



Directional Survey

Well Name: TRIONYX 6 FED 9H

Sub-Division DELAWARE BASIN		Region DELAWARE BASIN WEST		Field Name PADUCA		County LEA		State/Province NM					
Surface Legal Location SEC6 T25S R32E		APN/OWB 3002542475		Latitude (°) 32° 9' 9.467" N		Longitude (°) 103° 43' 7.595" W		Orig KB Elevation (ft) 3,466.00		Ground Elev MSL (ft) 3,441.00		KB - GL (ft) 25.00	
Wellbore Name OH		Parent Wellbore OH		SAP Well ID 38313		Vertical Section Direction (°)							
Kick Offs & Key Depths													
Date 5/8/2015				Type Kick Off				Top Depth (ftKB) 9,074.0					
Actual Deviation Survey EXTREME, Proposed? No				Definitive? No		Proposed? No		Proposed Deviation Survey					
Deviation Survey													
Date 4/26/2015				Description EXTREME									
MD Tie In (ftKB)		TVD Tie In (ftKB)		Inclination Tie In (°)		Azimuth Tie In (°)		NS Tie In (ft)		EW Tie In (ft)			
Survey Data													
Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	N/S (ft)	E/W (ft)	DLB (°/100ft)	Survey Tool	Survey Company			
4/26/2015	149.00	0.40	193.41	149.00	-0.48	-0.51	-0.12	0.27	MWD	EXTREME			
4/26/2015	177.00	0.31	159.50	177.00	-0.65	-0.67	-0.12	0.80	MWD	EXTREME			
4/26/2015	268.04	0.70	319.99	268.04	-0.42	-0.48	-0.39	1.10	MWD	EXTREME			
4/26/2015	326.60	0.79	321.88	326.59	0.24	0.11	-0.87	0.16	MWD	EXTREME			
4/26/2015	417.00	0.70	294.19	416.98	1.07	0.83	-1.76	0.41	MWD	EXTREME			
4/26/2015	508.00	0.62	348.29	507.98	1.86	1.54	-2.36	0.66	MWD	EXTREME			
4/26/2015	598.00	0.48	48.58	597.98	2.58	2.27	-2.18	0.63	MWD	EXTREME			
4/26/2015	653.00	0.48	20.90	652.97	2.88	2.64	-1.92	0.42	MWD	EXTREME			
4/26/2015	847.00	1.00	52.00	846.96	4.43	4.44	-0.30	0.33	MWD	LEAM DRILLING SYSTEMS			
4/26/2015	938.00	1.30	50.40	937.94	5.37	5.58	1.12	0.33	MWD	LEAM DRILLING SYSTEMS			
4/26/2015	1,028.00	0.70	71.20	1,027.93	6.00	6.41	2.43	0.77	MWD	LEAM DRILLING SYSTEMS			
4/26/2015	1,119.00	0.50	93.90	1,118.92	6.02	6.56	3.35	0.34	MWD	LEAM DRILLING SYSTEMS			
4/26/2015	1,208.00	0.50	85.40	1,207.92	5.91	6.57	4.13	0.08	MWD	LEAM DRILLING SYSTEMS			
4/26/2015	1,302.00	0.40	81.90	1,301.91	5.89	6.65	4.86	0.11	MWD	LEAM DRILLING SYSTEMS			
4/26/2015	1,397.00	0.30	45.50	1,396.91	6.03	6.87	5.38	0.25	MWD	LEAM DRILLING SYSTEMS			
4/26/2015	1,491.00	0.30	21.30	1,490.91	6.39	7.27	5.63	0.13	MWD	LEAM DRILLING SYSTEMS			
4/26/2015	1,586.00	0.40	33.40	1,585.91	6.86	7.78	5.90	0.13	MWD	LEAM DRILLING SYSTEMS			
4/26/2015	1,680.00	0.40	23.60	1,679.91	7.38	8.35	6.21	0.07	MWD	LEAM DRILLING SYSTEMS			
4/26/2015	1,775.00	0.50	21.40	1,774.90	8.02	9.04	6.50	0.11	MWD	LEAM DRILLING SYSTEMS			
4/26/2015	1,869.00	0.50	26.00	1,868.90	8.72	9.79	6.83	0.04	MWD	LEAM DRILLING SYSTEMS			
4/26/2015	1,963.00	0.30	30.20	1,962.90	9.25	10.38	7.13	0.21	MWD	LEAM DRILLING SYSTEMS			
4/26/2015	2,057.00	0.20	20.90	2,056.90	9.59	10.74	7.31	0.11	MWD	LEAM DRILLING SYSTEMS			
4/26/2015	2,151.00	0.20	35.30	2,150.90	9.85	11.03	7.47	0.05	MWD	LEAM DRILLING SYSTEMS			
4/26/2015	2,245.00	0.40	36.20	2,244.90	10.20	11.43	7.76	0.21	MWD	LEAM DRILLING SYSTEMS			
4/26/2015	2,340.00	0.40	35.20	2,339.89	10.68	11.97	8.14	0.01	MWD	LEAM DRILLING SYSTEMS			
4/26/2015	2,434.00	0.60	54.00	2,433.89	11.15	12.52	8.73	0.27	MWD	LEAM DRILLING SYSTEMS			
4/26/2015	2,529.00	0.40	72.40	2,528.89	11.44	12.92	9.45	0.27	MWD	LEAM DRILLING SYSTEMS			
4/26/2015	2,623.00	0.50	98.40	2,622.88	11.37	12.95	10.17	0.24	MWD	LEAM DRILLING SYSTEMS			
4/26/2015	2,718.00	0.50	85.80	2,717.88	11.22	12.92	10.99	0.12	MWD	LEAM DRILLING SYSTEMS			
4/26/2015	2,812.00	0.80	75.60	2,811.87	11.27	13.12	12.04	0.34	MWD	LEAM DRILLING SYSTEMS			
4/26/2015	2,907.00	0.50	132.90	2,906.87	11.02	13.00	12.98	0.71	MWD	LEAM DRILLING SYSTEMS			
4/26/2015	3,001.00	0.30	108.60	3,000.87	10.59	12.64	13.51	0.27	MWD	LEAM DRILLING SYSTEMS			
4/26/2015	3,096.00	0.30	138.20	3,095.86	10.27	12.38	13.92	0.16	MWD	LEAM DRILLING SYSTEMS			
4/26/2015	3,190.00	0.10	50.30	3,189.86	10.10	12.25	14.14	0.33	MWD	LEAM DRILLING SYSTEMS			
4/26/2015	3,285.00	0.60	20.20	3,284.86	10.59	12.77	14.38	0.54	MWD	LEAM DRILLING SYSTEMS			
4/26/2015	3,379.00	0.70	33.20	3,378.86	11.45	13.71	14.86	0.19	MWD	LEAM DRILLING SYSTEMS			
4/26/2015	3,474.00	0.70	12.00	3,473.85	12.43	14.76	15.30	0.27	MWD	LEAM DRILLING SYSTEMS			
4/26/2015	3,569.00	0.40	289.90	3,568.85	13.13	15.44	15.11	0.80	MWD	LEAM DRILLING SYSTEMS			
4/26/2015	3,663.00	0.40	288.10	3,662.84	13.43	15.66	14.49	0.01	MWD	LEAM DRILLING SYSTEMS			
4/26/2015	3,758.00	0.30	83.70	3,757.84	13.57	15.79	14.42	0.72	MWD	LEAM DRILLING SYSTEMS			
4/26/2015	3,853.00	0.40	110.90	3,852.84	13.40	15.70	14.98	0.20	MWD	LEAM DRILLING SYSTEMS			
4/26/2015	3,947.00	0.30	75.10	3,946.84	13.27	15.64	15.52	0.25	MWD	LEAM DRILLING SYSTEMS			
4/26/2015	4,042.00	0.40	149.20	4,041.84	12.99	15.42	15.93	0.45	MWD	LEAM DRILLING SYSTEMS			
4/26/2015	4,136.00	1.50	159.80	4,135.82	11.48	13.98	16.53	1.18	MWD	LEAM DRILLING SYSTEMS			
4/26/2015	4,231.00	1.00	196.50	4,230.80	9.51	12.02	16.72	0.97	MWD	LEAM DRILLING SYSTEMS			
4/26/2015	4,290.00	1.00	225.40	4,289.79	8.74	11.17	16.21	0.85	MWD	LEAM DRILLING SYSTEMS			
4/26/2015	4,436.00	1.30	255.20	4,435.77	7.80	9.85	13.70	0.45	MWD	LEAM DRILLING SYSTEMS			
4/26/2015	4,531.00	2.50	276.90	4,530.71	8.21	9.82	10.60	1.45	MWD	LEAM DRILLING SYSTEMS			
4/26/2015	4,625.00	4.10	287.40	4,624.55	10.20	11.08	5.36	1.81	MWD	LEAM DRILLING SYSTEMS			
4/26/2015	4,719.00	4.50	289.30	4,718.29	13.35	13.30	-1.33	0.45	MWD	LEAM DRILLING SYSTEMS			
4/26/2015	4,814.00	5.60	288.80	4,812.92	17.18	16.02	-9.23	1.16	MWD	LEAM DRILLING SYSTEMS			
4/26/2015	4,908.00	5.70	288.60	4,906.46	21.36	18.99	-18.00	0.11	MWD	LEAM DRILLING SYSTEMS			
4/26/2015	5,003.00	5.40	286.30	5,001.02	25.35	21.75	-26.76	0.39	MWD	LEAM DRILLING SYSTEMS			
4/26/2015	5,097.00	5.40	286.00	5,094.60	28.99	24.21	-35.26	0.03	MWD	LEAM DRILLING SYSTEMS			
4/26/2015	5,192.00	5.30	284.80	5,189.19	32.54	26.56	-43.80	0.16	MWD	LEAM DRILLING SYSTEMS			
4/26/2015	5,284.00	5.10	284.90	5,280.81	35.81	28.70	-51.86	0.22	MWD	LEAM DRILLING SYSTEMS			
4/26/2015	5,378.00	6.20	281.60	5,374.35	39.16	30.80	-60.87	1.22	MWD	LEAM DRILLING SYSTEMS			
4/26/2015	5,473.00	6.10	281.10	5,468.80	42.57	32.80	-70.85	0.12	MWD	LEAM DRILLING SYSTEMS			
4/26/2015	5,568.00	6.00	282.10	5,563.27	45.96	34.81	-80.65	0.15	MWD	LEAM DRILLING SYSTEMS			
4/26/2015	5,662.00	5.70	281.10	5,656.78	49.21	36.74	-90.04	0.34	MWD	LEAM DRILLING SYSTEMS			
4/26/2015	5,757.00	5.70	284.10	5,751.31	52.56	38.80	-99.24	0.31	MWD	LEAM DRILLING SYSTEMS			
4/26/2015	5,851.00	5.70	285.30	5,844.85	56.19	41.17	-108.27	0.13	MWD	LEAM DRILLING SYSTEMS			
4/26/2015	5,945.00	5.50	284.90	5,938.40	59.82	43.56	-117.13	0.22	MWD	LEAM DRILLING SYSTEMS			
4/26/2015	6,040.00	5.20	287.20	6,032.99	63.45	46.00	-125.64	0.39	MWD	LEAM DRILLING SYSTEMS			
4/26/2015	6,134.00	5.00	286.20	6,126.62	66.97	48.40	-133.84	0.23	MWD	LEAM DRILLING SYSTEMS			
4/26/2015	6,228.00	4.70	285.80	6,220.28	70.23	50.59	-141.28	0.32	MWD	LEAM DRILLING SYSTEMS			

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Sub-Division		Region		Field Name		County		State/Province					
DELAWARE BASIN		DELAWARE BASIN WEST		PADUCA		LEA		NM					
Surface Legal Location		APR/W		Latitude (°)		Longitude (°)		Orig KB Elevation (ft)		Ground Elev MSL (ft)		KB - GL (ft)	
SEC6 T25S R32E		3002542475		32° 9' 9.467" N		103° 43' 7.595" W		3,466.00		3,441.00		25.00	
Survey Data													
Date	MD (RKB)	Incl (°)	Azm (°)	TVD (RKB)	VS (ft)	N/S (ft)	E/W (ft)	DLS (°/100ft)	Survey Tool	Survey Company			
4/26/2015	6,323.00	4.80	283.90	6,314.95	73.31	52.61	-148.89	0.20	MWD	LEAM DRILLING SYSTEMS			
4/26/2015	6,417.00	4.70	282.70	6,408.63	76.16	54.40	-156.46	0.15	MWD	LEAM DRILLING SYSTEMS			
4/26/2015	6,512.00	4.60	282.10	6,503.32	78.87	56.05	-163.98	0.12	MWD	LEAM DRILLING SYSTEMS			
4/26/2015	6,606.00	4.40	282.00	6,597.03	81.43	57.59	-171.20	0.21	MWD	LEAM DRILLING SYSTEMS			
4/26/2015	6,701.00	4.80	283.90	6,691.72	84.18	59.31	-178.62	0.45	MWD	LEAM DRILLING SYSTEMS			
4/26/2015	6,795.00	4.70	284.90	6,785.40	87.17	61.24	-186.16	0.14	MWD	LEAM DRILLING SYSTEMS			
4/26/2015	6,889.00	4.30	282.10	6,879.11	89.91	62.97	-193.33	0.49	MWD	LEAM DRILLING SYSTEMS			
4/26/2015	6,984.00	5.00	278.80	6,973.80	92.35	64.35	-200.90	0.79	MWD	LEAM DRILLING SYSTEMS			
4/26/2015	7,078.00	4.50	277.70	7,067.47	94.56	65.47	-208.60	0.54	MWD	LEAM DRILLING SYSTEMS			
4/26/2015	7,172.00	5.10	283.00	7,161.14	97.08	66.91	-216.33	0.79	MWD	LEAM DRILLING SYSTEMS			
4/26/2015	7,267.00	4.70	281.10	7,255.80	99.89	68.60	-224.26	0.45	MWD	LEAM DRILLING SYSTEMS			
4/26/2015	7,361.00	5.30	281.10	7,349.44	102.60	70.18	-232.30	0.64	MWD	LEAM DRILLING SYSTEMS			
4/26/2015	7,456.00	5.10	280.00	7,444.05	105.37	71.76	-240.76	0.24	MWD	LEAM DRILLING SYSTEMS			
4/26/2015	7,551.00	6.30	275.80	7,538.58	107.95	73.02	-250.11	1.34	MWD	LEAM DRILLING SYSTEMS			
4/26/2015	7,645.00	6.50	273.00	7,631.99	110.23	73.82	-260.55	0.39	MWD	LEAM DRILLING SYSTEMS			
4/26/2015	7,740.00	6.10	272.50	7,726.42	112.22	74.32	-270.97	0.42	MWD	LEAM DRILLING SYSTEMS			
4/26/2015	7,834.00	5.80	268.40	7,819.91	113.69	74.41	-280.70	0.55	MWD	LEAM DRILLING SYSTEMS			
4/26/2015	7,929.00	5.30	266.30	7,914.46	114.58	73.99	-289.88	0.57	MWD	LEAM DRILLING SYSTEMS			
4/26/2015	8,023.00	5.30	265.30	8,008.06	115.19	73.35	-298.54	0.10	MWD	LEAM DRILLING SYSTEMS			
4/26/2015	8,118.00	4.70	264.40	8,102.70	115.64	72.61	-306.79	0.64	MWD	LEAM DRILLING SYSTEMS			
4/26/2015	8,212.00	4.50	260.90	8,196.40	115.75	71.66	-314.26	0.37	MWD	LEAM DRILLING SYSTEMS			
4/26/2015	8,307.00	4.00	258.90	8,291.14	115.53	70.43	-321.19	0.55	MWD	LEAM DRILLING SYSTEMS			
4/26/2015	8,402.00	4.70	268.20	8,385.86	115.79	69.67	-328.33	1.04	MWD	LEAM DRILLING SYSTEMS			
4/26/2015	8,496.00	4.20	264.70	8,479.58	116.40	69.23	-335.61	0.61	MWD	LEAM DRILLING SYSTEMS			
4/26/2015	8,591.00	3.90	263.10	8,574.34	116.65	68.52	-342.28	0.34	MWD	LEAM DRILLING SYSTEMS			
4/26/2015	8,685.00	3.90	251.40	8,668.13	116.14	67.12	-348.48	0.85	MWD	LEAM DRILLING SYSTEMS			
4/26/2015	8,780.00	2.80	257.70	8,762.96	115.39	65.59	-353.81	1.22	MWD	LEAM DRILLING SYSTEMS			
4/26/2015	8,875.00	2.10	264.90	8,857.88	115.32	64.94	-357.81	0.80	MWD	LEAM DRILLING SYSTEMS			
4/26/2015	8,969.00	2.20	275.60	8,951.81	115.84	64.96	-361.33	0.44	MWD	LEAM DRILLING SYSTEMS			
4/26/2015	9,066.00	1.90	278.80	9,048.75	116.76	65.39	-364.77	0.33	MWD	LEAM DRILLING SYSTEMS			
4/26/2015	9,161.00	2.20	305.70	9,143.69	118.48	66.70	-367.80	1.05	MWD	LEAM DRILLING SYSTEMS			
4/26/2015	9,256.00	2.10	309.20	9,238.62	121.03	68.86	-370.63	0.17	MWD	LEAM DRILLING SYSTEMS			
4/26/2015	9,350.00	1.30	261.70	9,332.58	122.30	69.80	-373.02	1.65	MWD	LEAM DRILLING SYSTEMS			
4/26/2015	9,445.00	1.10	219.40	9,427.58	121.68	68.94	-374.67	0.93	MWD	LEAM DRILLING SYSTEMS			
4/26/2015	9,540.00	1.50	231.30	9,522.54	120.43	67.45	-376.22	0.51	MWD	LEAM DRILLING SYSTEMS			
4/26/2015	9,634.00	1.40	231.20	9,616.51	119.22	65.97	-378.07	0.11	MWD	LEAM DRILLING SYSTEMS			
4/26/2015	9,729.00	1.50	218.00	9,711.48	117.77	64.26	-379.74	0.37	MWD	LEAM DRILLING SYSTEMS			
4/26/2015	9,823.00	0.80	206.40	9,805.46	116.38	62.70	-380.79	0.78	MWD	LEAM DRILLING SYSTEMS			
4/26/2015	9,918.00	0.50	308.50	9,900.46	116.14	62.36	-381.41	1.08	MWD	LEAM DRILLING SYSTEMS			
4/26/2015	9,980.00	1.80	347.30	9,962.44	117.30	63.48	-381.84	2.33	MWD	LEAM DRILLING SYSTEMS			
4/26/2015	10,012.00	2.90	351.90	9,994.42	118.61	64.77	-382.06	3.48	MWD	LEAM DRILLING SYSTEMS			
4/26/2015	10,052.00	5.40	1.20	10,034.31	121.48	67.66	-382.17	6.45	MWD	LEAM DRILLING SYSTEMS			
4/26/2015	10,075.00	6.70	5.30	10,057.18	123.86	70.08	-382.02	5.95	MWD	LEAM DRILLING SYSTEMS			
4/26/2015	10,107.00	9.80	7.00	10,088.84	128.30	74.64	-381.51	9.72	MWD	LEAM DRILLING SYSTEMS			
4/26/2015	10,138.00	13.50	5.40	10,119.20	134.37	80.86	-380.85	11.98	MWD	LEAM DRILLING SYSTEMS			
4/26/2015	10,170.00	16.90	4.70	10,150.08	142.53	89.22	-380.12	10.64	MWD	LEAM DRILLING SYSTEMS			
4/26/2015	10,201.00	20.00	3.20	10,179.48	152.12	99.01	-379.45	10.12	MWD	LEAM DRILLING SYSTEMS			
4/26/2015	10,233.00	23.00	2.60	10,209.25	163.63	110.72	-378.86	9.40	MWD	LEAM DRILLING SYSTEMS			
4/26/2015	10,264.00	26.20	1.80	10,237.43	176.32	123.61	-378.37	10.38	MWD	LEAM DRILLING SYSTEMS			
4/26/2015	10,295.00	30.30	0.40	10,264.74	190.80	138.28	-378.11	13.40	MWD	LEAM DRILLING SYSTEMS			
4/26/2015	10,327.00	35.50	359.10	10,291.59	208.01	155.65	-378.19	16.40	MWD	LEAM DRILLING SYSTEMS			
4/26/2015	10,358.00	41.00	358.80	10,315.93	227.05	174.83	-378.55	17.75	MWD	LEAM DRILLING SYSTEMS			
4/26/2015	10,390.00	46.00	358.10	10,339.13	248.92	196.84	-379.15	15.70	MWD	LEAM DRILLING SYSTEMS			
4/26/2015	10,421.00	51.20	358.40	10,359.63	272.02	220.08	-379.86	16.79	MWD	LEAM DRILLING SYSTEMS			
4/26/2015	10,452.00	56.50	358.20	10,377.91	296.88	245.09	-380.60	17.10	MWD	LEAM DRILLING SYSTEMS			
4/26/2015	10,484.00	60.90	357.70	10,394.53	324.06	272.41	-381.58	13.81	MWD	LEAM DRILLING SYSTEMS			
4/26/2015	10,515.00	65.60	357.70	10,408.48	351.59	300.06	-382.69	15.16	MWD	LEAM DRILLING SYSTEMS			
4/26/2015	10,547.00	70.70	357.70	10,420.38	381.12	329.73	-383.89	15.94	MWD	LEAM DRILLING SYSTEMS			
4/26/2015	10,578.00	74.90	359.10	10,429.55	410.53	359.32	-384.71	14.22	MWD	LEAM DRILLING SYSTEMS			
4/26/2015	10,614.00	80.80	360.00	10,437.12	445.38	394.50	-384.98	16.57	MWD	LEAM DRILLING SYSTEMS			
4/26/2015	10,693.00	86.60	358.60	10,445.79	523.20	472.98	-385.95	7.55	MWD	LEAM DRILLING SYSTEMS			
4/26/2015	10,787.00	88.30	359.80	10,449.97	616.32	566.87	-387.26	2.21	MWD	LEAM DRILLING SYSTEMS			
4/26/2015	10,881.00	89.20	358.40	10,452.02	709.53	660.84	-388.73	1.77	MWD	LEAM DRILLING SYSTEMS			
4/26/2015	10,976.00	92.20	358.60	10,450.86	803.87	755.79	-391.22	3.16	MWD	LEAM DRILLING SYSTEMS			
4/26/2015	11,070.00	92.20	358.40	10,447.25	897.15	849.69	-393.68	0.21	MWD	LEAM DRILLING SYSTEMS			
4/26/2015	11,165.00	91.50	357.20	10,444.19	991.58	944.56	-397.32	1.48	MWD	LEAM DRILLING SYSTEMS			
4/26/2015	11,259.00	90.70	356.00	10,442.38	1,085.23	1,038.38	-402.90	1.53	MWD	LEAM DRILLING SYSTEMS			
4/26/2015	11,354.00	90.80	356.00	10,441.14	1,179.97	1,133.14	-409.52	0.11	MWD	LEAM DRILLING SYSTEMS			
4/26/2015	11,448.00	91.50	356.30	10,439.25	1,273.68	1,226.91	-415.83	0.81	MWD	LEAM DRILLING SYSTEMS			
4/26/2015	11,542.00	90.90	355.80	10,437.28	1,367.40	1,320.66	-422.31	0.83	MWD	LEAM DRILLING SYSTEMS			
4/26/2015	11,637.00	89.60	355.80	10,436.87	1,462.16	1,415.40	-429.26	1.37	MWD	LEAM DRILLING SYSTEMS			
4/26/2015	11,731.00	90.00	355.40	10,437.20	1,555.96	1,509.13	-436.48	0.60	MWD	LEAM DRILLING SYSTEMS			
4/26/2015	11,826.00	90.70	355.40	10,436.62	1,650.77	1,603.82	-444.09	0.74	MWD	LEAM DRILLING SYSTEMS			
4/26/2015	11,921.00	89.40	356.50	10,436.53	1,745.51	1,698.58	-450.80	1.79	MWD	LEAM DRILLING SYSTEMS			
4/26/2015	12,015.00	89.70	357.00	10,437.27	1,839.16	1,792.42	-456.13	0.62	MWD	LEAM DRILLING SYSTEMS			
4/26/2015	12,110.00	90.20	357.40	10,437.35	1,933.74	1,887.31	-460.77	0.67	MWD	LEAM DRILLING SYSTEMS			
4/26/2015	12,204.00	89.90	357.50	10,437.27	2,027.28	1,981.22	-464.96	0.34	MWD	LEAM DRILLING SYSTEMS			
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Directional Survey

Well Name: TRIONYX 6 FED 9H

Sub-Division	Region	Field Name	County	State/Province		
DELAWARE BASIN	DELAWARE BASIN WEST	PADUCA	LEA	NM		
Surface Legal Location	APRAJN	Latitude (°)	Longitude (°)	Orig KB Elevation (ft)	Ground Elev MSL (ft)	KB - GL (ft)
SEC6 T25S R32E	3002542475	32° 9' 9.467" N	103° 43' 7.595" W	3,466.00	3,441.00	25.00

Survey Data

Date	MD (ft)	Incl (°)	Azm (°)	TVD (ft)	VS (ft)	N/S (ft)	E/W (ft)	DLS (°/100ft)	Survey Tool	Survey Company
4/26/2015	12,298.00	89.40	357.20	10,437.85	2,120.84	2,075.11	-469.30	0.62	MWD	LEAM DRILLING SYSTEMS
4/26/2015	12,393.00	89.70	355.30	10,438.59	2,215.54	2,169.90	-475.51	2.02	MWD	LEAM DRILLING SYSTEMS
4/26/2015	12,488.00	90.70	356.10	10,438.26	2,310.32	2,264.63	-482.64	1.35	MWD	LEAM DRILLING SYSTEMS
4/26/2015	12,582.00	90.60	356.30	10,437.19	2,404.04	2,358.42	-488.87	0.24	MWD	LEAM DRILLING SYSTEMS
4/26/2015	12,677.00	89.80	355.60	10,436.86	2,498.79	2,453.18	-495.58	1.12	MWD	LEAM DRILLING SYSTEMS
4/26/2015	12,771.00	88.50	355.10	10,438.26	2,592.59	2,546.86	-503.20	1.48	MWD	LEAM DRILLING SYSTEMS
4/26/2015	12,866.00	88.80	354.70	10,440.50	2,687.43	2,641.46	-511.64	0.53	MWD	LEAM DRILLING SYSTEMS
4/26/2015	12,961.00	89.40	355.30	10,441.99	2,782.27	2,736.08	-519.92	0.89	MWD	LEAM DRILLING SYSTEMS
4/26/2015	13,055.00	89.40	354.90	10,442.97	2,876.11	2,829.73	-527.95	0.43	MWD	LEAM DRILLING SYSTEMS
4/26/2015	13,150.00	90.20	354.20	10,443.30	2,970.99	2,924.39	-536.97	1.12	MWD	LEAM DRILLING SYSTEMS
4/26/2015	13,244.00	90.70	354.00	10,442.57	3,064.91	3,017.80	-546.63	0.57	MWD	LEAM DRILLING SYSTEMS
4/26/2015	13,339.00	88.70	353.00	10,443.06	3,159.87	3,112.18	-557.38	2.35	MWD	LEAM DRILLING SYSTEMS
4/26/2015	13,433.00	89.40	353.30	10,444.62	3,253.83	3,205.50	-568.59	0.81	MWD	LEAM DRILLING SYSTEMS
4/26/2015	13,528.00	90.00	354.20	10,445.12	3,348.77	3,299.93	-578.94	1.14	MWD	LEAM DRILLING SYSTEMS
4/26/2015	13,622.00	90.80	354.70	10,444.46	3,442.66	3,393.49	-588.03	1.00	MWD	LEAM DRILLING SYSTEMS
4/26/2015	13,716.00	89.50	354.90	10,444.22	3,536.53	3,487.10	-596.55	1.40	MWD	LEAM DRILLING SYSTEMS
4/26/2015	13,810.00	89.50	354.40	10,445.04	3,630.41	3,580.68	-605.31	0.53	MWD	LEAM DRILLING SYSTEMS
4/26/2015	13,905.00	89.90	355.40	10,445.53	3,725.27	3,675.30	-613.75	1.13	MWD	LEAM DRILLING SYSTEMS
4/26/2015	13,999.00	90.10	355.10	10,445.53	3,819.10	3,768.98	-621.54	0.38	MWD	LEAM DRILLING SYSTEMS
4/26/2015	14,094.00	91.50	356.50	10,444.21	3,913.85	3,863.71	-628.49	2.08	MWD	LEAM DRILLING SYSTEMS
4/26/2015	14,188.00	92.00	356.80	10,441.34	4,007.47	3,957.51	-633.99	0.62	MWD	LEAM DRILLING SYSTEMS
4/26/2015	14,282.00	91.00	357.00	10,438.88	4,101.07	4,051.34	-639.07	1.08	MWD	LEAM DRILLING SYSTEMS
4/26/2015	14,377.00	88.60	354.90	10,439.21	4,195.81	4,146.09	-645.78	3.36	MWD	LEAM DRILLING SYSTEMS
4/26/2015	14,471.00	89.00	354.90	10,441.18	4,289.65	4,239.69	-654.13	0.43	MWD	LEAM DRILLING SYSTEMS
4/26/2015	14,566.00	89.40	354.90	10,442.50	4,384.50	4,334.31	-662.57	0.42	MWD	LEAM DRILLING SYSTEMS
4/26/2015	14,660.00	90.10	357.40	10,442.91	4,478.22	4,428.09	-668.88	2.76	MWD	LEAM DRILLING SYSTEMS
4/26/2015	14,755.00	90.40	357.40	10,442.50	4,572.76	4,522.99	-673.19	0.32	MWD	LEAM DRILLING SYSTEMS
4/26/2015	14,849.00	90.20	357.20	10,442.01	4,666.33	4,616.88	-677.62	0.30	MWD	LEAM DRILLING SYSTEMS
4/26/2015	14,914.00	90.60	357.40	10,441.55	4,731.03	4,681.81	-680.68	0.69	MWD	LEAM DRILLING SYSTEMS
4/26/2015	14,972.00	90.60	357.40	10,440.95	4,788.75	4,739.75	-683.31	0.00	BIT	LEAM DRILLING SYSTEMS