PHOENIX
TECHNOLOGY SERVICES

October 12, 2017

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

NM OIL CONSERVATION
ARTESIA DISTRICT
OCT 25 2017
RECEIVED

Dear District 2 - Artesia

Re: EOG Resources
Patrick API 4
Eddy Co., NM
API #30-015-28982
Job No. 61345

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	7,650	6/7/17	6/7/17	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

1805 Brittmoore Rd. Houston, TX 77043 • Phone (713) 337-0600 • Fax (713) 337-0599
www.phxtech.com

SURVEY CERTIFICATION FORM

PHOENIX TECHNOLOGY SERVICES

3610 Elkins Road Midland, TX 79705 t:432-684-0057 f: 432-686-7964

Company: EOG

Job #: 61345

Well Name: Patrick API 4

County/State: Eddy Co., New Mexico

Survey Instrument Type: North Seek Rate Gyro

API # 30-015-28982

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 (°)
2017-06-07	0	0	0

Last Survey

Date	Depth (ft)	Inclination (°)	Azimuth (°)
2017-06-07	7650	1.7	158.7

Projected TD Survey

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

Grid Correction
0.08

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: 06.07.17

Print Name: Noe Garza

Signature:

PHOENIX
TECHNOLOGY SERVICES

Company: EOG
Well: Patrick API 4
Location: Eddy Co., New Mexico
Rig: Pulling Unit

Job Number: 61345
Grid Corr.: 0.08
Lat: 32.68
Long: -104.48

Date: 06-07-17
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 N/S (ft)	Coordinates E/W (ft)	Closure Distance (ft)	Closure Angle (deg)	Dogleg Severity (d/100')	Build Rate (d/100')	Walk Rate (d/100')
Enter Tie-In Survey on Line 10						**FIELD COPY, NON-DEFINITIVE**							
TIE IN				0	0	0	0	0					
Gyro	100.00	0.51	89.81	100	100.00	0.00	0.00 N	0.45 E	0.45	89.81	0.51	0.51	89.81
	200.00	0.74	90.95	100	199.99	-0.01	0.01 S	1.54 E	1.54	90.29	0.23	0.23	1.14
	300.00	0.97	125.39	100	299.98	-0.51	0.51 S	2.87 E	2.92	100.05	0.55	0.23	34.44
	400.00	1.33	80.54	100	399.96	-0.81	0.81 S	4.71 E	4.78	99.74	0.94	0.36	-44.85
	500.00	0.73	161.39	100	499.95	-1.22	1.22 S	6.05 E	6.18	101.40	1.41	-0.60	80.85
	600.00	1.11	183.74	100	599.94	-2.79	2.79 S	6.19 E	6.79	114.26	0.52	0.38	22.35
	700.00	1.52	171.28	100	699.91	-5.07	5.07 S	6.33 E	8.11	128.68	0.50	0.41	-12.46
	800.00	2.10	161.42	100	799.86	-8.12	8.12 S	7.12 E	10.80	138.75	0.66	0.58	-9.86
	900.00	2.80	172.01	100	899.77	-12.27	12.27 S	8.04 E	14.67	146.77	0.83	0.70	10.59
	1000.00	3.05	178.54	100	999.64	-17.35	17.35 S	8.45 E	19.30	154.04	0.42	0.25	6.53
	1100.00	2.64	181.26	100	1099.52	-22.31	22.31 S	8.47 E	23.86	159.22	0.43	-0.41	2.72
	1200.00	2.45	185.83	100	1199.42	-26.74	26.74 S	8.20 E	27.97	162.96	0.28	-0.19	4.57
	1300.00	2.25	190.60	100	1299.33	-30.80	30.80 S	7.62 E	31.73	166.10	0.28	-0.20	4.77
	1400.00	2.40	186.14	100	1399.25	-34.81	34.81 S	7.03 E	35.51	168.58	0.23	0.15	-4.46
	1500.00	2.24	183.53	100	1499.17	-38.84	38.84 S	6.69 E	39.41	170.23	0.19	-0.16	-2.61
	1600.00	1.99	189.48	100	1599.10	-42.50	42.50 S	6.28 E	42.97	171.59	0.33	-0.25	5.95
	1700.00	2.16	182.21	100	1699.04	-46.10	46.10 S	5.92 E	46.48	172.68	0.31	0.17	-7.27
	1800.00	1.93	179.57	100	1798.97	-49.67	49.67 S	5.86 E	50.01	173.27	0.25	-0.23	-2.64
	1900.00	1.91	185.21	100	1898.92	-53.01	53.01 S	5.73 E	53.32	173.83	0.19	-0.02	5.64
	2000.00	1.90	180.62	100	1998.86	-56.33	56.33 S	5.56 E	56.60	174.37	0.15	-0.01	-4.59
	2100.00	1.67	176.72	100	2098.81	-59.44	59.44 S	5.62 E	59.70	174.60	0.26	-0.23	-3.90
	2200.00	1.44	188.83	100	2198.78	-62.14	62.14 S	5.51 E	62.38	174.93	0.40	-0.23	12.11
	2300.00	1.56	190.16	100	2298.74	-64.72	64.72 S	5.08 E	64.92	175.51	0.12	0.12	1.33
	2400.00	1.37	182.51	100	2398.71	-67.25	67.25 S	4.79 E	67.42	175.93	0.27	-0.19	-7.65
	2500.00	1.15	194.95	100	2498.68	-69.42	69.42 S	4.48 E	69.56	176.31	0.35	-0.22	12.44
	2600.00	1.26	182.41	100	2598.66	-71.48	71.48 S	4.17 E	71.60	176.66	0.28	0.11	-12.54
	2700.00	1.24	194.73	100	2698.64	-73.63	73.63 S	3.85 E	73.73	177.01	0.27	-0.02	12.32

PHOENIX
TECHNOLOGY SERVICES

Company:	EOG	Job Number:	61345	Calculation Method:	Minimum Curvature
Well:	Patrick API 4	Grid Corr.:	0.08	Proposed Azimuth:	
Location:	Eddy Co., New Mexico	Lat:	32.68	RKB - MSL in feet:	Ground
Rig:	Pulling Unit	Long:	-104.48	Tie Into:	Surface

Survey Tool Type	Survey Depth (ft)	Inclination (deg)	Azimuth (deg)	Course Length (ft)	True Vertical Depth (ft)	Vertical Section (ft)	Coordinates N/S (ft)	Coordinates E/W (ft)	Closure Distance (ft)	Closure Angle (deg)	Dogleg Severity (d/100')	Build Rate (d/100')	Walk Rate (d/100')
	2800.00	0.65	285.35	100	2798.63	-74.52	74.52 S	3.03 E	74.59	177.67	1.41	-0.59	90.62
	2900.00	1.15	161.87	100	2898.62	-75.33	75.33 S	2.79 E	75.38	177.88	1.60	0.50	-123.48
	3000.00	1.21	196.69	100	2998.60	-77.29	77.29 S	2.80 E	77.34	177.92	0.71	0.06	34.82
	3100.00	0.85	172.10	100	3098.59	-79.04	79.04 S	2.60 E	79.08	178.12	0.56	-0.36	-24.59
	3200.00	0.82	194.54	100	3198.58	-80.47	80.47 S	2.52 E	80.51	178.20	0.33	-0.03	22.44
	3300.00	0.63	212.27	100	3298.57	-81.62	81.62 S	2.05 E	81.65	178.56	0.29	-0.19	17.73
	3400.00	0.45	277.49	100	3398.56	-82.04	82.04 S	1.37 E	82.05	179.05	0.60	-0.18	65.22
	3500.00	0.34	216.46	100	3498.56	-82.23	82.23 S	0.80 E	82.23	179.44	0.41	-0.11	-61.03
	3600.00	0.76	275.17	100	3598.56	-82.40	82.40 S	0.04 W	82.40	180.02	0.65	0.42	58.71
	3700.00	0.55	283.42	100	3698.55	-82.23	82.23 S	1.16 W	82.24	180.81	0.23	-0.21	8.25
	3800.00	0.91	289.33	100	3798.54	-81.86	81.86 S	2.38 W	81.89	181.66	0.37	0.36	5.91
	3900.00	1.40	290.81	100	3898.52	-81.16	81.16 S	4.27 W	81.27	183.01	0.49	0.49	1.48
	4000.00	1.79	290.83	100	3998.48	-80.17	80.17 S	6.87 W	80.47	184.90	0.39	0.39	0.02
	4100.00	1.93	287.09	100	4098.43	-79.12	79.12 S	9.94 W	79.74	187.16	0.19	0.14	-3.74
	4200.00	1.98	287.26	100	4198.37	-78.11	78.11 S	13.20 W	79.22	189.59	0.05	0.05	0.17
	4300.00	1.97	289.10	100	4298.31	-77.04	77.04 S	16.47 W	78.78	192.07	0.06	-0.01	1.84
	4400.00	2.01	292.15	100	4398.25	-75.82	75.82 S	19.72 W	78.34	194.58	0.11	0.04	3.05
	4500.00	2.04	300.68	100	4498.19	-74.25	74.25 S	22.88 W	77.69	197.13	0.30	0.03	8.53
	4600.00	2.02	317.34	100	4598.13	-72.04	72.04 S	25.60 W	76.46	199.56	0.59	-0.02	16.66
	4700.00	2.01	338.60	100	4698.07	-69.11	69.11 S	27.44 W	74.36	201.65	0.74	-0.01	21.26
	4800.00	2.29	354.74	100	4798.00	-65.49	65.49 S	28.26 W	71.33	203.34	0.66	0.28	16.14
	4900.00	2.43	7.14	100	4897.92	-61.40	61.40 S	28.18 W	67.56	204.65	0.53	0.14	-347.60
	5000.00	2.51	8.97	100	4997.82	-57.13	57.13 S	27.58 W	63.44	205.76	0.11	0.08	1.83
	5100.00	2.63	6.06	100	5097.72	-52.69	52.69 S	26.99 W	59.20	207.13	0.18	0.12	-2.91
	5200.00	2.68	359.36	100	5197.61	-48.07	48.07 S	26.78 W	55.02	209.12	0.31	0.05	353.30
	5300.00	2.58	355.90	100	5297.51	-43.49	43.49 S	26.96 W	51.17	211.80	0.19	-0.10	-3.46
	5400.00	2.28	352.89	100	5397.42	-39.27	39.27 S	27.37 W	47.86	214.88	0.33	-0.30	-3.01
	5500.00	2.08	348.86	100	5497.35	-35.51	35.51 S	27.97 W	45.20	218.22	0.25	-0.20	-4.03
	5600.00	1.91	345.43	100	5597.29	-32.12	32.12 S	28.74 W	43.10	221.82	0.21	-0.17	-3.43
	5700.00	1.48	339.45	100	5697.24	-29.30	29.30 S	29.61 W	41.65	225.30	0.46	-0.43	-5.98

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TECHNOLOGY SERVICES

Company:	EOG	Job Number:	61345	Calculation Method:	Minimum Curvature
Well:	Patrick API 4	Grid Corr.:	0.08	Proposed Azimuth:	
Location:	Eddy Co., New Mexico	Lat:	32.68	RKB - MSL in feet:	Ground
Rig:	Pulling Unit	Long:	-104.48	Tie Into:	Surface

Survey Tool Type	Survey Depth (ft)	Inclination (deg)	Azimuth (deg)	Course Length (ft)	True Vertical Depth (ft)	Vertical Section (ft)	Coordinates N/S (ft)	Coordinates E/W (ft)	Closure Distance (ft)	Closure Angle (deg)	Dogleg Severity (d/100')	Build Rate (d/100')	Walk Rate (d/100')
	5800.00	1.41	340.16	100	5797.21	-26.93	26.93 S	30.48 W	40.67	228.54	0.07	-0.07	0.71
	5900.00	1.08	345.22	100	5897.19	-24.86	24.86 S	31.14 W	39.85	231.39	0.35	-0.33	5.06
	6000.00	0.96	351.66	100	5997.17	-23.12	23.12 S	31.50 W	39.07	233.72	0.17	-0.12	6.44
	6100.00	0.80	356.90	100	6097.16	-21.60	21.60 S	31.66 W	38.32	235.70	0.18	-0.16	5.24
	6200.00	0.73	7.25	100	6197.15	-20.27	20.27 S	31.62 W	37.55	237.34	0.15	-0.07	-349.65
	6300.00	0.71	19.74	100	6297.14	-19.05	19.05 S	31.33 W	36.67	238.69	0.16	-0.02	12.49
	6400.00	0.79	37.48	100	6397.13	-17.92	17.92 S	30.70 W	35.55	239.72	0.24	0.08	17.74
	6500.00	0.94	37.44	100	6497.12	-16.72	16.72 S	29.78 W	34.15	240.68	0.15	0.15	-0.04
	6600.00	1.11	47.93	100	6597.11	-15.42	15.42 S	28.56 W	32.46	241.63	0.25	0.17	10.49
	6700.00	0.67	55.80	100	6697.09	-14.45	14.45 S	27.36 W	30.94	242.17	0.46	-0.44	7.87
	6800.00	0.40	356.68	100	6797.09	-13.77	13.77 S	26.90 W	30.22	242.89	0.58	-0.27	300.88
	6900.00	0.46	25.40	100	6897.09	-13.06	13.06 S	26.74 W	29.76	243.98	0.22	0.06	-331.28
	7000.00	0.42	114.93	100	6997.09	-12.85	12.85 S	26.24 W	29.22	243.91	0.62	-0.04	89.53
	7100.00	0.34	133.71	100	7097.08	-13.21	13.21 S	25.69 W	28.89	242.79	0.15	-0.08	18.78
	7200.00	0.53	137.53	100	7197.08	-13.75	13.75 S	25.17 W	28.68	241.34	0.19	0.19	3.82
	7300.00	0.60	192.71	100	7297.08	-14.61	14.61 S	24.97 W	28.93	239.67	0.53	0.07	55.18
	7400.00	0.48	147.21	100	7397.07	-15.47	15.47 S	24.86 W	29.28	238.10	0.43	-0.12	-45.50
	7500.00	1.10	159.63	100	7497.06	-16.72	16.72 S	24.30 W	29.49	235.46	0.64	0.62	12.42
	7600.00	1.89	158.09	100	7597.03	-19.15	19.15 S	23.35 W	30.20	230.64	0.79	0.79	-1.54
	7650.00	1.70	158.70	50	7647.00	-20.61	20.61 S	22.77 W	30.71	227.85	0.38	-0.38	1.22

District I
PO Box 1980, Hobbs, NM 88241-1980
District II
PO Drawer DD, Artesia, NM 88211-0719
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
PO Box 2088, Santa Fe, NM 87504-2088

State of New Mexico
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION
PO Box 2088
Santa Fe, NM 87504-2088

Form C-102
Revised February 10, 1994
Instructions on back
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

[1] API Number	[2] Pool Code	[3] Pool Name
30-015-28982	15472	Dagger Draw, Upper Penn, North

[4] Property Code	[5] Property Name	[6] Well Number
	PATRICK "API"	4

[7] OGRID No.	[8] Operator Name	[9] Elevation
025575	YATES PETROLEUM CORPORATION	3495.

[10] Surface Location

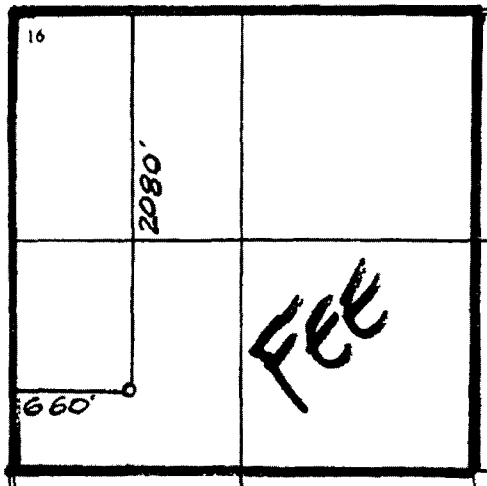
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
E	10	19-S	25-E		2080	NORTH	660	WEST	EDDY

[11] Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County

[12] Dedicated Acres	[13] Joint or Infill	[14] Consolidation Code	[15] Order No.
160			

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION



Lat 32.677345
Long -104.479420
(NAD83)

[17] 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

Title: Landman

Date: 5-17-96

[18] 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 belief.

Date of Survey: MAY 15, 1996

Signature and Seal of Professional Surveyor:

GARY L. JONES
NEW MEXICO
5412
REGISTERED PROFESSIONAL ENGINEER
LAND SURVEYOR

Certificate Number: NM PE&PS NO. 5412