



Well Name: RATTLESNAKE 16 SWD 1

MAR 29 2016

Sub-Division
DELAWARE BASIN EAST

Region
BASIN EAST

Field Name
RATTLESNAKE (NM)

County
RECEIVED

State/Province
NM

Surface Legal Location
SEC 16-26S-34E

API/UWI
3002542355

Latitude (°)
32° 2' 36.398" N

Longitude (°)
103° 29' 0.136" W

Orig KB Elev (ft)
3,360.80

Ground Elev MSL (ft)
3,337.30

KB - GL (ft)
23.50

Wellbores

Wellbore Name
OH

Parent Wellbore
OH

SAP Well ID
38517

Vertical Section Direction (°)

Kick Offs & Key Depths

Date

Type

Top Depth (ftKB)

Actual Deviation Survey
FLODRIFT, Proposed? No

Definitive?
No

Proposed?
No

Proposed Deviation Survey

Deviation Survey

Date
5/31/2015

Description
FLODRIFT

MD Tie In (ftKB)

TVD Tie In (ftKB)

Inclination Tie In (°)

Azimuth Tie In (°)

NSTie In (ft)

EWtie 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
5/31/2015	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	MWD	NOV
5/31/2015	137.00	0.20	338.00	137.00	-0.22	0.22	-0.09	0.15	MWD	NOV
5/31/2015	256.00	0.10	334.00	256.00	-0.51	0.51	-0.21	0.08	MWD	NOV
5/31/2015	291.00	0.30	286.00	291.00	-0.56	0.56	-0.31	0.70	MWD	NOV
6/1/2015	352.00	0.50	284.00	352.00	-0.67	0.67	-0.73	0.33	MWD	NOV
6/1/2015	475.00	0.60	275.00	474.99	-0.86	0.85	-1.89	0.11	MWD	NOV
6/1/2015	567.00	0.50	249.00	566.99	-0.76	0.75	-2.74	0.29	MWD	NOV
6/4/2015	803.00	0.40	262.50	802.98	-0.29	0.28	-4.52	0.06	MWD	LEAM DRILLING SYSTEMS
6/4/2015	896.00	0.50	254.80	895.98	-0.14	0.13	-5.23	0.13	MWD	LEAM DRILLING SYSTEMS
6/4/2015	988.00	0.40	230.90	987.97	0.16	-0.18	-5.87	0.23	MWD	LEAM DRILLING SYSTEMS
6/4/2015	1,082.00	0.40	226.70	1,081.97	0.60	-0.61	-6.36	0.03	MWD	LEAM DRILLING SYSTEMS
6/4/2015	1,174.00	0.40	238.10	1,173.97	0.98	-1.00	-6.87	0.09	MWD	LEAM DRILLING SYSTEMS
6/4/2015	1,268.00	0.20	235.60	1,267.97	1.25	-1.27	-7.28	0.21	MWD	LEAM DRILLING SYSTEMS
6/4/2015	1,358.00	0.40	234.20	1,357.97	1.52	-1.54	-7.67	0.22	MWD	LEAM DRILLING SYSTEMS
6/5/2015	1,451.00	0.30	255.00	1,450.97	1.77	-1.79	-8.17	0.17	MWD	LEAM DRILLING SYSTEMS
6/5/2015	1,546.00	0.40	195.00	1,545.96	2.16	-2.18	-8.49	0.38	MWD	LEAM DRILLING SYSTEMS
6/5/2015	1,641.00	0.30	189.40	1,640.96	2.72	-2.74	-8.62	0.11	MWD	LEAM DRILLING SYSTEMS
6/5/2015	1,737.00	0.10	26.80	1,736.96	2.89	-2.92	-8.62	0.41	MWD	LEAM DRILLING SYSTEMS
6/5/2015	1,832.00	0.30	214.90	1,831.96	3.02	-3.05	-8.73	0.42	MWD	LEAM DRILLING SYSTEMS
6/5/2015	1,928.00	0.20	80.40	1,927.96	3.20	-3.23	-8.71	0.48	MWD	LEAM DRILLING SYSTEMS
6/5/2015	2,023.00	0.10	228.10	2,022.96	3.23	-3.25	-8.61	0.30	MWD	LEAM DRILLING SYSTEMS
6/5/2015	2,118.00	0.20	163.60	2,117.96	3.44	-3.47	-8.62	0.19	MWD	LEAM DRILLING SYSTEMS
6/5/2015	2,214.00	0.40	115.10	2,213.96	3.75	-3.77	-8.27	0.32	MWD	LEAM DRILLING SYSTEMS
6/5/2015	2,310.00	0.40	83.10	2,309.96	3.85	-3.87	-7.63	0.23	MWD	LEAM DRILLING SYSTEMS
6/5/2015	2,405.00	0.40	101.00	2,404.96	3.88	-3.90	-6.98	0.13	MWD	LEAM DRILLING SYSTEMS
6/5/2015	2,501.00	0.20	88.20	2,500.95	3.94	-3.95	-6.48	0.22	MWD	LEAM DRILLING SYSTEMS
6/5/2015	2,596.00	0.30	62.10	2,595.95	3.82	-3.83	-6.10	0.16	MWD	LEAM DRILLING SYSTEMS
6/5/2015	2,691.00	0.20	76.70	2,690.95	3.66	-3.68	-5.72	0.12	MWD	LEAM DRILLING SYSTEMS
6/6/2015	2,786.00	0.40	104.00	2,785.95	3.71	-3.72	-5.23	0.25	MWD	LEAM DRILLING SYSTEMS
6/6/2015	2,881.00	0.40	118.90	2,880.95	3.95	-3.96	-4.62	0.11	MWD	LEAM DRILLING SYSTEMS
6/6/2015	2,978.00	0.40	73.70	2,977.95	4.02	-4.03	-4.00	0.32	MWD	LEAM DRILLING SYSTEMS
6/6/2015	3,073.00	0.40	66.40	3,072.94	3.79	-3.80	-3.38	0.05	MWD	LEAM DRILLING SYSTEMS
6/6/2015	3,169.00	0.40	20.00	3,168.94	3.35	-3.35	-2.96	0.33	MWD	LEAM DRILLING SYSTEMS
6/6/2015	3,265.00	0.30	47.70	3,264.94	2.86	-2.87	-2.65	0.20	MWD	LEAM DRILLING SYSTEMS
6/6/2015	3,361.00	0.40	30.70	3,360.94	2.41	-2.41	-2.30	0.15	MWD	LEAM DRILLING SYSTEMS
6/6/2015	3,455.00	0.50	0.10	3,454.94	1.72	-1.72	-2.13	0.27	MWD	LEAM DRILLING SYSTEMS
6/6/2015	3,550.00	0.40	346.90	3,549.93	0.98	-0.98	-2.20	0.15	MWD	LEAM DRILLING SYSTEMS
6/6/2015	3,646.00	0.60	18.50	3,645.93	0.17	-0.18	-2.12	0.35	MWD	LEAM DRILLING SYSTEMS
6/6/2015	3,741.00	0.50	32.30	3,740.93	-0.65	0.64	-1.74	0.17	MWD	LEAM DRILLING SYSTEMS
6/7/2015	3,837.00	0.70	22.20	3,836.92	-1.54	1.54	-1.30	0.23	MWD	LEAM DRILLING SYSTEMS
6/7/2015	4,088.00	1.10	27.30	4,087.89	-5.10	5.10	0.39	0.16	MWD	LEAM DRILLING SYSTEMS
6/7/2015	4,123.00	1.10	37.90	4,122.88	-5.66	5.66	0.75	0.58	MWD	LEAM DRILLING SYSTEMS
6/7/2015	4,219.00	1.00	38.40	4,218.87	-7.04	7.05	1.84	0.10	MWD	LEAM DRILLING SYSTEMS
6/7/2015	4,314.00	1.20	33.00	4,313.85	-8.52	8.53	2.89	0.24	MWD	LEAM DRILLING SYSTEMS
6/7/2015	4,410.00	1.20	30.30	4,409.83	-10.23	10.24	3.95	0.06	MWD	LEAM DRILLING SYSTEMS
6/7/2015	4,505.00	1.60	44.70	4,504.80	-12.03	12.04	5.38	0.56	MWD	LEAM DRILLING SYSTEMS
6/8/2015	4,601.00	1.40	50.50	4,600.77	-13.72	13.74	7.23	0.26	MWD	LEAM DRILLING SYSTEMS
6/8/2015	4,697.00	1.30	48.80	4,696.74	-15.18	15.20	8.95	0.11	MWD	LEAM DRILLING SYSTEMS
6/8/2015	4,792.00	1.30	37.90	4,791.72	-16.74	16.77	10.43	0.26	MWD	LEAM DRILLING SYSTEMS
6/8/2015	4,888.00	1.40	57.20	4,887.69	-18.23	18.26	12.08	0.48	MWD	LEAM DRILLING SYSTEMS
6/8/2015	4,983.00	1.40	74.40	4,982.66	-19.16	19.20	14.17	0.44	MWD	LEAM DRILLING SYSTEMS
6/8/2015	5,079.00	1.40	79.40	5,078.63	-19.69	19.73	16.46	0.13	MWD	LEAM DRILLING SYSTEMS
6/8/2015	5,174.00	1.30	71.30	5,173.61	-20.24	20.29	18.62	0.23	MWD	LEAM DRILLING SYSTEMS
6/8/2015	5,241.00	1.10	81.70	5,240.59	-20.57	20.63	19.97	0.44	MWD	LEAM DRILLING SYSTEMS
6/12/2015	5,481.00	1.01	69.48	5,480.55	-21.64	21.70	24.24	0.10	MWD	EXTREME
6/12/2015	5,768.00	0.79	71.59	5,767.52	-23.14	23.21	28.48	0.08	MWD	EXTREME
6/12/2015	5,955.00	0.70	61.35	5,954.50	-24.09	24.17	30.71	0.09	MWD	EXTREME
6/12/2015	6,240.00	0.62	33.58	6,239.48	-26.20	26.29	33.09	0.11	MWD	EXTREME
6/12/2015	6,552.00	0.70	9.98	6,551.46	-29.48	29.57	34.35	0.09	MWD	EXTREME
6/12/2015	6,709.00	0.48	27.07	6,708.45	-31.01	31.10	34.82	0.18	MWD	EXTREME
6/12/2015	6,999.00	0.40	16.97	6,998.44	-33.06	33.15	35.67	0.04	MWD	EXTREME
6/12/2015	7,265.00	0.22	56.69	7,264.44	-34.22	34.32	36.36	0.10	MWD	EXTREME
6/12/2015	7,553.00	0.48	115.36	7,552.44	-34.01	34.11	37.92	0.14	MWD	EXTREME
6/12/2015	7,849.00	0.70	162.07	7,848.42	-31.75	31.85	39.59	0.17	MWD	EXTREME
6/12/2015	8,052.00	0.70	176.35	8,051.41	-29.33	29.44	40.05	0.09	MWD	EXTREME
6/12/2015	8,342.00	0.88	201.98	8,341.38	-25.50	25.60	39.33	0.14	MWD	EXTREME

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Report Printed: 3/17/2016

MAY 10 2016



Well Name: RATTLESNAKE 16 SWD 1

Sub-Division		Region		Field Name			County		State/Province		
DELAWARE BASIN EAST		BASIN EAST		RATTLESNAKE (NM)			LEA		NM		
Surface Legal Location		API/UWI		Latitude (°)		Longitude (°)		Orig KB Elevation (ft)		Ground Elev MSL (ft)	
SEC 16-26S-34E		3002542355		32° 2' 36.398" N		103° 29' 0.136" W		3,360.80		3,337.30	
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SEC 16-26S-34E		3002542355		32° 2'							



Well Name: RATTLESNAKE 16 SWD 1

Sub-Division DELAWARE BASIN EAST		Region BASIN EAST		Field Name RATTLESNAKE (NM)		County LEA		State/Province NM	
Surface Legal Location SEC 16-26S-34E		API/UWI 3002542355		Latitude (°) 32° 2' 36.398" N	Longitude (°) 103° 29' 0.136" W	Orig KB Elevation (ft) 3,360.80		Ground Elev MSL (ft) 3,337.30	KB - GL (ft) 23.50

Survey Data										
Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	N/S (ft)	E/W (ft)	DLS (°/100ft)	Survey Tool	Survey Company
8/3/2015	18,630.00	1.43	231.31	18,627.43	-96.56	96.61	19.77	0.44	INC	LEAM DRILLING SYSTEMS
8/3/2015	18,660.00	1.50	215.15	18,657.42	-96.01	96.06	19.26	1.39	INC	LEAM DRILLING SYSTEMS
8/3/2015	18,690.00	1.82	228.53	18,687.41	-95.37	95.42	18.67	1.67	INC	LEAM DRILLING SYSTEMS
8/3/2015	18,720.00	2.14	224.60	18,717.39	-94.66	94.71	17.92	1.16	INC	LEAM DRILLING SYSTEMS
8/3/2015	18,750.00	2.35	221.56	18,747.37	-93.80	93.85	17.12	0.80	INC	LEAM DRILLING SYSTEMS
8/3/2015	18,780.00	3.21	201.24	18,777.33	-92.56	92.61	16.41	4.32	INC	LEAM DRILLING SYSTEMS
8/3/2015	18,810.00	3.76	192.67	18,807.27	-90.82	90.86	15.89	2.52	INC	LEAM DRILLING SYSTEMS
8/3/2015	18,840.00	4.26	188.45	18,837.20	-88.76	88.80	15.51	1.93	INC	LEAM DRILLING SYSTEMS
8/3/2015	18,870.00	4.56	185.31	18,867.11	-86.47	86.51	15.23	1.28	INC	LEAM DRILLING SYSTEMS
8/3/2015	18,900.00	5.06	181.75	18,897.01	-83.96	84.00	15.08	1.94	INC	LEAM DRILLING SYSTEMS
8/3/2015	18,930.00	5.42	184.97	18,926.88	-81.23	81.27	14.92	1.55	INC	LEAM DRILLING SYSTEMS
8/3/2015	18,960.00		179.04	18,956.84	-79.82	79.86	14.80	18.07	INC	LEAM DRILLING SYSTEMS
8/3/2015	18,990.00	6.04	186.13	18,986.78	-78.25	78.29	14.63	20.13	INC	LEAM DRILLING SYSTEMS
8/3/2015	19,020.00	6.12	180.18	19,016.61	-75.08	75.12	14.46	2.12	INC	LEAM DRILLING SYSTEMS
8/3/2015	19,050.00	6.63	186.57	19,046.43	-71.76	71.80	14.25	2.91	INC	LEAM DRILLING SYSTEMS
8/3/2015	19,080.00	6.88	181.26	19,076.22	-68.24	68.28	14.01	2.24	INC	LEAM DRILLING SYSTEMS
8/3/2015	19,110.00	7.38	183.46	19,105.99	-64.52	64.56	13.86	1.90	INC	LEAM DRILLING SYSTEMS
8/3/2015	19,140.00	8.47	187.72	19,135.70	-60.41	60.45	13.45	4.12	INC	LEAM DRILLING SYSTEMS
8/3/2015	19,170.00	9.15	186.36	19,165.35	-55.85	55.89	12.88	2.37	INC	LEAM DRILLING SYSTEMS
8/3/2015	19,200.00	9.70	188.03	19,194.94	-50.98	51.01	12.27	2.05	INC	LEAM DRILLING SYSTEMS
8/3/2015	19,230.00	10.22	190.31	19,224.49	-45.86	45.89	11.44	2.18	INC	LEAM DRILLING SYSTEMS
8/3/2015	19,260.00	10.64	190.01	19,253.99	-40.52	40.55	10.48	1.41	INC	LEAM DRILLING SYSTEMS
8/3/2015	19,290.00	10.82	190.35	19,283.47	-35.02	35.05	9.49	0.64	INC	LEAM DRILLING SYSTEMS
8/3/2015	19,320.00	11.35	195.07	19,312.91	-29.41	29.43	8.22	3.50	INC	LEAM DRILLING SYSTEMS
8/3/2015	19,350.00	11.44	191.54	19,342.32	-23.65	23.66	6.86	2.34	INC	LEAM DRILLING SYSTEMS
8/3/2015	19,380.00	11.76	193.40	19,371.71	-17.76	17.77	5.55	1.64	INC	LEAM DRILLING SYSTEMS
8/3/2015	19,410.00	12.47	194.04	19,401.04	-11.65	11.66	4.06	2.41	INC	LEAM DRILLING SYSTEMS
8/3/2015	19,440.00	12.46	193.58	19,430.33	-5.36	5.37	2.51	0.33	INC	LEAM DRILLING SYSTEMS
8/3/2015	19,470.00	11.99	191.12	19,459.65	0.84	-0.83	1.15	2.34	INC	LEAM DRILLING SYSTEMS
8/3/2015	19,500.00	11.88	190.68	19,489.00	6.93	-6.93	-0.02	0.48	INC	LEAM DRILLING SYSTEMS
8/3/2015	19,530.00	11.70	189.25	19,518.37	12.96	-12.96	-1.08	1.14	INC	LEAM DRILLING SYSTEMS
8/3/2015	19,560.00	11.84	186.44	19,547.74	19.02	-19.02	-1.92	1.97	INC	LEAM DRILLING SYSTEMS
8/3/2015	19,590.00	11.90	188.96	19,577.10	25.13	-25.14	-2.74	1.74	INC	LEAM DRILLING SYSTEMS
8/3/2015	19,620.00	13.53	181.15	19,606.36	31.69	-31.70	-3.30	7.88	INC	LEAM DRILLING SYSTEMS
8/3/2015	19,650.00	15.28	171.97	19,635.42	39.12	-39.13	-2.81	9.57	INC	LEAM DRILLING SYSTEMS
8/3/2015	19,680.00	14.74	171.31	19,664.40	46.81	-46.81	-1.68	1.89	INC	LEAM DRILLING SYSTEMS
8/3/2015	19,710.00	15.25	170.88	19,693.38	54.48	-54.48	-0.48	1.74	INC	LEAM DRILLING SYSTEMS
8/3/2015	19,740.00	16.06	170.68	19,722.26	62.47	-62.47	0.81	2.71	INC	LEAM DRILLING SYSTEMS
8/3/2015	19,770.00	16.78	170.95	19,751.04	70.85	-70.84	2.17	2.41	INC	LEAM DRILLING SYSTEMS
8/3/2015	19,800.00	17.50	171.49	19,779.71	79.59	-79.58	3.52	2.46	INC	LEAM DRILLING SYSTEMS
8/3/2015	19,830.00	18.24	171.89	19,808.26	88.70	-88.69	4.85	2.50	INC	LEAM DRILLING SYSTEMS
8/3/2015	19,860.00	18.82	173.34	19,836.71	98.16	-98.14	6.07	2.47	INC	LEAM DRILLING SYSTEMS
8/3/2015	19,890.00	20.31	173.55	19,864.97	108.14	-108.12	7.22	4.97	INC	LEAM DRILLING SYSTEMS
8/3/2015	19,920.00	21.45	175.06	19,893.00	118.78	-118.76	8.27	4.20	INC	LEAM DRILLING SYSTEMS
8/3/2015	19,950.00	19.13	177.03	19,921.14	129.16	-129.14	9.00	8.06	INC	LEAM DRILLING SYSTEMS
8/3/2015	19,980.00	22.31	177.31	19,949.19	139.76	-139.74	9.52	10.61	INC	LEAM DRILLING SYSTEMS
8/3/2015	20,010.00	24.67	177.32	19,976.71	151.71	-151.68	10.08	7.87	INC	LEAM DRILLING SYSTEMS
8/3/2015	20,040.00	25.65	178.32	20,003.86	164.45	-164.43	10.57	3.56	INC	LEAM DRILLING SYSTEMS
8/3/2015	20,070.00	27.57	179.64	20,030.68	177.89	-177.86	10.80	6.70	INC	LEAM DRILLING SYSTEMS
8/3/2015	20,100.00	27.98	180.54	20,057.23	191.87	-191.84	10.78	1.96	INC	LEAM DRILLING SYSTEMS
8/3/2015	20,130.00	32.98	181.47	20,083.07	207.08	-207.05	10.50	16.74	INC	LEAM DRILLING SYSTEMS
8/3/2015	20,160.00	33.82	182.14	20,108.12	223.58	-223.56	9.98	3.06	INC	LEAM DRILLING SYSTEMS
8/3/2015	20,190.00	35.15	183.82	20,132.84	240.54	-240.52	9.09	5.45	INC	LEAM DRILLING SYSTEMS
8/3/2015	20,220.00	38.56	184.15	20,156.85	258.48	-258.46	7.84	11.39	INC	LEAM DRILLING SYSTEMS
8/3/2015	20,250.00	40.59	184.98	20,179.97	277.53	-277.51	6.32	6.99	INC	LEAM DRILLING SYSTEMS
8/3/2015	20,280.00	42.38	185.58	20,202.44	297.31	-297.30	4.49	6.11	INC	LEAM DRILLING SYSTEMS
8/3/2015	20,335.00	42.38	185.58	20,243.07	334.20	-334.20	0.88	0.00	BIT	LEAM DRILLING SYSTEMS