



Well Name: LAVA TUBE 27 STATE 1H

Sub-Division	Region	Field Name	County	State/Province		
DELAWARE BASIN WEST	BASIN WEST	LOST TANK	EDDY	NM		
Surface Legal Location	API/UWI	Latitude (°)	Longitude (°)	Orig KB Elevation (ft)	Ground Elev MSL (ft)	KB - GL (ft)
SEC34 T21S R31E	3001540786	32° 26' 22.308" N	103° 45' 45.063" W	3,517.50	3,491.50	26.00

Wellbores			
Wellbore Name	Parent Wellbore	SAP Well ID	Vertical Section Direction (*)
OH	OH	32490	

Kick Offs & Key Depths			
Date		Type	
		Top Depth (ftKB)	
Actual Deviation Survey		Definitive?	Proposed?
<des>, Proposed? No		No	No
		Proposed Deviation Survey	

Deviation Survey					
Date		Description			
MD Tie In (ftKB)	TVD Tie In (ftKB)	Inclination Tie In (°)	Azimuth Tie In (°)	NSTie In (ft)	EW Tie In (ft)

Survey Data										
Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	N/S (ft)	E/W (ft)	DLS (°/100ft)	Survey Tool	Survey Company
3/3/2013	300.00	0.30	166.11	300.00	0.77	-0.76	0.19	0.10	MWD	NES
3/3/2013	500.00	0.30	333.10	500.00	0.76	-0.80	0.08	0.30	MWD	NES
3/3/2013	750.00	1.30	281.90	749.97	-1.61	0.36	-2.99	0.45	MWD	NES
3/6/2013	938.00	1.30	294.10	937.92	-4.53	1.68	-7.03	0.15	MWD	NES
3/6/2013	1,084.00	1.50	292.60	1,083.88	-7.20	3.09	-10.30	0.14	MWD	NES
3/6/2013	1,284.00	0.50	345.10	1,283.85	-10.01	4.94	-12.94	0.63	MWD	NES
3/7/2013	1,800.00	3.30	85.00	1,799.57	-7.05	8.41	1.28	0.66	MWD	NES
3/7/2013	2,158.00	4.30	77.50	2,156.78	-0.47	12.21	24.64	0.31	MWD	NES
3/8/2013	2,539.00	4.60	76.30	2,536.63	5.80	18.92	53.43	0.08	MWD	NES
3/9/2013	2,735.00	4.30	76.60	2,732.04	8.92	22.48	68.22	0.15	MWD	NES
3/9/2013	2,920.00	4.00	88.00	2,916.55	12.92	24.32	81.41	0.47	MWD	NES
3/10/2013	3,002.00	4.40	94.90	2,998.33	15.64	24.15	87.40	0.79	MWD	NES
3/11/2013	3,110.00	3.60	105.40	3,106.07	19.94	22.89	94.80	1.00	MWD	NES
3/11/2013	3,232.00	3.30	107.30	3,227.85	24.82	20.83	101.85	0.26	MWD	NES
3/12/2013	3,482.00	5.60	111.50	3,477.08	38.61	14.22	120.07	0.93	MWD	NES
3/12/2013	3,580.00	5.10	111.60	3,574.65	45.28	10.86	128.57	0.51	MWD	NES
3/12/2013	3,679.00	4.20	107.90	3,673.33	50.98	8.13	136.11	0.96	MWD	NES
3/12/2013	3,774.00	3.90	106.40	3,768.09	55.52	6.15	142.52	0.33	MWD	NES
3/12/2013	3,956.00	2.20	115.90	3,949.83	62.37	2.88	151.60	0.97	MWD	NES
3/13/2013	4,012.00	1.80	112.70	4,005.79	63.86	2.07	153.38	0.74	MWD	NES
3/15/2013	4,241.00	1.60	149.50	4,234.70	69.72	-2.08	158.32	0.48	MWD	TELEDRIFT
3/15/2013	4,536.00	1.30	130.50	4,529.60	76.88	-7.80	162.95	0.19	MWD	TELEDRIFT
3/15/2013	5,011.00	1.10	144.50	5,004.50	86.28	-15.01	169.70	0.07	MWD	TELEDRIFT
3/16/2013	5,485.00	0.70	140.50	5,478.44	93.57	-20.95	174.18	0.09	MWD	TELEDRIFT
3/16/2013	5,959.00	0.20	133.50	5,952.43	97.15	-23.75	176.62	0.11	MWD	TELEDRIFT
3/16/2013	6,433.00	0.40	180.50	6,426.42	99.41	-25.98	177.21	0.06	MWD	TELEDRIFT
3/16/2013	6,903.00	0.30	153.50	6,896.41	102.12	-28.72	177.74	0.04	MWD	TELEDRIFT
3/16/2013	7,277.00	0.40	212.50	7,270.41	103.79	-30.69	177.48	0.10	MWD	TELEDRIFT
3/16/2013	7,667.00	0.40	169.50	7,660.40	105.83	-33.18	177.00	0.08	MWD	TELEDRIFT
3/16/2013	8,141.00	1.00	172.50	8,134.36	111.36	-38.91	177.84	0.13	MWD	TELEDRIFT
3/16/2013	8,330.00	1.20	189.50	8,323.32	114.56	-42.50	177.73	0.20	MWD	TELEDRIFT
3/16/2013	8,520.00	0.70	157.50	8,513.30	117.35	-45.53	177.84	0.37	MWD	TELEDRIFT
3/17/2013	8,995.00	1.50	210.50	8,988.22	123.74	-53.57	175.80	0.26	MWD	TELEDRIFT
3/18/2013	9,471.00	1.90	244.50	9,464.02	127.25	-62.33	165.51	0.22	MWD	TELEDRIFT
3/18/2013	9,825.00	1.20	204.50	9,817.90	129.65	-68.23	158.68	0.35	MWD	TELEDRIFT
3/19/2013	10,131.00	1.70	229.50	10,123.80	132.90	-74.10	153.90	0.26	MWD	TELEDRIFT
3/19/2013	10,605.00	1.90	260.50	10,597.58	132.58	-79.96	140.80	0.21	MWD	TELEDRIFT
3/20/2013	11,086.00	3.70	259.50	11,077.98	126.42	-84.10	117.67	0.37	MWD	TELEDRIFT
3/20/2013	11,256.00	3.80	260.50	11,247.62	123.47	-86.03	106.72	0.07	MWD	TELEDRIFT
3/21/2013	11,746.00	4.80	265.50	11,736.24	111.72	-90.32	70.27	0.22	MWD	TELEDRIFT
3/21/2013	12,065.00	4.80	265.50	12,054.12	102.21	-92.42	43.66	0.00	BIT	TELEDRIFT

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