

Results of Directional Survey

API number:	30-025-41433	DD
OGRID:	Operator:	DEVON ENERGY PRODUCTION COMPANY, LP
	Property:	MEAN GREEN 27 FEDERAL # 1

surface	ULSTR:	P	22	T 26S	R 34E
				100 FSL	480 FEL

BH Loc	ULSTR:	A	27	T 26S	R 34E
9580	MD	9484.1	TVD	383 FNL	349 FEL

Top Perf/OH	ULSTR:	A	27	T 26S	R 34E
9149	MD	9053.1	TVD	383 FNL	351 FEL

Bot Perf/OH	ULSTR:	A	27	T 26S	R 34E
9499	MD	9403.1	TVD	383 FNL	349 FEL

	MD	N/S	E/W	VD
	9063	-482.99	128.52	8967.12
TOP PERFS/OH	9149	-482.88	129.05	9053.12
	9158	-482.87	129.11	9062.12
	9441	-483.07	130.64	9345.11
BOT PERFS/OH	9499	-483.13	130.92	9403.11
	9504	-483.14	130.94	9408.11

NEXT TO LAST	9562	-483.15	131.15	9466.11
LAST READING	9580	-483.15	131.16	9484.11
TD	9580	-483.15	131.16	9484.11

Surface Location	100	FS	480	FE
Projected BHL	383	FN	349	FE
Location of				
Top Perfs/OH	383	FN	351	FE
Bottom Perfs/OH	383	FN	349	FE

SUMMARY of Subsurface Locations

Surface Location	P-22-26S-34E	100	FS	480	FE	Vert. Depth
Top Perfs/OH	A-27-26S-34E	383	FN	351	FE	9053.12
Bottom Perfs/OH	A-27-26S-34E	383	FN	349	FE	9403.11
Projected TD	A-27-26S-34E	383	FN	349	FE	9484.11

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Directional Survey

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District PERMIAN BASIN	County LEA	Field Name RATTLESNAKE (NM)	Project Group DELAWARE BASIN	State/Province NM
Surface Legal Location SEC22 T26S R34E	API/UWI 3002541433	Latitude (°) 32° 1' 18.99" N	Longitude (°) 103° 27' 2.87" W	Ground Elev... 3,215.50
			KB - GL (ft) 25.00	Orig KB Elev (ft) 3,240.50
				Tubing Head Elevation (ft)

Wellbores

Wellbore Name OH	Parent Wellbore	SAP Well ID 34484	Kick Off Depth (ftKB)	Vertical Section Direction (°) 177.83
Actual Deviation Survey GYRO, Proposed? No	Definitive? Yes	Proposed? No	Proposed Deviation Survey	

Deviation Survey

Date 2/13/2014		Description GYRO			
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	EW Tie In (ft) 0.00

Survey Data

Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	N/S (ft)	E/W (ft)	DLS (°/100ft)	Survey Tool	Survey Company
2/13/2014	52.50	0.20	131.48	52.50	0.06	-0.06	0.07	0.38	GYRO	GYRODATA SERVICES CA...
2/13/2014	141.10	0.27	162.05	141.10	0.37	-0.36	0.25	0.16	GYRO	GYRODATA SERVICES CA...
2/13/2014	231.80	0.37	179.71	231.80	0.87	-0.86	0.32	0.15	GYRO	GYRODATA SERVICES CA...
2/13/2014	326.80	0.49	191.05	326.80	1.57	-1.56	0.24	0.15	GYRO	GYRODATA SERVICES CA...
2/13/2014	417.90	0.63	198.58	417.89	2.42	-2.42	0.01	0.17	GYRO	GYRODATA SERVICES CA...
2/13/2014	507.70	0.63	198.69	507.69	3.34	-3.36	-0.31	0.00	GYRO	GYRODATA SERVICES CA...
2/13/2014	598.50	1.17	208.00	598.47	4.61	-4.65	-0.91	0.61	GYRO	GYRODATA SERVICES CA...
2/13/2014	689.80	3.28	207.47	689.70	7.69	-7.79	-2.55	2.31	GYRO	GYRODATA SERVICES CA...
2/13/2014	782.50	4.36	202.73	782.19	13.19	-13.39	-5.13	1.21	GYRO	GYRODATA SERVICES CA...
2/13/2014	876.00	4.35	202.83	875.42	19.62	-19.94	-7.88	0.01	GYRO	GYRODATA SERVICES CA...
2/13/2014	968.30	4.38	204.62	967.46	25.94	-26.37	-10.71	0.15	GYRO	GYRODATA SERVICES CA...
2/13/2014	1,060.70	3.94	207.20	1,059.61	31.86	-32.40	-13.63	0.52	GYRO	GYRODATA SERVICES CA...
2/13/2014	1,152.60	3.41	209.69	1,151.32	36.93	-37.58	-16.43	0.60	GYRO	GYRODATA SERVICES CA...
2/13/2014	1,243.80	2.90	211.85	1,242.38	41.15	-41.90	-18.99	0.57	GYRO	GYRODATA SERVICES CA...
2/13/2014	1,336.40	2.57	211.15	1,334.88	44.82	-45.66	-21.30	0.36	GYRO	GYRODATA SERVICES CA...
2/13/2014	1,430.80	2.39	211.59	1,429.19	48.23	-49.15	-23.42	0.19	GYRO	GYRODATA SERVICES CA...
2/13/2014	1,525.30	2.22	212.16	1,523.61	51.38	-52.38	-25.43	0.18	GYRO	GYRODATA SERVICES CA...
2/13/2014	1,619.80	2.07	209.67	1,618.05	54.34	-55.41	-27.25	0.19	GYRO	GYRODATA SERVICES CA...
2/13/2014	1,714.30	1.86	205.25	1,712.49	57.15	-58.28	-28.75	0.27	GYRO	GYRODATA SERVICES CA...
2/13/2014	1,808.80	1.67	198.90	1,806.95	59.80	-60.97	-29.85	0.29	GYRO	GYRODATA SERVICES CA...
2/13/2014	1,903.20	1.64	191.48	1,901.31	62.39	-63.60	-30.56	0.23	GYRO	GYRODATA SERVICES CA...
2/13/2014	1,997.70	1.56	180.60	1,995.77	64.99	-66.21	-30.84	0.33	GYRO	GYRODATA SERVICES CA...
2/13/2014	2,092.20	1.68	167.36	2,090.23	67.64	-68.85	-30.55	0.41	GYRO	GYRODATA SERVICES CA...
2/13/2014	2,186.70	1.72	162.35	2,184.69	70.37	-71.55	-29.82	0.16	GYRO	GYRODATA SERVICES CA...
2/13/2014	2,281.20	1.84	146.41	2,279.15	73.03	-74.16	-28.55	0.54	GYRO	GYRODATA SERVICES CA...
2/13/2014	2,375.60	2.13	129.69	2,373.49	75.49	-76.55	-26.36	0.68	GYRO	GYRODATA SERVICES CA...
2/13/2014	2,470.10	2.69	115.20	2,467.91	77.69	-78.61	-23.01	0.87	GYRO	GYRODATA SERVICES CA...
2/13/2014	2,564.60	3.14	104.37	2,562.29	79.44	-80.20	-18.49	0.75	GYRO	GYRODATA SERVICES CA...
2/13/2014	2,659.10	3.60	98.51	2,656.62	80.73	-81.28	-13.05	0.61	GYRO	GYRODATA SERVICES CA...
2/13/2014	2,753.60	3.24	100.34	2,750.95	81.86	-82.20	-7.49	0.40	GYRO	GYRODATA SERVICES CA...
2/13/2014	2,848.00	3.40	88.74	2,845.20	82.48	-82.62	-2.07	0.73	GYRO	GYRODATA SERVICES CA...
2/13/2014	2,942.50	3.93	81.30	2,939.50	82.16	-82.07	3.94	0.75	GYRO	GYRODATA SERVICES CA...
2/13/2014	3,037.00	4.42	78.00	3,033.75	81.17	-80.82	10.70	0.58	GYRO	GYRODATA SERVICES CA...
2/13/2014	3,131.50	4.95	77.07	3,127.94	79.78	-79.15	18.23	0.57	GYRO	GYRODATA SERVICES CA...
2/13/2014	3,226.00	5.29	80.52	3,222.06	78.47	-77.52	26.51	0.49	GYRO	GYRODATA SERVICES CA...
2/13/2014	3,320.40	5.62	84.14	3,316.03	77.62	-76.33	35.40	0.50	GYRO	GYRODATA SERVICES CA...
2/13/2014	3,414.90	5.15	85.09	3,410.11	77.12	-75.50	44.22	0.51	GYRO	GYRODATA SERVICES CA...
2/13/2014	3,509.40	5.25	79.38	3,504.23	76.28	-74.34	52.70	0.56	GYRO	GYRODATA SERVICES CA...
2/13/2014	3,603.90	5.72	74.61	3,598.29	74.57	-72.29	61.49	0.69	GYRO	GYRODATA SERVICES CA...
2/13/2014	3,698.40	5.65	74.72	3,692.33	72.43	-69.81	70.52	0.07	GYRO	GYRODATA SERVICES CA...
2/13/2014	3,792.80	4.90	81.26	3,786.33	70.92	-67.98	78.99	1.02	GYRO	GYRODATA SERVICES CA...
2/13/2014	3,887.30	4.08	91.57	3,880.54	70.68	-67.45	86.34	1.21	GYRO	GYRODATA SERVICES CA...
2/13/2014	3,981.80	4.92	70.27	3,974.75	69.67	-66.18	93.51	1.96	GYRO	GYRODATA SERVICES CA...
2/13/2014	4,076.30	4.99	72.58	4,068.90	67.37	-63.58	101.25	0.22	GYRO	GYRODATA SERVICES CA...
2/13/2014	4,170.80	5.27	63.67	4,163.02	64.51	-60.42	109.06	0.89	GYRO	GYRODATA SERVICES CA...
2/13/2014	4,265.20	4.70	52.81	4,257.07	60.52	-56.16	116.02	1.17	GYRO	GYRODATA SERVICES CA...
2/13/2014	4,359.70	4.01	49.24	4,351.30	56.23	-51.67	121.61	0.78	GYRO	GYRODATA SERVICES CA...



Directional Survey

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Survey Data

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2/13/2014	4,454.20	3.52	45.67	4,445.59	52.23	-47.48	126.19	0.57	GYRO	GYRODATA SERVICES CA...
2/13/2014	4,548.70	3.04	47.52	4,539.94	48.66	-43.76	130.11	0.52	GYRO	GYRODATA SERVICES CA...
2/13/2014	4,643.20	3.51	54.06	4,634.28	45.43	-40.37	134.30	0.63	GYRO	GYRODATA SERVICES CA...
2/13/2014	4,737.60	4.26	59.98	4,728.47	42.18	-36.92	139.68	0.90	GYRO	GYRODATA SERVICES CA...
2/13/2014	4,832.10	3.20	53.80	4,822.76	39.07	-33.61	144.85	1.20	GYRO	GYRODATA SERVICES CA...
2/13/2014	4,926.60	3.91	69.56	4,917.08	36.58	-30.93	149.99	1.27	GYRO	GYRODATA SERVICES CA...
2/13/2014	5,021.10	4.24	78.42	5,011.35	35.00	-29.10	156.44	0.75	GYRO	GYRODATA SERVICES CA...
2/13/2014	5,115.60	4.58	91.67	5,105.57	34.68	-28.51	163.63	1.13	GYRO	GYRODATA SERVICES CA...
2/13/2014	5,210.00	3.42	100.30	5,199.74	35.54	-29.12	170.17	1.38	GYRO	GYRODATA SERVICES CA...
2/13/2014	5,241.50	3.14	101.71	5,231.19	35.95	-29.46	171.94	0.92	GYRO	GYRODATA SERVICES CA...
2/16/2014	5,423.00	3.60	108.10	5,412.37	39.12	-32.24	182.22	0.33	MWD	BAKER HUGHES INTEQ
2/16/2014	5,517.00	5.90	112.50	5,506.04	42.16	-35.01	189.49	2.48	MWD	BAKER HUGHES INTEQ
2/16/2014	5,611.00	7.30	115.70	5,599.42	46.97	-39.45	199.34	1.54	MWD	BAKER HUGHES INTEQ
2/16/2014	5,706.00	9.60	119.50	5,693.38	53.95	-45.97	211.67	2.49	MWD	BAKER HUGHES INTEQ
2/16/2014	5,800.00	11.00	128.20	5,785.87	63.87	-55.37	225.54	2.22	MWD	BAKER HUGHES INTEQ
2/16/2014	5,895.00	13.60	136.40	5,878.69	78.12	-69.07	240.37	3.29	MWD	BAKER HUGHES INTEQ
2/16/2014	5,989.00	15.60	143.80	5,969.66	96.89	-87.28	255.46	2.91	MWD	BAKER HUGHES INTEQ
2/16/2014	6,084.00	19.20	152.40	6,060.31	121.59	-111.44	270.25	4.65	MWD	BAKER HUGHES INTEQ
2/16/2014	6,178.00	22.30	161.30	6,148.22	152.66	-142.05	283.13	4.70	MWD	BAKER HUGHES INTEQ
2/16/2014	6,272.00	24.50	177.90	6,234.58	189.30	-178.46	289.57	7.37	MWD	BAKER HUGHES INTEQ
2/16/2014	6,367.00	24.40	187.90	6,321.10	228.33	-217.60	287.60	4.35	MWD	BAKER HUGHES INTEQ
2/16/2014	6,461.00	22.20	191.00	6,407.43	264.75	-254.27	281.54	2.68	MWD	BAKER HUGHES INTEQ
2/17/2014	6,556.00	21.20	198.30	6,495.72	298.32	-288.20	272.72	3.03	MWD	BAKER HUGHES INTEQ
2/17/2014	6,651.00	21.60	204.10	6,584.18	330.10	-320.48	260.18	2.27	MWD	BAKER HUGHES INTEQ
2/18/2014	6,745.00	19.90	203.60	6,672.07	360.02	-350.93	246.71	1.82	MWD	BAKER HUGHES INTEQ
2/18/2014	6,840.00	18.30	209.60	6,761.85	387.27	-378.72	232.87	2.66	MWD	BAKER HUGHES INTEQ
2/18/2014	6,934.00	16.70	215.70	6,851.50	410.48	-402.52	217.70	2.59	MWD	BAKER HUGHES INTEQ
2/18/2014	7,029.00	15.40	223.90	6,942.81	430.01	-422.70	200.98	2.75	MWD	BAKER HUGHES INTEQ
2/18/2014	7,123.00	14.50	230.40	7,033.64	445.82	-439.20	183.26	2.02	MWD	BAKER HUGHES INTEQ
2/18/2014	7,218.00	12.10	234.10	7,126.08	458.58	-452.62	166.03	2.68	MWD	BAKER HUGHES INTEQ
2/18/2014	7,352.00	8.70	234.90	7,257.86	471.89	-466.68	146.35	2.54	MWD	BAKER HUGHES INTEQ
2/18/2014	7,446.00	7.30	232.30	7,350.94	479.23	-474.42	135.81	1.54	MWD	BAKER HUGHES INTEQ
2/18/2014	7,541.00	4.90	240.10	7,445.40	484.62	-480.14	127.52	2.67	MWD	BAKER HUGHES INTEQ
2/18/2014	7,636.00	1.60	260.30	7,540.24	486.69	-482.39	122.69	3.62	MWD	BAKER HUGHES INTEQ
2/18/2014	7,731.00	1.90	10.50	7,635.21	485.32	-481.06	121.67	3.03	MWD	BAKER HUGHES INTEQ
2/18/2014	7,825.00	0.80	62.00	7,729.19	483.52	-479.22	122.53	1.63	MWD	BAKER HUGHES INTEQ
2/18/2014	7,919.00	0.80	104.60	7,823.18	483.42	-479.08	123.75	0.62	MWD	BAKER HUGHES INTEQ
2/18/2014	8,014.00	0.70	126.70	7,918.17	483.98	-479.59	124.86	0.32	MWD	BAKER HUGHES INTEQ
2/18/2014	8,108.00	0.80	149.00	8,012.16	484.91	-480.50	125.65	0.33	MWD	BAKER HUGHES INTEQ
2/18/2014	8,203.00	0.70	154.70	8,107.16	486.03	-481.59	126.24	0.13	MWD	BAKER HUGHES INTEQ
2/18/2014	8,298.00	0.60	161.50	8,202.15	487.04	-482.59	126.65	0.13	MWD	BAKER HUGHES INTEQ
2/18/2014	8,392.00	0.80	176.40	8,296.14	488.16	-483.71	126.85	0.29	MWD	BAKER HUGHES INTEQ
2/18/2014	8,486.00	0.90	173.80	8,390.13	489.56	-485.10	126.97	0.11	MWD	BAKER HUGHES INTEQ
2/18/2014	8,581.00	0.40	29.30	8,485.13	490.02	-485.55	127.21	1.31	MWD	BAKER HUGHES INTEQ
2/18/2014	8,676.00	0.50	359.90	8,580.13	489.32	-484.85	127.37	0.26	MWD	BAKER HUGHES INTEQ
2/18/2014	8,770.00	0.40	19.20	8,674.12	488.61	-484.13	127.48	0.19	MWD	BAKER HUGHES INTEQ
2/18/2014	8,865.00	0.20	27.40	8,769.12	488.15	-483.67	127.67	0.21	MWD	BAKER HUGHES INTEQ
2/18/2014	8,960.00	0.50	51.40	8,864.12	487.76	-483.26	128.07	0.34	MWD	BAKER HUGHES INTEQ
2/24/2014	8,969.00	0.25	46.54	8,873.12	487.73	-483.22	128.11	2.80	GYRO	GYRODATA SERVICES CA...
2/24/2014	9,063.00	0.34	72.03	8,967.12	487.51	-482.99	128.52	0.17	GYRO	GYRODATA SERVICES CA...
2/24/2014	9,158.00	0.38	83.39	9,062.12	487.41	-482.87	129.11	0.09	GYRO	GYRODATA SERVICES CA...
2/24/2014	9,252.00	0.41	92.59	9,156.12	487.42	-482.85	129.75	0.07	GYRO	GYRODATA SERVICES CA...
2/24/2014	9,347.00	0.25	103.90	9,251.11	487.50	-482.92	130.29	0.18	GYRO	GYRODATA SERVICES CA...
2/24/2014	9,441.00	0.22	124.17	9,345.11	487.67	-483.07	130.64	0.09	GYRO	GYRODATA SERVICES CA...
2/24/2014	9,504.00	0.37	92.63	9,408.11	487.76	-483.14	130.94	0.34	GYRO	GYRODATA SERVICES CA...



Directional Survey

District	County	Field Name	Project Group	State/Province			
PERMIAN BASIN	LEA	RATTLESNAKE (NM)	DELAWARE BASIN	NM			
Surface Legal Location	API/UWI	Latitude (°)	Longitude (°)	Ground Elev...	KB - GL (ft)	Orig KB Elev (ft)	Tubing Head Elevation (ft)
SEC22 T26S R34E	3002541433	32° 1' 18.99" N	103° 27' 2.87" W	3,215.50	25.00	3,240.50	

Survey Data

Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	N/S (ft)	E/W (ft)	DLS (°/100ft)	Survey Tool	Survey Company
2/24/2014	9,562.00	0.04	92.63	9,466.11	487.77	-483.15	131.15	0.57	GYRO	GYRODATA SERVICES CA...
2/24/2014	9,580.00	0.04	92.63	9,484.11	487.77	-483.15	131.16	0.02	BIT	GYRODATA SERVICES CA...