

devon

Directional Survey

3001542385

Sub-Division DELAWARE BASIN	County EDDY	Field Name LOST TANK	Region DELAWARE BASIN WEST	State/Province NM
Surface Legal Location SEC34 T21S R31E	API/UWI 3001542385	Latitude (°) 32° 26' 20.832" N	Longitude (°) 103° 45' 59.554" W	Ground Elev M... 3,480.80
Wellbores		Orig KB Elev (ft) 3,508.80	Tubing Head Elevation (ft)	
Wellbore Name OH	Parent Wellbore	SAP Well ID 37454	Vertical Section Direction (°) 357.67	

Kick Offs & Key Depths

Date	Type
Actual Deviation Survey MWD/LEAM, Proposed? No	Definitive? Yes Proposed? No

Provide signature page for survey

Deviation Survey

Date 11/16/2014	Description MWD/LEAM
MD Tie In (ftKB)	TVD Tie In (ftKB)
Inclination Tie In (°)	Azimuth Tie In

Survey Data

Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	N/S (ft)	E/W (ft)	DLS (°/100ft)	Survey Tool	Survey Company
11/23/2...	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	MWD	EXTREME
11/23/2...	159.00	0.48	346.55	159.00	0.65	0.65	-0.15	-0.30	MWD	EXTREME
11/23/2...	323.00	0.62	1.67	322.99	2.21	2.20	-0.29	-0.12	MWD	EXTREME
11/23/2...	422.00	1.19	329.46	421.98	3.65	3.62	-0.80	-0.75	MWD	EXTREME
11/23/2...	544.00	1.49	323.88	543.94	6.09	6.00	-2.37	-0.27	MWD	EXTREME
11/23/2...	839.00	2.02	318.87	838.81	13.33	13.01	-8.06	-0.19	MWD	EXTREME
11/23/2...	927.00	1.07	324.27	926.77	15.22	14.85	-9.56	-1.09	MWD	EXTREME
11/23/2...	1,023.00	1.58	323.09	1,022.75	17.06	16.63	-10.87	-0.53	MWD	EXTREME
11/23/2...	1,114.00	1.58	330.56	1,113.71	19.21	18.73	-12.24	-0.23	MWD	EXTREME
11/23/2...	1,205.00	1.49	331.96	1,204.68	21.39	20.86	-13.42	-0.11	MWD	EXTREME
11/23/2...	1,296.00	1.32	334.38	1,295.65	23.42	22.85	-14.43	-0.20	MWD	EXTREME
11/23/2...	1,388.00	1.19	347.26	1,387.63	25.33	24.74	-15.09	-0.34	MWD	EXTREME
11/23/2...	1,483.00	1.10	3.69	1,482.61	27.21	26.61	-15.25	-0.36	MWD	EXTREME
11/23/2...	1,577.00	1.01	24.17	1,576.60	28.85	28.27	-14.86	-0.41	MWD	EXTREME
11/23/2...	1,672.00	1.41	52.69	1,671.58	30.27	29.74	-13.58	-0.75	MWD	EXTREME
11/23/2...	1,767.00	2.11	61.48	1,766.53	31.71	31.28	-11.12	-0.79	MWD	EXTREME
11/23/2...	1,861.00	2.68	68.55	1,860.45	33.19	32.91	-7.55	-0.68	MWD	EXTREME
11/23/2...	1,956.00	3.12	69.65	1,955.33	34.72	34.63	-3.06	-0.47	MWD	EXTREME
11/23/2...	2,051.00	3.52	70.88	2,050.17	36.36	36.48	-2.12	-0.43	MWD	EXTREME
11/23/2...	2,145.00	3.52	67.37	2,143.99	38.20	38.54	-7.51	-0.23	MWD	EXTREME
11/23/2...	2,240.00	3.60	68.47	2,238.81	40.19	40.75	-12.98	-0.11	MWD	EXTREME
11/23/2...	2,334.00	4.31	65.87	2,332.58	42.47	43.28	-18.94	-0.78	MWD	EXTREME
11/23/2...	2,430.00	4.79	65.13	2,428.28	45.35	46.44	-25.87	-0.50	MWD	EXTREME
11/23/2...	2,525.00	5.01	67.46	2,522.93	48.30	49.70	-33.30	-0.31	MWD	EXTREME
11/23/2...	2,620.00	4.79	68.38	2,617.58	51.05	52.75	-40.82	-0.25	MWD	EXTREME
11/23/2...	2,715.00	4.31	70.75	2,712.28	53.40	55.39	-47.88	-0.54	MWD	EXTREME
11/23/2...	2,809.00	4.09	70.36	2,806.03	55.42	57.68	-54.37	-0.24	MWD	EXTREME
11/23/2...	2,903.00	3.69	78.18	2,899.82	56.92	59.43	-60.49	-0.71	MWD	EXTREME
11/23/2...	2,998.00	3.38	89.69	2,994.64	57.32	60.07	-66.28	-0.81	MWD	EXTREME
11/23/2...	3,093.00	3.69	98.26	3,089.46	56.66	59.64	-72.11	-0.64	MWD	EXTREME
11/23/2...	3,188.00	4.09	101.16	3,184.24	55.31	58.55	-78.46	-0.47	MWD	EXTREME
11/23/2...	3,284.00	4.09	95.36	3,279.99	54.05	57.57	-85.22	-0.43	MWD	EXTREME
11/23/2...	3,378.00	3.30	95.36	3,373.80	53.24	57.00	-91.26	-0.84	MWD	EXTREME
11/23/2...	3,474.00	2.42	102.79	3,469.68	52.34	56.29	-95.98	-0.99	MWD	EXTREME
11/23/2...	3,568.00	2.42	116.76	3,563.59	50.86	54.96	-99.69	-0.63	MWD	EXTREME
11/23/2...	3,663.00	2.99	109.77	3,658.49	48.95	53.22	-103.81	-0.69	MWD	EXTREME
11/23/2...	3,757.00	4.00	85.96	3,752.32	48.13	52.62	-109.39	-1.86	MWD	EXTREME
11/23/2...	3,852.00	4.48	73.65	3,847.06	49.13	53.90	-116.26	-1.08	MWD	EXTREME
11/23/2...	3,947.00	3.91	74.18	3,941.80	50.78	55.83	-122.93	-0.60	MWD	EXTREME
11/23/2...	4,024.00	3.52	75.28	4,018.64	51.90	57.14	-127.74	-0.51	MWD	EXTREME
11/23/2...	4,132.00	2.90	75.28	4,126.47	53.20	58.68	-133.59	-0.57	MWD	EXTREME
11/23/2...	4,226.00	2.90	76.16	4,220.35	54.18	59.85	-138.20	-0.05	MWD	EXTREME
11/23/2...	4,321.00	2.90	74.27	4,315.23	55.22	61.08	-142.85	-0.10	MWD	EXTREME
11/23/2...	4,417.00	2.80	74.18	4,411.11	56.33	62.38	-147.44	-0.10	MWD	EXTREME

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				Ong KB Elev (ft) 3,508.80
				Tubing Head Elevation (ft)

Survey Data

Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	N/S (ft)	E/W (ft)	DLS (7/100ft)	Survey Tool	Survey Company
11/23/2...	4,511.00	2.60	71.45	4,505.01	57.46	63.68	151.67	0.25	MWD	EXTREME
11/23/2...	4,606.00	2.50	66.75	4,599.91	58.80	65.18	155.62	0.24	MWD	EXTREME
11/23/2...	4,700.00	2.50	64.47	4,693.82	60.34	66.88	159.35	0.11	MWD	EXTREME
11/23/2...	4,794.00	2.40	61.17	4,787.74	62.03	68.71	162.93	0.18	MWD	EXTREME
11/23/2...	4,889.00	2.20	57.57	4,882.66	63.83	70.65	166.21	0.26	MWD	EXTREME
11/23/2...	4,984.00	2.20	56.78	4,977.59	65.68	72.62	169.27	0.03	MWD	EXTREME
11/23/2...	5,079.00	1.80	56.38	5,072.53	67.39	74.45	172.04	0.42	MWD	EXTREME
11/23/2...	5,173.00	2.20	55.46	5,166.48	69.12	76.29	174.76	0.43	MWD	EXTREME
11/23/2...	5,265.00	2.20	57.48	5,258.41	70.95	78.24	177.70	0.08	MWD	EXTREME
11/23/2...	5,369.00	2.20	55.57	5,362.33	73.01	80.44	181.03	0.07	MWD	EXTREME
11/23/2...	5,488.00	2.11	55.82	5,481.25	75.38	82.96	184.73	0.08	MWD	EXTREME
11/23/2...	5,583.00	2.02	54.36	5,576.18	77.23	84.92	187.53	0.11	MWD	EXTREME
11/23/2...	5,643.00	1.89	49.79	5,636.15	78.41	86.18	189.15	0.34	MWD	EXTREME
11/23/2...	5,737.00	1.80	44.87	5,730.10	80.37	88.22	191.37	0.19	MWD	EXTREME
11/23/2...	5,834.00	1.71	43.07	5,827.06	82.42	90.36	193.44	0.11	MWD	EXTREME
11/23/2...	5,938.00	1.58	34.89	5,931.01	84.65	92.67	195.32	0.26	MWD	EXTREME
11/23/2...	6,024.00	1.49	33.35	6,016.98	86.50	94.58	196.61	0.12	MWD	EXTREME
11/23/2...	6,118.00	1.32	33.35	6,110.95	88.38	96.50	197.88	0.18	MWD	EXTREME
11/23/2...	6,214.00	1.32	33.04	6,206.93	90.18	98.35	199.09	0.01	MWD	EXTREME
11/23/2...	6,308.00	1.19	32.47	6,300.91	91.86	100.08	200.20	0.14	MWD	EXTREME
11/23/2...	6,403.00	1.10	33.18	6,395.89	93.41	101.68	201.23	0.10	MWD	EXTREME
11/23/2...	6,498.00	0.88	29.75	6,490.87	94.77	103.07	202.09	0.24	MWD	EXTREME
11/23/2...	6,593.00	0.62	36.39	6,585.86	95.79	104.12	202.76	0.29	MWD	EXTREME
11/23/2...	6,688.00	0.62	48.38	6,680.86	96.52	104.88	203.45	0.14	MWD	EXTREME
11/23/2...	6,782.00	0.48	48.38	6,774.85	97.09	105.48	204.12	0.15	MWD	EXTREME
11/23/2...	6,972.00	0.31	22.06	6,964.85	98.06	106.48	204.91	0.13	MWD	EXTREME
11/23/2...	7,049.00	0.31	22.06	7,041.85	98.44	106.87	205.07	0.00	MWD	EXTREME
11/28/2...	7,134.00	0.60	52.00	7,126.85	98.91	107.35	205.50	0.43	MWD	LEAM
11/28/2...	7,165.00	1.60	7.20	7,157.84	99.43	107.88	205.69	4.03	MWD	LEAM
11/28/2...	7,197.00	4.80	2.60	7,189.79	101.21	109.67	205.80	10.02	MWD	LEAM
11/28/2...	7,229.00	8.60	6.30	7,221.56	104.91	113.38	206.13	11.95	MWD	LEAM
11/28/2...	7,260.00	12.30	6.10	7,252.04	110.47	118.97	206.73	11.94	MWD	LEAM
11/28/2...	7,292.00	16.40	4.50	7,283.04	118.33	126.87	207.45	12.87	MWD	LEAM
11/28/2...	7,323.00	20.00	1.50	7,312.48	127.97	136.53	207.93	12.00	MWD	LEAM
11/28/2...	7,355.00	23.50	1.20	7,342.20	139.80	148.39	208.21	10.94	MWD	LEAM
11/28/2...	7,387.00	26.90	0.60	7,371.15	153.40	162.01	208.42	10.65	MWD	LEAM
11/28/2...	7,418.00	30.90	359.60	7,398.28	168.36	176.98	208.44	13.00	MWD	LEAM
11/28/2...	7,450.00	35.10	358.70	7,425.12	185.78	194.41	208.17	13.21	MWD	LEAM
11/28/2...	7,482.00	39.40	357.50	7,450.58	205.15	213.76	207.52	13.63	MWD	LEAM
11/28/2...	7,513.00	43.00	357.70	7,473.90	225.56	234.16	206.66	11.62	MWD	LEAM
11/28/2...	7,545.00	46.00	357.10	7,496.73	247.99	256.56	205.64	9.47	MWD	LEAM
11/28/2...	7,576.00	47.70	358.20	7,517.93	270.60	279.16	204.72	6.06	MWD	LEAM
11/28/2...	7,608.00	49.30	358.50	7,539.13	294.57	303.11	204.03	5.05	MWD	LEAM
11/28/2...	7,636.00	51.10	358.90	7,557.05	316.08	324.62	203.54	6.52	MWD	LEAM
11/28/2...	7,667.00	52.60	359.10	7,576.20	340.45	348.99	203.12	4.87	MWD	LEAM
11/28/2...	7,699.00	54.60	358.90	7,595.19	366.19	374.74	202.67	6.27	MWD	LEAM
11/28/2...	7,729.00	56.30	358.40	7,612.20	390.90	399.45	202.08	5.83	MWD	LEAM
11/28/2...	7,761.00	57.90	357.40	7,629.58	417.77	426.29	201.10	5.65	MWD	LEAM
11/28/2...	7,793.00	59.20	357.50	7,646.28	445.06	453.56	199.88	4.07	MWD	LEAM
11/28/2...	7,825.00	60.10	357.00	7,662.45	472.68	481.15	198.56	3.12	MWD	LEAM
11/28/2...	7,856.00	61.00	357.10	7,677.69	499.67	508.11	197.17	2.92	MWD	LEAM
11/28/2...	7,886.00	62.30	357.00	7,691.93	526.07	534.47	195.81	4.34	MWD	LEAM
11/28/2...	7,920.00	63.30	357.00	7,707.48	556.31	564.67	194.23	2.94	MWD	LEAM
11/28/2...	7,951.00	64.30	357.30	7,721.16	584.12	592.45	192.84	3.34	MWD	LEAM
11/28/2...	7,983.00	65.20	357.30	7,734.81	613.06	621.36	191.48	2.81	MWD	LEAM

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11/28/2...	8,015.00	66.10	357.10	7,748.01	642.21	650.48	190.06	2.87	MWD	LEAM
11/28/2...	8,046.00	66.90	357.10	7,760.37	670.64	678.87	188.62	2.58	MWD	LEAM
11/28/2...	8,077.00	67.60	357.10	7,772.36	699.23	707.42	187.17	2.26	MWD	LEAM
11/28/2...	8,109.00	68.30	357.10	7,784.37	728.89	737.04	185.67	2.19	MWD	LEAM
11/28/2...	8,141.00	69.10	356.80	7,795.99	758.70	766.82	184.08	2.65	MWD	LEAM
11/28/2...	8,173.00	69.80	356.60	7,807.23	788.66	796.73	182.36	2.26	MWD	LEAM
11/28/2...	8,204.00	70.60	356.40	7,817.73	817.82	825.84	180.58	2.65	MWD	LEAM
11/28/2...	8,236.00	72.10	356.10	7,827.96	848.13	856.10	178.60	4.77	MWD	LEAM
11/28/2...	8,267.00	73.70	355.70	7,837.07	877.74	885.65	176.48	5.31	MWD	LEAM
11/28/2...	8,299.00	75.20	355.20	7,845.65	908.55	916.38	174.03	4.92	MWD	LEAM
11/28/2...	8,330.00	76.20	354.70	7,853.31	938.55	946.30	171.39	3.58	MWD	LEAM
11/28/2...	8,362.00	77.60	354.00	7,860.56	969.66	977.32	168.32	4.87	MWD	LEAM
11/28/2...	8,394.00	79.20	353.60	7,867.00	1,000.94	1,008.48	164.93	5.15	MWD	LEAM
11/28/2...	8,425.00	80.50	353.80	7,872.46	1,031.38	1,038.81	161.58	4.24	MWD	LEAM
11/28/2...	8,457.00	82.20	353.80	7,877.27	1,062.94	1,070.26	158.17	5.31	MWD	LEAM
11/28/2...	8,488.00	83.80	354.70	7,881.05	1,093.66	1,100.87	155.08	5.91	MWD	LEAM
11/28/2...	8,520.00	85.20	355.00	7,884.12	1,125.47	1,132.59	152.23	4.47	MWD	LEAM
11/28/2...	8,551.00	86.50	355.90	7,886.36	1,156.36	1,163.41	149.77	5.10	MWD	LEAM
11/28/2...	8,645.00	89.00	356.80	7,890.05	1,250.26	1,257.14	143.80	2.83	MWD	LEAM
11/28/2...	8,741.00	89.40	356.80	7,891.39	1,346.24	1,352.98	138.44	0.42	MWD	LEAM
11/28/2...	8,836.00	91.00	357.70	7,891.06	1,441.23	1,447.87	133.88	1.93	MWD	LEAM
11/28/2...	8,931.00	89.70	357.70	7,890.48	1,536.23	1,542.79	130.07	1.37	MWD	LEAM
11/28/2...	9,026.00	91.00	357.70	7,889.90	1,631.22	1,637.71	126.25	1.37	MWD	LEAM
11/28/2...	9,121.00	90.90	358.40	7,888.32	1,726.21	1,732.64	123.02	0.74	MWD	LEAM
11/28/2...	9,216.00	90.00	359.10	7,887.58	1,821.18	1,827.61	120.95	1.20	MWD	LEAM
11/28/2...	9,311.00	89.50	358.90	7,887.99	1,916.16	1,922.60	119.29	0.57	MWD	LEAM
11/28/2...	9,406.00	90.00	357.30	7,888.41	2,011.15	2,017.54	116.14	1.76	MWD	LEAM
11/28/2...	9,501.00	90.90	357.00	7,887.66	2,106.14	2,112.42	111.42	1.00	MWD	LEAM
11/28/2...	9,596.00	90.20	355.90	7,886.75	2,201.11	2,207.23	105.54	1.37	MWD	LEAM
11/28/2...	9,691.00	90.60	357.00	7,886.08	2,296.09	2,302.04	99.65	1.23	MWD	LEAM
11/28/2...	9,786.00	90.20	357.00	7,885.42	2,391.08	2,396.91	94.68	0.42	MWD	LEAM
11/28/2...	9,881.00	89.70	356.30	7,885.50	2,486.06	2,491.75	89.13	0.91	MWD	LEAM
11/28/2...	9,976.00	89.70	355.70	7,886.00	2,581.02	2,586.52	82.50	0.63	MWD	LEAM
11/28/2...	10,071.00	90.00	355.70	7,886.25	2,675.97	2,681.25	75.38	0.32	MWD	LEAM
11/28/2...	10,164.00	89.20	356.30	7,886.90	2,768.92	2,774.02	68.89	1.08	MWD	LEAM
11/28/2...	10,259.00	89.60	355.90	7,887.89	2,863.88	2,868.79	62.43	0.60	MWD	LEAM
11/28/2...	10,380.00	90.00	354.70	7,888.32	2,984.77	2,989.38	52.52	1.05	MWD	LEAM
11/28/2...	10,475.00	90.50	355.50	7,887.90	3,079.68	3,084.03	44.41	0.99	MWD	LEAM
11/28/2...	10,569.00	90.80	355.70	7,886.84	3,173.61	3,177.75	37.19	0.38	MWD	LEAM
11/28/2...	10,663.00	90.80	355.50	7,885.52	3,267.54	3,271.46	29.98	0.21	MWD	LEAM
11/28/2...	10,758.00	91.00	356.60	7,884.03	3,362.49	3,366.22	23.44	1.18	MWD	LEAM
11/28/2...	10,854.00	90.60	355.70	7,882.69	3,458.44	3,462.00	16.99	1.03	MWD	LEAM
11/28/2...	10,948.00	89.50	354.80	7,882.61	3,552.36	3,555.67	9.21	1.51	MWD	LEAM
12/6/2014	11,042.00	89.90	355.50	7,883.10	3,646.26	3,649.33	1.26	0.86	MWD	LEAM
12/6/2014	11,136.00	90.00	355.50	7,883.18	3,740.20	3,743.04	-6.11	0.11	MWD	LEAM
12/6/2014	11,231.00	90.70	356.10	7,882.60	3,835.14	3,837.79	-13.07	-0.97	MWD	LEAM
12/6/2014	11,326.00	91.50	355.90	7,880.78	3,930.08	3,932.54	-19.69	-0.87	MWD	LEAM
12/6/2014	11,420.00	90.50	356.10	7,879.14	4,024.03	4,026.29	-26.25	-1.08	MWD	LEAM
12/6/2014	11,514.00	91.20	356.60	7,877.74	4,117.99	4,120.09	-32.23	-0.92	MWD	LEAM
12/6/2014	11,609.00	92.00	356.80	7,875.09	4,212.94	4,214.89	-37.70	-0.87	MWD	LEAM
12/6/2014	11,704.00	91.70	356.40	7,872.02	4,307.88	4,309.68	-43.33	-0.53	MWD	LEAM
12/6/2014	11,799.00	91.20	356.80	7,869.62	4,402.83	4,404.48	-48.96	-0.67	MWD	LEAM
12/6/2014	11,894.00	90.10	356.30	7,868.54	4,497.80	4,499.30	-54.68	-1.27	MWD	LEAM
12/6/2014	11,988.00	90.00	355.70	7,868.46	4,591.76	4,593.07	-61.24	-0.65	MWD	LEAM
12/6/2014	12,083.00	90.10	356.10	7,868.38	4,686.72	4,687.83	-68.03	-0.43	MWD	LEAM

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Directional Survey

Sub-Division DELAWARE BASIN	County EDDY	Field Name LOST TANK	Region DELAWARE BASIN WEST	State/Province NM
Surface Legal Location SEC34 T21S R31E	API/UWI 3001542385	Latitude (°) 32° 26' 20.832" N	Longitude (°) 103° 45' 59.554" W	Ground Elev M... 3,480.80
				Orig KB Elev (ft) 3,508.80
				Tubing Head Elevation (ft)

Survey Data

Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	N/S (ft)	E/W (ft)	DLS (°/100ft)	Survey Tool	Survey Company
12/7/2014	12,178.00	90.20	356.10	7,868.13	4,781.68	4,782.61	74.49	0.11	MWD	LEAM
12/7/2014	12,272.00	90.30	356.10	7,867.72	4,875.64	4,876.39	80.88	0.11	MWD	LEAM
12/7/2014	12,366.00	90.00	355.40	7,867.47	4,969.59	4,970.13	87.85	0.81	MWD	LEAM
12/7/2014	12,462.00	90.00	354.50	7,867.47	5,065.48	5,065.75	96.30	0.94	MWD	LEAM
12/7/2014	12,557.00	90.00	355.20	7,867.47	5,160.37	5,160.37	104.83	0.74	MWD	LEAM
12/7/2014	12,652.00	89.30	354.80	7,868.05	5,255.26	5,255.01	113.11	0.85	MWD	LEAM
12/7/2014	12,747.00	89.90	355.70	7,868.72	5,350.17	5,349.68	120.97	1.14	MWD	LEAM
12/7/2014	12,843.00	91.50	357.10	7,867.54	5,446.13	5,445.47	127.00	2.21	MWD	LEAM
12/7/2014	12,937.00	90.90	356.60	7,865.58	5,540.10	5,539.31	132.17	0.83	MWD	LEAM
12/7/2014	13,032.00	92.00	357.50	7,863.17	5,635.07	5,634.15	137.05	1.50	MWD	LEAM
12/7/2014	13,128.00	92.00	357.30	7,859.82	5,731.01	5,729.99	141.41	0.21	MWD	LEAM
12/7/2014	13,222.00	91.60	357.50	7,856.87	5,824.96	5,823.85	145.67	0.48	MWD	LEAM
12/7/2014	13,317.00	91.30	358.20	7,854.46	5,919.93	5,918.75	149.23	0.80	MWD	LEAM
12/7/2014	13,412.00	91.20	358.20	7,852.39	6,014.90	6,013.68	152.21	0.11	MWD	LEAM
12/7/2014	13,507.00	90.50	358.00	7,850.98	6,109.89	6,108.62	155.36	0.77	MWD	LEAM
12/7/2014	13,602.00	89.10	358.40	7,851.31	6,204.88	6,203.57	158.35	1.53	MWD	LEAM
12/8/2014	13,697.00	90.10	359.40	7,851.98	6,299.85	6,298.55	160.17	1.49	MWD	LEAM
12/8/2014	13,791.00	91.50	0.80	7,850.67	6,393.75	6,392.53	160.01	2.11	MWD	LEAM
12/8/2014	13,886.00	90.90	1.20	7,848.68	6,488.57	6,487.50	158.35	0.76	MWD	LEAM
12/8/2014	13,981.00	89.70	358.20	7,848.18	6,583.50	6,582.48	158.85	3.40	MWD	LEAM
12/8/2014	14,076.00	89.20	358.50	7,849.09	6,678.49	6,677.44	161.58	0.61	MWD	LEAM
12/8/2014	14,171.00	88.40	357.50	7,851.08	6,773.46	6,772.36	164.90	1.35	MWD	LEAM
12/8/2014	14,265.00	89.00	358.00	7,853.21	6,867.44	6,866.26	168.59	0.83	MWD	LEAM
12/8/2014	14,360.00	89.40	359.10	7,854.54	6,962.42	6,961.22	170.99	1.23	MWD	LEAM
12/8/2014	14,455.00	87.80	357.00	7,856.86	7,057.38	7,056.13	174.22	2.78	MWD	LEAM
12/8/2014	14,550.00	91.00	356.60	7,857.85	7,152.35	7,150.96	179.52	3.39	MWD	LEAM
12/8/2014	14,644.00	92.30	356.40	7,855.15	7,246.29	7,244.75	185.26	1.40	MWD	LEAM
12/8/2014	14,739.00	91.60	354.70	7,851.92	7,341.16	7,339.40	192.63	1.93	MWD	LEAM
12/8/2014	14,834.00	90.50	351.20	7,850.17	7,435.81	7,433.65	204.28	3.86	MWD	LEAM
12/13/2...	14,937.00	91.80	353.30	7,848.11	7,538.32	7,535.68	218.17	2.40	MWD	LEAM
12/13/2...	15,033.00	92.90	354.00	7,844.17	7,634.00	7,631.01	228.78	1.36	MWD	LEAM
12/13/2...	15,127.00	91.10	353.60	7,840.89	7,727.73	7,724.40	238.92	1.96	MWD	LEAM
12/13/2...	15,222.00	91.20	354.50	7,838.98	7,822.52	7,818.87	248.77	0.95	MWD	LEAM
12/13/2...	15,316.00	89.70	352.40	7,838.24	7,916.25	7,912.24	259.49	2.75	MWD	LEAM
12/14/2...	15,411.00	89.80	352.70	7,838.66	8,010.87	8,006.44	271.81	0.33	MWD	LEAM
12/14/2...	15,506.00	90.80	352.90	7,838.16	8,105.52	8,100.69	283.71	1.07	MWD	LEAM
12/14/2...	15,600.00	91.80	355.00	7,836.03	8,199.30	8,194.13	293.62	2.47	MWD	LEAM
12/14/2...	15,695.00	92.10	356.30	7,832.80	8,294.18	8,288.80	300.82	1.40	MWD	LEAM
12/14/2...	15,790.00	90.40	356.40	7,830.72	8,389.13	8,383.58	306.87	1.79	MWD	LEAM
12/14/2...	15,885.00	89.30	357.30	7,830.97	8,484.12	8,478.44	312.09	1.50	MWD	LEAM
12/14/2...	15,981.00	90.00	358.50	7,831.56	8,580.11	8,574.37	315.60	1.45	MWD	LEAM
12/14/2...	16,075.00	88.00	357.70	7,833.20	8,674.09	8,668.30	318.72	2.29	MWD	LEAM
12/14/2...	16,171.00	88.00	358.00	7,836.55	8,770.03	8,764.17	322.32	0.31	MWD	LEAM
12/14/2...	16,266.00	88.40	358.40	7,839.53	8,864.98	8,859.08	325.30	0.60	MWD	LEAM
12/14/2...	16,361.00	88.40	358.20	7,842.19	8,959.94	8,954.00	328.12	0.21	MWD	LEAM
12/14/2...	16,456.00	89.00	358.70	7,844.34	9,054.90	9,048.94	330.69	0.82	MWD	LEAM
12/15/2...	16,550.00	90.00	0.10	7,845.16	9,148.85	9,142.93	331.67	1.83	MWD	LEAM
12/15/2...	16,645.00	88.00	0.10	7,846.82	9,243.75	9,237.91	331.51	2.11	MWD	LEAM
12/15/2...	16,740.00	91.70	0.30	7,847.07	9,338.64	9,332.89	331.17	3.90	MWD	LEAM
12/15/2...	16,835.00	90.70	359.40	7,845.08	9,433.55	9,427.87	331.42	1.42	MWD	LEAM
12/15/2...	16,930.00	88.80	358.50	7,845.49	9,528.52	9,522.84	333.16	2.21	MWD	LEAM
12/15/2...	17,025.00	89.10	358.70	7,847.23	9,623.49	9,617.80	335.48	0.38	MWD	LEAM
12/15/2...	17,120.00	89.70	359.20	7,848.23	9,718.46	9,712.78	337.22	0.82	MWD	LEAM
12/15/2...	17,214.00	89.60	0.30	7,848.80	9,812.39	9,806.77	337.63	1.18	MWD	LEAM
12/15/2...	17,309.00	89.40	0.60	7,849.63	9,907.28	9,901.77	336.89	0.38	MWD	LEAM
12/15/2...	17,405.00	89.20	1.50	7,850.81	10,003.10	9,997.74	335.13	0.96	MWD	LEAM

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Directional Survey

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Survey Data

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12/15/2...	17,499.00	88.90	1.20	7,852.36	10,096.89	10,091.70	332.92	0.45	MWD	LEAM
12/16/2...	17,594.00	88.50	0.50	7,854.52	10,191.72	10,186.67	331.51	0.85	MWD	LEAM
12/16/2...	17,688.00	90.00	0.10	7,855.75	10,285.61	10,280.66	331.01	1.65	MWD	LEAM
12/16/2...	17,783.00	88.50	358.50	7,856.99	10,380.56	10,375.63	332.17	2.31	MWD	LEAM
12/16/2...	17,878.00	89.20	358.40	7,858.90	10,475.53	10,470.58	334.74	0.74	MWD	LEAM
12/16/2...	17,972.00	90.00	357.70	7,859.56	10,569.53	10,564.52	337.94	1.13	MWD	LEAM
12/16/2...	18,067.00	90.90	357.10	7,858.81	10,664.52	10,659.42	342.25	1.14	MWD	LEAM
12/16/2...	18,162.00	90.10	357.10	7,857.98	10,759.51	10,754.29	347.06	0.84	MWD	LEAM
12/16/2...	18,256.00	90.50	356.80	7,857.49	10,853.50	10,848.16	352.06	0.53	MWD	LEAM
12/16/2...	18,351.00	91.10	355.20	7,856.16	10,948.45	10,942.91	358.68	1.80	MWD	LEAM
12/17/2...	18,797.00	91.10	355.20	7,847.60	11,393.95	11,387.27	396.00	0.00	BIT	LEAM