



**PHOENIX
TECHNOLOGY SERVICES**

July 19, 2018

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

RECEIVED

AUG 16 2018

DISTRICT II-ARTESIA O.C.D.

Dear District 2 - Artesia

Re: EOG Resources
Patsy BPJ State Com #2
Chaves Co., New Mexico
API #30-005-27934
Job No. 63127

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	10,500	7/18/18	7/18/18	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



PHOENIX
TECHNOLOGY SERVICES

Company: EOG

Job #: 63127

Well Name: Patsy BPJ State Com # 2

County/State: Chaves Co., New Mexico

Survey Instrument Type: North Seek Rate Gyro

API # 30-005-27934

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 (°)
2018-07-18	0	0	0

Last Survey

Date	Depth (ft)	Inclination (°)	Azimuth (°)
2018-07-18	10500	1.21	256.72

Projected TD Survey

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

Grid Correction
-0.29

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:

07-18-18

Print Name: Noe Garza

Signature:



Company: EOG
 Well: Patsy BPJ State Com # 2
 Location: Chaves Co., New Mexico
 Rig: Pulling Unit

Job Number: 63127
 Grid Corr.: -0.29
 Lat: 33.286500
 Long: -103.798700
 Grid Ref: NAD 83

Date: 07-18-18
 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	0.38	142.26	100	100.00	-0.26	0.26 S	0.20 E	0.33	142.26	0.38	0.38	142.26
	200.00	0.67	146.44	100	199.99	-1.01	1.01 S	0.73 E	1.25	144.22	0.29	0.29	4.18
	300.00	0.70	150.31	100	299.99	-2.03	2.03 S	1.35 E	2.44	146.27	0.06	0.03	3.87
	400.00	0.62	131.52	100	399.98	-2.92	2.92 S	2.06 E	3.57	144.75	0.23	-0.08	-18.79
	500.00	0.37	165.26	100	499.98	-3.59	3.59 S	2.55 E	4.40	144.61	0.37	-0.25	33.74
	600.00	0.44	143.84	100	599.98	-4.21	4.21 S	2.86 E	5.09	145.84	0.17	0.07	-21.42
	700.00	0.62	166.84	100	699.97	-5.05	5.05 S	3.21 E	5.98	147.57	0.28	0.18	23.00
	800.00	0.37	170.82	100	799.97	-5.89	5.89 S	3.38 E	6.80	150.15	0.25	-0.25	3.98
	900.00	0.36	151.13	100	899.96	-6.49	6.49 S	3.59 E	7.41	151.07	0.13	-0.01	-19.69
	1000.00	0.36	240.32	100	999.96	-6.92	6.92 S	3.46 E	7.74	153.40	0.51	0.00	89.19
	1100.00	0.30	123.08	100	1099.96	-7.22	7.22 S	3.41 E	7.98	154.70	0.56	-0.06	-117.24
	1200.00	0.37	155.53	100	1199.96	-7.65	7.65 S	3.76 E	8.53	153.81	0.20	0.07	32.45
	1300.00	0.43	206.70	100	1299.96	-8.28	8.28 S	3.73 E	9.08	155.76	0.35	0.06	51.17
	1400.00	0.57	159.83	100	1399.96	-9.09	9.09 S	3.73 E	9.82	157.67	0.42	0.14	-46.87
	1500.00	0.45	147.34	100	1499.95	-9.88	9.88 S	4.12 E	10.71	157.39	0.16	-0.12	-12.49
	1600.00	0.14	142.63	100	1599.95	-10.31	10.31 S	4.40 E	11.21	156.88	0.31	-0.31	-4.71
	1700.00	0.44	174.36	100	1699.95	-10.79	10.79 S	4.51 E	11.70	157.30	0.33	0.30	31.73
	1800.00	0.32	110.62	100	1799.95	-11.27	11.27 S	4.81 E	12.26	156.88	0.41	-0.12	-63.74
	1900.00	0.18	167.77	100	1899.95	-11.52	11.52 S	5.11 E	12.60	156.09	0.27	-0.14	57.15
	2000.00	0.32	113.18	100	1999.95	-11.79	11.79 S	5.40 E	12.96	155.39	0.26	0.14	-54.59
	2100.00	0.14	232.66	100	2099.94	-11.97	11.97 S	5.56 E	13.20	155.10	0.41	-0.18	119.48
	2200.00	0.23	165.27	100	2199.94	-12.24	12.24 S	5.51 E	13.42	155.76	0.22	0.09	-67.39
	2300.00	0.23	284.41	100	2299.94	-12.38	12.38 S	5.37 E	13.50	156.56	0.40	0.00	119.14
	2400.00	0.10	186.22	100	2399.94	-12.42	12.42 S	5.16 E	13.45	157.42	0.26	-0.13	-98.19
	2500.00	0.30	243.25	100	2499.94	-12.62	12.62 S	4.92 E	13.55	158.70	0.26	0.20	57.03
	2600.00	0.25	323.17	100	2599.94	-12.57	12.57 S	4.56 E	13.37	160.07	0.36	-0.05	79.92
	2700.00	0.08	307.05	100	2699.94	-12.35	12.35 S	4.37 E	13.10	160.52	0.17	-0.17	-16.12
	2800.00	0.15	324.32	100	2799.94	-12.20	12.20 S	4.24 E	12.92	160.85	0.08	0.07	17.27



Company: EOG
 Well: Patsy BPJ State Com # 2
 Location: Chaves Co., New Mexico
 Rig: Pulling Unit

Job Number: 63127
 Grid Corr.: -0.29
 Lat: 33.286500
 Long: -103.798700
 Grid Ref: NAD 83

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)			
	2900.00	0.34	132.95	100	2899.94	-12.30	12.30 S	4.38 E	13.05	160.40	0.49	0.19	-191.37
	3000.00	0.21	22.47	100	2999.94	-12.33	12.33 S	4.67 E	13.18	159.27	0.46	-0.13	-110.48
	3100.00	0.13	73.80	100	3099.94	-12.13	12.13 S	4.84 E	13.06	158.23	0.16	-0.08	51.33
	3200.00	0.19	0.88	100	3199.94	-11.93	11.93 S	4.96 E	12.92	157.44	0.20	0.06	-72.92
	3300.00	0.32	115.91	100	3299.94	-11.89	11.89 S	5.21 E	12.98	156.34	0.44	0.13	115.03
	3400.00	0.29	80.94	100	3399.94	-11.97	11.97 S	5.71 E	13.26	154.49	0.19	-0.03	-34.97
	3500.00	0.17	78.30	100	3499.94	-11.90	11.90 S	6.11 E	13.38	152.84	0.12	-0.12	-2.64
	3600.00	0.22	27.58	100	3599.94	-11.70	11.70 S	6.34 E	13.31	151.55	0.17	0.05	-50.72
	3700.00	0.36	64.38	100	3699.93	-11.39	11.39 S	6.71 E	13.22	149.50	0.23	0.14	36.80
	3800.00	0.35	126.77	100	3799.93	-11.44	11.44 S	7.24 E	13.54	147.67	0.37	-0.01	62.39
	3900.00	0.21	317.79	100	3899.93	-11.49	11.49 S	7.36 E	13.64	147.35	0.56	-0.14	191.02
	4000.00	0.09	150.18	100	3999.93	-11.42	11.42 S	7.28 E	13.54	147.49	0.30	-0.12	-167.61
	4100.00	0.21	64.94	100	4099.93	-11.41	11.41 S	7.48 E	13.65	146.75	0.22	0.12	-85.24
	4200.00	0.28	123.23	100	4199.93	-11.47	11.47 S	7.85 E	13.90	145.60	0.25	0.07	58.29
	4300.00	0.23	178.85	100	4299.93	-11.80	11.80 S	8.06 E	14.29	145.66	0.24	-0.05	55.62
	4400.00	0.04	181.42	100	4399.93	-12.04	12.04 S	8.06 E	14.49	146.18	0.19	-0.19	2.57
	4500.00	0.19	71.22	100	4499.93	-12.02	12.02 S	8.22 E	14.56	145.63	0.21	0.15	-110.20
	4600.00	0.24	110.76	100	4599.93	-12.04	12.04 S	8.57 E	14.78	144.54	0.15	0.05	39.54
	4700.00	0.22	149.99	100	4699.93	-12.28	12.28 S	8.87 E	15.15	144.17	0.16	-0.02	39.23
	4800.00	0.10	333.49	100	4799.93	-12.37	12.37 S	8.92 E	15.25	144.19	0.32	-0.12	183.50
	4900.00	0.07	155.12	100	4899.93	-12.35	12.35 S	8.91 E	15.22	144.18	0.17	-0.03	-178.37
	5000.00	0.06	57.69	100	4999.93	-12.37	12.37 S	8.98 E	15.29	144.03	0.10	-0.01	-97.43
	5100.00	0.28	229.94	100	5099.93	-12.50	12.50 S	8.84 E	15.31	144.75	0.34	0.22	172.25
	5200.00	0.23	300.27	100	5199.93	-12.56	12.56 S	8.48 E	15.15	145.98	0.30	-0.05	70.33
	5300.00	0.16	262.50	100	5299.93	-12.48	12.48 S	8.16 E	14.91	146.80	0.14	-0.07	-37.77
	5400.00	0.11	33.70	100	5399.93	-12.41	12.41 S	8.08 E	14.81	146.94	0.25	-0.05	-228.80
	5500.00	0.44	122.51	100	5499.92	-12.54	12.54 S	8.46 E	15.13	146.01	0.45	0.33	88.81
	5600.00	0.42	199.46	100	5599.92	-13.09	13.09 S	8.66 E	15.70	146.52	0.54	-0.02	76.95
	5700.00	0.27	214.96	100	5699.92	-13.63	13.63 S	8.40 E	16.01	148.35	0.18	-0.15	15.50
	5800.00	0.27	289.58	100	5799.92	-13.75	13.75 S	8.04 E	15.93	149.66	0.33	0.00	74.62
	5900.00	0.30	280.21	100	5899.92	-13.62	13.62 S	7.56 E	15.58	150.95	0.06	0.03	-9.37



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 Location: Chaves Co., New Mexico
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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	0.22	236.57	100	5999.92	-13.68	13.68 S	7.15 E	15.43	152.42	0.21	-0.08	-43.64
	6100.00	0.52	297.11	100	6099.92	-13.58	13.58 S	6.58 E	15.09	154.14	0.45	0.30	60.54
	6200.00	0.51	275.69	100	6199.91	-13.33	13.33 S	5.74 E	14.51	156.72	0.19	-0.01	-21.42
	6300.00	0.35	297.25	100	6299.91	-13.14	13.14 S	5.02 E	14.07	159.09	0.22	-0.16	21.56
	6400.00	0.44	181.09	100	6399.91	-13.39	13.39 S	4.74 E	14.20	160.49	0.67	0.09	-116.16
	6500.00	0.62	251.20	100	6499.90	-13.95	13.95 S	4.22 E	14.57	163.15	0.63	0.18	70.11
	6600.00	0.38	282.40	100	6599.90	-14.05	14.05 S	3.39 E	14.45	166.45	0.35	-0.24	31.20
	6700.00	0.53	273.40	100	6699.90	-13.95	13.95 S	2.60 E	14.19	169.44	0.17	0.15	-9.00
	6800.00	0.55	285.40	100	6799.89	-13.80	13.80 S	1.68 E	13.90	173.07	0.11	0.02	12.00
	6900.00	0.43	276.21	100	6899.89	-13.63	13.63 S	0.84 E	13.65	176.47	0.14	-0.12	-9.19
	7000.00	0.51	271.01	100	6999.89	-13.58	13.58 S	0.02 E	13.58	179.90	0.09	0.08	-5.20
	7100.00	0.44	264.59	100	7099.88	-13.61	13.61 S	0.80 W	13.63	183.38	0.09	-0.07	-6.42
	7200.00	0.54	238.33	100	7199.88	-13.89	13.89 S	1.59 W	13.98	186.52	0.24	0.10	-26.26
	7300.00	0.42	231.92	100	7299.87	-14.36	14.36 S	2.28 W	14.54	189.01	0.13	-0.12	-6.41
	7400.00	0.22	151.67	100	7399.87	-14.76	14.76 S	2.47 W	14.97	189.52	0.44	-0.20	-80.25
	7500.00	0.19	306.04	100	7499.87	-14.83	14.83 S	2.52 W	15.04	189.63	0.40	-0.03	154.37
	7600.00	0.27	238.56	100	7599.87	-14.86	14.86 S	2.85 W	15.13	190.87	0.26	0.08	-67.48
	7700.00	0.35	258.32	100	7699.87	-15.04	15.04 S	3.35 W	15.41	192.57	0.13	0.08	19.76
	7800.00	0.53	216.73	100	7799.87	-15.47	15.47 S	3.93 W	15.96	194.25	0.35	0.18	-41.59
	7900.00	0.65	220.53	100	7899.86	-16.28	16.28 S	4.57 W	16.91	195.70	0.13	0.12	3.80
	8000.00	0.56	201.56	100	7999.86	-17.16	17.16 S	5.12 W	17.91	196.62	0.22	-0.09	-18.97
	8100.00	0.76	211.02	100	8099.85	-18.18	18.18 S	5.64 W	19.04	197.24	0.23	0.20	9.46
	8200.00	0.60	203.52	100	8199.84	-19.23	19.23 S	6.19 W	20.20	197.85	0.18	-0.16	-7.50
	8300.00	0.78	211.41	100	8299.84	-20.29	20.29 S	6.76 W	21.39	198.42	0.20	0.18	7.89
	8400.00	0.40	140.63	100	8399.83	-21.14	21.14 S	6.89 W	22.24	198.05	0.75	-0.38	-70.78
	8500.00	0.35	167.06	100	8499.83	-21.71	21.71 S	6.60 W	22.69	196.91	0.18	-0.05	26.43
	8600.00	0.49	131.19	100	8599.83	-22.29	22.29 S	6.21 W	23.14	195.57	0.29	0.14	-35.87
	8700.00	0.27	238.35	100	8699.83	-22.70	22.70 S	6.09 W	23.50	195.02	0.63	-0.22	107.16
	8800.00	0.51	232.02	100	8799.82	-23.09	23.09 S	6.64 W	24.03	196.04	0.24	0.24	-6.33
	8900.00	0.40	267.00	100	8899.82	-23.39	23.39 S	7.34 W	24.51	197.43	0.29	-0.11	34.98
	9000.00	0.65	273.97	100	8999.82	-23.36	23.36 S	8.25 W	24.78	199.46	0.26	0.25	6.97



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Well: Patsy BPJ State Com # 2
Location: Chaves Co., New Mexico
Rig: Pulling Unit

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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)			
	9100.00	0.82	266.38	100	9099.81	-23.37	23.37 S	9.53 W	25.24	202.20	0.20	0.17	-7.59
	9200.00	0.75	259.61	100	9199.80	-23.53	23.53 S	10.89 W	25.93	204.84	0.12	-0.07	-6.77
	9300.00	0.76	261.70	100	9299.79	-23.75	23.75 S	12.19 W	26.69	207.18	0.03	0.01	2.09
	9400.00	0.77	264.59	100	9399.78	-23.91	23.91 S	13.52 W	27.46	209.49	0.04	0.01	2.89
	9500.00	0.82	280.15	100	9499.77	-23.84	23.84 S	14.89 W	28.11	211.99	0.22	0.05	15.56
	9600.00	0.74	281.69	100	9599.76	-23.59	23.59 S	16.23 W	28.63	214.53	0.08	-0.08	1.54
	9700.00	0.61	278.56	100	9699.75	-23.38	23.38 S	17.39 W	29.13	216.64	0.14	-0.13	-3.13
	9800.00	0.60	261.11	100	9799.75	-23.38	23.38 S	18.43 W	29.77	218.25	0.18	-0.01	-17.45
	9900.00	0.57	246.74	100	9899.74	-23.66	23.66 S	19.40 W	30.60	219.36	0.15	-0.03	-14.37
	10000.00	0.40	238.04	100	9999.74	-24.04	24.04 S	20.16 W	31.37	219.98	0.18	-0.17	-8.70
	10100.00	0.44	208.58	100	10099.74	-24.56	24.56 S	20.64 W	32.08	220.04	0.22	0.04	-29.46
	10200.00	0.79	214.06	100	10199.73	-25.47	25.47 S	21.21 W	33.14	219.79	0.35	0.35	5.48
	10300.00	0.59	226.28	100	10299.72	-26.39	26.39 S	21.97 W	34.34	219.77	0.25	-0.20	12.22
	10400.00	0.94	237.42	100	10399.71	-27.19	27.19 S	23.03 W	35.63	220.26	0.38	0.35	11.14
	10500.00	1.21	256.72	100	10499.70	-27.88	27.88 S	24.75 W	37.28	221.60	0.45	0.27	19.30

RECEIVED

State of New Mexico

Energy, Minerals & Natural Resources Department
3 2019 OIL CONSERVATION DIVISION

1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-102

Revised August 1, 2011

Submit one copy to appropriate
District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

1 API Number 30-005-27934		2 Pool Code 98048		3 Pool Name WC - 005 G-05 Wildcat, Strawn <GAS>	
4 Property Code 38051		5 Property Name Patsy BPJ State Com			
6 OGRID No. 025575		7 Operator Name Yates Petroleum Corporation			
				8 Well Number 2	
				9 Elevation 4440' GR	

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
M	11	12S	31E		660	South	660	West	Chaves

" 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
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¹² Dedicated Acres 320	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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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.

				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 unleased 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> <u>Laura Watts</u> September 19, 2013 Signature Date <u>Laura Watts</u> Printed Name <u>laura@vntepetroleum.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.
660'W 510'S				_____ Certificate Number

ELG 9-25-2013

SEP 25 2013