



Santo Petroleum
Lea County, NM (NAD 83 - NME
Ocotillo Sunrise
#401H
OH

Design: OH

End Of Well Report

04 May, 2020



Wellbenders

End Of Well Report

Company: Santo Petroleum Lea County, NM (NAD 83 - NME) Project: Lea County, NM (NAD 83 - NME) Site: Ocotillo Sunrise Well: #401H Wellbore: OH Design: OH	Local Co-ordinate Reference: Well #401H RKB=25' @ 3359.00usft (ICD 228) RKB=25' @ 3359.00usft (ICD 228) Grid Minimum Curvature WBDS_SQL_2
Project Lea County, NM (NAD 83 - NME)	
Map System: US State Plane 1983 Geo Datum: North American Datum 1983 Map Zone: New Mexico Eastern Zone	System Datum: Mean Sea Level
Site Ocotillo Sunrise	
Site Position: From: Map Position Uncertainty: 0.00 usft	Northing: 415,710.90 usft Easting: 814,059.70 usft Slot Radius: 13.200 in Latitude: 32.139801 Longitude: -103.452226 Grid Convergence: 0.469 °
Well #401H	
Well Position +N/-S 0.00 usft +E/-W 0.00 usft 0.00 usft	Latitude: 32.139801 Longitude: -103.452226 Ground Level: 3,334.00 usft
Wellbore OH	
Magnetics Model Name Sample Date IGRF2015 4/18/2020	Dip Angle (°) 59.966 Field Strength (nT) 47,609.58191623
Design OH	
Audit Notes: Version: 1.0 Phase: ACTUAL Tie On Depth: 0.00	
Vertical Section: Depth From (TVD) (usft) 0.00	+N/-S (usft) 0.00 +E/-W (usft) 0.00 Direction (°) 179.53
Survey Program From (usft) To (usft) Survey (Wellbore) 140.00 17,785.00 Survey #1 (OH)	Tool Name MWD+IGRF Description OWSG MWD + IGRF or WMM



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Project:	Lea County, NM (NAD 83 - NIME	TVD Reference:	RKB=25' @ 3359.00ust (ICD 228)
Site:	Ocotillo Sunrise	MD Reference:	RKB=25' @ 3359.00ust (ICD 228)
Well:	#401H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	WBDS_SQL_2

Survey									
MD (ustft)	Inc (°)	Azi (azimuth) (°)	TVD (ustft)	N/S (ustft)	E/W (ustft)	V. Sec (ustft)	CL (ustft)	CL Azi (°)	DLeg (°/100ft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
140.00	0.70	86.84	140.00	0.05	0.85	-0.04	140.00	86.84	0.50
231.00	0.62	109.08	230.99	-0.08	1.87	0.10	91.00	97.28	0.29
343.00	0.70	116.18	342.98	-0.58	3.06	0.61	112.00	112.85	0.10
432.00	1.01	119.35	431.97	-1.21	4.23	1.24	89.00	118.05	0.35
522.00	0.88	109.33	521.96	-1.82	5.58	1.87	90.00	114.69	0.23
614.00	0.79	119.17	613.95	-2.37	6.80	2.42	92.00	113.98	0.18
705.00	1.01	113.11	704.94	-2.99	8.08	3.05	91.00	115.77	0.26
795.00	0.70	111.26	794.93	-3.50	9.32	3.58	90.00	112.35	0.35
1,000.00	1.10	114.42	999.90	-4.77	12.28	4.87	205.00	113.19	0.20
1,152.00	0.40	103.44	1,151.89	-5.49	14.13	5.61	152.00	111.50	0.47
1,246.00	2.20	250.92	1,245.87	-6.16	12.74	6.26	94.00	244.33	2.71
1,340.00	4.40	253.73	1,339.71	-7.76	7.57	7.82	94.00	252.79	2.35
1,434.00	7.69	262.08	1,433.17	-9.64	-2.12	9.62	94.00	259.04	3.61
1,529.00	9.10	265.24	1,527.15	-11.14	-15.90	11.01	95.00	263.79	1.56
1,622.00	9.19	264.45	1,618.97	-12.46	-30.62	12.21	93.00	264.84	0.17
1,716.00	9.41	264.72	1,711.74	-13.90	-45.75	13.52	94.00	264.59	0.24
1,810.00	9.49	264.45	1,804.46	-15.35	-61.11	14.85	94.00	264.58	0.10
1,904.00	9.71	263.75	1,897.15	-16.97	-76.70	16.34	94.00	264.10	0.26
1,998.00	9.89	262.08	1,989.77	-18.94	-92.58	18.18	94.00	262.91	0.36
2,092.00	9.89	262.78	2,082.38	-21.07	-108.58	20.18	94.00	262.43	0.13
2,186.00	10.02	262.78	2,174.96	-23.11	-124.70	22.09	94.00	262.78	0.14
2,280.00	10.20	261.46	2,267.50	-25.38	-141.05	24.22	94.00	262.11	0.31
2,374.00	10.11	261.90	2,360.03	-27.77	-157.45	26.48	94.00	261.68	0.13
2,469.00	10.51	262.43	2,453.50	-30.09	-174.29	28.66	95.00	262.17	0.43
2,657.00	10.51	263.84	2,638.34	-34.19	-208.33	32.48	188.00	263.13	0.14
2,750.00	10.29	263.57	2,729.81	-36.03	-225.02	34.18	93.00	263.71	0.24



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Project:		Lea County, NM (NAD 83 - NME		TVD Reference:					RKB=25' @ 3359.00ustf (ICD 228)		
Site:		Ocotillo Sunrise		MD Reference:					RKB=25' @ 3359.00ustf (ICD 228)		
Well:		#401H		North Reference:					Grid		
Wellbore:		OH		Survey Calculation Method:					Minimum Curvature		
Design:		OH		Database:					WBDS_SQL_2		
Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	CL (usft)	CL Azi (°)	DLeg (°/100ft)		
2,845.00	9.49	263.48	2,823.40	-37.87	-241.23	35.89	95.00	263.53	0.84		
2,939.00	8.79	263.05	2,916.21	-39.62	-256.06	37.52	94.00	263.27	0.75		
3,033.00	8.62	262.34	3,009.12	-41.43	-270.17	39.21	94.00	262.70	0.21		
3,127.00	7.78	262.08	3,102.16	-43.24	-283.46	40.91	94.00	262.22	0.89		
3,221.00	7.91	257.86	3,195.28	-45.48	-296.08	43.05	94.00	259.95	0.63		
3,315.00	8.00	257.16	3,288.38	-48.29	-308.78	45.76	94.00	257.51	0.14		
3,409.00	7.38	259.71	3,381.53	-50.82	-321.10	48.19	94.00	258.38	0.75		
3,503.00	7.69	255.93	3,474.72	-53.43	-333.14	50.70	94.00	257.78	0.62		
3,597.00	9.10	249.07	3,567.71	-57.62	-346.19	54.77	94.00	252.21	1.84		
3,691.00	8.70	246.96	3,660.58	-63.05	-359.67	60.10	94.00	248.04	0.55		
3,785.00	7.78	244.68	3,753.61	-68.56	-371.97	65.50	94.00	245.88	1.04		
3,879.00	8.00	253.82	3,846.73	-73.10	-384.00	69.95	94.00	249.31	1.35		
3,974.00	9.49	259.18	3,940.62	-76.41	-398.04	73.15	95.00	256.73	1.79		
4,067.00	10.29	259.18	4,032.24	-79.41	-413.73	76.02	93.00	259.18	0.86		
4,161.00	10.42	261.02	4,124.71	-82.32	-430.37	78.78	94.00	260.11	0.38		
4,256.00	9.19	262.52	4,218.32	-84.64	-446.38	80.98	95.00	261.72	1.32		
4,350.00	7.91	261.11	4,311.27	-86.62	-460.22	82.84	94.00	261.87	1.38		
4,444.00	7.12	261.64	4,404.46	-88.47	-472.37	84.59	94.00	261.36	0.84		
4,538.00	7.21	259.18	4,497.73	-90.42	-483.93	86.45	94.00	260.40	0.34		
4,632.00	8.00	251.18	4,590.90	-93.64	-495.91	89.57	94.00	254.97	1.40		
4,726.00	7.38	246.70	4,684.06	-98.14	-507.65	93.97	94.00	249.03	0.92		
4,820.00	7.69	246.17	4,777.25	-103.07	-518.95	98.81	94.00	246.43	0.34		
4,915.00	8.79	251.62	4,871.27	-107.92	-531.65	103.56	95.00	249.08	1.42		
5,008.00	7.60	246.26	4,963.32	-112.64	-544.02	108.17	93.00	249.13	1.52		
5,103.00	7.78	246.61	5,057.46	-117.72	-555.68	113.16	95.00	246.44	0.20		
5,197.00	8.22	250.04	5,150.55	-122.54	-567.83	117.88	94.00	248.37	0.69		
5,291.00	8.70	255.31	5,243.53	-126.64	-581.02	121.87	94.00	252.75	0.97		



Wellbenders
End Of Well Report

COMPASS 5000.14 Build 85



Wellbenders

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Site:	Ocotillo Sunrise	MD Reference:	RKB=25' @ 3359.00ust (ICD 228)
Well:	#401H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	WBDS_SQL_2

Survey	MD (ustf)	Inc (°)	Azi (azimuth) (°)	TVD (ustf)	N/S (ustf)	E/W (ustf)	V. Sec (ustf)	CL (ustf)	CL Azi (°)	DLeg (°/100ft)
	7,925.00	7.30	261.02	7,851.45	-211.11	-940.27	203.39	94.00	260.89	0.42
	8,019.00	7.69	258.56	7,944.64	-213.29	-952.34	205.48	94.00	259.76	0.54
	8,113.00	8.00	259.00	8,037.76	-215.79	-964.92	207.87	94.00	258.78	0.34
	8,207.00	7.60	256.98	8,130.89	-218.44	-977.40	210.41	94.00	258.02	0.52
	8,301.00	7.38	256.54	8,224.09	-221.24	-989.33	213.12	94.00	256.76	0.24
	8,395.00	8.70	261.73	8,317.17	-223.67	-1,002.23	215.44	94.00	259.35	1.60
	8,490.00	8.22	263.57	8,411.13	-225.47	-1,016.09	217.12	95.00	262.62	0.58
	8,583.00	7.38	262.78	8,503.27	-226.96	-1,028.63	218.52	93.00	263.20	0.91
	8,678.00	6.90	262.87	8,597.53	-228.44	-1,040.34	219.89	95.00	262.82	0.51
	8,772.00	7.21	264.36	8,690.82	-229.72	-1,051.81	221.08	94.00	263.63	0.38
	8,835.00	6.90	263.13	8,753.34	-230.56	-1,059.51	221.86	63.00	263.76	0.55
	8,867.00	6.51	262.61	8,785.13	-231.02	-1,063.21	222.29	32.00	262.88	1.23
	8,961.00	6.81	256.81	8,878.49	-232.98	-1,073.92	224.16	94.00	259.64	0.78
	9,055.00	7.60	259.44	8,971.75	-235.39	-1,085.46	226.48	94.00	258.20	0.91
	9,149.00	8.70	265.07	9,064.80	-237.14	-1,098.66	228.12	94.00	262.44	1.44
	9,243.00	8.40	266.21	9,157.76	-238.20	-1,112.59	229.07	94.00	265.63	0.37
	9,337.00	6.90	265.42	9,250.92	-239.11	-1,125.07	229.87	94.00	265.85	1.60
	9,431.00	5.89	264.01	9,344.33	-240.06	-1,135.49	230.74	94.00	264.77	1.09
	9,525.00	6.59	263.13	9,437.77	-241.21	-1,145.65	231.81	94.00	263.55	0.75
	9,619.00	8.00	264.36	9,531.01	-242.50	-1,157.51	233.00	94.00	263.80	1.51
	9,714.00	8.88	263.48	9,624.98	-243.98	-1,171.38	234.37	95.00	263.90	0.94
	9,808.00	9.80	262.34	9,717.73	-245.87	-1,186.51	236.13	94.00	262.88	1.00
	9,902.00	8.70	269.81	9,810.51	-246.96	-1,201.55	237.10	94.00	265.85	1.73
	9,996.00	8.62	261.38	9,903.44	-248.04	-1,215.63	238.06	94.00	265.61	1.35
	10,090.00	9.80	252.85	9,996.24	-251.46	-1,230.24	241.36	94.00	256.84	1.92
	10,185.00	8.62	250.04	10,090.01	-256.27	-1,244.65	246.05	95.00	251.53	1.33
	10,279.00	7.30	252.94	10,183.10	-260.43	-1,256.98	250.11	94.00	251.37	1.47



Wellbenders

End Of Well Report

Company: Santo Petroleum
Project: Lea County, NM (NAD 83 - NIME)
Site: Ocotillo Sunrise
Well: #401H
Wellbore: OH
Design: OH

Local Co-ordinate Reference:
TVD Reference: RKB=25' @ 3359.00ustf (ICD 228)
MD Reference: RKB=25' @ 3359.00ustf (ICD 228)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: WBDS_SQL_2

Survey										
MD (ustf)	Inc (°)	Azi (azimuth) (°)	TVD (ustf)	N/S (ustf)	E/W (ustf)	V. Sec (ustf)	CL (ustf)	CL Azi (°)	DLeg (°/100ft)	
10,373.00	5.01	256.45	10,276.55	-263.14	-1,266.69	252.74	94.00	254.37	2.47	
10,467.00	3.21	256.45	10,370.31	-264.72	-1,273.24	254.27	94.00	256.45	1.91	
10,562.00	1.41	229.65	10,465.23	-266.10	-1,276.71	255.62	95.00	248.35	2.16	
10,656.00	2.02	234.66	10,559.19	-267.81	-1,278.94	257.31	94.00	232.60	0.67	
10,749.00	2.11	215.76	10,652.13	-270.15	-1,281.28	259.63	93.00	225.00	0.74	
10,938.00	1.49	197.22	10,841.04	-275.32	-1,284.04	264.77	189.00	208.10	0.45	
11,032.00	1.58	189.92	10,935.00	-277.76	-1,284.63	267.21	94.00	193.46	0.23	
11,126.00	1.19	187.81	11,028.97	-280.00	-1,284.98	269.45	94.00	189.01	0.42	
11,220.00	1.71	192.12	11,122.94	-282.34	-1,285.41	271.79	94.00	190.35	0.56	
11,315.00	2.02	181.66	11,217.89	-285.40	-1,285.76	274.84	95.00	186.45	0.48	
11,409.00	1.71	156.08	11,311.85	-288.34	-1,285.24	277.79	94.00	169.95	0.94	
11,503.00	1.41	127.61	11,405.81	-290.33	-1,283.75	279.79	94.00	143.24	0.87	
11,598.00	1.10	122.07	11,500.79	-291.52	-1,282.05	281.00	95.00	125.18	0.35	
11,651.00	0.88	114.25	11,553.78	-291.96	-1,281.25	281.44	53.00	118.60	0.49	
11,764.00	0.62	85.21	11,666.77	-292.27	-1,279.85	281.76	113.00	102.30	0.40	
11,858.00	4.13	165.98	11,760.69	-295.51	-1,278.52	285.01	94.00	157.74	4.34	
11,904.00	9.41	174.16	11,806.35	-300.86	-1,277.74	290.37	46.00	171.66	11.64	
11,954.00	14.42	177.32	11,855.26	-311.15	-1,277.03	300.67	50.00	176.07	10.10	
12,000.00	17.67	179.52	11,899.46	-323.86	-1,276.70	313.38	46.00	178.53	7.19	
12,049.00	21.19	183.56	11,945.67	-340.14	-1,277.19	329.65	49.00	181.72	7.69	
12,095.00	23.92	188.40	11,988.15	-357.67	-1,279.07	347.16	46.00	186.12	7.17	
12,143.00	28.05	189.89	12,031.29	-378.42	-1,282.43	367.89	48.00	189.20	8.71	
12,189.00	31.13	190.24	12,071.28	-400.78	-1,286.41	390.22	46.00	190.07	6.71	
12,238.00	36.14	190.15	12,112.06	-427.49	-1,291.21	416.88	49.00	190.19	10.22	
12,284.00	38.69	188.04	12,148.60	-455.08	-1,295.61	444.44	46.00	189.06	6.20	
12,332.00	41.24	186.64	12,185.39	-485.66	-1,299.54	474.98	48.00	187.32	5.63	
12,378.00	44.85	185.49	12,219.00	-516.88	-1,302.84	506.17	46.00	186.05	8.03	



Wellbenders

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Design:	OH	Database:	WBDS_SQL_2

Survey									
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	CL (usft)	CL Azi (°)	DLeg (°/100ft)
12,427.00	49.59	187.16	12,252.27	-552.61	-1,306.82	541.87	49.00	186.36	9.99
12,473.00	52.58	187.25	12,281.16	-588.11	-1,311.31	577.34	46.00	187.21	6.50
12,521.00	54.43	186.73	12,309.71	-626.41	-1,316.01	615.59	48.00	186.99	3.95
12,568.00	54.78	186.02	12,336.93	-664.49	-1,320.26	653.63	47.00	186.37	1.44
12,616.00	54.96	185.32	12,364.55	-703.55	-1,324.14	692.67	48.00	185.67	1.25
12,710.00	59.79	182.95	12,415.22	-782.48	-1,329.80	771.55	94.00	184.10	5.56
12,757.00	63.84	181.01	12,437.42	-823.88	-1,331.22	812.93	47.00	181.96	9.35
12,805.00	66.48	179.61	12,457.58	-867.43	-1,331.45	856.48	48.00	180.30	6.10
12,852.00	71.14	180.31	12,474.57	-911.24	-1,331.42	900.29	47.00	179.97	10.01
12,899.00	74.83	181.36	12,488.32	-956.17	-1,332.08	945.21	47.00	180.84	8.14
12,946.00	77.91	182.33	12,499.39	-1,001.81	-1,333.55	990.84	47.00	181.85	6.85
12,995.00	82.39	182.77	12,507.77	-1,050.03	-1,335.70	1,039.04	49.00	182.55	9.19
13,089.00	88.20	181.72	12,515.48	-1,143.60	-1,339.37	1,132.58	94.00	182.24	6.28
13,183.00	88.90	180.57	12,517.86	-1,237.55	-1,341.24	1,226.51	94.00	181.14	1.43
13,201.00	88.81	180.49	12,518.22	-1,255.55	-1,341.41	1,244.50	18.00	180.53	0.67
13,295.00	89.96	178.99	12,519.23	-1,349.54	-1,340.98	1,338.49	94.00	179.74	2.01
13,390.00	87.67	179.08	12,521.19	-1,444.50	-1,339.38	1,433.46	95.00	179.03	2.41
13,485.00	86.79	177.76	12,525.78	-1,539.35	-1,336.77	1,528.33	95.00	178.42	1.67
13,580.00	88.72	180.49	12,529.50	-1,634.25	-1,335.32	1,623.24	95.00	179.13	3.52
13,674.00	87.76	179.69	12,532.39	-1,728.20	-1,335.47	1,717.19	94.00	180.09	1.33
13,768.00	87.58	180.05	12,536.21	-1,822.12	-1,335.26	1,811.11	94.00	179.87	0.43
13,861.00	87.85	180.31	12,539.92	-1,915.05	-1,335.55	1,904.03	93.00	180.18	0.40
13,956.00	89.43	179.61	12,542.18	-2,010.02	-1,335.48	1,999.00	95.00	179.96	1.82
14,050.00	88.81	182.07	12,543.62	-2,103.99	-1,336.86	2,092.95	94.00	180.84	2.70
14,145.00	90.13	181.45	12,544.50	-2,198.94	-1,339.78	2,187.87	95.00	181.76	1.54
14,240.00	87.76	182.24	12,546.25	-2,293.87	-1,342.83	2,282.77	95.00	181.84	2.63
14,335.00	89.87	181.28	12,548.21	-2,388.79	-1,345.75	2,377.67	95.00	181.76	2.44



Wellbenders

End Of Well Report

Company:	Santo Petroleum	Local Co-ordinate Reference:	Well #401H
Project:	Lea County, NM (NAD 83 - NIME	TVD Reference:	RKB=25' @ 3359.00ust (ICD 228)
Site:	Ocotillo Sunrise	MD Reference:	RKB=25' @ 3359.00ust (ICD 228)
Well:	#401H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	WBDS_SQL_2

Survey	MD (ustf)	Inc (°)	Azi (azimuth) (°)	TVD (ustf)	N/S (ustf)	E/W (ustf)	V. Sec (ustf)	CL (ustf)	CL Azi (°)	DLeg (°/100ft)
	14,429.00	92.42	180.49	12,546.33	-2,482.76	-1,347.20	2,471.62	94.00	180.89	2.84
	14,523.00	91.71	178.73	12,542.95	-2,576.69	-1,346.56	2,565.56	94.00	179.61	2.02
	14,617.00	91.63	179.96	12,540.21	-2,670.64	-1,345.49	2,659.51	94.00	179.35	1.31
	14,711.00	90.57	178.11	12,538.40	-2,764.60	-1,343.91	2,753.49	94.00	179.03	2.27
	14,805.00	89.87	180.05	12,538.04	-2,858.59	-1,342.40	2,847.48	94.00	179.08	2.19
	14,899.00	88.46	179.96	12,539.41	-2,952.57	-1,342.40	2,941.46	94.00	180.01	1.50
	14,993.00	89.16	179.61	12,541.36	-3,046.55	-1,342.05	3,035.44	94.00	179.78	0.83
	15,088.00	88.81	181.19	12,543.05	-3,141.53	-1,342.71	3,130.41	95.00	180.40	1.70
	15,183.00	88.02	179.61	12,545.67	-3,236.49	-1,343.38	3,225.36	95.00	180.40	1.86
	15,277.00	87.32	180.22	12,549.50	-3,330.41	-1,343.24	3,319.28	94.00	179.91	0.99
	15,372.00	89.96	180.31	12,551.75	-3,425.37	-1,343.68	3,414.24	95.00	180.27	2.78
	15,467.00	89.87	178.29	12,551.89	-3,520.36	-1,342.52	3,509.23	95.00	179.30	2.13
	15,561.00	86.97	178.55	12,554.48	-3,614.28	-1,339.93	3,603.17	94.00	178.42	3.10
	15,655.00	88.81	181.80	12,557.94	-3,708.20	-1,340.22	3,697.08	94.00	180.18	3.97
	15,749.00	91.28	180.66	12,557.87	-3,802.17	-1,342.23	3,791.03	94.00	181.23	2.89
	15,844.00	89.69	180.13	12,557.07	-3,897.16	-1,342.89	3,886.01	95.00	180.39	1.76
	15,938.00	91.10	179.17	12,556.42	-3,991.15	-1,342.31	3,980.01	94.00	179.65	1.81
	16,033.00	90.13	178.73	12,555.40	-4,086.13	-1,340.57	4,075.00	95.00	178.95	1.12
	16,127.00	89.43	177.85	12,555.76	-4,180.09	-1,337.77	4,168.97	94.00	178.29	1.20
	16,222.00	89.43	179.69	12,556.70	-4,275.06	-1,335.73	4,263.95	95.00	178.77	1.94
	16,316.00	88.72	179.17	12,558.22	-4,369.04	-1,334.79	4,357.94	94.00	179.43	0.94
	16,411.00	88.37	179.69	12,560.63	-4,464.00	-1,333.85	4,452.91	95.00	179.43	0.66
	16,505.00	88.11	180.31	12,563.52	-4,557.96	-1,333.85	4,546.86	94.00	180.00	0.71
	16,599.00	87.93	180.75	12,566.77	-4,651.90	-1,334.72	4,640.79	94.00	180.53	0.51
	16,693.00	87.85	180.66	12,570.23	-4,745.83	-1,335.87	4,734.71	94.00	180.71	0.13
	16,787.00	88.81	179.34	12,572.97	-4,839.78	-1,335.87	4,828.66	94.00	180.00	1.74
	16,881.00	87.67	179.61	12,575.86	-4,933.73	-1,335.01	4,922.62	94.00	179.47	1.25



Wellbenders

End Of Well Report

Company: Santo Petroleum
Project: Lea County, NM (NAD 83 - NIME
Site: Ocotillo Sunrise
Well: #401H
Wellbore: OH
Design: OH

Local Co-ordinate Reference:
TVD Reference: RKB=25' @ 3359.00ust (ICD 228)
MD Reference: RKB=25' @ 3359.00ust (ICD 228)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: WBDS_SQL_2

Survey									
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	CL (usft)	CL Azi (°)	DLeg (°/100ft)
16,976.00	89.69	179.52	12,578.05	-5,028.70	-1,334.29	5,017.59	95.00	179.56	2.13
17,070.00	89.69	178.29	12,578.55	-5,122.68	-1,332.49	5,111.58	94.00	178.90	1.31
17,164.00	87.32	176.44	12,581.01	-5,216.54	-1,328.18	5,205.47	94.00	177.37	3.20
17,259.00	87.49	175.12	12,585.31	-5,311.18	-1,321.19	5,300.16	95.00	175.78	1.40
17,353.00	85.12	173.54	12,591.37	-5,404.52	-1,311.93	5,393.57	94.00	174.33	3.03
17,448.00	86.17	173.28	12,598.58	-5,498.61	-1,301.06	5,487.76	95.00	173.41	1.14
17,543.00	87.67	171.61	12,603.68	-5,592.65	-1,288.58	5,581.89	95.00	172.44	2.36
17,639.00	88.64	171.17	12,606.77	-5,687.52	-1,274.22	5,676.87	96.00	171.39	1.11
17,727.00	89.87	170.55	12,607.92	-5,774.39	-1,260.24	5,763.86	88.00	170.86	1.57
17,785.00	89.87	170.55	12,608.05	-5,831.60	-1,250.72	5,821.15	58.00	170.55	0.00
Final Station Closure Distance= 5964.22 /Direction= 192.11 - Projection to Bit: 17785.00' MD/ 12608.05' TVD - TD: Latitude = 32.123800 / Longitude = -103.456420 - TD: Y= 409879.30 / X= 812808.98									

Design Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		
		+N/-S (usft)	+E/-W (usft)	Comment
17,785.00	12,608.05	-5,831.60	-1,250.72	Final Station Closure Distance= 5964.22 /Direction= 192.11
17,785.00	12,608.05	-5,831.60	-1,250.72	Projection to Bit: 17785.00' MD/ 12608.05' TVD
17,785.00	12,608.05	-5,831.60	-1,250.72	TD: Latitude = 32.123800 / Longitude = -103.456420
17,785.00	12,608.05	-5,831.60	-1,250.72	TD: Y= 409879.30 / X= 812808.98

Checked By: _____

Approved By: _____

Date: _____