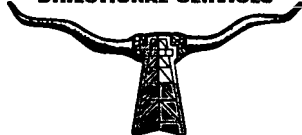


WELLBENDERS
DIRECTIONAL SERVICES

Survey Report

NM OIL CONSERVATION
ARTESIA DISTRICT

30-015-45123

DEC 05 2018

Service Company: Wellbenders Directional

Location: Eddy County, New Mexico

RECEIVED

Well: Mayaro 22 State #6

Rig: Silver Oak #1

API or UWI: 30-015-45123

Job Number: NMDG2018-1166

State: New Mexico

Operating Company: Percussion Petroleum Operating

County: Eddy

Magnetic Declination: 7.06

Country: United States

Proposed Azimuth: 58.44

Comment

North Reference: GRID

Latitude: 32.814967

Longitude: -104.161544

Tie-In Data

MD	Inclination	Azimuth	TVD	NS	EW
496.00	0.00	0.00	496.00	0.00	0.00

Survey Data

MD	Inclination	Azimuth	TVD	NS	EW	CA	CD	VS	DLS
517.00	0.84	31.67	517.00	0.13	0.08	31.67	0.15	0.14	4.00
588.00	3.56	48.37	587.94	2.04	2.00	44.48	2.86	2.77	3.90
680.00	6.11	51.09	679.61	7.01	7.95	48.58	10.60	10.44	2.78
772.00	7.03	52.94	771.00	13.48	16.25	50.32	21.11	20.90	1.03
864.00	7.52	55.14	862.26	20.31	25.68	51.66	32.75	32.52	0.61
955.00	7.16	54.35	952.51	27.02	35.18	52.47	44.36	44.12	0.41
1047.00	6.77	55.31	1043.84	33.45	44.30	52.94	55.51	55.25	0.44
1138.00	7.47	62.61	1134.13	39.23	53.96	53.98	66.71	66.51	1.26
1234.00	7.65	65.33	1229.30	44.76	65.31	55.57	79.17	79.08	0.42
1327.00	7.38	64.98	1321.50	49.87	76.34	56.84	91.19	91.15	0.29
1419.00	7.21	64.54	1412.76	54.85	86.91	57.74	102.77	102.77	0.19
1513.00	6.99	65.07	1506.04	59.80	97.42	58.46	114.31	114.31	0.24
1607.00	6.81	64.98	1599.36	64.57	107.66	59.05	125.54	125.53	0.19
1699.00	6.55	64.89	1690.73	69.10	117.35	59.51	136.19	136.16	0.28
1795.00	7.43	54.35	1786.02	75.04	127.36	59.49	147.82	147.80	1.62
1888.00	7.47	53.11	1878.24	82.18	137.08	59.06	159.82	159.81	0.18

MD	Inclination	Azimuth	TVD	NS	EW	CA	CD	VS	DLS
1982.00	7.52	52.85	1971.43	89.56	146.87	58.63	172.02	172.02	0.06
2076.00	7.65	52.15	2064.61	97.11	156.71	58.21	184.36	184.36	0.17
2170.00	7.69	51.97	2157.77	104.83	166.60	57.82	196.84	196.83	0.05
2263.00	7.74	51.88	2249.93	112.53	176.43	57.47	209.26	209.23	0.06
2357.00	7.30	61.82	2343.12	119.25	186.68	57.43	221.52	221.48	1.46
2450.00	7.34	62.78	2435.36	124.76	197.17	57.68	233.33	233.30	0.14
2544.00	7.47	62.87	2528.58	130.30	207.95	57.93	245.39	245.38	0.14
2639.00	7.47	64.10	2622.77	135.81	219.00	58.20	257.69	257.69	0.17
2733.00	7.60	63.66	2715.96	141.24	230.06	58.45	269.96	269.96	0.15
2826.00	7.74	65.33	2808.13	146.58	241.27	58.72	282.30	282.30	0.28
2919.00	8.18	65.24	2900.23	151.96	252.97	59.01	295.10	295.09	0.47
3014.00	5.85	66.30	2994.52	156.74	263.54	59.26	306.63	306.59	2.46
3108.00	5.63	65.86	3088.04	160.55	272.13	59.46	315.96	315.91	0.24
3202.00	3.87	53.55	3181.72	164.32	278.89	59.49	323.70	323.65	2.15
3295.00	1.89	5.48	3274.61	167.71	281.56	59.22	327.73	327.70	3.18
3389.00	2.07	349.13	3368.55	170.92	281.39	58.72	329.24	329.23	0.63
3483.00	0.44	321.09	3462.53	172.87	280.84	58.39	329.79	329.78	1.80
3578.00	0.48	274.34	3557.53	173.19	280.22	58.28	329.42	329.42	0.39
3672.00	0.35	295.08	3651.52	173.34	279.57	58.20	328.94	328.94	0.21
3766.00	0.44	279.70	3745.52	173.52	278.95	58.12	328.52	328.51	0.15
3860.00	0.57	302.55	3839.52	173.83	278.20	58.00	328.04	328.03	0.25
3954.00	0.62	301.23	3933.51	174.35	277.37	57.85	327.62	327.60	0.06
4048.00	0.40	295.25	4027.51	174.75	276.64	57.72	327.21	327.19	0.24
4142.00	0.44	294.90	4121.51	175.04	276.01	57.62	326.84	326.81	0.04
4236.00	0.70	299.47	4215.50	175.48	275.19	57.48	326.38	326.33	0.28
4330.00	0.44	312.66	4309.50	176.01	274.42	57.33	326.01	325.95	0.31
4424.00	0.40	292.44	4403.50	176.38	273.85	57.22	325.74	325.66	0.16
4517.00	0.66	270.47	4496.49	176.50	273.02	57.12	325.10	325.02	0.35
4611.00	0.44	249.90	4590.49	176.38	272.14	57.05	324.30	324.20	0.31
4705.00	0.53	252.36	4684.48	176.13	271.38	57.02	323.53	323.43	0.10
4799.00	0.44	234.78	4778.48	175.79	270.67	57.00	322.75	322.65	0.18
4893.00	0.48	229.60	4872.48	175.33	270.08	57.01	322.00	321.90	0.06
4915.00	0.53	234.17	4894.48	175.21	269.93	57.01	321.80	321.70	0.29

Projected Survey

MD	Inclination	Azimuth	TVD	NS	EW	CA	CD	VS	DLS
4970.00	0.53	234.17	4949.47	174.91	269.51	57.02	321.30	321.20	0.00