



Directional Survey

Well Name: TRIONYX 6 FED 10H

Sub-Division DELAWARE BASIN		Region DELAWARE BASIN WEST		Field Name PADUCA		County LEAH		State/Province NM					
Surface Legal Location SEC6 T25S R32E		API/UWI 3002542476		Latitude (°) 32° 9' 9.467" N		Longitude (°) 103° 43' 7.014" W		Orig KB Elevation (ft) 3,467.40		Ground Elev MSL (ft) 3,442.40		KB - GL (ft) 25.00	
Wellbores													
Wellbore Name OH		Parent Wellbore OH				SAP Well ID 38215				Vertical Section Direction (°) HOBBS C CD			
Kick Offs & Key Depths													
Date 5/15/2015				Type Kick Off				Top Depth (ftKB) 9,961.0					
Actual Deviation Survey EXTREME, Proposed? No				Definitive? Yes		Proposed? No		Proposed Deviation Survey					
Deviation Survey													
Date 4/2/2015		Description EXTREME											
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 (°/100m)	Survey Tool	Survey Company			
4/2/2015	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	MS	EXTREME			
4/2/2015	198.00	2.20	60.32	197.95	2.28	1.88	3.30	1.11	MS	EXTREME			
4/2/2015	259.00	2.42	350.80	258.91	4.22	3.73	4.11	4.33	MS	EXTREME			
4/2/2015	322.00	2.11	353.70	321.86	6.62	6.20	3.77	0.52	MS	EXTREME			
4/2/2015	416.00	1.58	355.81	415.81	9.58	9.21	3.49	0.57	MS	EXTREME			
4/2/2015	510.00	1.41	1.30	509.78	12.00	11.66	3.42	0.24	MS	EXTREME			
4/2/2015	605.00	1.32	6.40	604.76	14.25	13.92	3.57	0.16	MS	EXTREME			
4/2/2015	668.00	1.32	11.60	667.74	15.70	15.35	3.80	0.19	MS	EXTREME			
4/2/2015	798.00	1.32	270.99	797.72	17.03	16.84	2.60	1.56	MS	EXTREME			
4/2/2015	889.00	1.32	28.50	888.71	17.90	17.78	2.05	2.48	MS	EXTREME			
4/2/2015	981.00	1.41	28.41	980.68	19.94	19.71	3.10	0.10	MS	EXTREME			
4/2/2015	1,075.00	1.58	20.90	1,074.65	22.28	21.94	4.11	0.28	MS	EXTREME			
4/2/2015	1,169.00	1.58	17.38	1,168.61	24.81	24.38	4.96	0.10	MS	EXTREME			
4/2/2015	1,260.00	1.49	18.92	1,259.58	27.20	26.70	5.72	0.11	MS	EXTREME			
4/2/2015	1,350.00	1.41	21.60	1,349.55	29.42	28.84	6.50	0.12	MS	EXTREME			
4/2/2015	1,444.00	1.19	23.49	1,443.53	31.48	30.81	7.32	0.24	MS	EXTREME			
4/2/2015	1,539.00	1.32	23.89	1,538.50	33.47	32.71	8.15	0.14	MS	EXTREME			
4/2/2015	1,634.00	1.19	16.68	1,633.48	35.50	34.66	8.88	0.22	MS	EXTREME			
4/2/2015	1,728.00	1.10	16.90	1,727.46	37.35	36.45	9.42	0.10	MS	EXTREME			
4/2/2015	1,822.00	1.10	14.88	1,821.44	39.13	38.19	9.92	0.04	MS	EXTREME			
4/2/2015	1,917.00	1.01	7.19	1,916.43	40.87	39.90	10.26	0.18	MS	EXTREME			
4/2/2015	2,011.00	1.01	9.17	2,010.41	42.53	41.54	10.49	0.04	MS	EXTREME			
4/2/2015	2,105.00	0.79	13.52	2,104.40	44.00	42.99	10.78	0.24	MS	EXTREME			
4/2/2015	2,202.00	0.70	17.52	2,201.39	45.25	44.21	11.11	0.11	MS	EXTREME			
4/2/2015	2,293.00	0.62	27.40	2,292.39	46.26	45.17	11.50	0.15	MS	EXTREME			
4/2/2015	2,388.00	0.70	28.81	2,387.38	47.28	46.14	12.02	0.09	MS	EXTREME			
4/2/2015	2,483.00	1.10	32.50	2,482.37	48.64	47.41	12.79	0.43	MS	EXTREME			
4/2/2015	2,573.00	1.41	39.00	2,572.35	50.36	49.00	13.95	0.38	MS	EXTREME			
4/2/2015	2,673.00	1.58	44.98	2,672.31	52.50	50.94	15.70	0.23	MS	EXTREME			
4/2/2015	2,768.00	1.71	57.90	2,767.27	54.43	52.61	17.83	0.41	MS	EXTREME			
4/2/2015	2,861.00	1.71	63.39	2,860.23	56.08	53.97	20.24	0.18	MS	EXTREME			
4/2/2015	2,954.00	1.89	67.00	2,953.19	57.63	55.19	22.89	0.23	MS	EXTREME			
4/2/2015	3,049.00	1.71	68.10	3,048.14	59.10	56.34	25.65	0.19	MS	EXTREME			
4/2/2015	3,144.00	1.58	61.99	3,143.10	60.55	57.48	28.12	0.23	MS	EXTREME			
4/2/2015	3,243.00	1.58	49.20	3,242.06	62.35	59.01	30.36	0.36	MS	EXTREME			
4/2/2015	3,337.00	1.71	34.08	3,336.03	64.56	61.02	32.13	0.48	MS	EXTREME			
4/2/2015	3,432.00	2.90	32.90	3,430.95	67.99	64.21	34.23	1.25	MS	EXTREME			
4/2/2015	3,527.00	2.90	28.50	3,525.83	72.39	68.34	36.68	0.23	MS	EXTREME			
4/2/2015	3,621.00	2.50	23.89	3,619.72	76.57	72.31	38.64	0.48	MS	EXTREME			
4/2/2015	3,713.00	2.20	20.50	3,711.64	80.21	75.79	40.08	0.36	MS	EXTREME			
4/2/2015	3,810.00	2.02	23.01	3,808.58	83.67	79.11	41.40	0.21	MS	EXTREME			
4/2/2015	3,902.00	2.20	54.69	3,900.52	86.42	81.63	43.47	1.27	MS	EXTREME			
4/2/2015	3,996.00	2.42	63.31	3,994.44	88.75	83.56	46.72	0.44	MS	EXTREME			
4/2/2015	4,090.00	1.41	12.29	4,088.40	91.01	85.58	48.74	2.00	MS	EXTREME			
4/2/2015	4,155.00	0.62	61.42	4,153.39	92.01	86.53	49.22	1.71	MS	EXTREME			
4/2/2015	4,250.00	1.41	140.61	4,248.37	91.51	85.87	50.41	1.51	MS	EXTREME			
4/2/2015	4,270.00	1.49	151.28	4,268.37	91.13	85.45	50.69	1.41	MS	EXTREME			
4/2/2015	4,344.00	1.58	149.00	4,342.34	89.54	83.74	51.68	0.15	MWD	LEAM DRILLING SYSTEMS			
4/2/2015	4,440.00	1.90	117.80	4,438.30	87.94	81.86	53.77	1.03	MWD	LEAM DRILLING SYSTEMS			
4/2/2015	4,534.00	3.20	88.60	4,532.21	87.79	81.20	57.77	1.91	MWD	LEAM DRILLING SYSTEMS			
4/2/2015	4,629.00	4.50	89.10	4,626.99	88.71	81.32	64.15	1.37	MWD	LEAM DRILLING SYSTEMS			
4/2/2015	4,723.00	4.40	88.90	4,720.71	89.75	81.45	71.44	0.11	MWD	LEAM DRILLING SYSTEMS			
4/2/2015	4,818.00	4.00	99.70	4,815.45	90.13	80.96	78.35	0.93	MWD	LEAM DRILLING SYSTEMS			
4/2/2015	4,912.00	5.10	86.10	4,909.16	90.79	80.69	85.75	1.63	MWD	LEAM DRILLING SYSTEMS			
4/2/2015	5,007.00	4.40	86.50	5,003.83	92.27	81.20	93.60	0.74	MWD	LEAM DRILLING SYSTEMS			
4/2/2015	5,101.00	4.10	90.00	5,097.57	93.36	81.42	100.56	0.42	MWD	LEAM DRILLING SYSTEMS			
4/2/2015	5,196.00	5.40	81.90	5,192.25	94.97	82.05	108.38	1.54	MWD	LEAM DRILLING SYSTEMS			
4/2/2015	5,290.00	4.80	79.60	5,285.87	97.32	83.38	116.63	0.67	MWD	LEAM DRILLING SYSTEMS			
4/2/2015	5,384.00	5.50	77.00	5,379.49	100.06	85.11	124.88	0.78	MWD	LEAM DRILLING SYSTEMS			
4/2/2015	5,479.00	5.50	78.70	5,474.06	103.08	87.02	133.78	0.17	MWD	LEAM DRILLING SYSTEMS			
4/2/2015	5,574.00	4.90	83.70	5,568.66	105.47	88.36	142.28	0.79	MWD	LEAM DRILLING SYSTEMS			
4/2/2015	5,668.00	5.20	81.90	5,662.30	107.53	89.40	150.49	0.36	MWD	LEAM DRILLING SYSTEMS			
4/2/2015	5,762.00	5.20	81.20	5,755.91	109.82	90.65	158.92	0.07	MWD	LEAM DRILLING SYSTEMS			
4/2/2015	5,857.00	5.40	73.50	5,850.51	112.81	92.58	167.46	0.78	MWD	LEAM DRILLING SYSTEMS			
4/2/2015	5,952.00	5.20	76.80	5,945.10	116.10	94.83	175.93	0.38	MWD	LEAM DRILLING SYSTEMS			
4/2/2015	6,046.00	5.30	96.20	6,038.72	117.66	95.34	184.40	1.88	MWD	LEAM DRILLING SYSTEMS			



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Survey Data													
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4/2/2015	11,738.00	91.00	1.20	10,449.49	1,599.15	1,547.46	510.36	0.82	MWD	LEAM DRILLING SYSTEMS			
4/2/2015	11,832.00	90.10	2.10	10,448.58	1,692.71	1,641.41	513.07	1.35	MWD	LEAM DRILLING SYSTEMS			
4/2/2015	11,927.00	90.50	2.60	10,448.09	1,787.36	1,736.33	516.96	0.67	MWD	LEAM DRILLING SYSTEMS			
4/2/2015	12,021.00	90.30	3.00	10,447.43	1,881.09	1,830.21	521.55	0.48	MWD	LEAM DRILLING SYSTEMS			
4/2/2015	12,115.00	88.20	2.10	10,448.66	1,974.77	1,924.11	525.74	2.43	MWD	LEAM DRILLING SYSTEMS			
4/2/2015	12,210.00	88.00	1.40	10,451.81	2,069.28	2,019.01	528.64	0.77	MWD	LEAM DRILLING SYSTEMS			
4/2/2015	12,305.00	88.10	0.90	10,455.04	2,163.70	2,113.94	530.54	0.54	MWD	LEAM DRILLING SYSTEMS			
4/2/2015	12,400.00	88.30	1.40	10,458.03	2,258.13	2,208.87	532.45	0.57	MWD	LEAM DRILLING SYSTEMS			
4/2/2015	12,494.00	89.00	1.40	10,460.24	2,351.62	2,302.81	534.74	0.74	MWD	LEAM DRILLING SYSTEMS			
4/2/2015	12,589.00	89.30	1.60	10,461.65	2,446.15	2,397.77	537.23	0.38	MWD	LEAM DRILLING SYSTEMS			
4/2/2015	12,589.00	89.30	1.60	10,461.65	2,446.15	2,397.77	537.23	0.38	MWD	LEAM DRILLING SYSTEMS			
4/2/2015	12,684.00	89.60	1.80	10,462.56	2,540.71	2,492.72	540.05	0.38	MWD	LEAM DRILLING SYSTEMS			
4/2/2015	12,684.00	89.60	1.80	10,462.56	2,540.71	2,492.72	540.05	0.38	MWD	LEAM DRILLING SYSTEMS			
4/2/2015	12,778.00	89.30	360.00	10,463.46	2,634.13	2,586.70	541.52	1.94	MWD	LEAM DRILLING SYSTEMS			
4/2/2015	12,778.00	89.30	360.00	10,463.46	2,634.13	2,586.70	541.52	1.94	MWD	LEAM DRILLING SYSTEMS			
4/2/2015	12,873.00	90.10	359.10	10,463.96	2,728.29	2,681.70	540.78	1.27	MWD	LEAM DRILLING SYSTEMS			
4/2/2015	12,873.00	90.10	359.10	10,463.96	2,728.29	2,681.70	540.78	1.27	MWD	LEAM DRILLING SYSTEMS			
4/2/2015	12,968.00	90.00	359.10	10,463.88	2,822.34	2,776.69	539.29	0.11	MWD	LEAM DRILLING SYSTEMS			
4/2/2015	12,968.00	90.00	359.10	10,463.88	2,822.34	2,776.69	539.29	0.11	MWD	LEAM DRILLING SYSTEMS			
4/2/2015	13,062.00	90.30	360.00	10,463.63	2,915.51	2,870.68	538.55	1.01	MWD	LEAM DRILLING SYSTEMS			
4/2/2015	13,062.00	90.30	360.00	10,463.63	2,915.51	2,870.68	538.55	1.01	MWD	LEAM DRILLING SYSTEMS			
4/2/2015	13,157.00	90.20	360.00	10,463.22	3,009.76	2,965.68	538.55	0.11	MWD	LEAM DRILLING SYSTEMS			
4/2/2015	13,157.00	90.20	360.00	10,463.22	3,009.76	2,965.68	538.55	0.11	MWD	LEAM DRILLING SYSTEMS			
4/2/2015	13,251.00	90.20	1.80	10,462.89	3,103.19	3,059.67	540.02	1.91	MWD	LEAM DRILLING SYSTEMS			
4/2/2015	13,251.00	90.20	1.80	10,462.89	3,103.19	3,059.67	540.02	1.91	MWD	LEAM DRILLING SYSTEMS			
4/2/2015	13,346.00	90.00	1.90	10,462.72	3,197.78	3,154.62	543.09	0.24	MWD	LEAM DRILLING SYSTEMS			
4/2/2015	13,346.00	90.00	1.90	10,462.72	3,197.78	3,154.62	543.09	0.24	MWD	LEAM DRILLING SYSTEMS			
4/2/2015	13,402.00	90.00	1.90	10,462.72	3,253.54	3,210.59	544.95	0.00	MWD	LEAM DRILLING SYSTEMS			
4/2/2015	13,441.00	89.											