



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

December 10, 2018

Oil Conservation Division
State of New Mexico
811 S. First St.
Artesia, New Mexico 88210

RECEIVED

Dear District 2 - Artesia

DEC 31 2018

Attention: Regulatory Department

DISTRICT II-ARTESIA O.C.D.

Re: Mewbourne Oil
Pecos Valley 7 Federal Com No. 001
Eddy County, NM
API #30-015-26865
Job No. 63965

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	001	0	10,483	12/8/18	12/8/18	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



Company: Mewbourne

Well Name: Pecos Valley 7 Federal Com No. 001

Survey Instrument Type: North Seek Rate Gyro

Job #: 63965

County/State: Eddy Co., New Mexico

API # 30-015-26865

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 (°)
2018-12-08	0	0	0

Last Survey

Date	Depth (ft)	Inclination (°)	Azimuth (°)
2018-12-08	10483	0.67	252.49

Projected TD Survey

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

Grid Correction
-0.16

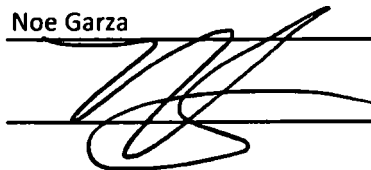
Gyro Operator: Phoenix Technology Services USA Ltd.

Gyro Supervisor: Angel Guebara

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

Date: 12-08-18

Print Name: Noe Garza

Signature: 



Company: Mewbourne
 Well: Pecos Valley 7 Federal Com No. 001
 Location: Eddy Co., New Mexico
 Rig: Mast

Job Number: 63965
 Grid Corr.: -0.16
 Lat: 32.24
 Long: -104.03

Date: 12-08-18
 Calculation Method: Minimum Curvature
 Proposed Azimuth: Ground
 RKB - MSL in feet: Ground
 Tie Into: Surface

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)			
Enter Tie-In Survey on Line 10													
FIELD COPY, NON-DEFINITIVE													
TIE IN	0			0	0	0	0	0					
Gyro	100.00	0.20	162.71	100	100.00	-0.17	0.17 S	0.05 E	0.17	162.71	0.20	0.20	162.71
	200.00	0.33	261.99	100	200.00	-0.37	0.37 S	0.18 W	0.42	205.91	0.41	0.13	99.28
	300.00	0.62	82.44	100	300.00	-0.34	0.34 S	0.07 E	0.35	168.48	0.95	0.29	-179.55
	400.00	0.87	68.94	100	399.99	0.00	0.00 N	1.31 E	1.31	89.93	0.30	0.25	-13.50
	500.00	0.83	67.67	100	499.98	0.55	0.55 N	2.69 E	2.75	78.46	0.04	-0.04	-1.27
	600.00	0.99	61.80	100	599.97	1.23	1.23 N	4.12 E	4.30	73.36	0.18	0.16	-5.87
	700.00	1.08	55.17	100	699.95	2.18	2.18 N	5.66 E	6.06	68.94	0.15	0.09	-6.63
	800.00	1.04	46.73	100	799.93	3.34	3.34 N	7.09 E	7.84	64.79	0.16	-0.04	-8.44
	900.00	0.35	31.31	100	899.92	4.22	4.22 N	7.91 E	8.97	61.91	0.71	-0.69	-15.42
	1000.00	0.19	197.28	100	999.92	4.33	4.33 N	8.02 E	9.11	61.67	0.54	-0.16	165.97
	1100.00	0.18	234.07	100	1099.92	4.07	4.07 N	7.85 E	8.84	62.55	0.12	-0.01	36.79
	1200.00	0.23	56.31	100	1199.92	4.09	4.09 N	7.89 E	8.89	62.56	0.41	0.05	-177.76
	1300.00	0.30	49.17	100	1299.92	4.38	4.38 N	8.25 E	9.34	62.06	0.08	0.07	-7.14
	1400.00	0.08	311.32	100	1399.92	4.59	4.59 N	8.40 E	9.57	61.32	0.32	-0.22	262.15
	1500.00	0.44	325.84	100	1499.92	4.96	4.96 N	8.13 E	9.52	58.62	0.36	0.36	14.52
	1600.00	0.66	26.14	100	1599.92	5.79	5.79 N	8.17 E	10.01	54.65	0.58	0.22	-299.70
	1700.00	0.75	55.65	100	1699.91	6.68	6.68 N	8.96 E	11.18	53.30	0.37	0.09	29.51
	1800.00	0.75	37.53	100	1799.90	7.57	7.57 N	9.90 E	12.46	52.61	0.24	0.00	-18.12
	1900.00	0.76	32.99	100	1899.89	8.64	8.64 N	10.66 E	13.72	50.97	0.06	0.01	-4.54
	2000.00	0.62	86.88	100	1999.89	9.23	9.23 N	11.56 E	14.79	51.40	0.64	-0.14	53.89
	2100.00	1.14	103.07	100	2099.87	9.03	9.03 N	13.07 E	15.89	55.35	0.57	0.52	16.19
	2200.00	1.48	101.87	100	2199.85	8.54	8.54 N	15.30 E	17.53	60.83	0.34	0.34	-1.20
	2300.00	2.21	108.68	100	2299.79	7.66	7.66 N	18.39 E	19.92	67.39	0.76	0.73	6.81
	2400.00	2.75	106.88	100	2399.70	6.34	6.34 N	22.52 E	23.39	74.26	0.55	0.54	-1.80
	2500.00	2.41	106.50	100	2499.60	5.05	5.05 N	26.83 E	27.30	79.34	0.34	-0.34	-0.38
	2600.00	2.06	111.62	100	2599.52	3.79	3.79 N	30.51 E	30.75	82.92	0.40	-0.35	5.12
	2700.00	1.61	113.91	100	2699.47	2.56	2.56 N	33.47 E	33.57	85.63	0.46	-0.45	2.29
	2800.00	1.35	101.97	100	2799.44	1.75	1.75 N	35.91 E	35.95	87.22	0.40	-0.26	-11.94
	2900.00	1.11	109.61	100	2899.42	1.18	1.18 N	37.97 E	37.99	88.22	0.29	-0.24	7.64



Company:	Mewbourne
Well:	Pecos Valley 7 Federal Com No. 001
Location:	Eddy Co., New Mexico
Rig:	Mast

Job Number:	<u>63965</u>
Grid Corr.:	<u>-0.16</u>
Lat:	<u>32.24</u>
Long:	<u>-104.03</u>

Calculation Method: Minimum Curvature
Proposed Azimuth: _____
RKB - MSL in feet: Ground
Tie Into: Surface

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)			
	3000.00	1.12	112.71	100	2999.40	0.47	0.47 N	39.78 E	39.79	89.32	0.06	0.01	3.10
	3100.00	1.05	112.75	100	3099.38	-0.26	0.26 S	41.53 E	41.53	90.35	0.07	-0.07	0.04
	3200.00	0.63	132.48	100	3199.37	-0.98	0.98 S	42.78 E	42.79	91.32	0.50	-0.42	19.73
	3300.00	0.73	140.63	100	3299.36	-1.85	1.85 S	43.59 E	43.63	92.43	0.14	0.10	8.15
	3400.00	0.35	141.87	100	3399.36	-2.58	2.58 S	44.18 E	44.26	93.34	0.38	-0.38	1.24
	3500.00	0.59	152.70	100	3499.35	-3.28	3.28 S	44.61 E	44.73	94.20	0.25	0.24	10.83
	3600.00	0.29	142.01	100	3599.35	-3.93	3.93 S	45.00 E	45.17	95.00	0.31	-0.30	-10.69
	3700.00	0.52	130.49	100	3699.35	-4.43	4.43 S	45.50 E	45.72	95.56	0.24	0.23	-11.52
	3800.00	0.37	134.26	100	3799.34	-4.95	4.95 S	46.08 E	46.34	96.13	0.15	-0.15	3.77
	3900.00	0.15	71.92	100	3899.34	-5.13	5.13 S	46.43 E	46.72	96.31	0.33	-0.22	-62.34
	4000.00	0.24	81.92	100	3999.34	-5.06	5.06 S	46.77 E	47.04	96.18	0.10	0.09	10.00
	4100.00	0.36	96.31	100	4099.34	-5.07	5.07 S	47.28 E	47.56	96.12	0.14	0.12	14.39
	4200.00	0.35	123.80	100	4199.34	-5.27	5.27 S	47.85 E	48.14	96.29	0.17	-0.01	27.49
	4300.00	0.32	195.46	100	4299.34	-5.71	5.71 S	48.03 E	48.37	96.78	0.39	-0.03	71.66
	4400.00	0.40	184.75	100	4399.34	-6.33	6.33 S	47.93 E	48.34	97.52	0.10	0.08	-10.71
	4500.00	0.42	143.82	100	4499.33	-6.97	6.97 S	48.11 E	48.62	98.24	0.29	0.02	-40.93
	4600.00	0.37	166.72	100	4599.33	-7.58	7.58 S	48.40 E	48.99	98.90	0.16	-0.05	22.90
	4700.00	0.47	176.84	100	4699.33	-8.31	8.31 S	48.50 E	49.21	99.72	0.12	0.10	10.12
	4800.00	0.49	189.40	100	4799.32	-9.14	9.14 S	48.45 E	49.31	100.68	0.11	0.02	12.56
	4900.00	0.33	211.44	100	4899.32	-9.80	9.80 S	48.23 E	49.22	101.49	0.22	-0.16	22.04
	5000.00	0.26	254.46	100	4999.32	-10.11	10.11 S	47.87 E	48.92	101.93	0.23	-0.07	43.02
	5100.00	0.21	254.28	100	5099.32	-10.22	10.22 S	47.47 E	48.56	102.15	0.05	-0.05	-0.18
	5200.00	0.53	246.09	100	5199.32	-10.46	10.46 S	46.87 E	48.02	102.58	0.32	0.32	-8.19
	5300.00	0.48	229.74	100	5299.31	-10.92	10.92 S	46.13 E	47.40	103.31	0.15	-0.05	-16.35
	5400.00	0.37	257.59	100	5399.31	-11.26	11.26 S	45.49 E	46.87	103.90	0.23	-0.11	27.85
	5500.00	0.58	194.22	100	5499.31	-11.82	11.82 S	45.05 E	46.58	104.70	0.53	0.21	-63.37
	5600.00	0.40	164.28	100	5599.30	-12.64	12.64 S	45.02 E	46.77	105.69	0.31	-0.18	-29.94
	5700.00	0.67	185.89	100	5699.30	-13.56	13.56 S	45.06 E	47.06	106.75	0.33	0.27	21.61
	5800.00	0.72	215.54	100	5799.29	-14.65	14.65 S	44.63 E	46.98	108.18	0.36	0.05	29.65
	5900.00	0.63	214.08	100	5899.29	-15.62	15.62 S	43.96 E	46.65	109.56	0.09	-0.09	-1.46
	6000.00	0.46	211.91	100	5999.28	-16.42	16.42 S	43.44 E	46.44	110.70	0.17	-0.17	-2.17
	6100.00	0.38	187.94	100	6099.28	-17.09	17.09 S	43.18 E	46.44	111.59	0.19	-0.08	-23.97



Company:	Mewbourne
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Location:	Eddy Co., New Mexico
Rig:	Mast

Job Number:	<u>63965</u>
Grid Corr.:	<u>-0.16</u>
Lat:	<u>32.24</u>
Long:	<u>-104.03</u>

Calculation Method: Minimum Curvature
Proposed Azimuth: _____
RKB - MSL in feet: Ground
Tie Into: _____ Surface

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)			
	6200.00	0.55	184.95	100	6199.28	-17.89	17.89 S	43.09 E	46.66	112.55	0.17	0.17	-2.99
	6300.00	0.49	191.29	100	6299.27	-18.79	18.79 S	42.97 E	46.90	113.62	0.08	-0.06	6.34
	6400.00	0.38	203.34	100	6399.27	-19.51	19.51 S	42.75 E	47.00	114.53	0.14	-0.11	12.05
	6500.00	0.61	156.12	100	6499.26	-20.31	20.31 S	42.84 E	47.41	115.36	0.45	0.23	-47.22
	6600.00	0.87	176.43	100	6599.26	-21.55	21.55 S	43.10 E	48.19	116.56	0.37	0.26	20.31
	6700.00	0.89	179.68	100	6699.24	-23.08	23.08 S	43.15 E	48.94	118.14	0.05	0.02	3.25
	6800.00	0.72	200.91	100	6799.23	-24.45	24.45 S	42.93 E	49.41	119.66	0.34	-0.17	21.23
	6900.00	0.81	184.62	100	6899.23	-25.74	25.74 S	42.65 E	49.82	121.11	0.23	0.09	-16.29
	7000.00	0.76	196.64	100	6999.22	-27.08	27.08 S	42.41 E	50.31	122.56	0.17	-0.05	12.02
	7100.00	0.38	222.39	100	7099.21	-27.96	27.96 S	41.99 E	50.45	123.66	0.45	-0.38	25.75
	7200.00	0.75	301.21	100	7199.21	-27.86	27.86 S	41.21 E	49.75	124.07	0.77	0.37	78.82
	7300.00	0.93	281.26	100	7299.20	-27.37	27.37 S	39.85 E	48.34	124.48	0.34	0.18	-19.95
	7400.00	0.84	304.12	100	7399.19	-26.80	26.80 S	38.45 E	46.87	124.87	0.36	-0.09	22.86
	7500.00	0.94	307.18	100	7499.17	-25.89	25.89 S	37.19 E	45.31	124.85	0.11	0.10	3.06
	7600.00	1.01	323.98	100	7599.16	-24.68	24.68 S	36.02 E	43.66	124.42	0.29	0.07	16.80
	7700.00	1.14	341.79	100	7699.14	-23.02	23.02 S	35.19 E	42.05	123.20	0.36	0.13	17.81
	7800.00	0.78	57.63	100	7799.13	-21.72	21.72 S	35.45 E	41.57	121.49	1.21	-0.36	-284.16
	7900.00	1.88	63.92	100	7899.10	-20.63	20.63 S	37.50 E	42.80	118.82	1.11	1.10	6.29
	8000.00	1.94	61.67	100	7999.05	-19.11	19.11 S	40.46 E	44.75	115.27	0.10	0.06	-2.25
	8100.00	1.29	78.00	100	8099.01	-18.07	18.07 S	43.06 E	46.69	112.77	0.79	-0.65	16.33
	8200.00	0.90	83.50	100	8198.99	-17.74	17.74 S	44.94 E	48.31	111.55	0.40	-0.39	5.50
	8300.00	0.80	101.55	100	8298.98	-17.80	17.80 S	46.40 E	49.70	110.98	0.28	-0.10	18.05
	8400.00	1.09	115.29	100	8398.96	-18.34	18.34 S	47.94 E	51.33	110.94	0.37	0.29	13.74
	8500.00	1.07	134.90	100	8498.95	-19.41	19.41 S	49.47 E	53.14	111.42	0.37	-0.02	19.61
	8600.00	1.26	154.93	100	8598.93	-21.06	21.06 S	50.59 E	54.80	112.60	0.45	0.19	20.03
	8700.00	0.28	182.01	100	8698.92	-22.30	22.30 S	51.05 E	55.71	113.60	1.02	-0.98	27.08
	8800.00	0.74	241.75	100	8798.91	-22.85	22.85 S	50.47 E	55.41	114.36	0.65	0.46	59.74
	8900.00	1.53	233.41	100	8898.89	-23.95	23.95 S	48.83 E	54.39	116.13	0.81	0.79	-8.34
	9000.00	2.16	247.68	100	8998.84	-25.47	25.47 S	46.02 E	52.59	118.96	0.78	0.63	14.27
	9100.00	1.48	209.09	100	9098.79	-27.31	27.31 S	43.65 E	51.49	122.03	1.36	-0.68	-38.59
	9200.00	2.12	267.29	100	9198.75	-28.53	28.53 S	41.17 E	50.09	124.72	1.84	0.64	58.20
	9300.00	2.44	226.49	100	9298.68	-30.08	30.08 S	37.78 E	48.29	128.53	1.62	0.32	-40.80



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 Well: Pecos Valley 7 Federal Com No. 001
 Location: Eddy Co., New Mexico
 Rig: Mast

Job Number: 63965
 Grid Corr.: -0.16
 Lat: 32.24
 Long: -104.03

Calculation Method: Minimum Curvature
 Proposed Azimuth:
 RKB - MSL in feet: Ground
 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)			
	9400.00	2.73	217.17	100	9398.58	-33.44	33.44 S	34.80 E	48.26	133.86	0.51	0.29	-9.32
	9500.00	1.41	218.39	100	9498.51	-36.30	36.30 S	32.59 E	48.79	138.08	1.32	-1.32	1.22
	9600.00	1.40	262.56	100	9598.48	-37.43	37.43 S	30.62 E	48.35	140.71	1.06	-0.01	44.17
	9700.00	2.05	269.96	100	9698.44	-37.59	37.59 S	27.62 E	46.64	143.69	0.69	0.65	7.40
	9800.00	0.84	246.79	100	9798.40	-37.88	37.88 S	25.16 E	45.47	146.41	1.32	-1.21	-23.17
	9900.00	2.81	249.71	100	9898.35	-39.02	39.02 S	22.18 E	44.88	150.38	1.97	1.97	2.92
	10000.00	1.29	275.78	100	9998.28	-39.75	39.75 S	18.76 E	43.96	154.73	1.75	-1.52	26.07
	10100.00	3.01	251.08	100	10098.21	-40.49	40.49 S	15.16 E	43.23	159.47	1.92	1.72	-24.70
	10200.00	1.80	281.56	100	10198.12	-41.03	41.03 S	11.14 E	42.51	164.81	1.72	-1.21	30.48
	10300.00	0.99	140.34	100	10298.11	-41.38	41.38 S	10.15 E	42.60	166.22	2.65	-0.81	-141.22
	10400.00	0.48	358.34	100	10398.11	-41.62	41.62 S	10.69 E	42.97	165.60	1.40	-0.51	218.00
	10483.00	0.67	252.49	83	10481.10	-41.42	41.42 S	10.22 E	42.66	166.15	1.11	0.23	-127.53

Submit to Appropriate
District Office
State Leases - 4 copies
Fee Leases - 3 copies

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-102
Revised 1-1-89

OIL CONSERVATION DIVISION
P.O. Box 2088
Santa Fe, New Mexico 87504-2088

DISTRICT I
P.O. Box 1980, Hobbs, NM 88240

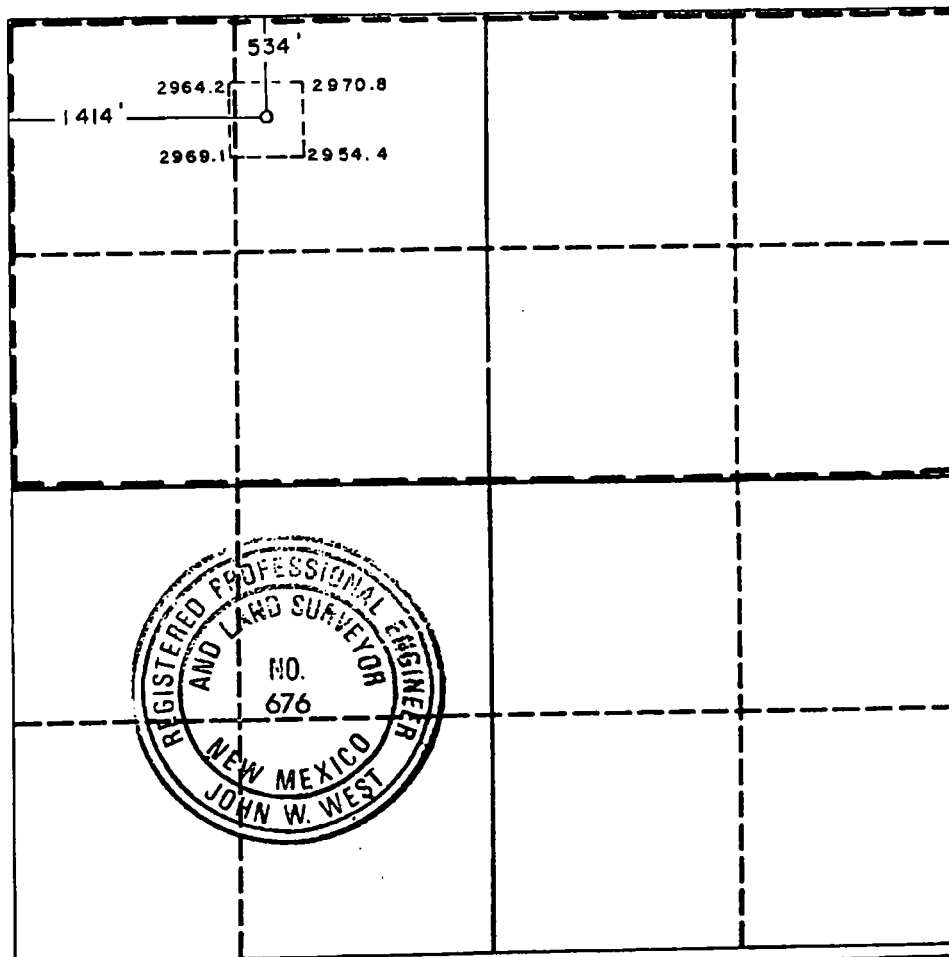
DISTRICT II
P.O. Drawer DD, Artesia, NM 88210

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

WELL LOCATION AND ACREAGE DEDICATION PLAT
All Distances must be from the outer boundaries of the section

Operator COLLINS & WARE INC.			Lease PECOS VALLEY "7"		Well No. 1
Unit Letter C	Section 7	Township 24 SOUTH	Range 29 EAST	County EDDY	
Actual Footage Location of Well: 534 feet from the NORTH line and 1414 feet from the WEST line					
Ground level Elev. 2976.7		Producing Formation ATOKA		Pool UNDES. RUSTLER BLUFF ATOKA	
					Dedicated Acreage: 319.36 Acres

1. Outline the acreage dedicated to the subject well by colored pencil or hatchure marks on the plat below.
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
3. If more than one lease of different ownership is dedicated to the well, have the interest of all owners been consolidated by communitization, unitization, force-pooling, etc.?
☐ Yes ☒ No If answer is "yes" type of consolidation **TO BE COMMUNITIZED**
If answer is "no" list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.)
No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interest, has been approved by the Division.



OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

Signature

Printed Name

Arthur R. Brown

Position

Agent

Company

COLLINS & WARE, INC.

Date

August 28, 1991

SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed

8-7-91

Signature & Seal of
Professional Surveyor

John W. West

Certificate No. **JOHN W. WEST, 676**
RONALD J. EIDSON, 3239