

HOBBS OCD
MAR 04 2019
RECEIVED

Devon Energy

Lea County, NM (NAD 83)

Gaucha 21 Fed

7H

OH

HOBBS OCD
FEB 26 2019
RECEIVED

Design: OH

Standard Survey Report

05 November, 2018

Survey Report

Company:	Devon Energy	Local Co-ordinate Reference:	Well 7H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GL 3428.1 + 30' KB @ 3458.0usft (H&P 540)
Site:	Gaucha 21 Fed	MD Reference:	GL 3428.1 + 30' KB @ 3458.0usft (H&P 540)
Well:	7H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.14 Single User Db

Project	Lea County, NM (NAD 83)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site	Gaucha 21 Fed		
Site Position:		Northing:	499,717.68 usft
From:	Map	Easting:	808,432.48 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 22' 14.972 N
		Longitude:	103° 28' 5.583 W
		Grid Convergence:	0.46 °

Well	7H		
Well Position	+N/-S	0.0 usft	Northing: 499,717.68 usft
	+E/-W	0.0 usft	Easting: 808,432.48 usft
Position Uncertainty	0.0 usft	Wellhead Elevation:	usft
		Latitude:	32° 22' 14.972 N
		Longitude:	103° 28' 5.583 W
		Ground Level:	3,428.0 usft

Wellbore	OH		
Magnetics	Model Name	Sample Date	Declination
			(°)
	IGRF2015	9/4/2018	6.78
			Dip Angle
			(°)
			60.20
			Field Strength
			(nT)
			47,910.68135839

Design	OH		
Audit Notes:			
Version:	1.0	Phase:	ACTUAL
		Tie On Depth:	0.0
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W
	(usft)	(usft)	(usft)
	0.0	0.0	0.0
			Direction
			(°)
			359.70

Survey Program	Date 10/30/2018		
From	To	Survey (Wellbore)	Tool Name
(usft)	(usft)		
176.0	15,529.0 #1 Legacy MWD (OH)		MWD
			Description
			OWSG MWD - Standard

Survey										
Measured	Inclination	Azimuth	Vertical	+N/-S	+E/-W	Vertical	Dogleg	Build	Turn	
Depth	(°)	(°)	Depth	(usft)	(usft)	Section	Rate	Rate	Rate	
(usft)			(usft)			(usft)	(°/100usft)	(°/100usft)	(°/100usft)	
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00	
176.0	0.28	264.35	176.0	0.0	-0.4	0.0	0.16	0.16	0.00	
271.0	0.39	280.59	271.0	0.0	-1.0	0.0	0.15	0.12	17.09	
361.0	0.42	300.82	361.0	0.2	-1.6	0.2	0.16	0.03	22.48	
452.0	0.20	311.02	452.0	0.5	-2.0	0.5	0.25	-0.24	11.21	
542.0	0.17	281.53	542.0	0.6	-2.2	0.6	0.11	-0.03	-32.77	
632.0	0.21	268.85	632.0	0.6	-2.5	0.7	0.06	0.04	-14.09	
722.0	0.28	253.58	722.0	0.6	-2.9	0.6	0.11	0.08	-16.97	
812.0	0.24	276.82	812.0	0.5	-3.3	0.6	0.12	-0.04	25.82	
901.0	0.15	246.55	901.0	0.5	-3.6	0.5	0.15	-0.10	-34.01	

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Well:	7H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.14 Single User Db

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
992.0	0.18	289.23	992.0	0.5	-3.8	0.5	0.14	0.03	46.90	
1,083.0	0.14	280.72	1,083.0	0.6	-4.1	0.6	0.05	-0.04	-9.35	
1,175.0	0.09	128.74	1,175.0	0.6	-4.1	0.6	0.24	-0.05	-165.20	
1,267.0	0.13	303.09	1,267.0	0.6	-4.2	0.6	0.24	0.04	189.51	
1,357.0	0.26	254.90	1,357.0	0.6	-4.4	0.6	0.22	0.14	-53.54	
1,449.0	0.32	255.30	1,449.0	0.5	-4.9	0.5	0.07	0.07	0.43	
1,540.0	0.52	252.70	1,540.0	0.3	-5.5	0.3	0.22	0.22	-2.86	
1,634.0	0.51	249.51	1,634.0	0.0	-6.3	0.0	0.03	-0.01	-3.39	
1,665.0	0.57	243.03	1,665.0	-0.1	-6.6	-0.1	0.28	0.19	-20.90	
1,820.0	0.48	262.23	1,820.0	-0.6	-7.9	-0.5	0.13	-0.06	12.39	
1,914.0	1.14	274.13	1,914.0	-0.5	-9.2	-0.5	0.72	0.70	12.66	
2,008.0	1.77	269.24	2,007.9	-0.5	-11.6	-0.4	0.68	0.67	-5.20	
2,103.0	2.40	258.47	2,102.9	-0.9	-15.0	-0.8	0.78	0.66	-11.34	
2,197.0	3.10	252.58	2,196.8	-2.1	-19.4	-2.0	0.80	0.74	-6.27	
2,291.0	3.77	255.69	2,290.6	-3.6	-24.8	-3.5	0.74	0.71	3.31	
2,385.0	4.35	256.53	2,384.4	-5.2	-31.3	-5.0	0.62	0.62	0.89	
2,479.0	4.91	254.00	2,478.0	-7.1	-38.6	-6.9	0.63	0.60	-2.69	
2,574.0	4.70	252.96	2,572.7	-9.4	-46.2	-9.1	0.24	-0.22	-1.09	
2,668.0	4.39	253.13	2,666.4	-11.6	-53.4	-11.3	0.33	-0.33	0.18	
2,762.0	3.87	253.77	2,760.2	-13.5	-59.9	-13.2	0.56	-0.55	0.68	
2,856.0	3.74	251.71	2,854.0	-15.3	-65.8	-15.0	0.20	-0.14	-2.19	
2,951.0	3.84	251.59	2,948.8	-17.3	-71.8	-16.9	0.11	0.11	-0.13	
3,045.0	4.25	255.07	3,042.5	-19.2	-78.1	-18.8	0.51	0.44	3.70	
3,139.0	4.61	257.35	3,136.2	-20.9	-85.2	-20.5	0.43	0.38	2.43	
3,233.0	4.18	259.31	3,230.0	-22.4	-92.2	-21.9	0.48	-0.46	2.09	
3,328.0	3.59	261.09	3,324.8	-23.5	-98.6	-23.0	0.63	-0.62	1.87	
3,422.0	2.91	261.76	3,418.6	-24.3	-103.8	-23.8	0.72	-0.72	0.71	
3,516.0	2.18	252.05	3,512.5	-25.2	-107.9	-24.6	0.90	-0.78	-10.33	
3,611.0	1.57	242.46	3,607.5	-26.3	-110.8	-25.8	0.72	-0.64	-10.09	
3,705.0	1.04	237.59	3,701.4	-27.4	-112.6	-26.8	0.58	-0.56	-5.18	
3,799.0	0.28	213.48	3,795.4	-28.1	-113.5	-27.5	0.84	-0.81	-25.65	
3,893.0	0.26	202.46	3,889.4	-28.4	-113.7	-27.8	0.06	-0.02	-11.72	
4,081.0	0.42	229.45	4,077.4	-29.3	-114.4	-28.7	0.12	0.09	14.36	
4,175.0	0.24	220.19	4,171.4	-29.7	-114.8	-29.1	0.20	-0.19	-9.85	
4,270.0	0.29	205.73	4,266.4	-30.0	-115.0	-29.4	0.09	0.05	-15.22	
4,364.0	0.22	257.76	4,360.4	-30.3	-115.3	-29.7	0.25	-0.07	55.35	
4,459.0	0.26	136.79	4,455.4	-30.5	-115.3	-29.9	0.44	0.04	-127.34	
4,553.0	0.34	118.58	4,549.4	-30.8	-114.9	-30.2	0.13	0.09	-19.37	
4,647.0	0.34	119.95	4,643.4	-31.0	-114.4	-30.4	0.01	0.00	1.46	
4,741.0	0.25	132.20	4,737.4	-31.3	-114.0	-30.7	0.12	-0.10	13.03	
4,835.0	0.40	110.11	4,831.4	-31.6	-113.6	-31.0	0.21	0.16	-23.50	
4,930.0	0.58	123.07	4,926.4	-31.9	-112.9	-31.3	0.22	0.19	13.64	
5,023.0	0.39	128.13	5,019.4	-32.4	-112.2	-31.8	0.21	-0.20	5.44	
5,076.0	0.32	102.49	5,072.4	-32.5	-111.9	-31.9	0.32	-0.13	-48.38	

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Well:	7H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.14 Single User Db

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
5,177.0	0.06	114.48	5,173.4	-32.6	-111.6	-32.0	0.26	-0.26	11.87
5,272.0	1.13	261.84	5,268.4	-32.8	-112.5	-32.2	1.24	1.13	155.12
5,366.0	2.89	263.59	5,362.3	-33.2	-115.8	-32.6	1.87	1.87	1.86
5,460.0	4.85	262.46	5,456.1	-34.0	-122.1	-33.3	2.09	2.09	-1.20
5,554.0	5.87	258.16	5,549.7	-35.5	-130.7	-34.8	1.17	1.09	-4.57
5,648.0	6.61	254.39	5,643.1	-37.9	-140.6	-37.2	0.90	0.79	-4.01
5,743.0	7.55	254.91	5,737.4	-41.0	-151.9	-40.2	0.99	0.99	0.55
5,837.0	8.99	256.01	5,830.4	-44.4	-165.0	-43.5	1.54	1.53	1.17
5,931.0	9.44	256.27	5,923.2	-48.0	-179.6	-47.0	0.48	0.48	0.28
6,025.0	9.42	256.20	6,016.0	-51.7	-194.6	-50.6	0.02	-0.02	-0.07
6,119.0	9.98	256.31	6,108.6	-55.4	-210.0	-54.3	0.60	0.60	0.12
6,213.0	10.57	256.53	6,201.1	-59.3	-226.3	-58.2	0.63	0.63	0.23
6,307.0	11.03	257.07	6,293.4	-63.4	-243.4	-62.1	0.50	0.49	0.57
6,402.0	11.30	251.16	6,386.6	-68.4	-261.1	-67.0	1.24	0.28	-6.22
6,496.0	10.68	251.42	6,478.9	-74.2	-278.0	-72.7	0.66	-0.66	0.28
6,590.0	10.21	251.02	6,571.4	-79.6	-294.2	-78.1	0.51	-0.50	-0.43
6,685.0	10.65	254.71	6,664.8	-84.7	-310.6	-83.1	0.84	0.46	3.88
6,779.0	10.36	255.47	6,757.2	-89.1	-327.2	-87.4	0.34	-0.31	0.81
6,873.0	11.52	255.35	6,849.5	-93.6	-344.4	-91.8	1.23	1.23	-0.13
6,967.0	11.89	255.44	6,941.6	-98.4	-362.9	-96.5	0.39	0.39	0.10
7,062.0	11.47	253.88	7,034.6	-103.5	-381.4	-101.5	0.55	-0.44	-1.64
7,156.0	10.86	252.83	7,126.8	-108.7	-398.9	-106.6	0.68	-0.65	-1.12
7,250.0	10.85	254.77	7,219.1	-113.6	-415.9	-111.5	0.39	-0.01	2.06
7,345.0	11.10	255.23	7,312.4	-118.3	-433.3	-116.1	0.28	0.26	0.48
7,439.0	11.04	254.63	7,404.6	-123.0	-450.8	-120.7	0.14	-0.06	-0.64
7,533.0	10.81	255.02	7,496.9	-127.7	-468.0	-125.2	0.26	-0.24	0.41
7,628.0	11.53	256.17	7,590.1	-132.3	-485.8	-129.7	0.79	0.76	1.21
7,722.0	10.89	256.00	7,682.3	-136.6	-503.5	-134.0	0.68	-0.68	-0.18
7,816.0	10.63	256.91	7,774.7	-140.8	-520.6	-138.0	0.33	-0.28	0.97
7,910.0	9.47	256.62	7,867.2	-144.5	-536.6	-141.7	1.24	-1.23	-0.31
8,005.0	9.73	255.42	7,960.9	-148.3	-551.9	-145.4	0.35	0.27	-1.26
8,099.0	10.29	254.31	8,053.5	-152.6	-567.7	-149.6	0.63	0.60	-1.18
8,193.0	11.66	252.62	8,145.8	-157.7	-584.8	-154.7	1.50	1.46	-1.80
8,287.0	11.76	253.04	8,237.8	-163.3	-603.1	-160.2	0.14	0.11	0.45
8,381.0	12.20	256.70	8,329.8	-168.4	-621.9	-165.2	0.93	0.47	3.89
8,476.0	11.07	256.42	8,422.8	-172.9	-640.5	-169.5	1.19	-1.19	-0.29
8,570.0	11.32	255.59	8,515.0	-177.3	-658.2	-173.8	0.32	0.27	-0.88
8,664.0	11.39	254.37	8,607.2	-182.1	-676.1	-178.5	0.27	0.07	-1.30
8,758.0	11.06	257.42	8,699.4	-186.6	-693.9	-182.9	0.72	-0.35	3.24
8,853.0	11.55	254.86	8,792.5	-191.0	-711.9	-187.3	0.74	0.52	-2.69
8,947.0	12.22	255.07	8,884.5	-196.0	-730.6	-192.2	0.71	0.71	0.22
9,041.0	12.98	249.36	8,976.3	-202.3	-750.1	-198.4	1.55	0.81	-6.07
9,136.0	12.00	247.99	9,069.0	-209.8	-769.3	-205.8	1.08	-1.03	-1.44

Survey Report

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Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.14 Single User Db

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9,230.0	11.35	250.95	9,161.1	-216.5	-787.1	-212.3	0.94	-0.69	3.15
9,324.0	10.91	254.80	9,253.3	-221.8	-804.4	-217.6	0.92	-0.47	4.10
9,418.0	11.60	255.30	9,345.5	-226.6	-822.1	-222.2	0.74	0.73	0.53
9,513.0	11.77	256.53	9,438.5	-231.2	-840.8	-226.8	0.32	0.18	1.29
9,607.0	12.23	258.92	9,530.5	-235.4	-859.9	-230.9	0.72	0.49	2.54
9,701.0	13.40	256.66	9,622.1	-239.8	-880.2	-235.2	1.35	1.24	-2.40
9,795.0	12.15	256.13	9,713.8	-244.7	-900.4	-240.0	1.34	-1.33	-0.56
9,889.0	11.47	252.44	9,805.8	-249.9	-919.0	-245.1	1.08	-0.72	-3.93
9,913.0	11.03	251.95	9,829.3	-251.3	-923.4	-246.5	1.88	-1.83	-2.04
9,974.0	10.10	254.86	9,889.3	-254.5	-934.1	-249.6	1.76	-1.52	4.77
KOP 9974'MD / 9889.3' TVD									
10,012.0	11.52	264.92	9,926.6	-255.7	-941.1	-250.8	6.20	3.74	26.47
10,059.0	15.06	279.73	9,972.4	-255.1	-951.8	-250.1	10.39	7.53	31.51
10,106.0	17.92	291.49	10,017.5	-251.4	-964.6	-246.4	9.32	6.09	25.02
10,153.0	20.46	307.34	10,061.9	-243.8	-977.8	-238.7	12.28	5.40	33.72
10,200.0	22.97	319.66	10,105.6	-231.8	-990.3	-226.6	11.04	5.34	26.21
10,247.0	26.23	330.43	10,148.3	-215.8	-1,001.4	-210.5	11.77	6.94	22.91
10,295.0	30.05	334.35	10,190.6	-195.7	-1,011.8	-190.4	8.84	7.96	8.17
10,342.0	35.25	337.73	10,230.2	-172.5	-1,022.1	-167.2	11.72	11.06	7.19
10,348.0	36.64	339.03	10,235.1	-169.3	-1,023.4	-163.9	26.43	23.17	21.67
10,401.0	42.54	341.40	10,275.9	-137.5	-1,034.8	-132.1	11.49	11.13	4.47
10,448.0	49.59	343.80	10,308.5	-105.2	-1,044.8	-99.7	15.44	15.00	5.11
10,495.0	57.53	344.96	10,336.4	-68.8	-1,055.0	-63.3	17.01	16.89	2.47
10,543.0	65.72	345.38	10,359.2	-28.0	-1,065.8	-22.4	17.08	17.06	0.88
10,566.3	69.82	346.37	10,368.0	-7.1	-1,071.0	-1.5	18.02	17.58	4.26
330' FSL 10566.3'MD / 10368.0'TVD									
10,590.0	73.99	347.33	10,375.3	14.8	-1,076.2	20.5	18.02	17.61	4.04
10,637.0	80.80	351.36	10,385.6	59.9	-1,084.6	65.6	16.73	14.49	8.57
10,674.0	85.68	354.90	10,389.9	96.3	-1,089.0	102.0	16.25	13.19	9.57
10,765.0	90.08	359.41	10,393.3	187.1	-1,093.5	192.8	6.92	4.84	4.96
10,859.0	90.00	0.46	10,393.2	281.1	-1,093.6	286.8	1.12	-0.09	1.12
10,953.0	88.21	0.78	10,394.7	375.1	-1,092.6	380.8	1.93	-1.90	0.34
11,047.0	90.06	1.08	10,396.1	469.1	-1,091.1	474.8	1.99	1.97	0.32
11,142.0	90.31	1.48	10,395.8	564.0	-1,089.0	569.7	0.50	0.26	0.42
11,236.0	89.86	1.59	10,395.7	658.0	-1,086.4	663.7	0.49	-0.48	0.12
11,330.0	90.36	1.91	10,395.5	752.0	-1,083.6	757.6	0.63	0.53	0.34
11,425.0	90.50	2.29	10,394.8	846.9	-1,080.1	852.5	0.43	0.15	0.40
11,519.0	91.88	2.76	10,392.8	940.8	-1,075.9	946.4	1.55	1.47	0.50
11,613.0	88.96	0.61	10,392.2	1,034.7	-1,073.2	1,040.3	3.86	-3.11	-2.29
11,707.0	88.15	0.31	10,394.5	1,128.7	-1,072.4	1,134.3	0.92	-0.86	-0.32
11,801.0	89.52	1.52	10,396.4	1,222.7	-1,070.9	1,228.3	1.94	1.46	1.29
11,896.0	89.27	1.58	10,397.4	1,317.6	-1,068.4	1,323.2	0.27	-0.26	0.06
11,990.0	89.92	1.80	10,398.1	1,411.6	-1,065.6	1,417.1	0.73	0.69	0.23
12,084.0	90.90	2.45	10,397.4	1,505.5	-1,062.1	1,511.0	1.25	1.04	0.69

Survey Report

Company:	Devon Energy	Local Co-ordinate Reference:	Well 7H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GL 3428.1 + 30' KB @ 3458.0usft (H&P 540)
Site:	Gaucha 21 Fed	MD Reference:	GL 3428.1 + 30' KB @ 3458.0usft (H&P 540)
Well:	7H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.14 Single User Db

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
12,178.0	90.34	2.75	10,396.4	1,599.4	-1,057.8	1,604.9	0.68	-0.60	0.32
12,273.0	89.69	2.72	10,396.4	1,694.3	-1,053.3	1,699.8	0.68	-0.68	-0.03
12,367.0	90.73	2.92	10,396.0	1,788.2	-1,048.7	1,793.6	1.13	1.11	0.21
12,461.0	92.07	1.19	10,393.7	1,882.1	-1,045.3	1,887.5	2.33	1.43	-1.84
12,555.0	90.98	359.21	10,391.2	1,976.0	-1,045.0	1,981.5	2.40	-1.16	-2.11
12,650.0	90.92	359.18	10,389.7	2,071.0	-1,046.3	2,076.5	0.07	-0.06	-0.03
12,744.0	89.86	358.94	10,389.0	2,165.0	-1,047.9	2,170.5	1.16	-1.13	-0.26
12,838.0	89.02	358.87	10,389.9	2,259.0	-1,049.7	2,264.5	0.90	-0.89	-0.07
12,932.0	89.41	359.45	10,391.2	2,353.0	-1,051.0	2,358.4	0.74	0.41	0.62
13,026.0	91.23	359.99	10,390.7	2,447.0	-1,051.5	2,452.4	2.02	1.94	0.57
13,121.0	90.59	359.87	10,389.2	2,541.9	-1,051.6	2,547.4	0.69	-0.67	-0.13
13,215.0	90.03	359.63	10,388.7	2,635.9	-1,052.0	2,641.4	0.65	-0.60	-0.26
13,309.0	90.00	359.69	10,388.7	2,729.9	-1,052.6	2,735.4	0.07	-0.03	0.06
13,404.0	90.22	0.21	10,388.5	2,824.9	-1,052.7	2,830.4	0.59	0.23	0.55
13,498.0	89.97	0.13	10,388.3	2,918.9	-1,052.4	2,924.4	0.28	-0.27	-0.09
13,592.0	89.50	359.97	10,388.8	3,012.9	-1,052.3	3,018.4	0.53	-0.50	-0.17
13,686.0	90.92	359.91	10,388.4	3,106.9	-1,052.4	3,112.4	1.51	1.51	-0.06
13,780.0	90.34	359.89	10,387.4	3,200.9	-1,052.6	3,206.4	0.62	-0.62	-0.02
13,874.0	90.45	0.10	10,386.7	3,294.9	-1,052.6	3,300.4	0.25	0.12	0.22
13,968.0	90.56	0.74	10,385.9	3,388.9	-1,051.9	3,394.4	0.69	0.12	0.68
14,063.0	90.25	0.97	10,385.2	3,483.9	-1,050.5	3,489.4	0.41	-0.33	0.24
14,157.0	89.52	0.87	10,385.4	3,577.9	-1,048.9	3,583.3	0.78	-0.78	-0.11
14,251.0	90.34	359.51	10,385.5	3,671.9	-1,048.6	3,677.3	1.69	0.87	-1.45
14,345.0	90.06	359.16	10,385.2	3,765.9	-1,049.7	3,771.3	0.48	-0.30	-0.37
14,439.0	91.43	358.87	10,384.0	3,859.9	-1,051.3	3,865.3	1.49	1.46	-0.31
14,533.0	91.06	358.49	10,382.0	3,953.8	-1,053.5	3,959.3	0.56	-0.39	-0.40
14,627.0	91.26	358.35	10,380.0	4,047.8	-1,056.1	4,053.2	0.26	0.21	-0.15
14,722.0	90.98	358.27	10,378.2	4,142.7	-1,058.9	4,148.2	0.31	-0.29	-0.08
14,816.0	90.64	358.03	10,376.9	4,236.6	-1,061.9	4,242.1	0.44	-0.36	-0.26
14,910.0	90.08	357.87	10,376.3	4,330.6	-1,065.3	4,336.1	0.62	-0.60	-0.17
15,005.0	89.75	357.63	10,376.4	4,425.5	-1,069.0	4,431.0	0.43	-0.35	-0.25
15,099.0	89.41	357.82	10,377.1	4,519.4	-1,072.8	4,525.0	0.41	-0.36	0.20
15,193.0	89.44	359.27	10,378.0	4,613.4	-1,075.1	4,619.0	1.54	0.03	1.54
15,288.0	89.75	0.06	10,378.7	4,708.4	-1,075.7	4,714.0	0.89	0.33	0.83
15,382.0	89.64	0.27	10,379.2	4,802.4	-1,075.4	4,807.9	0.25	-0.12	0.22
15,429.0	89.12	359.96	10,379.7	4,849.4	-1,075.3	4,854.9	1.30	-1.12	-0.66
100' FNL 15429'MD / 10379.7'TVD									
15,468.0	88.68	359.70	10,380.5	4,888.4	-1,075.5	4,893.9	1.30	-1.12	-0.66
Last Survey 15468'MD / 10380.5'TVD									
15,529.0	88.68	359.70	10,381.9	4,949.4	-1,075.8	4,954.9	0.00	0.00	0.00
PTB 15529'MD / 10381.9'TVD									

Survey Report

Company: Devon Energy Project: Lea County, NM (NAD 83) Site: Gaucha 21 Fed Well: 7H Wellbore: OH Design: OH	Local Co-ordinate Reference: Well 7H TVD Reference: GL 3428.1 + 30' KB @ 3458.0usft (H&P 540) MD Reference: GL 3428.1 + 30' KB @ 3458.0usft (H&P 540) North Reference: Grid Survey Calculation Method: Minimum Curvature Database: EDM 5000.14 Single User Db
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Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
9,974.0	9,889.3	-254.5	-934.1	KOP 9974'MD / 9889.3'TVD
10,566.3	10,368.0	-7.1	-1,071.0	330' FSL 10566.3'MD / 10368.0'TVD
15,429.0	10,379.7	4,849.4	-1,075.3	100' FNL 15429'MD / 10379.7'TVD
15,468.0	10,380.5	4,888.4	-1,075.5	Last Survey 15468'MD / 10380.5'TVD
15,529.0	10,381.9	4,949.4	-1,075.8	PTB 15529'MD / 10381.9'TVD

Checked By: _____	Approved By: _____	Date: _____
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