



PHOENIX

TECHNOLOGY SERVICES USA INC.

Celebrating 20 Years of Focused Solutions

3610 Elkins Road, Midland, Texas 79705 T. 432.684.0057 F. 432.686.7964 www.phxtech.com

30-025-43362

December 15, 2016

Oil Conservation Division
State of New Mexico
1625 N. French Drive
Hobbs, New Mexico 88240

Dear District 1 - Hobbs

Attention: Regulatory Department

Re Mewbourne Oil
Jennings 34 W1MD Fed Com #1H
Lea County, New Mexico
API #30-025-43362
Job No. 60549

HOBBS OCD
JAN 23 2017
RECEIVED

Enclosed please find the Survey Data Certification, and the original Plat and one copy of the Survey Report performed on the above referenced Well by Phoenix Technology Services, Inc. (P-5 No. 664171). Other information required by your office is as follows:

Name & Title of Surveyor	Drain Hole Number	Surveyed Depths		Dates Performed		Type of Survey
		From	To	Start	End	
Noe Garza	1H	0	11,280	11/18/16	11/18/16	Gyro

A certified plat on which the bottom hole location is oriented both to the surface location and to the lease lines (or unit lines in case of pooling) is attached to the survey report. If any other information is required, please contact the undersigned at the letterhead address and phone number.

Best Regards,

Brittany Carley

Brittany Carley
Operations Administrator

SURVEY CERTIFICATION FORM

3610 Elkins Road Midland, TX 79705 t:432-684-0057 f: 432-686-7964



PHOENIX
TECHNOLOGY SERVICES

Company: Mewbourne

Job #: 60549

Well Name: Jennings 34 W1MD Fed Com # 1H

County/State: Lea Co., New Mexico

Survey Instrument Type: North Seek Rate Gyro

API # 30-025-43362

TIE-IN DATA

Measure Depth (ft)	Vertical Depth (ft)	Inclination (°)	Azimuth (°)	N-S Coordinates	E-W Coordinates	Data Source
0	0	0	0	0	0	Surface

First Survey

Date	Depth (ft)	Inclination (°)	Azimuth (°)
2016-11-18	0	0	0

Last Survey

Date	Depth (ft)	Inclination (°)	Azimuth (°)
2016-11-18	11280	0.54	258.67

Projected TD Survey

Date	Depth (ft)	Inclination (°)	Azimuth (°)
0	0	0	0

Grid Correction
-0.35

Gyro Operator: Phoenix Technology Services USA Ltd.

Gyro Supervisor: Angel Guebara

To the best of my knowledge I certify this survey data to be correct and true

Date: 11/18/16

Print Name: Noe Garza

Signature: 

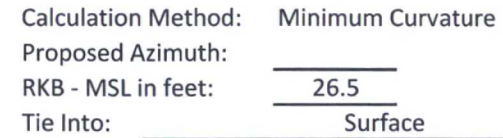


Company: Mewbourne
 Well: Jennings 34 W1MD Fed Com # 1H
 Location: Lea Co., New Mexico
 Rig: Patterson 231

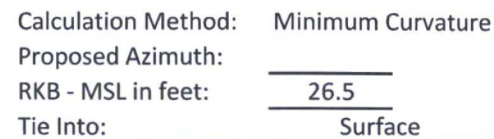
Job Number: 60549
 Grid Corr.: -0.35
 Lat: 32.08
 Long: -103.67

Date: 11-18-16
 Calculation Method: Minimum Curvature
 Proposed Azimuth: _____
 RKB - MSL in feet: 26.5
 Tie Into: Surface

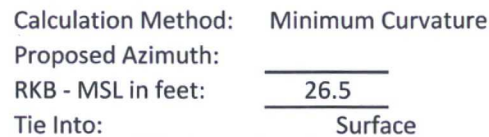
Survey Tool Type	Survey Depth (ft)	Inclination (deg)	Azimuth (deg)	Course Length (ft)	True Vertical Depth (ft)	Vertical Section (ft)	Coordinates		Closure		Dogleg Severity (d/100')	Build Rate (d/100')	Walk Rate (d/100')
							N/S (ft)	E/W (ft)	Distance (ft)	Angle (deg)			
Enter Tie-In Survey on Line 10					FIELD COPY, NON-DEFINITIVE								
TIE IN	0			0	0	0	0	0					
Gyro	100.00	0.51	147.98	100	100.00	-0.38	0.38 S	0.24 E	0.45	147.98	0.51	0.51	147.98
	200.00	0.96	190.23	100	199.99	-1.58	1.58 S	0.32 E	1.61	168.43	0.68	0.45	42.25
	300.00	0.48	144.35	100	299.98	-2.74	2.74 S	0.42 E	2.78	171.33	0.71	-0.48	-45.88
	400.00	0.59	216.42	100	399.98	-3.50	3.50 S	0.36 E	3.52	174.17	0.64	0.11	72.07
	500.00	0.99	201.21	100	499.97	-4.72	4.72 S	0.26 W	4.73	183.17	0.45	0.40	-15.21
	600.00	2.13	214.74	100	599.93	-7.05	7.05 S	1.63 W	7.24	193.04	1.19	1.14	13.53
	700.00	3.25	210.09	100	699.82	-11.03	11.03 S	4.11 W	11.77	200.45	1.14	1.12	-4.65
	800.00	5.66	219.79	100	799.51	-17.27	17.27 S	8.69 W	19.34	206.71	2.52	2.41	9.70
	900.00	6.65	218.55	100	898.93	-25.59	25.59 S	15.46 W	29.90	211.13	1.00	0.99	-1.24
	1000.00	6.67	216.28	100	998.26	-34.80	34.80 S	22.50 W	41.44	212.88	0.26	0.02	-2.27
	1100.00	6.57	216.94	100	1097.59	-44.06	44.06 S	29.37 W	52.95	213.69	0.13	-0.10	0.66
	1200.00	6.50	219.31	100	1196.94	-53.01	53.01 S	36.40 W	64.30	214.48	0.28	-0.07	2.37
	1300.00	3.07	202.42	100	1296.58	-59.86	59.86 S	41.01 W	72.56	214.41	3.67	-3.43	-16.89
	1400.00	2.34	204.81	100	1396.47	-64.19	64.19 S	42.89 W	77.20	213.75	0.74	-0.73	2.39
	1500.00	0.63	243.73	100	1496.44	-66.29	66.29 S	44.24 W	79.69	213.72	1.89	-1.71	38.92
	1600.00	0.65	104.70	100	1596.43	-66.68	66.68 S	44.18 W	79.99	213.53	1.20	0.02	-139.03
	1700.00	1.04	340.97	100	1696.43	-65.96	65.96 S	43.93 W	79.25	213.66	1.50	0.39	236.27
	1800.00	1.11	324.74	100	1796.41	-64.31	64.31 S	44.78 W	78.37	214.85	0.31	0.07	-16.23
	1900.00	1.17	323.98	100	1896.39	-62.70	62.70 S	45.94 W	77.73	216.23	0.06	0.06	-0.76
	2000.00	1.10	323.88	100	1996.37	-61.10	61.10 S	47.11 W	77.15	217.63	0.07	-0.07	-0.10
	2100.00	1.09	308.37	100	2096.35	-59.73	59.73 S	48.42 W	76.89	219.03	0.30	-0.01	-15.51
	2200.00	1.47	323.45	100	2196.33	-58.11	58.11 S	49.93 W	76.61	220.67	0.50	0.38	15.08
	2300.00	1.43	326.00	100	2296.30	-56.04	56.04 S	51.39 W	76.04	222.52	0.08	-0.04	2.55
	2400.00	1.73	275.90	100	2396.26	-54.85	54.85 S	53.59 W	76.69	224.33	1.37	0.30	-50.10
	2500.00	1.64	238.54	100	2496.22	-55.45	55.45 S	56.31 W	79.03	225.44	1.08	-0.09	-37.36
	2600.00	1.55	267.87	100	2596.19	-56.24	56.24 S	58.88 W	81.43	226.31	0.81	-0.09	29.33
	2700.00	1.40	297.13	100	2696.15	-55.74	55.74 S	61.32 W	82.87	227.73	0.76	-0.15	29.26
	2800.00	1.91	273.59	100	2796.11	-55.08	55.08 S	64.07 W	84.49	229.32	0.84	0.51	-23.54



Survey Tool Type	Survey Depth (ft)	Inclina- tion (deg)	Azimuth (deg)	Course Length (ft)	True Vertical Depth (ft)	Vertical Section (ft)	Coordinates		Closure		Dogleg Severity (d/100')	Build Rate (d/100')	Walk Rate (d/100')
							N/S (ft)	E/W (ft)	Distance (ft)	Angle (deg)			
	2900.00	1.74	241.73	100	2896.06	-55.69	55.69 S	67.07 W	87.18	230.30	1.01	-0.17	-31.86
	3000.00	1.78	225.99	100	2996.02	-57.49	57.49 S	69.53 W	90.22	230.41	0.48	0.04	-15.74
	3100.00	1.94	197.75	100	3095.97	-60.18	60.18 S	71.16 W	93.20	229.78	0.92	0.16	-28.24
	3200.00	0.84	147.62	100	3195.94	-62.41	62.41 S	71.28 W	94.74	228.80	1.54	-1.10	-50.13
	3300.00	1.35	95.99	100	3295.92	-63.15	63.15 S	69.72 W	94.07	227.83	1.06	0.51	-51.63
	3400.00	1.88	77.87	100	3395.88	-62.93	62.93 S	66.94 W	91.88	226.77	0.73	0.53	-18.12
	3500.00	2.22	60.25	100	3495.82	-61.63	61.63 S	63.66 W	88.60	225.93	0.71	0.34	-17.62
	3600.00	1.14	86.82	100	3595.78	-60.61	60.61 S	60.98 W	85.98	225.18	1.30	-1.08	26.57
	3700.00	0.78	210.52	100	3695.77	-61.14	61.14 S	60.34 W	85.90	224.62	1.70	-0.36	123.70
	3800.00	0.95	187.41	100	3795.76	-62.55	62.55 S	60.79 W	87.22	224.18	0.38	0.17	-23.11
	3900.00	0.63	135.76	100	3895.75	-63.76	63.76 S	60.51 W	87.91	223.50	0.75	-0.32	-51.65
	4000.00	1.09	113.05	100	3995.74	-64.53	64.53 S	59.25 W	87.61	222.56	0.56	0.46	-22.71
	4100.00	2.18	109.16	100	4095.70	-65.53	65.53 S	56.58 W	86.58	220.81	1.10	1.09	-3.89
	4200.00	2.24	132.55	100	4195.62	-67.47	67.47 S	53.35 W	86.01	218.33	0.90	0.06	23.39
	4300.00	0.62	166.75	100	4295.59	-69.32	69.32 S	51.78 W	86.53	216.76	1.76	-1.62	34.20
	4400.00	0.97	117.12	100	4395.58	-70.23	70.23 S	50.90 W	86.74	215.93	0.74	0.35	-49.63
	4500.00	1.46	114.92	100	4495.56	-71.16	71.16 S	49.00 W	86.39	214.55	0.49	0.49	-2.20
	4600.00	1.20	113.52	100	4595.53	-72.11	72.11 S	46.88 W	86.01	213.03	0.26	-0.26	-1.40
	4700.00	1.06	127.58	100	4695.51	-73.09	73.09 S	45.19 W	85.93	211.73	0.31	-0.14	14.06
	4800.00	0.89	121.98	100	4795.50	-74.07	74.07 S	43.80 W	86.05	210.60	0.19	-0.17	-5.60
	4900.00	0.71	136.81	100	4895.49	-74.93	74.93 S	42.71 W	86.25	209.68	0.27	-0.18	14.83
	5000.00	0.55	99.23	100	4995.48	-75.46	75.46 S	41.82 W	86.27	208.99	0.43	-0.16	-37.58
	5100.00	0.43	181.23	100	5095.48	-75.91	75.91 S	41.35 W	86.44	208.58	0.65	-0.12	82.00
	5200.00	0.45	123.59	100	5195.48	-76.51	76.51 S	41.03 W	86.81	208.20	0.42	0.02	-57.64
	5300.00	0.18	181.38	100	5295.48	-76.88	76.88 S	40.71 W	86.99	207.90	0.39	-0.27	57.79
	5400.00	0.23	145.19	100	5395.48	-77.20	77.20 S	40.60 W	87.22	207.74	0.14	0.05	-36.19
	5500.00	0.23	108.69	100	5495.48	-77.43	77.43 S	40.29 W	87.29	207.49	0.14	0.00	-36.50
	5600.00	0.19	162.94	100	5595.48	-77.65	77.65 S	40.05 W	87.37	207.28	0.19	-0.04	54.25
	5700.00	0.32	228.36	100	5695.47	-78.00	78.00 S	40.21 W	87.75	207.27	0.30	0.13	65.42
	5800.00	0.24	91.34	100	5795.47	-78.19	78.19 S	40.21 W	87.92	207.22	0.52	-0.08	-137.02
	5900.00	0.52	275.83	100	5895.47	-78.15	78.15 S	40.45 W	88.00	207.37	0.76	0.28	184.49



Survey Tool Type	Survey Depth (ft)	Inclination (deg)	Azimuth (deg)	Course Length (ft)	True Vertical Depth (ft)	Vertical Section (ft)	Coordinates		Closure		Dogleg Severity (d/100')	Build Rate (d/100')	Walk Rate (d/100')
							N/S (ft)	E/W (ft)	Distance (ft)	Angle (deg)			
	6000.00	0.52	264.52	100	5995.47	-78.14	78.14 S	41.36 W	88.41	207.89	0.10	0.00	-11.31
	6100.00	0.43	238.48	100	6095.47	-78.38	78.38 S	42.13 W	88.99	208.26	0.23	-0.09	-26.04
	6200.00	0.66	270.53	100	6195.46	-78.57	78.57 S	43.02 W	89.58	208.70	0.37	0.23	32.05
	6300.00	0.25	260.15	100	6295.46	-78.61	78.61 S	43.82 W	89.99	209.14	0.42	-0.41	-10.38
	6400.00	0.34	241.28	100	6395.46	-78.79	78.79 S	44.29 W	90.38	209.34	0.13	0.09	-18.87
	6500.00	0.23	296.34	100	6495.46	-78.84	78.84 S	44.73 W	90.64	209.57	0.28	-0.11	55.06
	6600.00	0.25	215.73	100	6595.45	-78.93	78.93 S	45.04 W	90.87	209.71	0.31	0.02	-80.61
	6700.00	0.13	206.97	100	6695.45	-79.21	79.21 S	45.22 W	91.20	209.72	0.12	-0.12	-8.76
	6800.00	0.39	240.14	100	6795.45	-79.48	79.48 S	45.56 W	91.61	209.83	0.29	0.26	33.17
	6900.00	0.55	240.33	100	6895.45	-79.88	79.88 S	46.28 W	92.32	210.08	0.16	0.16	0.19
	7000.00	0.35	256.24	100	6995.45	-80.19	80.19 S	46.99 W	92.95	210.37	0.23	-0.20	15.91
	7100.00	0.39	255.65	100	7095.44	-80.35	80.35 S	47.62 W	93.40	210.65	0.04	0.04	-0.59
	7200.00	0.35	246.92	100	7195.44	-80.55	80.55 S	48.23 W	93.89	210.91	0.07	-0.04	-8.73
	7300.00	0.24	65.18	100	7295.44	-80.59	80.59 S	48.32 W	93.96	210.95	0.59	-0.11	-181.74
	7400.00	0.43	65.83	100	7395.44	-80.34	80.34 S	47.78 W	93.48	210.74	0.19	0.19	0.65
	7500.00	1.44	112.73	100	7495.43	-80.68	80.68 S	46.28 W	93.01	209.84	1.19	1.01	46.90
	7600.00	0.68	92.62	100	7595.41	-81.19	81.19 S	44.53 W	92.60	208.74	0.83	-0.76	-20.11
	7700.00	0.33	83.20	100	7695.40	-81.18	81.18 S	43.65 W	92.17	208.27	0.36	-0.35	-9.42
	7800.00	0.33	75.47	100	7795.40	-81.08	81.08 S	43.09 W	91.81	207.99	0.04	0.00	-7.73
	7900.00	0.45	100.62	100	7895.40	-81.08	81.08 S	42.42 W	91.50	207.62	0.21	0.12	25.15
	8000.00	0.53	127.94	100	7995.40	-81.43	81.43 S	41.67 W	91.48	207.10	0.24	0.08	27.32
	8100.00	0.70	111.23	100	8095.39	-81.94	81.94 S	40.74 W	91.51	206.44	0.25	0.17	-16.71
	8200.00	0.38	107.97	100	8195.39	-82.26	82.26 S	39.85 W	91.41	205.85	0.32	-0.32	-3.26
	8300.00	0.40	127.64	100	8295.38	-82.58	82.58 S	39.26 W	91.44	205.43	0.13	0.02	19.67
	8400.00	1.05	17.95	100	8395.38	-81.92	81.92 S	38.70 W	90.60	205.29	1.24	0.65	-109.69
	8500.00	2.13	324.41	100	8495.34	-79.54	79.54 S	39.50 W	88.81	206.41	1.73	1.08	306.46
	8600.00	2.33	9.17	100	8595.27	-76.02	76.02 S	40.26 W	86.02	207.91	1.71	0.20	-315.24
	8700.00	2.51	14.11	100	8695.19	-71.89	71.89 S	39.40 W	81.98	208.73	0.28	0.18	4.94
	8800.00	1.43	99.10	100	8795.14	-69.96	69.96 S	37.64 W	79.44	208.28	2.78	-1.08	84.99
	8900.00	0.97	0.39	100	8895.13	-69.31	69.31 S	36.40 W	78.29	207.71	1.85	-0.46	-98.71
	9000.00	0.50	297.41	100	8995.12	-68.26	68.26 S	36.78 W	77.54	208.32	0.87	-0.47	297.02



Survey Tool Type	Survey Depth (ft)	Inclination (deg)	Azimuth (deg)	Course Length (ft)	True Vertical Depth (ft)	Vertical Section (ft)	Coordinates		Closure		Dogleg Severity (d/100')	Build Rate (d/100')	Walk Rate (d/100')
							N/S (ft)	E/W (ft)	Distance (ft)	Angle (deg)			
	9100.00	0.68	14.00	100	9095.12	-67.49	67.49 S	37.02 W	76.98	208.75	0.74	0.18	-283.41
	9200.00	1.18	358.06	100	9195.10	-65.88	65.88 S	36.91 W	75.52	209.26	0.56	0.50	344.06
	9300.00	1.11	19.85	100	9295.08	-63.94	63.94 S	36.62 W	73.69	209.80	0.44	-0.07	-338.21
	9400.00	0.61	27.85	100	9395.07	-62.56	62.56 S	36.04 W	72.20	209.95	0.51	-0.50	8.00
	9500.00	1.51	94.68	100	9495.06	-62.20	62.20 S	34.48 W	71.12	209.00	1.39	0.90	66.83
	9600.00	2.25	116.60	100	9595.00	-63.18	63.18 S	31.41 W	70.56	206.43	1.02	0.74	21.92
	9700.00	3.03	128.85	100	9694.90	-65.72	65.72 S	27.60 W	71.28	202.78	0.96	0.78	12.25
	9800.00	3.12	118.47	100	9794.75	-68.68	68.68 S	23.15 W	72.47	198.63	0.56	0.09	-10.38
	9900.00	2.33	187.84	100	9894.66	-71.99	71.99 S	21.03 W	75.00	196.29	3.17	-0.79	69.37
	10000.00	1.49	162.43	100	9994.61	-75.24	75.24 S	20.92 W	78.10	195.54	1.17	-0.84	-25.41
	10100.00	2.52	205.76	100	10094.55	-78.46	78.46 S	21.48 W	81.35	195.31	1.76	1.03	43.33
	10200.00	2.21	212.94	100	10194.47	-82.06	82.06 S	23.48 W	85.35	195.97	0.43	-0.31	7.18
	10300.00	1.45	171.46	100	10294.42	-84.93	84.93 S	24.35 W	88.35	196.00	1.48	-0.76	-41.48
	10400.00	2.26	230.75	100	10394.37	-87.43	87.43 S	25.68 W	91.12	196.37	1.97	0.81	59.29
	10500.00	2.16	239.80	100	10494.30	-89.62	89.62 S	28.84 W	94.15	197.84	0.36	-0.10	9.05
	10600.00	2.79	218.44	100	10594.21	-92.48	92.48 S	31.98 W	97.85	199.08	1.11	0.63	-21.36
	10700.00	3.60	219.86	100	10694.05	-96.79	96.79 S	35.51 W	103.10	200.14	0.81	0.81	1.42
	10800.00	3.73	221.97	100	10793.85	-101.62	101.62 S	39.69 W	109.10	201.34	0.19	0.13	2.11
	10900.00	3.10	205.52	100	10893.67	-106.48	106.48 S	43.03 W	114.85	202.01	1.16	-0.63	-16.45
	11000.00	3.26	179.04	100	10993.52	-111.76	111.76 S	44.15 W	120.17	201.56	1.46	0.16	-26.48
	11100.00	2.04	181.37	100	11093.41	-116.39	116.39 S	44.15 W	124.48	200.77	1.22	-1.22	2.33
	11200.00	0.51	244.33	100	11193.39	-118.36	118.36 S	44.59 W	126.48	200.64	1.86	-1.53	62.96
	11280.00	0.54	258.67	80	11273.39	-118.59	118.59 S	45.28 W	126.94	200.90	0.17	0.04	17.93