



**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: _____

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



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

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

RECEIVED

JUN 20 1991

O. C. D.
ARTESIA, OFFICE

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.?

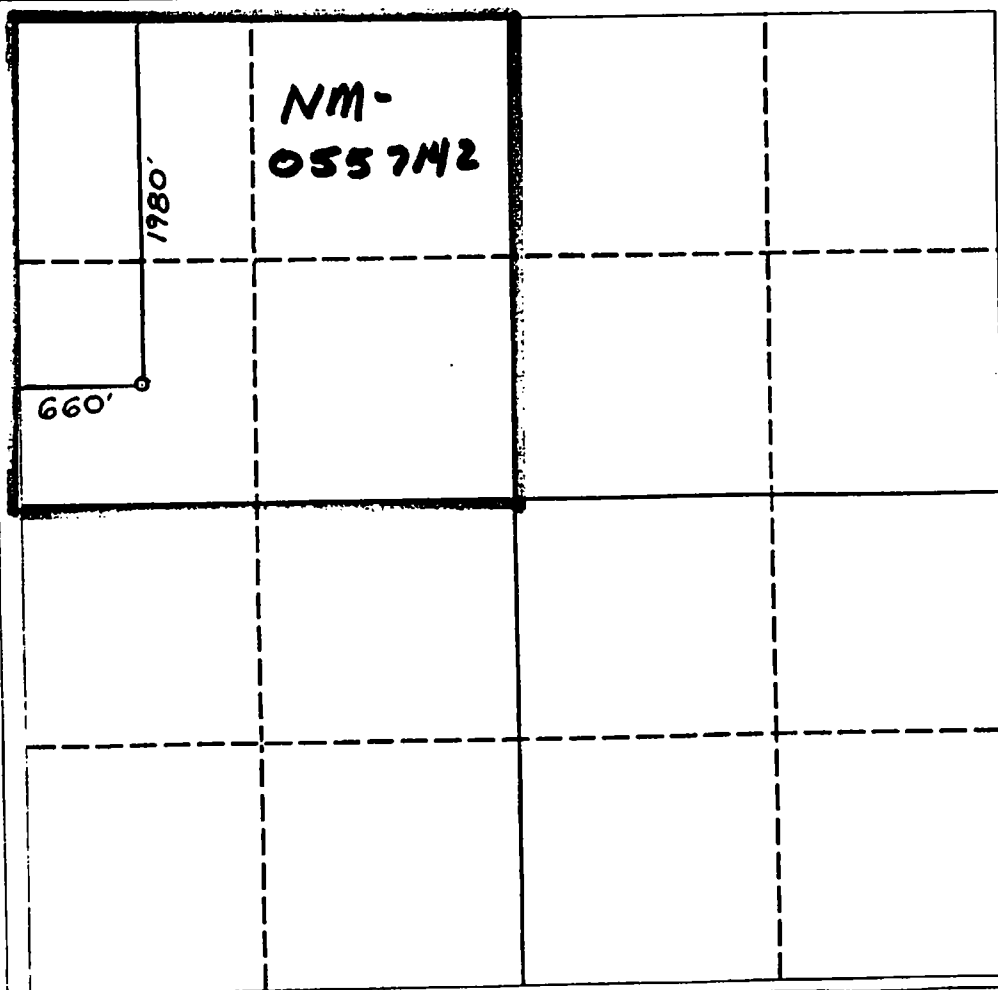
☐ Yes

☒ 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

Printed Name

Ken Beardemphl

Position

Landman

Company

Yates Petroleum Corp.

Date

5-29-91

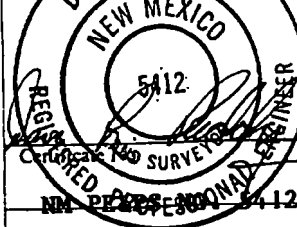
SURVEYOR CERTIFICATION

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 of Seal of D D Y
Professional Surveyor



NM PROFESSIONAL SURVEYOR 5412

0 330 660 990 1320 1650 1980 2310 2640 2000 1500 1000 500 0

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

RECEIVED
MAR 26 2014
NMOCD ARTESIA

Form C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office
☐ AMENDED REPORT

¹ API Number 30-015-26770	² Pool Code 97565	³ Pool Name N. Seven Rivers; Glorieta-Yeso
⁴ Property Code 39266	⁵ Property Name Ross EG Federal	⁶ Well Number 4
⁷ OGRID No. 025575	⁸ Operator Name Yates Petroleum Corporation	⁹ Elevation 3,567' GR

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
E	20	19S	25E		1980	North	.660	West	Eddy

UL or lot no.	Section	Township	Range	Lot-Idn	Feet from the	North/South line	Feet from the	East/West line	County
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¹² Dedicated Acres 40	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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16					17 OPERATOR CERTIFICATION <i>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or released mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</i>
	1980'				<u>Laura Watts</u> 3/25/14 Signature Date
					<u>Laura Watts</u> Printed Name
	660'				<u>laura@vntspetroleum.com</u> E-mail Address
					18 SURVEYOR CERTIFICATION <i>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 belief.</i>
					Date of Survey
					Signature and Seal of Professional Surveyor:
					Certificate Number