



PHOENIX
TECHNOLOGY SERVICES

July 19, 2017

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

Dear District 2 - Artesia

Re: EOG Resources
State CO Com 4
Eddy Co., NM
API #30-015-26300
Job No. 61475

NM OIL CONSERVATION
ARTESIA DISTRICT

AUG 09 2017

RECEIVED

Run during P&A procedure.

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	7,200	7/5/17	7/5/17	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



PHOENIX
TECHNOLOGY SERVICES

Company: EOG

Job #: 61475

Well Name: State Co Com 4

County/State: Eddy Co., New Mexico

Survey Instrument Type: North Seek Rate Gyro

API # 30-015-26300

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 (°)
2017-07-05	0	0	0

Last Survey

Date	Depth (ft)	Inclination (°)	Azimuth (°)
2017-07-05	7200	0.25	338.27

Projected TD Survey

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

Grid Correction
0.11

Gyro Operator: Phoenix Technology Services USA Ltd.

Gyro Supervisor: Angel Guebara

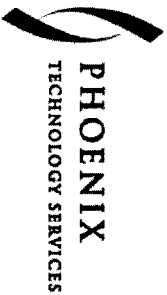
To the best of my knowledge I certify this survey data to be correct and true

Date:

67-05-17

Print Name: Noe Garza

Signature:



PHOENIX

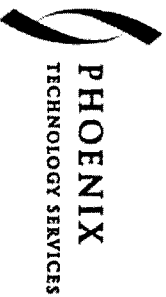
TECHNOLOGY SERVICES

Company: EOG
Well: State Co Com 4
Location: Eddy Co., New Mexico
Rig: Pulling Unit

Job Number: 61475
Grid Corr.: 0.11
Lat: 32.619340
Long: -104.543712
Grid Ref: NAD 83

Date: 07-05-17
Calculation Method: Minimum Curvature
Proposed Azimuth: Ground
RKB - MSL in feet: Surface
Tie Info:

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	0.23	99.96	100	100.00	-0.03	0.03 S	0.20 E	0.20	99.96	0.23	0.23	99.96
	200.00	0.48	13.47	100	200.00	0.34	0.34 N	0.49 E	0.60	55.57	0.52	0.25	-86.49
	300.00	0.19	177.06	100	300.00	0.58	0.58 N	0.60 E	0.83	45.94	0.66	-0.29	163.59
	400.00	0.42	11.18	100	400.00	0.77	0.77 N	0.68 E	1.03	41.25	0.61	0.23	-165.88
	500.00	0.02	8.52	100	500.00	1.15	1.15 N	0.75 E	1.37	33.18	0.40	-0.40	-2.66
	600.00	0.10	276.47	100	600.00	1.18	1.18 N	0.67 E	1.35	29.57	0.10	0.08	267.95
	700.00	0.24	32.28	100	700.00	1.36	1.36 N	0.69 E	1.53	26.93	0.30	0.14	-244.19
	800.00	0.13	39.81	100	799.99	1.63	1.63 N	0.88 E	1.85	28.32	0.11	-0.11	7.53
	900.00	0.12	90.72	100	899.99	1.71	1.71 N	1.06 E	2.01	31.61	0.11	-0.01	50.91
	1000.00	0.36	335.30	100	999.99	2.00	2.00 N	1.03 E	2.25	27.23	0.43	0.24	244.58
	1100.00	0.32	109.98	100	1099.99	2.19	2.19 N	1.16 E	2.48	27.92	0.63	-0.04	-225.32
	1200.00	0.28	332.76	100	1199.99	2.31	2.31 N	1.31 E	2.66	29.56	0.56	-0.04	222.78
	1300.00	0.36	281.91	100	1299.99	2.59	2.59 N	0.89 E	2.74	18.97	0.28	0.08	-50.85
	1400.00	0.25	192.85	100	1399.99	2.44	2.44 N	0.54 E	2.50	12.35	0.43	-0.11	-89.06
	1500.00	0.21	340.80	100	1499.99	2.41	2.41 N	0.43 E	2.44	10.05	0.44	-0.04	147.95
	1600.00	0.14	79.84	100	1599.99	2.60	2.60 N	0.49 E	2.64	10.60	0.27	-0.07	-260.96
	1700.00	0.13	224.05	100	1699.99	2.54	2.54 N	0.53 E	2.59	11.74	0.26	-0.01	144.21
	1800.00	0.05	200.60	100	1799.99	2.42	2.42 N	0.43 E	2.46	10.17	0.09	-0.08	-23.45
	1900.00	0.10	320.26	100	1899.99	2.44	2.44 N	0.36 E	2.47	8.43	0.13	0.05	119.66
	2000.00	0.19	336.98	100	1999.99	2.66	2.66 N	0.24 E	2.67	5.19	0.10	0.09	16.72
	2100.00	0.26	55.40	100	2099.99	2.94	2.94 N	0.36 E	2.97	7.04	0.29	0.07	-281.58
	2200.00	0.21	139.47	100	2199.99	2.93	2.93 N	0.67 E	3.01	12.85	0.32	-0.05	84.07
	2300.00	0.24	32.81	100	2299.99	2.97	2.97 N	0.90 E	3.10	16.89	0.36	0.03	-106.66
	2400.00	0.42	74.12	100	2399.99	3.25	3.25 N	1.37 E	3.52	22.85	0.29	0.18	41.31
	2500.00	0.33	112.32	100	2499.98	3.24	3.24 N	1.99 E	3.80	31.53	0.26	-0.09	38.20
	2600.00	0.22	40.61	100	2599.98	3.27	3.27 N	2.38 E	4.05	35.99	0.33	-0.11	-71.71
	2700.00	0.46	65.48	100	2699.98	3.59	3.59 N	2.87 E	4.59	38.65	0.28	0.24	24.87
	2800.00	0.54	90.77	100	2799.98	3.75	3.75 N	3.70 E	5.27	44.68	0.23	0.08	25.29



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TECHNOLOGY SERVICES

Company: EOG
Well: State Co Com 4
Location: Eddy Co, New Mexico
Rig: Pulling Unit

Job Number: 61475
Grid Corr.: 0.11
Lat: 32.619340
Long: -104.543712
Grid Ref: NAD 83

Calculation Method: Minimum Curvature
Proposed Azimuth: RKB - MSL in feet:
Tie Info: 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')
	2900.00	0.50	88.83	100	2899.97	3.75	3.75 N	4.61 E	5.94	50.89	0.04	-0.04	-1.94
	3000.00	0.56	83.79	100	2999.97	3.81	3.81 N	5.53 E	6.72	55.45	0.08	0.06	-5.04
	3100.00	0.58	61.54	100	3099.96	4.11	4.11 N	6.47 E	7.66	57.58	0.22	0.02	-22.25
	3200.00	0.56	66.30	100	3199.96	4.54	4.54 N	7.36 E	8.65	58.31	0.05	-0.02	-4.76
	3300.00	0.46	61.74	100	3299.95	4.93	4.93 N	8.16 E	9.53	58.86	0.11	-0.10	-4.56
	3400.00	0.39	30.58	100	3399.95	5.41	5.41 N	8.69 E	10.23	58.07	0.24	-0.07	-31.16
	3500.00	0.66	350.78	100	3499.95	6.27	6.27 N	8.77 E	10.78	54.41	0.44	0.27	320.20
	3600.00	0.82	19.29	100	3599.94	7.52	7.52 N	8.91 E	11.66	49.84	0.40	0.16	-331.49
	3700.00	1.18	6.36	100	3699.92	9.22	9.22 N	9.26 E	13.07	45.14	0.42	0.36	-12.93
	3800.00	1.41	350.53	100	3799.90	11.45	11.45 N	9.17 E	14.67	38.69	0.42	0.23	344.17
	3900.00	1.50	343.43	100	3899.87	13.92	13.92 N	8.60 E	16.36	31.70	0.20	0.09	-7.10
	4000.00	1.29	345.42	100	3999.84	16.27	16.27 N	7.94 E	18.10	26.02	0.22	-0.21	1.99
	4100.00	1.70	339.37	100	4099.80	18.74	18.74 N	7.13 E	20.06	20.84	0.44	0.41	-6.05
	4200.00	2.39	339.15	100	4199.74	22.08	22.08 N	5.87 E	22.85	14.89	0.69	0.69	-0.22
	4300.00	2.37	339.12	100	4299.65	25.96	25.96 N	4.39 E	26.33	9.60	0.02	-0.02	-0.03
	4400.00	2.29	345.02	100	4399.57	29.82	29.82 N	3.14 E	29.99	6.00	0.25	-0.08	5.90
	4500.00	2.91	349.46	100	4499.47	34.25	34.25 N	2.16 E	34.32	3.60	0.65	0.62	4.44
	4600.00	2.87	339.77	100	4599.34	39.09	39.09 N	0.83 E	39.10	1.21	0.49	-0.04	-9.69
	4700.00	2.95	342.70	100	4699.21	43.90	43.90 N	0.80 W	43.91	358.95	0.17	0.08	2.93
	4800.00	3.03	341.57	100	4799.07	48.86	48.86 N	2.41 W	48.92	357.18	0.10	0.08	-1.13
	4900.00	3.52	336.54	100	4898.91	54.19	54.19 N	4.46 W	54.37	355.29	0.57	0.49	-5.03
	5000.00	2.96	341.40	100	4998.75	59.45	59.45 N	6.51 W	59.80	353.75	0.62	-0.56	4.86
	5100.00	3.22	340.71	100	5098.61	64.55	64.55 N	8.26 W	65.07	352.71	0.26	0.26	-0.69
	5200.00	3.15	341.28	100	5198.45	69.80	69.80 N	10.07 W	70.52	351.79	0.08	-0.07	0.57
	5300.00	2.80	339.00	100	5298.32	74.68	74.68 N	11.83 W	75.61	351.00	0.37	-0.35	-2.28
	5400.00	3.19	336.31	100	5398.18	79.51	79.51 N	13.82 W	80.70	350.14	0.41	0.39	-2.69
	5500.00	2.67	339.71	100	5498.05	84.24	84.24 N	15.75 W	85.70	349.41	0.55	-0.52	3.40
	5600.00	2.35	335.34	100	5597.95	88.29	88.29 N	17.41 W	89.99	348.85	0.37	-0.32	-4.37
	5700.00	1.62	316.40	100	5697.89	91.18	91.18 N	19.24 W	93.19	348.09	0.97	-0.73	-18.94
	5800.00	1.65	320.79	100	5797.85	93.32	93.32 N	21.12 W	95.68	347.25	0.13	0.03	4.39
	5900.00	1.18	336.78	100	5897.82	95.38	95.38 N	22.44 W	97.98	346.76	0.61	-0.47	15.99



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Company: EOG
Well: State Co Com 4
Location: Eddy Co, New Mexico
Rig: Pulling Unit

Job Number: 61475
Grid Corr.: 0.11
Lat: 32.619340
Long: -104.543712
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')
	6000.00	0.81	334.07	100	5997.81	96.96	96.96 N	23.16 W	99.69	346.57	0.37	-0.37	-2.71
	6100.00	0.90	302.29	100	6097.80	98.02	98.02 N	24.13 W	100.94	346.17	0.48	0.09	-31.78
	6200.00	1.33	319.92	100	6197.78	99.32	99.32 N	25.54 W	102.55	345.58	0.55	0.43	17.63
	6300.00	1.35	311.97	100	6297.75	101.00	101.00 N	27.16 W	104.59	344.95	0.19	0.02	-7.95
	6400.00	1.28	316.66	100	6397.72	102.60	102.60 N	28.80 W	106.57	344.32	0.13	-0.07	4.69
	6500.00	1.35	325.83	100	6497.70	104.39	104.39 N	30.23 W	108.68	343.85	0.22	0.07	9.17
	6600.00	1.72	329.99	100	6597.66	106.66	106.66 N	31.65 W	111.26	343.47	0.39	0.37	4.16
	6700.00	1.78	339.87	100	6697.61	109.42	109.42 N	32.93 W	114.27	343.25	0.31	0.06	9.88
	6800.00	1.39	358.20	100	6797.58	112.09	112.09 N	33.50 W	116.99	343.36	0.63	-0.39	18.33
	6900.00	3.04	34.98	100	6897.50	115.47	115.47 N	32.02 W	119.83	344.50	2.10	1.65	-323.22
	7000.00	2.42	39.89	100	6997.39	119.27	119.27 N	29.15 W	122.78	346.27	0.66	-0.62	4.91
	7100.00	1.61	349.63	100	7097.33	122.27	122.27 N	28.05 W	125.44	347.08	1.86	-0.81	309.74
	7200.00	0.25	338.27	100	7197.32	123.85	123.85 N	28.38 W	127.06	347.09	1.37	-1.36	-11.36