



Directional Survey

DELAWARE BASIN UNRESTRICTED

Well Name: JAYHAWK 6-7 FED 14H

Sub-Division DELAWARE BASIN		Region LEA COUNTY CORE		Field Name RATTLESNAKE DBBU		County LEA		State/Province NM					
Surface Legal Location 6-26S-34E		API/UWI 3002545546		Latitude (°) 32° 4' 42.483" N		Longitude (°) 103° 30' 52.946" W		Org KB Elevation (ft) 3,341.20		Ground Elev MSL (ft) 3,315.20		KB - GL (ft) 26.00	
Wellbores													
Wellbore Name OH		Parent Wellbore				SAP Well ID				Vertical Section Direction (°) 182.46			
Kick Offs & Key Depths													
Date 5/30/2019				Type CURVE				Top Depth (ftKB) 12,110.7					
Date 6/8/2019				Type CURVE				Top Depth (ftKB) 12,046.0					
Actual Deviation Survey COMPOSITE OH, Proposed? No				Definitive? No		Proposed? No		Proposed Deviation Survey COMPOSITE WELL PLAN - OH, Proposed? Yes					
Deviation Survey													
Date 4/26/2019		Description COMPOSITE OH											
MD Tie In (ftKB) 0.00		TVD Tie In (ftKB) 0.00		Inclination Tie In (°) 0.00		Azimuth Tie In (°) 0.00		NSTie In (ft) 0.00		EWTie In (ft) 0.00			
Survey Data													
Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	N/S (ft)	E/W (ft)	DLS (°/100ft)	Survey Tool	Survey Company			
4/27/2019	178.00	1.19	252.83	177.99	0.62	-0.55	-1.77	0.67	MWD	SCIENTIFIC DRILLING			
4/27/2019	269.00	1.45	252.52	268.96	1.33	-1.17	-3.77	0.29	MWD	SCIENTIFIC DRILLING			
4/27/2019	361.00	1.20	248.52	360.94	2.12	-1.87	-5.77	0.29	MWD	SCIENTIFIC DRILLING			
4/27/2019	453.00	1.18	248.29	452.92	2.90	-2.58	-7.55	0.02	MWD	SCIENTIFIC DRILLING			
4/27/2019	546.00	1.04	258.29	545.90	3.50	-3.10	-9.27	0.26	MWD	SCIENTIFIC DRILLING			
4/27/2019	637.00	0.99	253.83	636.89	3.95	-3.49	-10.83	0.10	MWD	SCIENTIFIC DRILLING			
4/27/2019	729.00	1.11	233.01	728.87	4.77	-4.25	-12.31	0.43	MWD	SCIENTIFIC DRILLING			
4/27/2019	821.00	1.04	229.12	820.86	5.91	-5.33	-13.65	0.11	MWD	SCIENTIFIC DRILLING			
4/27/2019	836.00	0.95	229.86	835.85	6.09	-5.50	-13.85	0.61	MWD	SCIENTIFIC DRILLING			
5/31/2019	964.00	0.99	211.74	963.84	7.77	-7.12	-15.24	0.24	MWD	SCIENTIFIC DRILLING			
5/31/2019	1,056.00	0.65	246.22	1,055.83	8.69	-8.01	-16.13	0.64	MWD	SCIENTIFIC DRILLING			
5/31/2019	1,148.00	1.00	231.87	1,147.82	9.45	-8.71	-17.24	0.44	MWD	SCIENTIFIC DRILLING			
5/31/2019	1,240.00	0.76	215.08	1,239.81	10.48	-9.71	-18.23	0.38	MWD	SCIENTIFIC DRILLING			
5/31/2019	1,332.00	1.35	217.98	1,331.79	11.88	-11.06	-19.24	0.64	MWD	SCIENTIFIC DRILLING			
5/31/2019	1,426.00	0.83	212.68	1,425.77	13.37	-12.51	-20.29	0.56	MWD	SCIENTIFIC DRILLING			
5/31/2019	1,521.00	1.07	183.27	1,520.76	14.85	-13.97	-20.71	0.56	MWD	SCIENTIFIC DRILLING			
5/31/2019	1,615.00	0.53	187.56	1,614.75	16.16	-15.28	-20.82	0.58	MWD	SCIENTIFIC DRILLING			
5/31/2019	1,710.00	0.73	204.01	1,709.74	17.16	-16.27	-21.13	0.28	MWD	SCIENTIFIC DRILLING			
5/31/2019	1,804.00	0.51	181.04	1,803.74	18.14	-17.23	-21.38	0.35	MWD	SCIENTIFIC DRILLING			
5/31/2019	1,899.00	0.98	190.62	1,898.73	19.36	-18.46	-21.53	0.51	MWD	SCIENTIFIC DRILLING			
5/31/2019	1,993.00	0.90	191.29	1,992.72	20.89	-19.97	-21.83	0.09	MWD	SCIENTIFIC DRILLING			
5/31/2019	2,087.00	0.84	194.34	2,086.71	22.29	-21.36	-22.14	0.08	MWD	SCIENTIFIC DRILLING			
6/1/2019	2,182.00	0.68	207.66	2,181.70	23.48	-22.54	-22.58	0.25	MWD	SCIENTIFIC DRILLING			
6/1/2019	2,276.00	1.26	214.75	2,275.69	24.86	-23.88	-23.42	0.63	MWD	SCIENTIFIC DRILLING			
6/1/2019	2,370.00	0.77	293.04	2,369.67	25.51	-24.48	-24.60	1.42	MWD	SCIENTIFIC DRILLING			
6/1/2019	2,464.00	0.82	305.16	2,463.67	24.93	-23.85	-25.73	0.19	MWD	SCIENTIFIC DRILLING			
6/1/2019	2,559.00	0.69	307.06	2,558.66	24.24	-23.11	-26.74	0.14	MWD	SCIENTIFIC DRILLING			
6/1/2019	2,653.00	0.51	305.55	2,652.65	23.69	-22.53	-27.53	0.19	MWD	SCIENTIFIC DRILLING			
6/1/2019	2,748.00	2.33	350.39	2,747.62	21.57	-20.38	-28.20	2.11	MWD	SCIENTIFIC DRILLING			
6/1/2019	2,842.00	4.79	353.05	2,841.43	15.83	-14.59	-28.99	2.62	MWD	SCIENTIFIC DRILLING			
6/1/2019	2,936.00	6.87	349.88	2,934.94	6.47	-5.16	-30.45	2.24	MWD	SCIENTIFIC DRILLING			
6/1/2019	3,031.00	9.03	350.63	3,029.02	-6.38	7.79	-32.67	2.28	MWD	SCIENTIFIC DRILLING			
6/1/2019	3,125.00	9.25	351.98	3,121.83	-21.03	22.55	-34.92	0.33	MWD	SCIENTIFIC DRILLING			
6/1/2019	3,219.00	9.33	358.44	3,214.60	-36.06	37.65	-36.18	1.11	MWD	SCIENTIFIC DRILLING			
6/1/2019	3,313.00	9.47	2.00	3,307.34	-51.39	52.99	-36.12	0.64	MWD	SCIENTIFIC DRILLING			
6/1/2019	3,407.00	9.71	6.55	3,400.02	-67.03	68.59	-34.95	0.85	MWD	SCIENTIFIC DRILLING			
6/1/2019	3,501.00	7.91	3.55	3,492.91	-81.41	82.93	-33.64	1.98	MWD	SCIENTIFIC DRILLING			
6/1/2019	3,595.00	7.99	8.24	3,586.01	-94.37	95.85	-32.30	0.70	MWD	SCIENTIFIC DRILLING			
6/1/2019	3,690.00	7.64	7.20	3,680.13	-107.24	108.65	-30.57	0.40	MWD	SCIENTIFIC DRILLING			
6/1/2019	3,784.00	8.01	6.15	3,773.25	-120.00	121.36	-29.08	0.42	MWD	SCIENTIFIC DRILLING			
6/1/2019	3,878.00	7.38	8.84	3,866.41	-132.53	133.84	-27.45	0.77	MWD	SCIENTIFIC DRILLING			
6/1/2019	3,973.00	7.31	5.71	3,960.63	-144.63	145.88	-25.91	0.43	MWD	SCIENTIFIC DRILLING			
6/1/2019	4,067.00	7.25	357.65	4,053.87	-156.51	157.76	-25.56	1.09	MWD	SCIENTIFIC DRILLING			
6/1/2019	4,162.00	6.58	359.68	4,148.18	-167.92	169.19	-25.84	0.75	MWD	SCIENTIFIC DRILLING			
6/1/2019	4,256.00	6.21	0.30	4,241.59	-178.38	179.66	-25.84	0.40	MWD	SCIENTIFIC DRILLING			
6/1/2019	4,351.00	5.69	359.02	4,336.08	-188.22	189.50	-25.90	0.56	MWD	SCIENTIFIC DRILLING			
6/1/2019	4,445.00	7.28	345.68	4,429.48	-198.57	199.94	-27.45	2.32	MWD	SCIENTIFIC DRILLING			
6/1/2019	4,540.00	7.05	345.11	4,523.74	-209.90	211.40	-30.44	0.25	MWD	SCIENTIFIC DRILLING			
6/1/2019	4,634.00	5.88	350.39	4,617.14	-220.12	221.72	-32.72	1.39	MWD	SCIENTIFIC DRILLING			
6/1/2019	4,729.00	6.54	337.84	4,711.59	-229.79	231.53	-35.57	1.58	MWD	SCIENTIFIC DRILLING			
6/1/2019	4,823.00	7.01	332.11	4,804.93	-239.61	241.56	-40.28	0.88	MWD	SCIENTIFIC DRILLING			
6/1/2019	4,917.00	6.78	332.93	4,898.25	-249.39	251.57	-45.49	0.27	MWD	SCIENTIFIC DRILLING			
6/2/2019	5,011.00	8.48	329.87	4,991.42	-260.06	262.51	-51.49	1.86	MWD	SCIENTIFIC DRILLING			
6/2/2019	5,105.00	8.26	330.60	5,084.42	-271.63	274.39	-58.28	0.26	MWD	SCIENTIFIC DRILLING			
6/2/2019	5,200.00	7.35	327.44	5,178.54	-282.40	285.45	-64.90	1.06	MWD	SCIENTIFIC DRILLING			
6/2/2019	5,294.00	8.10	324.92	5,271.68	-292.58	295.94	-71.95	0.88	MWD	SCIENTIFIC DRILLING			
6/2/2019	5,388.00	8.48	323.49	5,364.70	-303.22	306.93	-79.88	0.46	MWD	SCIENTIFIC DRILLING			
6/2/2019	5,482.00	8.15	323.09	5,457.71	-313.76	317.83	-88.00	0.36	MWD	SCIENTIFIC DRILLING			
6/2/2019	5,576.00	7.71	320.40	5,550.81	-323.59	328.01	-96.02	0.61	MWD	SCIENTIFIC DRILLING			
6/2/2019	5,671.00	7.63	319.17	5,644.96	-332.91	337.70	-104.21	0.19	MWD	SCIENTIFIC DRILLING			
6/2/2019	5,765.00	7.34	319.46	5,738.16	-341.85	346.98	-112.19	0.31	MWD	SCIENTIFIC DRILLING			
6/2/2019	5,860.00	6.84	321.29	5,832.44	-350.54	356.01	-119.67	0.58	MWD	SCIENTIFIC DRILLING			
6/2/2019	5,954.00	4.42	325.35	5,925.98	-357.65	363.36	-125.23	2.61	MWD	SCIENTIFIC DRILLING			
6/2/2019	6,049.00	1.30	350.30	6,020.85	-361.62	367.43	-127.50	3.46	MWD	SCIENTIFIC DRILLING			
6/2/2019	6,143.00	0.47	26.42	6,114.84	-363.01	368.83	-127.50	1.02	MWD	SCIENTIFIC DRILLING			



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Sub-Division	Region	Field Name	County	State/Province		
DELAWARE BASIN	LEA COUNTY CORE	RATTLESNAKE DBBU	LEA	NM		
Surface Legal Location	API/UWI	Latitude (°)	Longitude (°)	Orig KB Elevation (ft)	Ground Elev MSL (ft)	KB - GL (ft)
6-26S-34E	3002545546	32° 4' 42.483" N	103° 30' 52.946" W	3,341.20	3,315.20	26.00

Survey Data										
Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	N/S (ft)	E/W (ft)	DLS (°/100ft)	Survey Tool	Survey Company
6/2/2019	6,237.00	0.50	28.27	6,208.83	-363.74	369.53	-127.14	0.04	MWD	SCIENTIFIC DRILLING
6/2/2019	6,332.00	0.72	5.75	6,303.83	-364.71	370.49	-126.88	0.34	MWD	SCIENTIFIC DRILLING
6/2/2019	6,426.00	0.44	8.70	6,397.82	-365.65	371.44	-126.77	0.30	MWD	SCIENTIFIC DRILLING
6/2/2019	6,520.00	0.42	328.72	6,491.82	-366.30	372.09	-126.89	0.31	MWD	SCIENTIFIC DRILLING
6/2/2019	6,614.00	0.91	348.95	6,585.81	-367.31	373.12	-127.22	0.57	MWD	SCIENTIFIC DRILLING
6/2/2019	6,708.00	0.63	348.99	6,679.81	-368.54	374.36	-127.46	0.30	MWD	SCIENTIFIC DRILLING
6/2/2019	6,803.00	0.83	347.01	6,774.80	-369.71	375.54	-127.71	0.21	MWD	SCIENTIFIC DRILLING
6/2/2019	6,897.00	0.51	351.09	6,868.79	-370.78	376.62	-127.93	0.34	MWD	SCIENTIFIC DRILLING
6/2/2019	6,992.00	0.73	202.96	6,963.79	-370.62	376.48	-128.23	1.26	MWD	SCIENTIFIC DRILLING
6/2/2019	7,086.00	0.74	215.77	7,057.78	-369.56	375.43	-128.82	0.17	MWD	SCIENTIFIC DRILLING
6/2/2019	7,181.00	0.86	192.86	7,152.77	-368.34	374.24	-129.34	0.36	MWD	SCIENTIFIC DRILLING
6/2/2019	7,275.00	0.45	174.27	7,246.77	-367.28	373.18	-129.46	0.49	MWD	SCIENTIFIC DRILLING
6/2/2019	7,369.00	0.53	178.53	7,340.76	-366.48	372.38	-129.41	0.09	MWD	SCIENTIFIC DRILLING
6/2/2019	7,463.00	0.70	180.66	7,434.76	-365.48	371.37	-129.40	0.18	MWD	SCIENTIFIC DRILLING
6/3/2019	7,558.00	0.64	213.26	7,529.75	-364.44	370.35	-129.70	0.40	MWD	SCIENTIFIC DRILLING
6/3/2019	7,652.00	0.61	224.40	7,623.75	-363.62	369.55	-130.34	0.13	MWD	SCIENTIFIC DRILLING
6/3/2019	7,746.00	0.43	203.54	7,717.74	-362.92	368.87	-130.83	0.27	MWD	SCIENTIFIC DRILLING
6/3/2019	7,840.00	0.69	183.62	7,811.74	-362.02	367.98	-131.01	0.34	MWD	SCIENTIFIC DRILLING
6/3/2019	7,934.00	0.44	218.60	7,905.73	-361.16	367.14	-131.27	0.44	MWD	SCIENTIFIC DRILLING
6/3/2019	8,029.00	0.47	211.53	8,000.73	-360.53	366.52	-131.70	0.07	MWD	SCIENTIFIC DRILLING
6/3/2019	8,123.00	0.71	205.67	8,094.72	-359.66	365.67	-132.15	0.26	MWD	SCIENTIFIC DRILLING
6/3/2019	8,218.00	0.57	228.31	8,189.72	-358.79	364.82	-132.76	0.30	MWD	SCIENTIFIC DRILLING
6/3/2019	8,312.00	0.38	214.77	8,283.72	-358.20	364.25	-133.29	0.23	MWD	SCIENTIFIC DRILLING
6/3/2019	8,407.00	0.47	260.19	8,378.71	-357.85	363.93	-133.85	0.36	MWD	SCIENTIFIC DRILLING
6/3/2019	8,501.00	0.36	243.31	8,472.71	-357.62	363.73	-134.50	0.17	MWD	SCIENTIFIC DRILLING
6/3/2019	8,595.00	0.50	220.65	8,566.71	-357.16	363.29	-135.03	0.23	MWD	SCIENTIFIC DRILLING
6/3/2019	8,690.00	0.54	218.10	8,661.70	-356.47	362.62	-135.57	0.05	MWD	SCIENTIFIC DRILLING
6/3/2019	8,784.00	0.44	210.44	8,755.70	-355.79	361.96	-136.03	0.13	MWD	SCIENTIFIC DRILLING
6/3/2019	8,878.00	0.87	202.87	8,849.69	-354.80	360.99	-136.49	0.47	MWD	SCIENTIFIC DRILLING
6/3/2019	8,973.00	0.51	195.26	8,944.69	-353.71	359.92	-136.88	0.39	MWD	SCIENTIFIC DRILLING
6/4/2019	9,067.00	0.53	206.15	9,038.68	-352.91	359.13	-137.18	0.11	MWD	SCIENTIFIC DRILLING
6/4/2019	9,162.00	0.54	216.36	9,133.68	-352.13	358.37	-137.64	0.10	MWD	SCIENTIFIC DRILLING
6/4/2019	9,256.00	0.67	204.00	9,227.67	-351.25	357.51	-138.13	0.20	MWD	SCIENTIFIC DRILLING
6/4/2019	9,350.00	0.89	213.50	9,321.67	-350.12	356.40	-138.75	0.27	MWD	SCIENTIFIC DRILLING
6/4/2019	9,445.00	0.83	214.88	9,416.66	-348.90	355.22	-139.56	0.07	MWD	SCIENTIFIC DRILLING
6/4/2019	9,539.00	0.47	250.68	9,510.65	-348.19	354.53	-140.31	0.56	MWD	SCIENTIFIC DRILLING
6/4/2019	9,633.00	0.53	168.72	9,604.65	-347.62	353.98	-140.59	0.70	MWD	SCIENTIFIC DRILLING
6/4/2019	9,727.00	0.67	141.99	9,698.64	-346.78	353.12	-140.16	0.33	MWD	SCIENTIFIC DRILLING
6/5/2019	9,822.00	0.59	132.79	9,793.64	-346.04	352.35	-139.46	0.14	MWD	SCIENTIFIC DRILLING
6/5/2019	9,916.00	0.62	121.29	9,887.63	-345.48	351.76	-138.67	0.13	MWD	SCIENTIFIC DRILLING
6/5/2019	10,010.00	0.74	157.75	9,981.62	-344.69	350.93	-138.01	0.47	MWD	SCIENTIFIC DRILLING
6/5/2019	10,104.00	0.46	166.99	10,075.62	-343.77	350.00	-137.69	0.31	MWD	SCIENTIFIC DRILLING
6/5/2019	10,199.00	0.62	220.13	10,170.62	-343.00	349.24	-137.94	0.53	MWD	SCIENTIFIC DRILLING
6/6/2019	10,293.00	0.75	263.07	10,264.61	-342.49	348.78	-138.88	0.55	MWD	SCIENTIFIC DRILLING
6/6/2019	10,481.00	1.23	260.70	10,452.58	-341.88	348.30	-142.09	0.26	MWD	SCIENTIFIC DRILLING
6/6/2019	10,575.00	1.43	292.62	10,546.56	-342.08	348.59	-144.17	0.80	MWD	SCIENTIFIC DRILLING
6/6/2019	10,669.00	2.20	290.69	10,640.51	-343.05	349.68	-146.94	0.82	MWD	SCIENTIFIC DRILLING
6/7/2019	10,764.00	1.75	297.60	10,735.45	-344.24	350.99	-149.93	0.54	MWD	SCIENTIFIC DRILLING
6/7/2019	10,858.00	1.69	284.52	10,829.41	-345.13	352.01	-152.54	0.42	MWD	SCIENTIFIC DRILLING
6/7/2019	10,952.00	1.86	295.85	10,923.37	-346.03	353.02	-155.26	0.41	MWD	SCIENTIFIC DRILLING
6/7/2019	11,047.00	1.62	302.28	11,018.32	-347.31	354.41	-157.78	0.33	MWD	SCIENTIFIC DRILLING
6/7/2019	11,141.00	1.73	308.09	11,112.28	-348.80	355.99	-160.02	0.22	MWD	SCIENTIFIC DRILLING
6/7/2019	11,235.00	1.59	300.41	11,206.24	-350.24	357.53	-162.26	0.28	MWD	SCIENTIFIC DRILLING
6/7/2019	11,329.00	1.51	316.09	11,300.21	-351.70	359.08	-164.25	0.46	MWD	SCIENTIFIC DRILLING
6/7/2019	11,424.00	2.14	312.57	11,395.16	-353.71	361.18	-166.42	0.67	MWD	SCIENTIFIC DRILLING
6/7/2019	11,518.00	2.57	318.72	11,489.08	-356.36	363.95	-169.10	0.53	MWD	SCIENTIFIC DRILLING
6/7/2019	11,612.00	3.39	318.21	11,582.95	-359.87	367.61	-172.35	0.87	MWD	SCIENTIFIC DRILLING
6/7/2019	11,707.00	4.17	313.70	11,677.75	-364.16	372.09	-176.72	0.88	MWD	SCIENTIFIC DRILLING
6/7/2019	11,801.00	4.81	310.89	11,771.46	-368.87	377.03	-182.17	0.72	MWD	SCIENTIFIC DRILLING
6/7/2019	11,896.00	4.53	315.11	11,866.14	-373.88	382.30	-187.82	0.47	MWD	SCIENTIFIC DRILLING
6/7/2019	11,990.00	4.27	318.62	11,959.86	-378.92	387.55	-192.76	0.40	MWD	SCIENTIFIC DRILLING
6/8/2019	12,083.00	3.00	313.01	12,052.68	-383.00	391.81	-196.83	1.42	MWD	SCIENTIFIC DRILLING
6/9/2019	12,178.00	1.50	236.30	12,147.62	-383.88	392.82	-199.68	3.19	MWD	SCIENTIFIC DRILLING
6/9/2019	12,225.00	2.88	187.99	12,194.58	-382.35	391.31	-200.36	4.66	MWD	SCIENTIFIC DRILLING
6/9/2019	12,272.00	4.22	178.24	12,241.49	-379.45	388.41	-200.47	3.12	MWD	SCIENTIFIC DRILLING
6/9/2019	12,304.00	5.99	174.52	12,273.37	-376.62	385.57	-200.27	5.62	MWD	SCIENTIFIC DRILLING
6/9/2019	12,335.00	8.01	173.52	12,304.13	-372.88	381.81	-199.87	6.53	MWD	SCIENTIFIC DRILLING
6/10/2019	12,367.00	9.35	177.82	12,335.77	-368.09	377.00	-199.52	4.65	MWD	SCIENTIFIC DRILLING
6/10/2019	12,414.00	14.88	174.02	12,381.70	-358.31	367.17	-198.75	11.88	MWD	SCIENTIFIC DRILLING
6/10/2019	12,461.00	23.29	171.57	12,426.08	-343.18	351.95	-196.75	17.97	MWD	SCIENTIFIC DRILLING
6/10/2019	12,508.00	32.09	168.08	12,467.66	-321.92	330.50	-192.80	19.03	MWD	SCIENTIFIC DRILLING
6/10/2019	12,555.00	35.12	169.41	12,506.80	-296.65	304.99	-187.74	6.63	MWD	SCIENTIFIC DRILLING
6/10/2019	12,602.00	38.38	167.68	12,544.45	-269.37	277.44	-182.14	7.28	MWD	SCIENTIFIC DRILLING
6/10/2019	12,650.00	42.61	170.39	12,580.95	-239.06	246.85	-176.25	9.54	MWD	SCIENTIFIC DRILLING
6/10/2019	12,698.00	48.20	178.15	12,614.66	-205.27	212.89	-172.95	16.36	MWD	SCIENTIFIC DRILLING
6/10/2019	12,744.00	52.02	176.37	12,644.16	-170.13	177.65	-171.25	8.82	MWD	SCIENTIFIC DRILLING
6/10/2019	12,757.00	53.73	174.30	12,652.01	-159.85	167.32	-170.40	18.28	MWD	SCIENTIFIC DRILLING



Directional Survey

DELAWARE BASIN UNRESTRICTED

Well Name: JAYHAWK 6-7 FED 14H

Sub-Division		Region		Field Name		County		State/Province					
DELAWARE BASIN		LEA COUNTY CORE		RATTLESNAKE DBBU		LEA		NM					
Surface Legal Location		API/UWI		Latitude (°)		Longitude (°)		Orig KB Elevation (ft)		Ground Elev MSL (ft)		KB - GL (ft)	
6-26S-34E		3002545546		32° 4' 42.483" N		103° 30' 52.946" W		3,341.20		3,315.20		26.00	
Survey Data													
Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	N/S (ft)	E/W (ft)	DLS (°/100ft)	Survey Tool	Survey Company			
6/14/2019	12,828.00	57.38	167.90	12,692.19	-102.52	109.54	-161.28	9.03	MWD	SCIENTIFIC DRILLING			
6/14/2019	12,875.00	60.54	169.28	12,716.42	-63.43	70.07	-153.33	7.18	MWD	SCIENTIFIC DRILLING			
6/14/2019	12,922.00	60.36	172.75	12,739.60	-23.36	29.70	-146.94	6.43	MWD	SCIENTIFIC DRILLING			
6/15/2019	12,961.00	61.11	173.50	12,758.67	10.21	-4.08	-142.87	2.55	MWD	SCIENTIFIC DRILLING			
6/16/2019	13,008.00	66.03	173.61	12,779.58	51.78	-45.89	-138.15	10.47	MWD	SCIENTIFIC DRILLING			
6/16/2019	13,055.00	73.29	173.88	12,795.91	95.31	-89.67	-133.35	15.46	MWD	SCIENTIFIC DRILLING			
6/17/2019	13,158.00	84.61	177.50	12,815.63	195.52	-190.29	-125.83	11.52	MWD	SCIENTIFIC DRILLING			
6/17/2019	13,252.00	88.25	178.01	12,821.48	289.00	-284.02	-122.16	3.91	MWD	SCIENTIFIC DRILLING			
6/17/2019	13,346.00	88.08	179.39	12,824.49	382.75	-377.95	-120.02	1.48	MWD	SCIENTIFIC DRILLING			
6/17/2019	13,441.00	90.17	178.76	12,825.94	477.57	-472.92	-118.49	2.30	MWD	SCIENTIFIC DRILLING			
6/17/2019	13,535.00	90.10	178.46	12,825.72	571.36	-566.89	-116.21	0.33	MWD	SCIENTIFIC DRILLING			
6/17/2019	13,628.00	92.49	178.98	12,823.62	664.13	-659.84	-114.13	2.63	MWD	SCIENTIFIC DRILLING			
6/17/2019	13,723.00	92.25	178.54	12,819.69	758.85	-754.73	-112.08	0.53	MWD	SCIENTIFIC DRILLING			
6/17/2019	13,817.00	90.97	180.57	12,817.05	852.68	-848.69	-111.35	2.55	MWD	SCIENTIFIC DRILLING			
6/17/2019	13,911.00	87.79	173.46	12,818.06	946.18	-942.48	-106.46	8.28	MWD	SCIENTIFIC DRILLING			
6/17/2019	14,005.00	88.72	174.58	12,820.93	1,039.12	-1,035.92	-96.67	1.55	MWD	SCIENTIFIC DRILLING			
6/17/2019	14,099.00	89.03	177.46	12,822.77	1,132.50	-1,129.67	-90.15	3.08	MWD	SCIENTIFIC DRILLING			
6/18/2019	14,193.00	90.24	178.25	12,823.37	1,226.19	-1,223.60	-86.63	1.54	MWD	SCIENTIFIC DRILLING			
6/18/2019	14,287.00	89.46	177.87	12,823.62	1,319.91	-1,317.54	-83.45	0.92	MWD	SCIENTIFIC DRILLING			
6/18/2019	14,382.00	88.89	179.62	12,824.98	1,414.70	-1,412.51	-81.37	1.94	MWD	SCIENTIFIC DRILLING			
6/18/2019	14,476.00	89.33	181.62	12,826.45	1,508.63	-1,506.49	-82.39	2.18	MWD	SCIENTIFIC DRILLING			
6/18/2019	14,570.00	87.85	180.29	12,828.76	1,602.57	-1,600.44	-83.95	2.12	MWD	SCIENTIFIC DRILLING			
6/18/2019	14,664.00	86.21	179.91	12,833.63	1,696.36	-1,694.31	-84.12	1.79	MWD	SCIENTIFIC DRILLING			
6/18/2019	14,758.00	90.00	182.41	12,836.74	1,790.26	-1,788.21	-86.02	4.83	MWD	SCIENTIFIC DRILLING			
6/18/2019	14,852.00	87.81	182.33	12,838.53	1,884.24	-1,882.11	-89.91	2.33	MWD	SCIENTIFIC DRILLING			
6/18/2019	14,946.00	89.66	181.73	12,840.61	1,978.21	-1,976.02	-93.24	2.07	MWD	SCIENTIFIC DRILLING			
6/18/2019	15,041.00	88.32	180.62	12,842.28	2,073.16	-2,070.99	-95.18	1.83	MWD	SCIENTIFIC DRILLING			
6/19/2019	15,135.00	90.07	181.99	12,843.60	2,167.13	-2,164.95	-97.32	2.36	MWD	SCIENTIFIC DRILLING			
6/19/2019	15,230.00	91.91	182.81	12,841.96	2,262.11	-2,259.84	-101.30	2.12	MWD	SCIENTIFIC DRILLING			
6/19/2019	15,324.00	91.68	182.01	12,839.02	2,356.06	-2,353.71	-105.25	0.89	MWD	SCIENTIFIC DRILLING			
6/19/2019	15,418.00	91.04	181.60	12,836.79	2,450.03	-2,447.64	-108.21	0.81	MWD	SCIENTIFIC DRILLING			
6/19/2019	15,513.00	90.91	181.80	12,835.17	2,545.01	-2,542.58	-111.03	0.25	MWD	SCIENTIFIC DRILLING			
6/19/2019	15,607.00	91.31	182.44	12,833.35	2,638.99	-2,636.50	-114.51	0.80	MWD	SCIENTIFIC DRILLING			
6/19/2019	15,701.00	87.41	180.30	12,834.40	2,732.94	-2,730.45	-116.75	4.73	MWD	SCIENTIFIC DRILLING			
6/20/2019	15,796.00	87.76	180.14	12,838.40	2,827.78	-2,825.36	-117.12	0.41	MWD	SCIENTIFIC DRILLING			
6/20/2019	15,891.00	87.75	180.74	12,842.12	2,922.65	-2,920.28	-117.85	0.63	MWD	SCIENTIFIC DRILLING			
6/20/2019	15,984.00	89.03	181.00	12,844.74	3,015.58	-3,013.23	-119.26	1.40	MWD	SCIENTIFIC DRILLING			
6/20/2019	16,079.00	90.87	181.18	12,844.82	3,110.55	-3,108.21	-121.07	1.95	MWD	SCIENTIFIC DRILLING			
6/20/2019	16,173.00	91.14	181.19	12,843.17	3,204.51	-3,202.18	-123.01	0.29	MWD	SCIENTIFIC DRILLING			
6/20/2019	16,268.00	90.00	180.75	12,842.23	3,299.47	-3,297.16	-124.62	1.29	MWD	SCIENTIFIC DRILLING			
6/20/2019	16,362.00	92.28	182.34	12,840.36	3,393.43	-3,391.10	-127.15	2.96	MWD	SCIENTIFIC DRILLING			
6/20/2019	16,456.00	91.51	181.74	12,837.25	3,487.37	-3,484.98	-130.50	1.04	MWD	SCIENTIFIC DRILLING			
6/20/2019	16,550.00	90.77	181.66	12,835.38	3,581.35	-3,578.92	-133.28	0.79	MWD	SCIENTIFIC DRILLING			
6/20/2019	16,645.00	89.03	179.88	12,835.54	3,676.30	-3,673.91	-134.56	2.62	MWD	SCIENTIFIC DRILLING			
6/20/2019	16,739.00	91.84	180.50	12,834.83	3,770.21	-3,767.89	-134.87	3.06	MWD	SCIENTIFIC DRILLING			
6/20/2019	16,834.00	92.48	180.22	12,831.25	3,865.08	-3,862.82	-135.47	0.74	MWD	SCIENTIFIC DRILLING			
6/20/2019	16,928.00	93.05	180.55	12,826.71	3,958.91	-3,956.71	-136.10	0.70	MWD	SCIENTIFIC DRILLING			
6/21/2019	17,023.00	90.60	182.46	12,823.69	4,053.84	-4,051.62	-138.59	3.27	MWD	SCIENTIFIC DRILLING			
6/21/2019	17,117.00	90.74	183.74	12,822.59	4,147.82	-4,145.47	-143.68	1.37	MWD	SCIENTIFIC DRILLING			
6/21/2019	17,211.00	89.36	185.86	12,822.51	4,241.73	-4,239.14	-151.54	2.69	MWD	SCIENTIFIC DRILLING			
6/21/2019	17,305.00	89.40	188.36	12,823.52	4,335.41	-4,332.40	-163.17	2.66	MWD	SCIENTIFIC DRILLING			
6/21/2019	17,399.00	88.66	191.57	12,825.12	4,428.58	-4,424.96	-179.44	3.50	MWD	SCIENTIFIC DRILLING			
6/21/2019	17,493.00	86.95	190.65	12,828.72	4,521.44	-4,517.12	-197.54	2.07	MWD	SCIENTIFIC DRILLING			
6/21/2019	17,588.00	86.71	187.51	12,833.97	4,615.65	-4,610.78	-212.50	3.31	MWD	SCIENTIFIC DRILLING			
6/21/2019	17,682.00	87.29	184.36	12,838.89	4,709.34	-4,704.13	-222.21	3.40	MWD	SCIENTIFIC DRILLING			
6/21/2019	17,776.00	87.42	185.01	12,843.23	4,803.16	-4,797.72	-229.88	0.70	MWD	SCIENTIFIC DRILLING			
6/21/2019	17,871.00	86.78	184.42	12,848.04	4,897.97	-4,892.28	-237.68	0.92	MWD	SCIENTIFIC DRILLING			
6/22/2019	17,965.00	88.25	185.54	12,852.11	4,991.78	-4,985.83	-245.83	1.97	MWD	SCIENTIFIC DRILLING			
6/22/2019	18,059.00	90.60	185.60	12,853.05	5,085.64	-5,079.37	-254.95	2.50	MWD	SCIENTIFIC DRILLING			
6/22/2019	18,153.00	90.47	185.49	12,852.18	5,179.49	-5,172.93	-264.03	0.18	MWD	SCIENTIFIC DRILLING			
6/22/2019	18,248.00	91.74	185.88	12,850.35	5,274.32	-5,267.44	-273.44	1.40	MWD	SCIENTIFIC DRILLING			
6/22/2019	18,342.00	93.56	186.54	12,846.00	5,368.02	-5,360.79	-283.60	2.06	MWD	SCIENTIFIC DRILLING			
6/22/2019	18,436.00	92.89	187.04	12,840.71	5,461.60	-5,453.98	-294.70	0.89	MWD	SCIENTIFIC DRILLING			
6/22/2019	18,530.00	90.30	186.49	12,838.09	5,555.29	-5,547.28	-305.76	2.82	MWD	SCIENTIFIC DRILLING			
6/22/2019	18,624.00	89.36	186.03	12,838.37	5,649.08	-5,640.72	-316.01	1.11	MWD	SCIENTIFIC DRILLING			
6/22/2019	18,718.00	89.26	186.08	12,839.51	5,742.89	-5,734.19	-325.93	0.12	MWD	SCIENTIFIC DRILLING			
6/22/2019	18,813.00	88.86	185.09	12,841.06	5,837.74	-5,828.72	-335.17	1.12	MWD	SCIENTIFIC DRILLING			
6/22/2019	18,907.00	88.93	186.27	12,842.88	5,931.57	-5,922.24	-344.47	1.26	MWD	SCIENTIFIC DRILLING			
6/22/2019	19,002.00	87.92	185.20	12,845.49	6,026.37	-6,016.73	-353.96	1.55	MWD	SCIENTIFIC DRILLING			
6/22/2019	19,096.00	86.88	186.14	12,849.75	6,120.13	-6,110.17	-363.24	1.49	MWD	SCIENTIFIC DRILLING			
6/22/2019	19,191.00	89.93	187.29	12,852.40	6,214.82	-6,204.47	-374.34	3.43	MWD	SCIENTIFIC DRILLING			
6/22/2019	19,285.00	89.66	187.26	12,852.73	6,308.48	-6,297.71	-386.25	0.29	MWD	SCIENTIFIC DRILLING			
6/23/2019	19,379.00	88.76	185.23	12,854.03	6,402.26	-6,391.14	-396.47	2.36	MWD	SCIENTIFIC DRILLING			
6/23/2019	19,473.00	88.62	182.87	12,856.18	6,496.20	-6,484.87	-403.11	2.51	MWD	SCIENTIFIC DRILLING			
6/23/2019	19,568.00	93.79	184.09	12,854.18	6,591.13	-6,579.64	-408.87	5.59	MWD	SCIENTIFIC DRILLING			
6/23/2019	19,662.00	92.68	184.01	12,848.88	6,684.94	-6,673.26	-415.50	1.18	MWD	SCIENTIFIC DRILLING			
6/23/2019	19,757.00	92.71	184.41	12,844.41	6,779.79	-6,767.89	-422.46	0.42	MWD	SCIENTIFIC DRILLING			
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Report Printed: 12/20/2019													



Well Name: JAYHAWK 6-7 FED 14H

Sub-Division DELAWARE BASIN	Region LEA COUNTY CORE	Field Name RATTLESNAKE DBBU	County LEA	State/Province NM		
Surface Legal Location 6-26S-34E	API/UWI 3002545546	Latitude (°) 32° 4' 42.483" N	Longitude (°) 103° 30' 52.946" W	Orig KB Elevation (ft) 3,341.20	Ground Elev MSL (ft) 3,315.20	KB - GL (ft) 26.00

Survey Data

Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	N/S (ft)	E/W (ft)	DLS (°/100ft)	Survey Tool	Survey Company
6/23/2019	19,851.00	92.11	183.11	12,840.46	6,873.68	-6,861.61	-428.62	1.52	MWD	SCIENTIFIC DRILLING
6/23/2019	19,945.00	91.04	182.48	12,837.87	6,967.64	-6,955.46	-433.20	1.32	MWD	SCIENTIFIC DRILLING
6/23/2019	20,040.00	92.49	182.78	12,834.95	7,062.59	-7,050.31	-437.56	1.56	MWD	SCIENTIFIC DRILLING
6/23/2019	20,135.00	91.27	183.03	12,831.83	7,157.54	-7,145.13	-442.37	1.31	MWD	SCIENTIFIC DRILLING
6/23/2019	20,229.00	90.57	182.61	12,830.32	7,251.52	-7,239.01	-447.00	0.87	MWD	SCIENTIFIC DRILLING
6/23/2019	20,324.00	89.97	182.21	12,829.87	7,346.52	-7,333.92	-450.99	0.76	MWD	SCIENTIFIC DRILLING
6/23/2019	20,418.00	89.66	181.60	12,830.18	7,440.52	-7,427.87	-454.12	0.73	MWD	SCIENTIFIC DRILLING
6/23/2019	20,512.00	89.80	181.40	12,830.62	7,534.50	-7,521.84	-456.58	0.26	MWD	SCIENTIFIC DRILLING
6/23/2019	20,606.00	88.36	180.36	12,832.13	7,628.45	-7,615.81	-458.02	1.89	MWD	SCIENTIFIC DRILLING
6/23/2019	20,701.00	86.84	180.35	12,836.11	7,723.30	-7,710.72	-458.61	1.60	MWD	SCIENTIFIC DRILLING
6/24/2019	20,795.00	87.99	179.95	12,840.35	7,817.13	-7,804.62	-458.85	1.30	MWD	SCIENTIFIC DRILLING
6/24/2019	20,889.00	89.19	179.30	12,842.66	7,910.98	-7,898.59	-458.24	1.45	MWD	SCIENTIFIC DRILLING
6/24/2019	20,983.00	91.48	180.80	12,842.11	8,004.89	-7,992.58	-458.32	2.91	MWD	SCIENTIFIC DRILLING
6/24/2019	21,077.00	90.54	179.73	12,840.45	8,098.80	-8,086.56	-458.76	1.52	MWD	SCIENTIFIC DRILLING
6/24/2019	21,171.00	90.37	180.26	12,839.71	8,192.71	-8,180.56	-458.75	0.59	MWD	SCIENTIFIC DRILLING
6/24/2019	21,266.00	91.28	181.46	12,838.34	8,287.66	-8,275.54	-460.17	1.59	MWD	SCIENTIFIC DRILLING
6/24/2019	21,361.00	91.54	182.64	12,836.00	8,382.63	-8,370.44	-463.57	1.27	MWD	SCIENTIFIC DRILLING
6/24/2019	21,455.00	89.16	180.14	12,835.43	8,476.59	-8,464.40	-465.85	3.67	MWD	SCIENTIFIC DRILLING
6/24/2019	21,549.00	88.39	179.74	12,837.44	8,570.48	-8,558.38	-465.75	0.92	MWD	SCIENTIFIC DRILLING
6/24/2019	21,644.00	90.64	177.98	12,838.24	8,665.28	-8,653.35	-463.86	3.01	MWD	SCIENTIFIC DRILLING
6/24/2019	21,738.00	90.67	177.83	12,837.17	8,758.98	-8,747.28	-460.42	0.16	MWD	SCIENTIFIC DRILLING
6/24/2019	21,832.00	90.13	177.02	12,836.51	8,852.61	-8,841.18	-456.20	1.04	MWD	SCIENTIFIC DRILLING
6/24/2019	21,927.00	89.26	176.49	12,837.02	8,947.14	-8,936.02	-450.82	1.07	MWD	SCIENTIFIC DRILLING
6/24/2019	22,021.00	90.30	177.29	12,837.38	9,040.69	-9,029.88	-445.72	1.40	MWD	SCIENTIFIC DRILLING
6/24/2019	22,115.00	91.31	178.33	12,836.06	9,134.37	-9,123.80	-442.13	1.54	MWD	SCIENTIFIC DRILLING
6/24/2019	22,209.00	91.71	179.07	12,833.58	9,228.14	-9,217.74	-440.00	0.89	MWD	SCIENTIFIC DRILLING
6/25/2019	22,304.00	89.77	178.43	12,832.35	9,322.92	-9,312.71	-437.93	2.15	MWD	SCIENTIFIC DRILLING
6/25/2019	22,398.00	91.38	179.01	12,831.41	9,416.71	-9,406.68	-435.83	1.82	MWD	SCIENTIFIC DRILLING
6/25/2019	22,492.00	91.34	178.81	12,829.18	9,510.51	-9,500.63	-434.04	0.22	MWD	SCIENTIFIC DRILLING
6/25/2019	22,587.00	89.73	176.41	12,828.29	9,605.15	-9,595.54	-430.08	3.04	MWD	SCIENTIFIC DRILLING
6/25/2019	22,681.00	90.23	176.62	12,828.32	9,698.65	-9,689.36	-424.37	0.58	MWD	SCIENTIFIC DRILLING
6/25/2019	22,775.00	91.54	178.61	12,826.87	9,792.29	-9,783.26	-420.45	2.53	MWD	SCIENTIFIC DRILLING
6/25/2019	22,869.00	90.87	179.04	12,824.89	9,886.08	-9,877.22	-418.53	0.85	MWD	SCIENTIFIC DRILLING
6/25/2019	22,964.00	90.67	178.64	12,823.62	9,980.88	-9,972.19	-416.60	0.47	MWD	SCIENTIFIC DRILLING
6/25/2019	23,032.00	88.99	177.79	12,823.82	10,048.69	-10,040.16	-414.49	2.77	MWD	SCIENTIFIC DRILLING
6/25/2019	23,085.00	88.99	177.79	12,824.75	10,101.51	-10,093.11	-412.44	0.00	BIT	