



PHOENIX
TECHNOLOGY SERVICES

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

NM OIL CONSERVATION
ARTESIA DISTRICT
NOV 15 2017

October 27, 2017

RECEIVED

Dear District 2 - Artesia

Re: EOG Resources
Wright JA 5
Eddy Co., NM
API #30-015-24939
Job No. 61970

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. 606018). Other information required by your office is as follows:

Name & Title of Surveyor	Drainhole Number	Surveyed Depths		Dates Performed		Type of Survey
		From	To	Start	End	
Andy Askew	5	0	2,725	10/26/17	10/26/17	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: EOG

Job #: 61970

Well Name: Wright JA 5

County/State: Eddy/ NM

Survey Instrument Type: North Seek Rate Gyro

API # 30-015-24939

TIE-IN DATA

0	0	0	0	0	0	Surface
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First Survey

2017-10-26	0	0	0
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Last Survey

2017-10-26	2725	1.86	317.96
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Projected TD Survey

0	0	0	0	0.02
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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

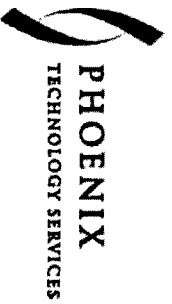
Date:

10/26/17

Print Name: Andy Askew

Signature:

Andy Askew



PHOENIX
TECHNOLOGY SERVICES

Company: EOG
Well: Wright JA 5
Location: Eddy Co., NM
Rig: Pulling Unit

Job Number: 61970
Grid Corr.: 0.02
Lat: 32.70
Long: -104.37

Date: 10-26-17
Calculation Method: Minimum Curvature
Proposed Azimuth: Ground
RKB - MSL in feet: Surface
Tie Into:

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	0.53	234.95	100	100.00	-0.27	0.27 S	0.38 W	0.46	234.95	0.53	0.53	234.95
	125.00	0.66	214.94	25	125.00	-0.45	0.45 S	0.56 W	0.72	231.00	0.97	0.52	-80.04
	150.00	0.71	218.51	25	150.00	-0.69	0.69 S	0.73 W	1.01	226.83	0.26	0.20	14.28
	175.00	0.85	230.92	25	174.99	-0.93	0.93 S	0.98 W	1.35	226.44	0.87	0.56	49.64
	200.00	1.24	250.33	25	199.99	-1.14	1.14 S	1.37 W	1.78	230.43	2.09	1.56	77.64
	225.00	1.17	262.00	25	224.98	-1.26	1.26 S	1.88 W	2.27	236.15	1.02	-0.28	46.68
	250.00	1.33	257.39	25	249.98	-1.36	1.36 S	2.42 W	2.77	240.62	0.76	0.64	-18.44
	275.00	1.36	268.72	25	274.97	-1.43	1.43 S	3.00 W	3.32	244.48	1.07	0.12	45.32
	300.00	1.43	266.70	25	299.96	-1.46	1.46 S	3.60 W	3.89	248.02	0.34	0.28	-8.08
	325.00	1.66	271.01	25	324.95	-1.47	1.47 S	4.28 W	4.52	251.07	1.03	0.92	17.24
	350.00	1.93	277.19	25	349.94	-1.41	1.41 S	5.06 W	5.25	254.45	1.33	1.08	24.72
	375.00	2.53	280.36	25	374.92	-1.26	1.26 S	6.02 W	6.15	258.21	2.45	2.40	12.68
	400.00	3.18	283.13	25	399.89	-1.00	1.00 S	7.24 W	7.31	262.14	2.66	2.60	11.08
	425.00	3.79	283.76	25	424.85	-0.65	0.65 S	8.71 W	8.74	265.77	2.44	2.44	2.52
	450.00	3.94	275.18	25	449.79	-0.37	0.37 S	10.37 W	10.38	267.95	2.39	0.60	-34.32
	475.00	4.77	272.03	25	474.72	-0.26	0.26 S	12.27 W	12.27	268.80	3.45	3.32	-12.60
	500.00	5.10	269.06	25	499.62	-0.24	0.24 S	14.42 W	14.42	269.05	1.67	1.32	-11.88
	525.00	5.60	265.27	25	524.51	-0.36	0.36 S	16.74 W	16.75	268.78	2.45	2.00	-15.16
	550.00	6.07	275.34	25	549.39	-0.33	0.33 S	19.27 W	19.28	269.01	4.50	1.88	40.28
	575.00	6.12	274.21	25	574.24	-0.11	0.11 S	21.92 W	21.92	269.70	0.52	0.20	-4.52
	600.00	6.23	274.29	25	599.10	0.09	0.09 N	24.60 W	24.60	270.20	0.44	0.44	0.32
	625.00	6.33	274.21	25	623.95	0.29	0.29 N	27.33 W	27.33	270.60	0.40	0.40	-0.32
	650.00	6.20	274.56	25	648.80	0.50	0.50 N	30.05 W	30.05	270.95	0.54	-0.52	1.40
	675.00	6.10	275.22	25	673.66	0.73	0.73 N	32.72 W	32.73	271.27	0.49	-0.40	2.64
	700.00	6.11	276.90	25	698.51	1.01	1.01 N	35.36 W	35.38	271.63	0.72	0.04	6.72
	725.00	6.62	280.36	25	723.36	1.42	1.42 N	38.10 W	38.13	272.14	2.55	2.04	13.84
	750.00	6.93	281.27	25	748.19	1.98	1.98 N	41.00 W	41.04	272.76	1.31	1.24	3.64



PHOENIX

TECHNOLOGY SERVICES

Company: EOG
Well: Wright JA 5
Location: Eddy Co., NM
Rig: Pulling Unit

Job Number: 61970
Grid Corr.: 0.02
Lat: 32.70
Long: -104.37

Calculation Method: Minimum Curvature
Proposed Azimuth: RKB - MSL in feet:
Tie Info: Ground
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')
	775.00	6.91	281.90	25	773.00	2.58	2.58 N	43.95 W	44.02	273.36	0.31	-0.08	2.52
	800.00	7.11	283.40	25	797.82	3.25	3.25 N	46.92 W	47.04	273.96	1.08	0.80	6.00
	825.00	7.23	285.06	25	822.62	4.02	4.02 N	49.95 W	50.11	274.60	0.96	0.48	6.64
	850.00	7.05	283.25	25	847.43	4.78	4.78 N	52.96 W	53.18	275.16	1.15	-0.72	-7.24
	875.00	6.81	283.76	25	872.24	5.48	5.48 N	55.89 W	56.16	275.60	0.99	-0.96	2.04
	900.00	6.52	285.44	25	897.08	6.21	6.21 N	58.70 W	59.03	276.04	1.40	-1.16	6.72
	925.00	6.20	285.13	25	921.92	6.94	6.94 N	61.37 W	61.76	276.46	1.29	-1.28	-1.24
	950.00	5.83	287.66	25	946.78	7.68	7.68 N	63.89 W	64.35	276.86	1.82	-1.48	10.12
	975.00	5.50	288.33	25	971.66	8.44	8.44 N	66.23 W	66.77	277.27	1.35	-1.32	2.68
	1000.00	5.52	288.73	25	996.55	9.21	9.21 N	68.51 W	69.12	277.65	0.17	0.08	1.60
	1025.00	5.22	289.76	25	1021.44	9.98	9.98 N	70.72 W	71.42	278.03	1.26	-1.20	4.12
	1050.00	5.21	291.29	25	1046.33	10.77	10.77 N	72.85 W	73.64	278.41	0.56	-0.04	6.12
	1075.00	5.03	291.76	25	1071.23	11.59	11.59 N	74.92 W	75.81	278.80	0.74	-0.72	1.88
	1100.00	5.25	293.40	25	1096.13	12.45	12.45 N	76.99 W	77.99	279.19	1.06	0.88	6.56
	1125.00	4.91	288.82	25	1121.03	13.25	13.25 N	79.05 W	80.15	279.52	2.12	-1.36	-18.32
	1150.00	4.84	293.17	25	1145.94	14.01	14.01 N	81.03 W	82.24	279.81	1.50	-0.28	17.40
	1175.00	4.87	292.10	25	1170.85	14.83	14.83 N	82.99 W	84.30	280.13	0.38	0.12	-4.28
	1200.00	4.60	292.20	25	1195.77	15.61	15.61 N	84.90 W	86.32	280.42	1.08	-1.08	0.40
	1225.00	4.48	294.31	25	1220.69	16.39	16.39 N	86.72 W	88.25	280.70	0.82	-0.48	8.44
	1250.00	4.77	292.32	25	1245.61	17.18	17.18 N	88.57 W	90.22	280.98	1.33	1.16	-7.96
	1275.00	4.67	291.27	25	1270.52	17.95	17.95 N	90.48 W	92.24	281.22	0.53	-0.40	-4.20
	1300.00	4.50	287.61	25	1295.44	18.61	18.61 N	92.36 W	94.22	281.39	1.35	-0.68	-14.64
	1325.00	4.41	294.78	25	1320.37	19.31	19.31 N	94.17 W	96.13	281.59	2.26	-0.36	28.68
	1350.00	4.41	297.42	25	1345.30	20.16	20.16 N	95.89 W	97.99	281.87	0.81	0.00	10.56
	1375.00	4.34	300.79	25	1370.22	21.08	21.08 N	97.56 W	99.81	282.20	1.07	-0.28	13.48
	1400.00	4.24	305.00	25	1395.15	22.10	22.10 N	99.13 W	101.56	282.57	1.32	-0.40	16.84
	1425.00	3.89	308.37	25	1420.09	23.16	23.16 N	100.55 W	103.18	282.97	1.69	-1.40	13.48
	1450.00	3.91	288.15	25	1445.03	23.95	23.95 N	102.03 W	104.80	283.21	5.47	0.08	-80.88
	1475.00	3.75	288.24	25	1469.98	24.47	24.47 N	103.61 W	106.46	283.29	0.64	-0.64	0.36
	1500.00	3.89	295.15	25	1494.92	25.08	25.08 N	105.16 W	108.11	283.42	1.92	0.56	27.64



PHOENIX

TECHNOLOGY SERVICES

Company: EOG
Well: Wright JA 5
Location: Eddy Co., NM
Rig: Pulling Unit

Job Number: 61970
Grid Corr.: 0.02
Lat: 32.70
Long: -104.37

Calculation Method: Minimum Curvature
Proposed Azimuth:
RKB - MSL in feet: Ground
Tie Info: 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')
	1525.00	3.87	302.64	25	1519.86	25.90	25.90 N	106.63 W	109.73	283.65	2.03	-0.08	29.96
	1550.00	3.63	301.83	25	1544.81	26.77	26.77 N	108.02 W	111.29	283.92	0.98	-0.96	-3.24
	1575.00	3.56	302.09	25	1569.76	27.60	27.60 N	109.35 W	112.78	284.17	0.29	-0.28	1.04
	1600.00	3.35	301.46	25	1594.72	28.40	28.40 N	110.63 W	114.21	284.40	0.85	-0.84	-2.52
	1625.00	3.17	301.87	25	1619.68	29.14	29.14 N	111.84 W	115.57	284.61	0.73	-0.72	1.64
	1650.00	3.19	297.58	25	1644.64	29.83	29.83 N	113.04 W	116.91	284.78	0.96	0.08	-17.16
	1675.00	3.05	301.21	25	1669.60	30.50	30.50 N	114.23 W	118.23	284.95	0.97	-0.56	14.52
	1700.00	3.31	292.06	25	1694.56	31.11	31.11 N	115.46 W	119.58	285.08	2.28	1.04	-36.60
	1725.00	3.20	292.44	25	1719.52	31.65	31.65 N	116.78 W	120.99	285.16	0.45	-0.44	1.52
	1750.00	3.03	292.10	25	1744.48	32.16	32.16 N	118.04 W	122.34	285.24	0.68	-0.68	-1.36
	1775.00	2.81	294.37	25	1769.45	32.67	32.67 N	119.21 W	123.60	285.32	0.99	-0.88	9.08
	1800.00	2.92	289.62	25	1794.42	33.13	33.13 N	120.36 W	124.84	285.39	1.05	0.44	-19.00
	1825.00	2.75	286.84	25	1819.39	33.52	33.52 N	121.54 W	126.08	285.42	0.87	-0.68	-11.12
	1850.00	2.94	286.16	25	1844.36	33.87	33.87 N	122.73 W	127.32	285.43	0.77	0.76	-2.72
	1875.00	2.91	282.96	25	1869.33	34.19	34.19 N	123.96 W	128.59	285.42	0.66	-0.12	-12.80
	1900.00	2.61	283.91	25	1894.30	34.47	34.47 N	125.13 W	129.79	285.40	1.21	-1.20	3.80
	1925.00	2.60	281.36	25	1919.27	34.72	34.72 N	126.24 W	130.93	285.38	0.47	-0.04	-10.20
	1950.00	2.68	287.98	25	1944.25	35.01	35.01 N	127.35 W	132.08	285.37	1.26	0.32	26.48
	1975.00	2.57	283.12	25	1969.22	35.32	35.32 N	128.45 W	133.22	285.37	0.99	-0.44	-19.44
	2000.00	2.44	290.31	25	1994.20	35.63	35.63 N	129.50 W	134.31	285.38	1.36	-0.52	28.76
	2025.00	2.49	281.32	25	2019.17	35.92	35.92 N	130.53 W	135.38	285.39	1.56	0.20	-35.96
	2050.00	2.29	287.84	25	2044.15	36.18	36.18 N	131.54 W	136.42	285.38	1.35	-0.80	26.08
	2075.00	2.44	285.86	25	2069.13	36.48	36.48 N	132.53 W	137.46	285.39	0.68	0.60	-7.92
	2100.00	2.24	289.18	25	2094.11	36.79	36.79 N	133.50 W	138.48	285.41	0.97	-0.80	13.28
	2125.00	2.18	294.27	25	2119.09	37.14	37.14 N	134.39 W	139.43	285.45	0.82	-0.24	20.36
	2150.00	1.94	296.15	25	2144.07	37.52	37.52 N	135.21 W	140.32	285.51	1.00	-0.96	7.52
	2175.00	1.95	295.03	25	2169.06	37.89	37.89 N	135.97 W	141.15	285.57	0.16	0.04	-4.48
	2200.00	2.14	289.64	25	2194.04	38.23	38.23 N	136.80 W	142.04	285.61	1.08	0.76	-21.56
	2225.00	2.07	293.28	25	2219.03	38.56	38.56 N	137.65 W	142.95	285.65	0.60	-0.28	14.56
	2250.00	2.04	295.72	25	2244.01	38.94	38.94 N	138.47 W	143.84	285.71	0.37	-0.12	9.76



PHOENIX
TECHNOLOGY SERVICES

Company: EOG
Well: Wright JA 5
Location: Eddy Co., NM
Rig: Pulling Unit

Job Number: 61970
Grid Corr.: 0.02
Lat: 32.70
Long: -104.37

Calculation Method: Minimum Curvature
Proposed Azimuth:
RKB - MSL in feet: Ground
Tie Info: 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')
	2275.00	1.95	293.28	25	2269.00	39.30	39.30 N	139.26 W	144.70	285.76	0.49	-0.36	-9.76
	2300.00	2.02	294.99	25	2293.98	39.65	39.65 N	140.05 W	145.55	285.81	0.37	0.28	6.84
	2325.00	1.81	296.61	25	2318.97	40.01	40.01 N	140.80 W	146.38	285.86	0.87	-0.84	6.48
	2350.00	1.70	297.33	25	2343.95	40.36	40.36 N	141.48 W	147.13	285.92	0.45	-0.44	2.88
	2375.00	1.66	292.80	25	2368.94	40.67	40.67 N	142.15 W	147.85	285.97	0.55	-0.16	-18.12
	2400.00	1.49	298.69	25	2393.93	40.97	40.97 N	142.77 W	148.53	286.01	0.94	-0.68	23.56
	2425.00	1.65	297.69	25	2418.92	41.29	41.29 N	143.37 W	149.20	286.07	0.65	0.64	-4.00
	2450.00	1.44	304.14	25	2443.92	41.63	41.63 N	143.95 W	149.85	286.13	1.09	-0.84	25.80
	2475.00	1.68	300.99	25	2468.91	42.00	42.00 N	144.52 W	150.50	286.20	1.02	0.96	-12.60
	2500.00	1.61	300.76	25	2493.90	42.37	42.37 N	145.14 W	151.20	286.27	0.28	-0.28	-0.92
	2525.00	1.41	314.62	25	2518.89	42.76	42.76 N	145.66 W	151.81	286.36	1.66	-0.80	55.44
	2550.00	1.64	314.02	25	2543.88	43.23	43.23 N	146.14 W	152.40	286.48	0.92	0.92	-2.40
	2575.00	1.71	312.05	25	2568.87	43.73	43.73 N	146.67 W	153.05	286.60	0.36	0.28	-7.88
	2600.00	1.58	324.20	25	2593.86	44.26	44.26 N	147.15 W	153.66	286.74	1.49	-0.52	48.60
	2625.00	1.73	319.65	25	2618.85	44.82	44.82 N	147.60 W	154.25	286.89	0.80	0.60	-18.20
	2650.00	1.55	317.18	25	2643.84	45.36	45.36 N	148.07 W	154.86	287.03	0.77	-0.72	-9.88
	2675.00	1.86	315.48	25	2668.83	45.90	45.90 N	148.58 W	155.51	287.17	1.26	1.24	-6.80
	2700.00	1.73	314.17	25	2693.81	46.45	46.45 N	149.14 W	156.20	287.30	0.55	-0.52	-5.24
	2725.00	1.86	317.96	25	2718.80	47.01	47.01 N	149.68 W	156.89	287.44	0.70	0.52	15.16

/ MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACREAGE DEDICATION PLAT

Form C-102
Supersedes C-128
Effective 1-1-65

All distances must be from the outer boundaries of the Section

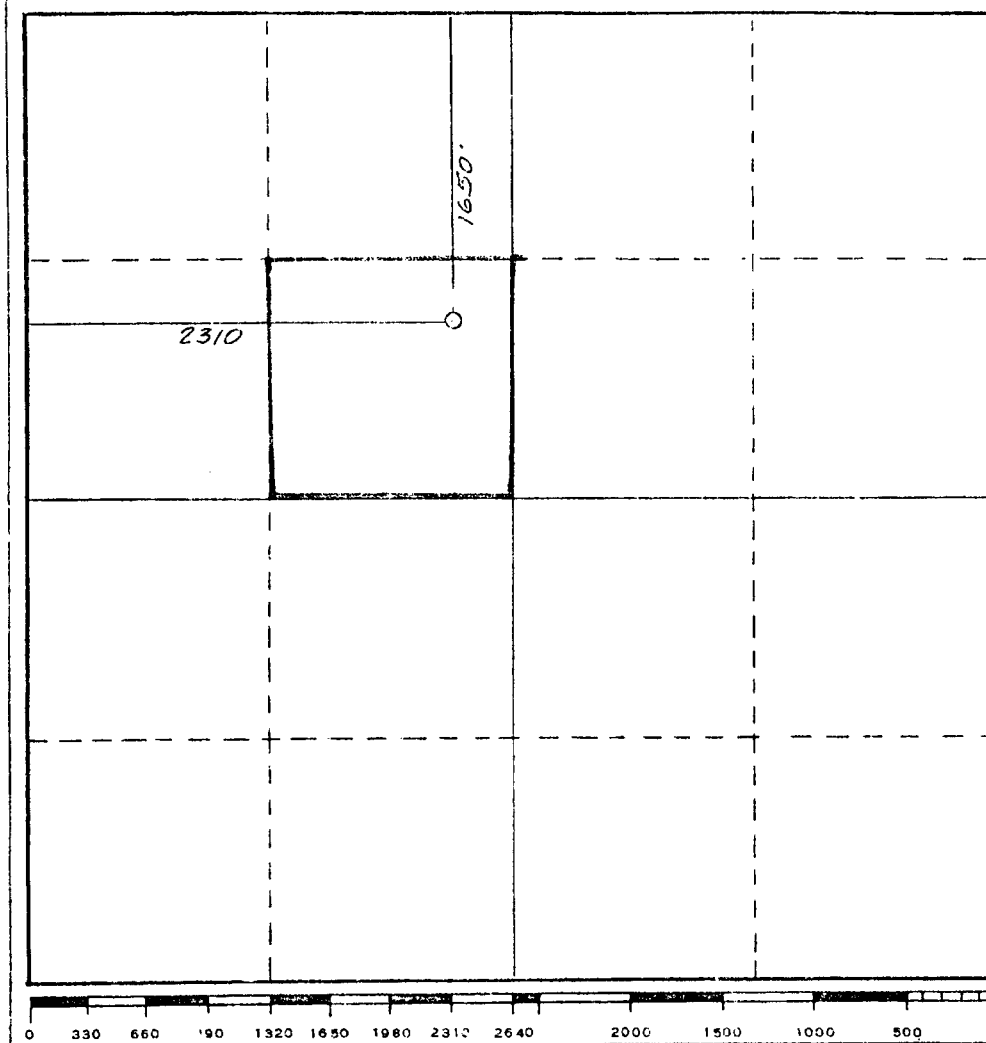
Operator YATES PETROLEUM CORPORATION			Lease Wright JA		Well No. 5
Unit Letter F	Section 34	Township 18 South	Range 26 East	County Eddy	
Actual Footage Location of Well: 1650 feet from the North line and 2310 feet from the West line					
Ground Level Elev. 3358.	Producing Formation Yeso		Pool Atoka Glorieta/Yeso		Dedicated Acreage: 40 Acres

1. Outline the acreage dedicated to the subject well by colored pencil or hachure 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 interests of all owners been consolidated by communitization, unitization, force-pooling, etc?

☐ Yes ☐ No If answer is "yes," type of consolidation _____

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 interests, has been approved by the Commission.



CERTIFICATION

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

Cy Cowan

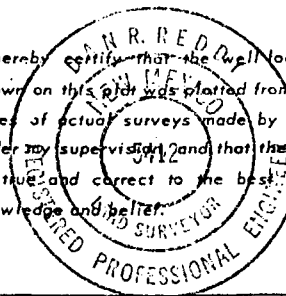
Name
Cy Cowan

Position
Regulatory Agent

Company
Yates Petroleum Corp.

Date
7/24/84

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
July 14, 1984

Registered Professional Engineer
and/or Land Surveyor

Dan R. Reddy

Certificate No.
NM PE&LS #5412