



**PHOENIX
TECHNOLOGY SERVICES**

December 6, 2018

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

RECEIVED

Dear District 2 - Artesia

DEC 12 2018

Re: EOG Resources
Ross EG Federal No. 4
Eddy Co., New Mexico
API #30-015-26770
Job No. 63938

DISTRICT II-ARTESIA O.C.D.

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	4	0	2,350	12/5/18	12/5/18	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: EOG

Job #: 63938

Well Name: Ross EG Federal No. 4

County/State: Eddy Co., New Mexico

Survey Instrument Type: North Seek Rate Gyro

API # 30-015-26770

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 (°)
2018-12-05	0	0	0

Last Survey

Date	Depth (ft)	Inclination (°)	Azimuth (°)
2018-12-05	2350	1.67	310.69

Projected TD Survey

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

Grid Correction
0.1

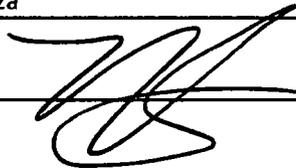
Gyro Operator: Phoenix Technology Services USA Ltd.

Gyro Supervisor: Angel Guebara

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

Date: 12-05-18

Print Name: Noe Garza

Signature: 



Company: EOG
 Well: Ross EG Federal No. 4
 Location: Eddy Co., New Mexico
 Rig: Pulling Unit

Job Number: 63938
 Grid Corr.: 0.10
 Lat: 32.648289
 Long: -104.513390
 Grid Ref: NAD 83

Date: 12-05-18
 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)			
Enter Tie-In Survey on Line 10													
FIELD COPY, NON-DEFINITIVE													
TIE IN	0			0	0	0	0	0					
Gyro	100.00	0.70	5.88	100	100.00	0.61	0.61 N	0.06 E	0.61	5.88	0.70	0.70	5.88
	200.00	0.58	292.45	100	199.99	1.41	1.41 N	0.34 W	1.45	346.33	0.77	-0.12	286.57
	300.00	1.00	357.77	100	299.98	2.47	2.47 N	0.84 W	2.61	341.15	0.92	0.42	65.32
	400.00	0.84	310.18	100	399.97	3.82	3.82 N	1.44 W	4.08	339.36	0.76	-0.16	-47.59
	500.00	0.46	18.14	100	499.97	4.67	4.67 N	1.87 W	5.03	338.15	0.79	-0.38	-292.04
	600.00	0.35	268.86	100	599.97	5.05	5.05 N	2.05 W	5.45	337.86	0.66	-0.11	250.72
	700.00	0.71	342.81	100	699.96	5.63	5.63 N	2.54 W	6.18	335.71	0.70	0.36	73.95
	800.00	0.80	13.20	100	799.95	6.91	6.91 N	2.57 W	7.37	339.62	0.41	0.09	-329.61
	900.00	1.03	298.01	100	899.94	8.01	8.01 N	3.20 W	8.62	338.22	1.13	0.23	284.81
	1000.00	1.18	305.46	100	999.93	9.03	9.03 N	4.83 W	10.24	331.84	0.21	0.15	7.45
	1100.00	0.95	314.14	100	1099.91	10.20	10.20 N	6.27 W	11.97	328.44	0.28	-0.23	8.68
	1200.00	0.44	317.59	100	1199.90	11.06	11.06 N	7.12 W	13.16	327.24	0.51	-0.51	3.45
	1300.00	0.59	324.11	100	1299.90	11.76	11.76 N	7.68 W	14.05	326.86	0.16	0.15	6.52
	1400.00	1.21	319.48	100	1399.88	12.98	12.98 N	8.67 W	15.61	326.27	0.62	0.62	-4.63
	1500.00	1.33	306.83	100	1499.86	14.48	14.48 N	10.28 W	17.76	324.62	0.30	0.12	-12.65
	1600.00	1.42	296.42	100	1599.83	15.73	15.73 N	12.32 W	19.98	321.92	0.27	0.09	-10.41
	1700.00	1.56	312.03	100	1699.80	17.19	17.19 N	14.44 W	22.45	319.97	0.43	0.14	15.61
	1800.00	1.15	325.34	100	1799.77	18.93	18.93 N	16.02 W	24.80	319.75	0.51	-0.41	13.31
	1900.00	1.65	302.39	100	1899.74	20.52	20.52 N	17.81 W	27.18	319.05	0.74	0.50	-22.95
	2000.00	1.50	321.25	100	1999.70	22.32	22.32 N	19.85 W	29.86	318.35	0.54	-0.15	18.86
	2100.00	1.51	323.71	100	2099.67	24.40	24.40 N	21.44 W	32.48	318.69	0.07	0.01	2.46
	2200.00	1.28	328.68	100	2199.64	26.42	26.42 N	22.81 W	34.90	319.19	0.26	-0.23	4.97
	2300.00	1.56	322.52	100	2299.61	28.45	28.45 N	24.21 W	37.36	319.60	0.32	0.28	-6.16
	2350.00	1.67	310.69	50	2349.59	29.46	29.46 N	25.18 W	38.76	319.48	0.70	0.22	-23.66

Submit to Appropriate District Office
 State Lease - 4 copies
 Fee Lease - 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

RECEIVED
 JUN 20 1991
 O. C. D.
 ARTESIA, OFFICE

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

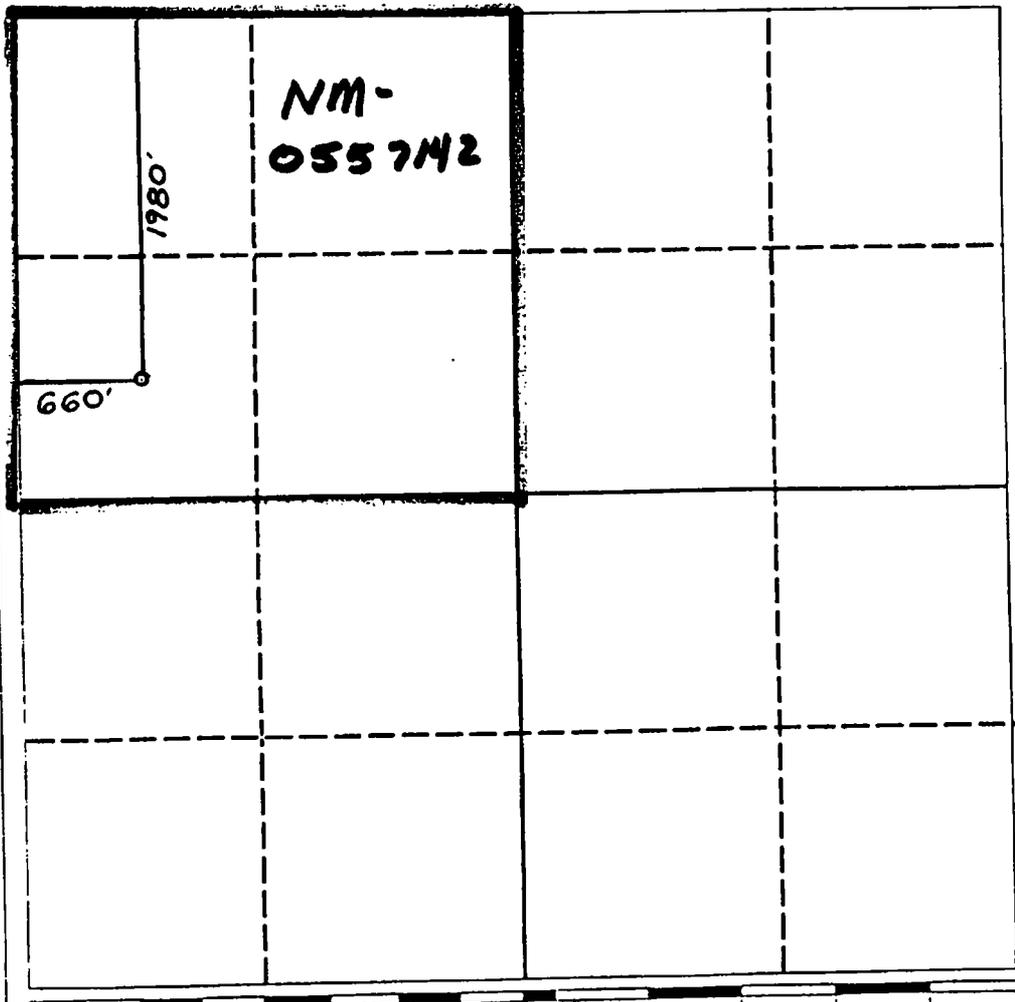
DISTRICT II
 P.O. Drawer DD, Artesia, NM 88210

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 YATES PETROLEUM CORPORATION			Lease ROSS EG FEDERAL			Well No. 4		
Unit Letter E	Section 20	Township 19 SOUTH	Range 25 EAST	County NMPM		EDDY COUNTY, N.M.		
Actual Footage Location of Well: 1980 feet from the NORTH line and 660 feet from the WEST line								
Ground level Elev. 3567.		Producing Formation Canyon			Pool N. Dagger Draw Upper Penn		Dedicated Acreage: 160 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 interest 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 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: *Ken Beardemphl*
 Printed Name: **Ken Beardemphl**
 Position: **Landman**
 Company: **Yates Petroleum Corp.**
 Date: **5-29-91**

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: **MAY 21, 1991**
 Signature: *[Signature]*
 Professional Surveyor: **5412**
 Seal of D D Y
 NEW MEXICO
 REGISTERED PROFESSIONAL SURVEYOR
 5412

