



PHOENIX
TECHNOLOGY SERVICES

October 11, 2017

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

Dear District 2 - Artesia

Re: EOG Resources
Roy AET #2
Eddy Co., NM
API #30-015-26297
Job No. 61382

NM OIL CONSERVATION
ARTESIA DISTRICT

OCT 30 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. 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	
Noe Garza	2	0	7,700	6/13/17	6/13/17	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



Company: EOG

Job #: 61382

Well Name: Roy AET # 2

County/State: Eddy Co., New Mexico

Survey Instrument Type: North Seek Rate Gyro

API # 30-015-26297

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 (°)
2017-06-13	0	0	0

Last Survey

Date	Depth (ft)	Inclination (°)	Azimuth (°)
2017-06-13	7700	1.49	286.58

Projected TD Survey

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

Grid Correction
0.1

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

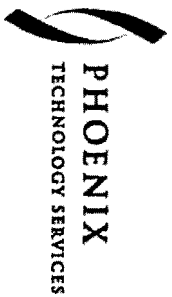
Date:

06-13-17

Print Name: Noe Garza

Signature:

A handwritten signature in black ink, appearing to read 'Noe Garza'.



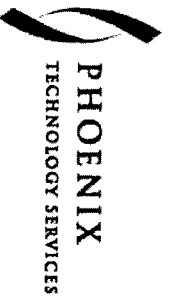
PHOENIX
TECHNOLOGY SERVICES

Company: EOG
Well: Roy AET # 2
Location: Eddy Co., New Mexico
Rig: Pulling Unit

Job Number: 61382
Grid Corr.: 0.10
Lat: 32.670340
Long: -104.513280
Grid Ref: NAD 83

Date: 06-13-17
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)				
FIELD COPY, NON-DEFINITIVE														
Enter Tie-In Survey on Line 10														
TIE IN	0			0	0	0			0					
Gyro	100.00	0.35	220.73	100	100.00	-0.23	0.23 S		0.20 W	0.31	220.73	0.35	0.35	220.73
	200.00	0.60	231.92	100	200.00	-0.79	0.79 S		0.81 W	1.13	225.89	0.27	0.25	11.19
	300.00	0.97	252.83	100	299.99	-1.36	1.36 S		2.03 W	2.44	236.23	0.46	0.37	20.91
	400.00	1.01	271.98	100	399.97	-1.58	1.58 S		3.72 W	4.04	247.02	0.33	0.04	19.15
	500.00	0.95	277.89	100	499.96	-1.43	1.43 S		5.42 W	5.61	255.19	0.12	-0.06	5.91
	600.00	0.72	293.40	100	599.95	-1.07	1.07 S		6.82 W	6.90	261.08	0.32	-0.23	15.51
	700.00	0.39	326.29	100	699.94	-0.54	0.54 S		7.59 W	7.61	265.94	0.45	-0.33	32.89
	800.00	0.23	298.33	100	799.94	-0.16	0.16 S		7.95 W	7.95	268.85	0.22	-0.16	-27.96
	900.00	0.43	323.26	100	899.94	0.24	0.24 N		8.35 W	8.36	271.62	0.24	0.20	24.93
	1000.00	0.16	320.62	100	999.94	0.65	0.65 N		8.67 W	8.69	274.26	0.27	-0.27	-2.64
	1100.00	0.31	306.26	100	1099.94	0.91	0.91 N		8.97 W	9.02	275.81	0.16	0.15	-14.36
	1200.00	0.33	21.38	100	1199.94	1.34	1.34 N		9.09 W	9.18	278.40	0.39	0.02	-284.88
	1300.00	0.23	310.37	100	1299.93	1.74	1.74 N		9.13 W	9.30	280.78	0.34	-0.10	288.99
	1400.00	0.03	156.90	100	1399.93	1.85	1.85 N		9.28 W	9.46	281.25	0.26	-0.20	-153.47
	1500.00	0.14	30.40	100	1499.93	1.93	1.93 N		9.20 W	9.40	281.82	0.16	0.11	-126.50
	1600.00	0.31	0.18	100	1599.93	2.30	2.30 N		9.14 W	9.43	284.14	0.20	0.17	-30.22
	1700.00	0.04	45.44	100	1699.93	2.60	2.60 N		9.12 W	9.48	285.90	0.28	-0.27	45.26
	1800.00	0.33	339.83	100	1799.93	2.89	2.89 N		9.19 W	9.63	287.47	0.32	0.29	294.39
	1900.00	0.24	191.44	100	1899.93	2.96	2.96 N		9.33 W	9.79	287.58	0.55	-0.09	-148.39
	2000.00	0.35	10.21	100	1999.93	3.05	3.05 N		9.32 W	9.81	288.14	0.59	0.11	-181.23
	2100.00	0.12	353.23	100	2099.93	3.46	3.46 N		9.28 W	9.90	290.44	0.24	-0.23	343.02
	2200.00	0.50	68.66	100	2199.93	3.72	3.72 N		8.88 W	9.63	292.72	0.48	0.38	-284.57
	2300.00	0.79	85.47	100	2299.92	3.93	3.93 N		7.79 W	8.73	296.79	0.34	0.29	16.81
	2400.00	0.86	98.06	100	2399.91	3.88	3.88 N		6.36 W	7.45	301.41	0.19	0.07	12.59
	2500.00	0.77	124.23	100	2499.90	3.40	3.40 N		5.06 W	6.10	303.89	0.38	-0.09	26.17
	2600.00	0.86	133.87	100	2599.89	2.50	2.50 N		3.96 W	4.69	302.25	0.16	0.09	9.64
	2700.00	0.76	127.30	100	2699.88	1.58	1.58 N		2.90 W	3.30	298.61	0.14	-0.10	-6.57
	2800.00	0.71	132.97	100	2799.87	0.76	0.76 N		1.91 W	2.06	291.52	0.09	-0.05	5.67



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Company: EOG
Well: Roy AET # 2
Location: Eddy Co., New Mexico
Rig: Pulling Unit

Job Number: 61382
Grid Corr.: 0.10
Lat: 32.670340
Long: -104.513280
Grid Ref: NAD 83

Calculation Method: Minimum Curvature
Proposed Azimuth: RKB - MSL in feet:
Tie Into: 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')
							N/S	E/W	Distance (ft)	Angle (deg)			
	2900.00	0.51	113.88	100	2899.87	0.15	0.15 N	1.05 W	1.07	278.23	0.28	-0.20	-19.09
	3000.00	0.47	125.82	100	2999.86	-0.27	0.27 S	0.31 W	0.41	229.60	0.11	-0.04	11.94
	3100.00	0.41	148.91	100	3099.86	-0.81	0.81 S	0.20 E	0.84	166.01	0.19	-0.06	23.09
	3200.00	0.39	161.94	100	3199.86	-1.44	1.44 S	0.49 E	1.53	161.15	0.09	-0.02	13.03
	3300.00	0.55	157.24	100	3299.86	-2.21	2.21 S	0.78 E	2.35	160.46	0.16	0.16	-4.70
	3400.00	0.38	126.28	100	3399.85	-2.85	2.85 S	1.24 E	3.11	156.53	0.30	-0.17	-30.96
	3500.00	0.12	44.76	100	3499.85	-2.97	2.97 S	1.58 E	3.36	152.02	0.38	-0.26	-81.52
	3600.00	0.07	299.65	100	3599.85	-2.87	2.87 S	1.60 E	3.28	150.84	0.15	-0.05	254.89
	3700.00	0.41	265.41	100	3699.85	-2.86	2.86 S	1.19 E	3.10	157.45	0.35	0.34	-34.24
	3800.00	0.22	92.03	100	3799.85	-2.90	2.90 S	1.02 E	3.08	160.54	0.63	-0.19	-173.38
	3900.00	0.26	250.55	100	3899.85	-2.98	2.98 S	1.00 E	3.15	161.42	0.47	0.04	158.52
	4000.00	0.09	186.06	100	3999.85	-3.14	3.14 S	0.78 E	3.23	166.03	0.24	-0.17	-64.49
	4100.00	0.20	152.95	100	4099.85	-3.37	3.37 S	0.85 E	3.48	165.82	0.13	0.11	-33.11
	4200.00	0.24	131.40	100	4199.85	-3.66	3.66 S	1.09 E	3.82	163.46	0.09	0.04	-21.55
	4300.00	0.21	203.95	100	4299.85	-3.97	3.97 S	1.17 E	4.14	163.57	0.27	-0.03	72.55
	4400.00	0.31	196.45	100	4399.85	-4.40	4.40 S	1.02 E	4.51	166.95	0.11	0.10	-7.50
	4500.00	0.25	115.09	100	4499.84	-4.75	4.75 S	1.14 E	4.88	166.50	0.37	-0.06	-81.36
	4600.00	0.33	223.19	100	4599.84	-5.05	5.05 S	1.14 E	5.18	167.27	0.47	0.08	108.10
	4700.00	0.35	285.92	100	4699.84	-5.18	5.18 S	0.65 E	5.22	172.84	0.35	0.02	62.73
	4800.00	0.13	283.28	100	4799.84	-5.07	5.07 S	0.25 E	5.07	177.22	0.22	-0.22	-2.64
	4900.00	0.39	264.97	100	4899.84	-5.07	5.07 S	0.20 W	5.08	182.30	0.27	0.26	-18.31
	5000.00	0.25	201.65	100	4999.84	-5.30	5.30 S	0.62 W	5.34	186.70	0.36	-0.14	-63.32
	5100.00	0.38	245.00	100	5099.84	-5.65	5.65 S	1.00 W	5.74	190.08	0.26	0.13	43.35
	5200.00	0.64	261.71	100	5199.83	-5.87	5.87 S	1.86 W	6.15	197.56	0.30	0.26	16.71
	5300.00	0.65	246.94	100	5299.83	-6.17	6.17 S	2.93 W	6.83	205.42	0.17	0.01	-14.77
	5400.00	0.45	277.41	100	5399.82	-6.34	6.34 S	3.84 W	7.42	211.22	0.35	-0.20	30.47
	5500.00	0.70	288.27	100	5499.82	-6.10	6.10 S	4.81 W	7.77	218.27	0.27	0.25	10.86
	5600.00	0.77	269.69	100	5599.81	-5.91	5.91 S	6.06 W	8.47	225.73	0.25	0.07	-18.58
	5700.00	0.86	295.41	100	5699.80	-5.59	5.59 S	7.41 W	9.29	232.97	0.37	0.09	25.72
	5800.00	0.74	292.04	100	5799.79	-5.03	5.03 S	8.69 W	10.04	239.94	0.13	-0.12	-3.37
	5900.00	0.51	271.71	100	5899.78	-4.77	4.77 S	9.73 W	10.84	243.88	0.32	-0.23	-20.33



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TECHNOLOGY SERVICES

Company: EOG
Well: Roy AET # 2
Location: Eddy Co., New Mexico
Rig: Pulling Unit

Job Number: 61382
Grid Corr.: 0.10
Lat: 32.670340
Long: -104.513280
Grid Ref: NAD 83

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)			
	6000.00	0.71	280.15	100	5999.78	-4.65	4.65 S	10.79 W	11.75	246.68	0.22	0.20	8.44
	6100.00	0.88	291.72	100	6099.77	-4.26	4.26 S	12.11 W	12.84	250.63	0.23	0.17	11.57
	6200.00	0.84	295.14	100	6199.76	-3.66	3.66 S	13.49 W	13.98	254.81	0.07	-0.04	3.42
	6300.00	0.87	297.68	100	6299.75	-3.00	3.00 S	14.83 W	15.13	258.57	0.05	0.03	2.54
	6400.00	0.87	313.14	100	6399.73	-2.13	2.13 S	16.05 W	16.19	262.46	0.23	0.00	15.46
	6500.00	1.32	297.77	100	6499.72	-1.07	1.07 S	17.62 W	17.66	266.53	0.53	0.45	-15.37
	6600.00	1.71	302.18	100	6599.68	0.26	0.26 N	19.91 W	19.91	270.75	0.41	0.39	4.41
	6700.00	1.50	295.19	100	6699.64	1.61	1.61 N	22.35 W	22.41	274.13	0.29	-0.21	-6.99
	6800.00	1.81	267.13	100	6799.60	2.09	2.09 N	25.12 W	25.20	274.76	0.86	0.31	-28.06
	6900.00	1.49	255.01	100	6899.56	1.68	1.68 N	27.95 W	28.00	273.43	0.47	-0.32	-12.12
	7000.00	1.71	242.81	100	6999.52	0.66	0.66 N	30.53 W	30.54	271.23	0.40	0.22	-12.20
	7100.00	1.81	255.86	100	7099.48	-0.41	0.41 S	33.39 W	33.39	269.30	0.41	0.10	13.05
	7200.00	1.78	237.24	100	7199.43	-1.64	1.64 S	36.23 W	36.26	267.41	0.58	-0.03	-18.62
	7300.00	1.74	238.15	100	7299.38	-3.28	3.28 S	38.82 W	38.96	265.17	0.05	-0.04	0.91
	7400.00	1.66	228.28	100	7399.34	-5.04	5.04 S	41.19 W	41.50	263.02	0.30	-0.08	-9.87
	7500.00	1.67	227.88	100	7499.29	-6.98	6.98 S	43.36 W	43.91	260.85	0.02	0.01	-0.40
	7600.00	1.23	257.88	100	7599.26	-8.19	8.19 S	45.49 W	46.22	259.80	0.86	-0.44	30.00
	7700.00	1.49	286.58	100	7699.24	-8.04	8.04 S	47.78 W	48.45	260.45	0.72	0.26	28.70

NE MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACREAGE DEDICATION PLAT

Form 17-172
Supersedes 17-128
Effective 1/1/88

All distances must be from the outer boundaries of the Section

Operator YATES PETROLEUM CORPORATION			Lease Roy AET		Well No. 2
Grid Letter M	Section 8	Township 19 South	Range 25 East	County Eddy County, N.M.	
General Well Location of Well:					
710 feet from the South line and		710 feet from the West line			
Ground Level Elev. 3582.	Producing Formation CISCO CANYON	Pool UNDES. N. DASER DRAW UPPER PENN		Estimated Acreage 160	

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 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.

Lat 32.67034 Long -104.51328 NAD83 710 710 FEE	CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief. <i>Clifton R. May</i> By Clifton R. May Position Permit Agent Company Yates Petroleum Corporation Date March 2, 1990
	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 are true and correct to the best of my knowledge and belief. Date Surveyed March 2, 1990 Registered Professional Engineer and/or Land Surveyor <i>Dan R. Reddy</i> Certificate No. NM PE&LS NO. 5412