	2.10	8,472.03	12.77	-22.32	-12.96	0.84	Magn MWD	Phoenix Directional	-0.62	25.72	-156.12	N
8,655	0.40	343.00	8,651.02	14.00	-22.48	-14.18	0.07	Magn MWD	Phoenix Directional	0.00	26.48	190.45	N
8,834	0.40	337.00	8,830.02	15.17	-22.91	-15.36	0.02	Magn MWD	Phoenix Directional	0.00	27.47	-3.35	N
9,013	0.40	331.00	9,009.02	16.29	-23.45	-16.48	0.02	Magn MWD	Phoenix Directional	0.00	28.56	-3.35	N
9,192	0.50	277.00	9,188.01	16.93	-24.53	-17.13	0.23	Magn MWD	Phoenix Directional	0.06	29.81	-30.17	N
9,370	0.80	316.00	9,366.00	17.92	-26.17	-18.13	0.29	Magn MWD	Phoenix Directional	0.17	31.71	21.91	N
9,549	0.90	297.00	9,544.98	19.46	-28.29	-19.69	0.17	Magn MWD	Phoenix Directional	0.06	34.33	-10.61	N
9,728	1.30	283.00	9,723.95	20.55	-31.52	-20.81	0.27	Magn MWD	Phoenix Directional	0.22	37.63	-7.82	N



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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
9,907	1.30	237.00	9,902.91	19.90	-35.20	-20.19	0.57	Magn MWD	Phoenix Directional	0.00	40.44	-25.70	N
10,085	1.60	292.00	10,080.86	19.73	-39.20	-20.05	0.77	Magn MWD	Phoenix Directional	0.17	43.88	30.90	N
10,244	1.50	280.20	10,239.80	20.93	-43.30	-21.29	0.21	Magn MWD	Phoenix Directional	-0.06	48.10	-7.42	N
10,423	1.80	277.60	10,418.72	21.72	-48.40	-22.12	0.17	Magn MWD	Phoenix Directional	0.17	53.05	-1.45	N
10,508	1.80	270.10	10,503.68	21.90	-51.05	-22.32	0.28	Magn MWD	Phoenix Directional	0.00	55.55	-8.82	N
10,557	1.90	174.40	10,552.67	21.09	-51.74	-21.52	5.60	Magn MWD	Phoenix Directional	0.20	55.88	- 195.31	N
10,602	5.80	163.00	10,597.56	18.17	-51.01	-18.59	8.79	Magn MWD	Phoenix Directional	8.67	54.15	-25.33	N
10,647	10.10	174.20	10,642.12	12.07	-49.94	-12.48	10.11	Magn MWD	Phoenix Directional	9.56	51.38	24.89	N
10,691	14.10	181.50	10,685.13	2.87	-49.69	-3.28	9.72	Magn MWD	Phoenix Directional	9.09	49.78	16.59	N
10,736	18.30	179.20	10,728.34	-9.68	-49.74	9.27	9.44	Magn MWD	Phoenix Directional	9.33	50.67	-5.11	N
10,781	22.40	178.80	10,770.52	-25.32	-49.46	24.91	9.12	Magn MWD	Phoenix Directional	9.11	55.56	-0.89	N
10,826	27.30	175.90	10,811.34	-44.20	-48.54	43.80	11.22	Magn MWD	Phoenix Directional	10.89	65.65	-6.44	N
10,870	32.60	174.80	10,849.45	-66.08	-46.74	65.70	12.11	Magn MWD	Phoenix Directional	12.05	80.94	-2.50	N
10,915	38.00	174.60	10,886.17	-91.97	-44.34	91.60	12.00	Magn MWD	Phoenix Directional	12.00	102.10	-0.44	N
10,960	43.60	174.20	10,920.22	-121.22	-41.47	120.87	12.46	Magn MWD	Phoenix Directional	12.44	128.11	-0.89	N
11,004	50.50	174.80	10,950.18	-153.26	-38.39	152.94	15.71	Magn MWD	Phoenix Directional	15.68	157.99	1.36	N
11,049	57.50	175.50	10,976.61	-189.51	-35.33	189.21	15.61	Magn MWD	Phoenix Directional	15.56	192.77	1.56	N
11,094	62.00	176.30	10,999.28	-228.27	-32.55	228.00	10.12	Magn MWD	Phoenix Directional	10.00	230.58	1.78	N
11,138	64.40	176.30	11,019.11	-267.46	-30.02	267.21	5.45	Magn MWD	Phoenix Directional	5.45	269.14	0.00	N
11,183	67.40	176.30	11,037.49	-308.45	-27.37	308.21	6.67	Magn MWD	Phoenix Directional	6.67	309.66	0.00	N
11,228	70.40	176.50	11,053.68	-350.34	-24.73	350.13	6.68	Magn MWD	Phoenix Directional	6.67	351.22	0.44	N
11,273	72.20	175.00	11,068.11	-392.85	-21.57	392.66	5.10	Magn MWD	Phoenix Directional	4.00	393.44	-3.33	N
11,317	75.00	173.60	11,080.53	-434.84	-17.38	434.69	7.06	Magn MWD	Phoenix Directional	6.36	435.19	-3.18	N
11,362	78.30	172.40	11,090.92	-478.29	-12.04	478.18	7.78	Magn MWD	Phoenix Directional	7.33	478.44	-2.67	N
11,407	82.90	171.10	11,098.27	-522.22	-5.67	522.15	10.61	Magn MWD	Phoenix Directional	10.22	522.25	-2.89	N
11,452	89.30	171.50	11,101.33	-566.57	1.12	566.56	14.25	Magn MWD	Phoenix Directional	14.22	566.57	0.89	N
11,541	91.30	175.80	11,100.87	-655.00	10.96	655.07	5.33	Magn MWD	Phoenix Directional	2.25	655.09	4.83	N
11,586	91.60	177.60	11,099.73	-699.91	13.55	700.00	4.05	Magn MWD	Phoenix Directional	0.67	700.04	4.00	N
11,675	91.20	179.70	11,097.55	-788.85	15.65	788.95	2.40	Magn MWD	Phoenix Directional	-0.45	789.01	2.36	N



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Survey Data

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11,765	90.40	179.10	11,096.30	-878.84	16.59	878.94	1.11	Magn MWD	Phoenix Directional	-0.89	878.99	-0.67	N
11,854	90.10	178.30	11,095.91	-967.81	18.61	967.93	0.96	Magn MWD	Phoenix Directional	-0.34	967.99	-0.90	N
11,943	90.00	177.60	11,095.83	-1,056.76	21.79	1,056.90	0.79	Magn MWD	Phoenix Directional	-0.11	1,056. 98	-0.79	N
12,035	90.70	178.00	11,095.27	-1,148.69	25.32	1,148.85	0.88	Magn MWD	Phoenix Directional	0.76	1,148. 96	0.43	N
12,124	91.80	179.00	11,093.33	-1,237.63	27.65	1,237.82	1.67	Magn MWD	Phoenix Directional	1.24	1,237. 94	1.12	N
12,213	93.00	178.30	11,089.60	-1,326.53	29.75	1,326.73	1.56	Magn MWD	Phoenix Directional	1.35	1,326. 86	-0.79	N
12,303	92.50	179.00	11,085.28	-1,416.40	31.87	1,416.61	0.96	Magn MWD	Phoenix Directional	-0.56	1,416. 76	0.78	N
12,392	92.40	179.50	11,081.48	-1,505.31	33.03	1,505.53	0.57	Magn MWD	Phoenix Directional	-0.11	1,505. 67	0.56	N
12,482	91.40	180.40	11,078.49	-1,595.26	33.11	1,595.47	1.49	Magn MWD	Phoenix Directional	-1.11	1,595. 60	1.00	N
12,571	89.60	181.90	11,077.72	-1,684.23	31.32	1,684.43	2.63	Magn MWD	Phoenix Directional	-2.02	1,684. 52	1.69	N
12,661	90.00	181.80	11,078.03	-1,774.18	28.42	1,774.35	0.46	Magn MWD	Phoenix Directional	0.44	1,774. 41	-0.11	N
12,750	90.40	182.10	11,077.72	-1,863.13	25.39	1,863.27	0.56	Magn MWD	Phoenix Directional	0.45	1,863. 30	0.34	N
12,840	91.10	181.90	11,076.54	-1,953.07	22.25	1,953.18	0.81	Magn MWD	Phoenix Directional	0.78	1,953. 19	-0.22	N
12,929	90.30	182.20	11,075.45	-2,042.00	19.06	2,042.09	0.96	Magn MWD	Phoenix Directional	-0.90	2,042. 09	0.34	N
13,018	90.00	183.40	11,075.22	-2,130.89	14.72	2,130.94	1.39	Magn MWD	Phoenix Directional	-0.34	2,130. 94	1.35	N
13,108	89.00	182.70	11,076.01	-2,220.76	9.93	2,220.77	1.36	Magn MWD	Phoenix Directional	-1.11	2,220. 78	-0.78	N
13,197	89.50	182.90	11,077.17	-2,309.65	5.58	2,309.61	0.61	Magn MWD	Phoenix Directional	0.56	2,309. 65	0.22	N
13,286	88.40	182.00	11,078.80	-2,398.55	1.78	2,398.48	1.60	Magn MWD	Phoenix Directional	-1.24	2,398. 55	-1.01	N
13,376	87.80	181.10	11,081.79	-2,488.46	-0.66	2,488.37	1.20	Magn MWD	Phoenix Directional	-0.67	2,488. 46	-1.00	N
13,465	88.50	180.90	11,084.66	-2,577.40	-2.21	2,577.30	0.82	Magn MWD	Phoenix Directional	0.79	2,577. 40	-0.22	N
13,554	88.80	180.70	11,086.76	-2,666.37	-3.45	2,666.25	0.41	Magn MWD	Phoenix Directional	0.34	2,666. 37	-0.22	N
13,644	89.10	180.60	11,088.40	-2,756.35	-4.47	2,756.22	0.35	Magn MWD	Phoenix Directional	0.33	2,756. 35	-0.11	N
13,733	89.60	180.40	11,089.41	-2,845.34	-5.25	2,845.20	0.61	Magn MWD	Phoenix Directional	0.56	2,845. 34	-0.22	N
13,822	90.00	180.70	11,089.73	-2,934.33	-6.10	2,934.19	0.56	Magn MWD	Phoenix Directional	0.45	2,934. 34	0.34	N
13,912	89.20	179.80	11,090.35	-3,024.33	-6.50	3,024.17	1.34	Magn MWD	Phoenix Directional	-0.89	3,024. 34	-1.00	N
14,001	89.50	179.70	11,091.36	-3,113.32	-6.11	3,113.17	0.36	Magn MWD	Phoenix Directional	0.34	3,113. 33	-0.11	N
14,091	90.00	179.70	11,091.76	-3,203.32	-5.64	3,203.17	0.56	Magn MWD	Phoenix Directional	0.56	3,203. 33	0.00	N
14,180	88.40	179.40	11,093.00	-3,292.31	-4.94	3,292.15	1.83	Magn MWD	Phoenix Directional	-1.80	3,292. 31	-0.34	N
14,269	88.70	179.10	11,095.25	-3,381.27	-3.77	3,381.12	0.48	Magn MWD	Phoenix Directional	0.34	3,381. 27	-0.34	N



Directional Survey

Well Name LIMESTONE 11-23-33 FED 001H		Lease LIMESTONE DRAW FEDERAL		Field Name Brininstool		Business Unit Mid-Continent	
Ground Elevation (ft) 3,560.00	Original RKB (ft) 3,585.00	Current RKB Elevation 3,585.00, 10/7/2013				Mud Line Elevation (ft) 0.00	Water Depth (ft) 0.00

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
14,359	89.00	179.00	11,097.06	-3,471.24	-2.28	3,471.10	0.35	Magn MWD	Phoenix Directional	0.33	3,471. 24	-0.11	N
14,448	89.50	178.60	11,098.22	-3,560.21	-0.42	3,560.09	0.72	Magn MWD	Phoenix Directional	0.56	3,560. 21	-0.45	N
14,538	90.20	178.90	11,098.46	-3,650.19	1.55	3,650.08	0.85	Magn MWD	Phoenix Directional	0.78	3,650. 19	0.33	N
14,627	88.20	179.10	11,099.70	-3,739.16	3.10	3,739.06	2.26	Magn MWD	Phoenix Directional	-2.25	3,739. 16	0.22	N
14,716	88.40	178.40	11,102.34	-3,828.10	5.04	3,828.01	0.82	Magn MWD	Phoenix Directional	0.22	3,828. 10	-0.79	N
14,806	88.70	178.40	11,104.62	-3,918.04	7.55	3,917.97	0.33	Magn MWD	Phoenix Directional	0.33	3,918. 04	0.00	N
14,895	88.70	178.40	11,106.64	-4,006.98	10.04	4,006.93	0.00	Magn MWD	Phoenix Directional	0.00	4,006. 99	0.00	N
14,985	88.70	177.90	11,108.68	-4,096.91	12.94	4,096.88	0.56	Magn MWD	Phoenix Directional	0.00	4,096. 93	-0.56	N
15,074	89.30	177.40	11,110.23	-4,185.82	16.59	4,185.82	0.88	Magn MWD	Phoenix Directional	0.67	4,185. 85	-0.56	N
15,163	89.50	177.60	11,111.16	-4,274.73	20.47	4,274.75	0.32	Magn MWD	Phoenix Directional	0.22	4,274. 78	0.22	N
15,253	89.10	177.70	11,112.26	-4,364.65	24.16	4,364.70	0.46	Magn MWD	Phoenix Directional	-0.44	4,364. 71	0.11	N
15,342	89.00	177.10	11,113.74	-4,453.54	28.20	4,453.63	0.68	Magn MWD	Phoenix Directional	-0.11	4,453. 63	-0.67	N
15,431	89.60	176.50	11,114.83	-4,542.40	33.17	4,542.52	0.95	Magn MWD	Phoenix Directional	0.67	4,542. 52	-0.67	N
15,521	90.20	175.90	11,114.98	-4,632.20	39.13	4,632.36	0.94	Magn MWD	Phoenix Directional	0.67	4,632. 36	-0.67	N
15,610	90.90	175.30	11,114.13	-4,720.93	45.96	4,721.15	1.04	Magn MWD	Phoenix Directional	0.79	4,721. 16	-0.67	N
15,673	90.90	175.30	11,113.14	-4,783.71	51.12	4,783.97	0.00	Magn MWD	Phoenix Directional	0.00	4,783. 98	0.00	N