



Directional Survey

30-025-41907

Well Name RED HILLS 2-25-33 003H		Lease Red Hills 2-25-33		Field Name RED HILLS		Business Unit Mid-Continent	
Ground Elevation (ft) 3,452.00	Original RKB (ft) 3,427.00	Current RKB Elevation 3,427.00, 7/9/2014				Mud Line Elevation (ft)	Water Depth (ft)

Wellbore Name Original Hole		Parent Wellbore Original Hole		Kick Off Depth (ftKB) 9,036		Vertical Section Direction (°) 359.70	
UTM Northing (Y) (ft)			UTM Easting (X) (ft)			UTM Grid Zone	
Date 7/19/2014		Definitive? N		Description MWD		Planned? N	
MD Tie In (ftKB)	TVD Tie In (ftKB)	Inclination Tie In (°)		Azimuth Tie In (°)		NSTie In (ft)	EWTie 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
139	0.00	101.00	139.00	0.00	0.00	0.00	0.00	Magn MWD	Rig	0.00	0.00	72.66	N
288	0.30	188.00	288.00	-0.39	-0.05	-0.39	0.20	Magn MWD	Rig	0.20	0.39	58.39	N
470	0.60	196.00	469.99	-1.77	-0.38	-1.77	0.17	Magn MWD	Rig	0.16	1.82	4.40	N
644	0.40	44.00	643.99	-2.21	-0.21	-2.21	0.56	Magn MWD	Rig	-0.11	2.22	-87.36	N
824	1.10	24.30	823.97	-0.19	0.94	-0.19	0.41	Magn MWD	Rig	0.39	0.95	-10.94	N
1,003	1.20	11.30	1,002.94	3.22	2.01	3.21	0.16	Magn MWD	Rig	0.06	3.79	-7.26	N
1,093	1.30	8.00	1,092.92	5.15	2.34	5.14	0.14	Magn MWD	Rig	0.11	5.66	-3.67	N
1,183	1.20	3.30	1,182.90	7.10	2.53	7.09	0.16	Magn MWD	Rig	-0.11	7.54	-5.22	N
1,245	1.10	351.00	1,244.88	8.34	2.48	8.33	0.43	Magn MWD	Rig	-0.16	8.70	560.81	N
1,467	0.80	358.00	1,466.85	11.99	2.09	11.98	0.14	Magn MWD	Phoenix Directional	-0.14	12.17	3.15	N
1,646	0.70	13.20	1,645.84	14.31	2.30	14.30	0.12	Magn MWD	Phoenix Directional	-0.06	14.49	192.63	N
1,825	0.80	11.20	1,824.82	16.60	2.79	16.58	0.06	Magn MWD	Phoenix Directional	0.06	16.83	-1.12	N
2,004	1.00	8.70	2,003.80	19.37	3.27	19.35	0.11	Magn MWD	Phoenix Directional	0.11	19.64	-1.40	N
2,183	1.10	356.00	2,182.77	22.63	3.38	22.61	0.14	Magn MWD	Phoenix Directional	0.06	22.88	194.02	N
2,362	1.60	356.50	2,361.72	26.83	3.11	26.82	0.28	Magn MWD	Phoenix Directional	0.28	27.01	0.28	N
2,542	1.10	0.80	2,541.67	31.07	2.98	31.05	0.28	Magn MWD	Phoenix Directional	-0.28	31.21	197.61	N
2,720	1.70	12.40	2,719.62	35.36	3.57	35.34	0.37	Magn MWD	Phoenix Directional	0.34	35.54	6.52	N
2,899	1.70	22.70	2,898.54	40.40	5.17	40.37	0.17	Magn MWD	Phoenix Directional	0.00	40.73	5.75	N
3,078	1.50	32.10	3,077.47	44.83	7.44	44.79	0.18	Magn MWD	Phoenix Directional	-0.11	45.45	5.25	N
3,257	1.30	44.50	3,256.41	48.27	10.10	48.21	0.20	Magn MWD	Phoenix Directional	-0.11	49.31	6.93	N
3,436	1.80	55.40	3,435.35	51.31	13.84	51.24	0.32	Magn MWD	Phoenix Directional	0.28	53.15	6.09	N
3,615	1.20	88.00	3,614.29	52.97	18.03	52.88	0.57	Magn MWD	Phoenix Directional	-0.34	55.96	18.21	N
3,794	1.30	78.70	3,793.25	53.44	21.89	53.32	0.13	Magn MWD	Phoenix Directional	0.06	57.75	-5.20	N
3,973	1.30	88.70	3,972.20	53.88	25.92	53.74	0.13	Magn MWD	Phoenix Directional	0.00	59.79	5.59	N
4,152	1.40	79.20	4,151.15	54.34	30.09	54.18	0.14	Magn MWD	Phoenix Directional	0.06	62.11	-5.31	N
4,330	1.30	97.00	4,329.10	54.50	34.23	54.32	0.24	Magn MWD	Phoenix Directional	-0.06	64.36	10.00	N

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Ground Elevation (ft) 3,452.00	Original RKB (ft) 3,427.00	Current RKB Elevation 3,427.00, 7/9/2014				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)	Unuse d data
4,509	2.70	103.50	4,507.99	53.27	40.35	53.05	0.79	Magn MWD	Phoenix Directional	0.78	66.82	3.63	N
4,688	2.10	106.70	4,686.83	51.34	47.59	51.09	0.34	Magn MWD	Phoenix Directional	-0.34	70.00	1.79	N
4,867	2.40	128.10	4,865.70	48.08	53.68	47.80	0.49	Magn MWD	Phoenix Directional	0.17	72.07	11.96	N
5,008	1.81	120.20	5,006.60	45.14	57.93	44.84	0.47	Magn MWD	Phoenix Directional	-0.42	73.44	-5.60	N
5,234	1.40	116.60	5,232.51	42.11	63.48	41.78	0.19	Magn MWD	Phoenix Directional	-0.18	76.18	-1.59	N
5,413	2.00	144.10	5,411.44	38.60	67.27	38.25	0.56	Magn MWD	Phoenix Directional	0.34	77.56	15.36	N
5,592	2.80	200.70	5,590.30	31.98	67.55	31.63	1.33	Magn MWD	Phoenix Directional	0.45	74.74	31.62	N
5,770	3.00	208.00	5,768.07	23.80	63.83	23.47	0.24	Magn MWD	Phoenix Directional	0.11	68.12	4.10	N
5,949	2.40	232.90	5,946.88	17.40	58.64	17.10	0.73	Magn MWD	Phoenix Directional	-0.34	61.17	13.91	N
6,128	2.40	232.80	6,125.72	12.88	52.67	12.60	0.00	Magn MWD	Phoenix Directional	0.00	54.22	-0.06	N
6,308	2.20	227.70	6,305.58	8.27	47.11	8.03	0.16	Magn MWD	Phoenix Directional	-0.11	47.83	-2.83	N
6,487	2.50	228.40	6,484.43	3.37	41.65	3.15	0.17	Magn MWD	Phoenix Directional	0.17	41.79	0.39	N
6,666	2.00	272.90	6,663.30	0.94	35.61	0.75	0.99	Magn MWD	Phoenix Directional	-0.28	35.62	24.86	N
6,845	0.10	81.70	6,842.27	1.12	32.65	0.94	1.17	Magn MWD	Phoenix Directional	-1.06	32.66	-	N
7,024	0.30	297.30	7,021.27	1.35	32.38	1.18	0.22	Magn MWD	Phoenix Directional	0.11	32.41	106.82	N
7,203	0.40	277.20	7,200.26	1.65	31.35	1.48	0.09	Magn MWD	Phoenix Directional	0.06	31.39	-11.23	N
7,382	0.40	247.10	7,379.26	1.48	30.15	1.32	0.12	Magn MWD	Phoenix Directional	0.00	30.19	-16.82	N
7,561	0.20	166.00	7,558.26	0.94	29.65	0.78	0.23	Magn MWD	Phoenix Directional	-0.11	29.67	-45.31	N
7,739	0.30	128.40	7,736.26	0.34	30.09	0.19	0.10	Magn MWD	Phoenix Directional	0.06	30.09	-21.12	N
7,918	0.50	143.10	7,915.25	-0.57	30.93	-0.73	0.12	Magn MWD	Phoenix Directional	0.11	30.93	8.21	N
8,097	0.60	125.40	8,094.24	-1.74	32.16	-1.91	0.11	Magn MWD	Phoenix Directional	0.06	32.21	-9.89	N
8,277	0.77	127.71	8,274.23	-3.02	33.89	-3.20	0.10	Magn MWD	Phoenix Directional	0.09	34.02	1.28	N
8,445	0.58	157.85	8,442.22	-4.50	35.10	-4.69	0.24	Magn MWD	Phoenix Directional	-0.11	35.39	17.94	N
8,634	0.86	171.12	8,631.20	-6.79	35.68	-6.98	0.17	Magn MWD	Phoenix Directional	0.15	36.32	7.02	N
8,812	0.98	161.10	8,809.18	-9.55	36.38	-9.74	0.11	Magn MWD	Phoenix Directional	0.07	37.61	-5.63	N
8,991	0.50	172.70	8,988.17	-11.77	36.97	-11.97	0.28	Magn MWD	Phoenix Directional	-0.27	38.80	6.48	N
9,036	3.10	349.90	9,033.15	-10.77	36.79	-10.96	8.00	Magn MWD	Phoenix Directional	5.78	38.33	393.78	N
9,081	7.50	354.30	9,077.94	-6.65	36.28	-6.84	9.81	Magn MWD	Phoenix Directional	9.78	36.88	9.78	N
9,126	12.30	357.30	9,122.26	1.07	35.76	0.88	10.72	Magn MWD	Phoenix Directional	10.67	35.78	6.67	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
9,170	17.10	356.40	9,164.81	12.21	35.13	12.03	10.92	Magn MWD	Phoenix Directional	10.91	37.20	-2.05	N
9,215	22.30	355.10	9,207.16	27.33	33.99	27.15	11.60	Magn MWD	Phoenix Directional	11.56	43.62	-2.89	N
9,260	27.20	354.00	9,248.01	46.08	32.18	45.91	10.94	Magn MWD	Phoenix Directional	10.89	56.21	-2.44	N
9,304	32.00	354.30	9,286.26	67.69	29.97	67.53	10.91	Magn MWD	Phoenix Directional	10.91	74.03	0.68	N
9,349	36.30	354.50	9,323.49	92.83	27.51	92.68	9.56	Magn MWD	Phoenix Directional	9.56	96.82	0.44	N
9,394	41.10	355.10	9,358.60	120.84	24.97	120.71	10.70	Magn MWD	Phoenix Directional	10.67	123.39	1.33	N
9,484	52.40	357.10	9,420.17	186.14	20.62	186.03	12.66	Magn MWD	Phoenix Directional	12.56	187.28	2.22	N
9,528	57.10	357.30	9,445.56	222.02	18.87	221.91	10.69	Magn MWD	Phoenix Directional	10.68	222.82	0.45	N
9,573	62.40	356.40	9,468.22	260.81	16.73	260.72	11.90	Magn MWD	Phoenix Directional	11.78	261.35	-2.00	N
9,618	67.30	355.40	9,487.34	301.43	13.81	301.35	11.07	Magn MWD	Phoenix Directional	10.89	301.75	-2.22	N
9,662	74.60	355.20	9,501.69	342.85	10.40	342.79	16.60	Magn MWD	Phoenix Directional	16.59	343.01	-0.45	N
9,707	80.70	356.70	9,511.31	386.68	7.31	386.64	13.94	Magn MWD	Phoenix Directional	13.56	386.75	3.33	N
9,796	91.26	359.47	9,517.54	475.28	4.36	475.25	12.26	Magn MWD	Phoenix Directional	11.87	475.30	3.11	N
9,975	93.30	359.92	9,510.42	654.12	3.41	654.10	1.17	Magn MWD	Phoenix Directional	1.14	654.13	0.25	N
10,065	94.19	0.05	9,504.54	743.93	3.38	743.90	1.00	Magn MWD	Phoenix Directional	0.99	743.94	- 399.86	N
10,155	94.58	0.12	9,497.66	833.67	3.51	833.64	0.44	Magn MWD	Phoenix Directional	0.43	833.67	0.08	N
10,244	93.41	0.86	9,491.46	922.45	4.27	922.41	1.55	Magn MWD	Phoenix Directional	-1.31	922.46	0.83	N
10,334	89.83	0.80	9,488.92	1,012.39	5.58	1,012.34	3.98	Magn MWD	Phoenix Directional	-3.98	1,012. 40	-0.07	N
10,423	90.50	0.07	9,488.66	1,101.38	6.25	1,101.33	1.11	Magn MWD	Phoenix Directional	0.75	1,101. 40	-0.82	N
10,513	92.15	359.99	9,486.58	1,191.35	6.30	1,191.30	1.84	Magn MWD	Phoenix Directional	1.83	1,191. 37	399.91	N
10,602	91.20	359.27	9,483.98	1,280.31	5.73	1,280.27	1.34	Magn MWD	Phoenix Directional	-1.07	1,280. 33	-0.81	N
10,692	90.53	358.62	9,482.62	1,370.29	4.07	1,370.25	1.04	Magn MWD	Phoenix Directional	-0.74	1,370. 29	-0.72	N
10,781	89.72	357.41	9,482.43	1,459.23	0.99	1,459.20	1.64	Magn MWD	Phoenix Directional	-0.91	1,459. 23	-1.36	N
10,871	90.03	358.86	9,482.62	1,549.18	-1.94	1,549.17	1.65	Magn MWD	Phoenix Directional	0.34	1,549. 18	1.61	N
10,961	90.06	0.65	9,482.55	1,639.18	-2.33	1,639.16	1.99	Magn MWD	Phoenix Directional	0.03	1,639. 18	- 398.01	N
11,050	90.06	0.53	9,482.46	1,728.17	-1.41	1,728.15	0.13	Magn MWD	Phoenix Directional	0.00	1,728. 17	-0.13	N
11,139	90.17	0.38	9,482.28	1,817.17	-0.70	1,817.15	0.21	Magn MWD	Phoenix Directional	0.12	1,817. 17	-0.17	N
11,229	90.75	0.17	9,481.56	1,907.16	-0.27	1,907.14	0.69	Magn MWD	Phoenix Directional	0.64	1,907. 16	-0.23	N
11,319	91.23	1.08	9,480.00	1,997.14	0.71	1,997.11	1.14	Magn MWD	Phoenix Directional	0.53	1,997. 14	1.01	N



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Survey Data

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11,408	91.45	1.29	9,477.92	2,086.10	2.55	2,086.06	0.34	Magn MWD	Phoenix Directional	0.25	2,086. 10	0.24	N
11,497	91.99	1.04	9,475.25	2,175.04	4.36	2,174.99	0.67	Magn MWD	Phoenix Directional	0.61	2,175. 05	-0.28	N
11,587	90.95	1.51	9,472.94	2,264.99	6.36	2,264.92	1.27	Magn MWD	Phoenix Directional	-1.16	2,265. 00	0.52	N
11,677	90.14	1.07	9,472.09	2,354.96	8.39	2,354.88	1.02	Magn MWD	Phoenix Directional	-0.90	2,354. 97	-0.49	N
11,766	90.17	0.94	9,471.85	2,443.95	9.95	2,443.86	0.15	Magn MWD	Phoenix Directional	0.03	2,443. 97	-0.15	N
11,856	90.39	0.60	9,471.41	2,533.94	11.16	2,533.84	0.45	Magn MWD	Phoenix Directional	0.24	2,533. 96	-0.38	N
11,945	88.66	0.99	9,472.14	2,622.92	12.39	2,622.82	1.99	Magn MWD	Phoenix Directional	-1.94	2,622. 95	0.44	N
12,035	88.10	0.66	9,474.69	2,712.88	13.69	2,712.77	0.72	Magn MWD	Phoenix Directional	-0.62	2,712. 91	-0.37	N
12,124	87.82	0.06	9,477.86	2,801.82	14.25	2,801.70	0.74	Magn MWD	Phoenix Directional	-0.31	2,801. 85	-0.67	N
12,214	87.63	359.98	9,481.43	2,891.75	14.28	2,891.63	0.23	Magn MWD	Phoenix Directional	-0.21	2,891. 78	399.91	N
12,303	87.54	358.70	9,485.18	2,980.66	13.25	2,980.55	1.44	Magn MWD	Phoenix Directional	-0.10	2,980. 69	-1.44	N
12,392	88.02	358.01	9,488.63	3,069.55	10.70	3,069.46	0.94	Magn MWD	Phoenix Directional	0.54	3,069. 57	-0.78	N
12,482	88.77	357.54	9,491.15	3,159.45	7.21	3,159.37	0.98	Magn MWD	Phoenix Directional	0.83	3,159. 46	-0.52	N
12,571	90.17	358.98	9,491.97	3,248.40	4.50	3,248.33	2.26	Magn MWD	Phoenix Directional	1.57	3,248. 40	1.62	N
12,661	90.31	358.39	9,491.59	3,338.38	2.44	3,338.32	0.67	Magn MWD	Phoenix Directional	0.16	3,338. 38	-0.66	N
12,751	90.78	357.31	9,490.74	3,428.31	-0.94	3,428.26	1.31	Magn MWD	Phoenix Directional	0.52	3,428. 31	-1.20	N
12,840	91.79	0.07	9,488.74	3,517.25	-2.97	3,517.22	3.30	Magn MWD	Phoenix Directional	1.13	3,517. 25	-	N
12,929	93.22	0.80	9,484.85	3,606.16	-2.30	3,606.12	1.80	Magn MWD	Phoenix Directional	1.61	3,606. 16	0.82	N
13,019	91.37	0.82	9,481.25	3,696.08	-1.03	3,696.03	2.06	Magn MWD	Phoenix Directional	-2.06	3,696. 08	0.02	N
13,108	90.47	1.19	9,479.82	3,785.05	0.54	3,785.00	1.09	Magn MWD	Phoenix Directional	-1.01	3,785. 05	0.42	N
13,287	91.51	1.99	9,476.73	3,963.95	5.50	3,963.87	0.73	Magn MWD	Phoenix Directional	0.58	3,963. 95	0.45	N
13,376	90.73	0.97	9,474.99	4,052.90	7.80	4,052.81	1.44	Magn MWD	Phoenix Directional	-0.88	4,052. 91	-1.15	N
13,466	91.78	0.42	9,473.01	4,142.87	8.89	4,142.77	1.32	Magn MWD	Phoenix Directional	1.17	4,142. 88	-0.61	N
13,555	92.37	359.52	9,469.79	4,231.81	8.84	4,231.71	1.21	Magn MWD	Phoenix Directional	0.66	4,231. 82	403.48	N
13,645	94.03	359.20	9,464.77	4,321.66	7.84	4,321.56	1.88	Magn MWD	Phoenix Directional	1.84	4,321. 67	-0.36	N
13,734	93.80	359.16	9,458.69	4,410.45	6.57	4,410.35	0.26	Magn MWD	Phoenix Directional	-0.26	4,410. 45	-0.04	N
13,823	94.05	359.58	9,452.60	4,499.23	5.59	4,499.14	0.55	Magn MWD	Phoenix Directional	0.28	4,499. 24	0.47	N
13,913	91.54	0.14	9,448.21	4,589.12	5.37	4,589.03	2.86	Magn MWD	Phoenix Directional	-2.79	4,589. 12	-	N
14,002	92.65	0.34	9,444.96	4,678.06	5.75	4,677.96	1.27	Magn MWD	Phoenix Directional	1.25	4,678. 06	0.22	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
14,053	93.04	0.69	9,442.43	4,728.99	6.20	4,728.89	1.03	Magn MWD	Phoenix Directional	0.76	4,728. 99	0.69	N
14,105	93.04	0.69	9,439.67	4,780.91	6.83	4,780.81	0.00	Magn MWD	Phoenix Directional	0.00	4,780. 92	0.00	N

284
fNL

2253
fEL



Tubing Summary

Well Name RED HILLS 2-25-33 003H	Lease Red Hills 2-25-33	Field Name RED HILLS	Business Unit Mid-Continent	
Ground Elevation (ft) 3,452.00	Original RKB Elevation (ft) 3,427.00	Current RKB Elevation 3,427.00, 7/9/2014	Mud Line Elevation (ft)	Water Depth (ft)
Current KB to Ground (ft) -25.00	Current KB to Mud Line (ft)	Current KB to Csg Flange (ft)	Current KB to Tubing Head (ft)	

Land - Original Hole: 9/19/2014 2:00:00 PM

MD (ftK B)	TVD (ftK B)	Incl (°)	Vertical schematic (actual)
0.0	24.9	0.0	
1.1	1,218.4	1.1	
1.9	4,992.4	1.9	
0.6	8,965.7	0.6	
91.6	8,918.3	91.6	
92.8	8,912.1	92.8	
94.0	8,906.0	94.0	
94.6	8,906.0	94.6	
92.8	8,901.0	92.8	
90.1	8,899.0	90.1	
91.5	8,897.4	91.5	
91.4	8,894.4	91.4	
90.5	8,882.6	90.5	
89.8	8,882.5	89.8	
90.0	8,882.0	90.0	
90.1	8,882.5	90.1	
90.2	8,882.3	90.2	
90.8	8,881.4	90.8	
91.3	8,879.4	91.3	
91.7	8,876.5	91.7	
91.2	8,873.6	91.2	
90.2	8,872.1	90.2	
90.2	8,871.8	90.2	
89.7	8,871.7	89.7	
88.3	8,873.6	88.3	
87.9	8,877.2	87.9	
87.6	8,881.5	87.6	
87.6	8,880.0	87.6	
88.4	8,889.7	88.4	
88.7	8,891.7	88.7	
90.3	8,891.8	90.3	
90.8	8,890.8	90.8	
92.2	8,887.7	92.2	
92.3	8,883.0	92.3	
90.7	8,880.2	90.7	
91.0	8,876.4	91.0	
91.4	8,876.5	91.4	
91.1	8,874.3	91.1	
92.1	8,871.1	92.1	
93.7	8,865.8	93.7	
93.8	8,858.8	93.8	
92.0	8,860.7	92.0	
93.0	8,860.8	93.0	

Tubing Strings

Tubing Description Tubing - Production		Planned Run? N		Set Depth (MD) (ftKB) 8,968.0		Set Depth (TVD) (ftKB) 8,965.2			
Run Date 9/19/2014		Run Job Complete, 8/13/2014 08:00		Pull Date		Pull Job			
Jts	Item Des	OD (in)	ID (in)	Wt (lb/ft)	Grade	Top Thread	Len (ft)	Top (ftKB)	Btm (ftKB)
	HANGER		2.441				0.70	0.0	0.7
	Tubing	2 7/8	2.441	6.50	L-80		8,965.80	0.7	8,966.5
	On-Off Tool	2 7/8					1.50	8,966.5	8,968.0

Rod Strings

Rod Description		Planned Run?		Set Depth (ftKB)		Set Depth (TVD) (ftKB)	
Run Date		Run Job		Pull Date		Pull Job	

Rod Components

Jts	Item Des	OD (in)	Grade	Model	Len (ft)	Top (ftKB)	Btm (ftKB)