



**PHOENIX
TECHNOLOGY SERVICES**

July 31, 2018

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

RECEIVED

AUG 16 2018

Dear District 2 - Artesia

DISTRICT II-ARTESIA O.C.D.

Re: EOG Resources
Patsy BPK State Com #8
Chaves Co., New Mexico
API #30-005-20981
Job No. 63153

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	
Leo Garza	8	0	8,400	7/30/18	7/30/18	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

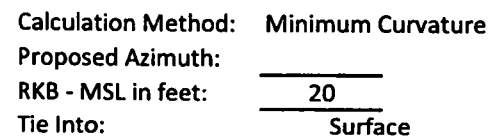


Company: EOG Resources
 Well: Patsy BPK State Com #8
 Location: Chaves Co., New Mexico
 Rig: Pulling Unit

Job Number: 63153
 Grid Corr.: -0.30
 Lat: 33.28
 Long: -103.79

Date: 07-30-18
 Calculation Method: Minimum Curvature
 Proposed Azimuth:
 RKB - MSL in feet: 20
 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	0.35	243.33	100	100.00	-0.14	0.14 S	0.27 W	0.31	243.33	0.35	0.35	243.33
	125.00	0.38	228.68	25	125.00	-0.23	0.23 S	0.40 W	0.46	240.73	0.39	0.12	-58.60
	150.00	0.42	243.09	25	150.00	-0.32	0.32 S	0.55 W	0.64	239.51	0.43	0.16	57.64
	175.00	0.41	228.41	25	175.00	-0.42	0.42 S	0.70 W	0.81	238.70	0.43	-0.04	-58.72
	200.00	0.44	219.64	25	200.00	-0.56	0.56 S	0.82 W	0.99	235.97	0.29	0.12	-35.08
	225.00	0.56	250.57	25	225.00	-0.67	0.67 S	1.00 W	1.20	236.15	1.16	0.48	123.72
	250.00	0.52	246.01	25	249.99	-0.76	0.76 S	1.22 W	1.44	238.14	0.23	-0.16	-18.24
	275.00	0.56	247.52	25	274.99	-0.85	0.85 S	1.44 W	1.67	239.36	0.17	0.16	6.04
	300.00	0.67	237.71	25	299.99	-0.98	0.98 S	1.67 W	1.94	239.75	0.61	0.44	-39.24
	325.00	0.66	240.76	25	324.99	-1.12	1.12 S	1.92 W	2.23	239.68	0.15	-0.04	12.20
	350.00	0.63	235.71	25	349.99	-1.27	1.27 S	2.16 W	2.51	239.52	0.26	-0.12	-20.20
	375.00	0.80	236.55	25	374.99	-1.45	1.45 S	2.42 W	2.82	239.15	0.68	0.68	3.36
	400.00	0.68	289.54	25	399.99	-1.49	1.49 S	2.71 W	3.09	241.13	2.68	-0.48	211.96
	425.00	0.80	244.61	25	424.98	-1.52	1.52 S	3.00 W	3.36	243.20	2.31	0.48	-179.72
	450.00	0.75	236.94	25	449.98	-1.68	1.68 S	3.30 W	3.70	242.99	0.46	-0.20	-30.68
	475.00	0.67	250.82	25	474.98	-1.82	1.82 S	3.57 W	4.01	243.03	0.76	-0.32	55.52
	500.00	0.75	246.34	25	499.98	-1.93	1.93 S	3.86 W	4.32	243.42	0.39	0.32	-17.92
	525.00	0.47	244.38	25	524.98	-2.04	2.04 S	4.10 W	4.58	243.54	1.12	-1.12	-7.84
	550.00	0.65	244.07	25	549.97	-2.15	2.15 S	4.32 W	4.83	243.57	0.72	0.72	-1.24
	575.00	0.57	257.86	25	574.97	-2.24	2.24 S	4.57 W	5.09	243.93	0.67	-0.32	55.16
	600.00	0.47	261.20	25	599.97	-2.28	2.28 S	4.80 W	5.31	244.59	0.42	-0.40	13.36
	625.00	0.40	245.09	25	624.97	-2.33	2.33 S	4.98 W	5.49	244.90	0.56	-0.28	-64.44
	650.00	0.30	253.21	25	649.97	-2.39	2.39 S	5.12 W	5.65	245.00	0.45	-0.40	32.48
	675.00	0.21	221.64	25	674.97	-2.44	2.44 S	5.21 W	5.75	244.91	0.65	-0.36	-126.28
	700.00	0.26	260.17	25	699.97	-2.48	2.48 S	5.30 W	5.85	244.88	0.65	0.20	154.12
	725.00	0.29	201.73	25	724.97	-2.55	2.55 S	5.38 W	5.95	244.61	1.08	0.12	-233.76
	750.00	0.40	217.50	25	749.97	-2.68	2.68 S	5.45 W	6.08	243.83	0.58	0.44	63.08



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)			
	775.00	0.52	203.52	25	774.97	-2.85	2.85 S	5.55 W	6.24	242.80	0.65	0.48	-55.92
	800.00	0.38	220.26	25	799.97	-3.02	3.02 S	5.65 W	6.41	241.87	0.76	-0.56	66.96
	825.00	0.51	207.87	25	824.97	-3.18	3.18 S	5.76 W	6.58	241.06	0.64	0.52	-49.56
	850.00	0.53	216.51	25	849.97	-3.37	3.37 S	5.88 W	6.78	240.14	0.32	0.08	34.56
	875.00	0.38	219.46	25	874.97	-3.53	3.53 S	6.00 W	6.96	239.52	0.61	-0.60	11.80
	900.00	0.55	247.63	25	899.96	-3.64	3.64 S	6.16 W	7.16	239.43	1.12	0.68	112.68
	925.00	0.40	226.91	25	924.96	-3.75	3.75 S	6.34 W	7.36	239.41	0.90	-0.60	-82.88
	950.00	0.38	213.53	25	949.96	-3.87	3.87 S	6.45 W	7.52	238.99	0.37	-0.08	-53.52
	975.00	0.29	231.73	25	974.96	-3.98	3.98 S	6.54 W	7.66	238.67	0.55	-0.36	72.80
	1000.00	0.15	295.82	25	999.96	-4.01	4.01 S	6.62 W	7.74	238.81	1.05	-0.56	256.36
	1025.00	0.22	144.43	25	1024.96	-4.03	4.03 S	6.62 W	7.75	238.66	1.44	0.28	-605.56
	1050.00	0.32	155.79	25	1049.96	-4.13	4.13 S	6.57 W	7.76	237.80	0.45	0.40	45.44
	1075.00	0.42	147.61	25	1074.96	-4.28	4.28 S	6.49 W	7.77	236.61	0.45	0.40	-32.72
	1100.00	0.57	145.95	25	1099.96	-4.46	4.46 S	6.37 W	7.77	235.02	0.60	0.60	-6.64
	1125.00	0.49	160.18	25	1124.96	-4.66	4.66 S	6.26 W	7.81	233.35	0.61	-0.32	56.92
	1150.00	0.55	170.82	25	1149.96	-4.88	4.88 S	6.21 W	7.90	231.83	0.45	0.24	42.56
	1175.00	0.51	159.36	25	1174.96	-5.10	5.10 S	6.15 W	7.99	230.32	0.45	-0.16	-45.84
	1200.00	0.49	172.07	25	1199.96	-5.31	5.31 S	6.10 W	8.08	228.93	0.45	-0.08	50.84
	1225.00	0.58	154.77	25	1224.96	-5.53	5.53 S	6.03 W	8.18	227.45	0.74	0.36	-69.20
	1250.00	0.36	168.32	25	1249.95	-5.72	5.72 S	5.96 W	8.26	226.15	0.98	-0.88	54.20
	1275.00	0.56	162.07	25	1274.95	-5.92	5.92 S	5.90 W	8.36	224.94	0.82	0.80	-25.00
	1300.00	0.58	145.91	25	1299.95	-6.14	6.14 S	5.79 W	8.44	223.35	0.65	0.08	-64.64
	1325.00	0.58	160.38	25	1324.95	-6.36	6.36 S	5.68 W	8.53	221.77	0.58	0.00	57.88
	1350.00	0.73	152.73	25	1349.95	-6.62	6.62 S	5.57 W	8.65	220.05	0.69	0.60	-30.60
	1375.00	0.61	148.18	25	1374.95	-6.88	6.88 S	5.42 W	8.76	218.26	0.52	-0.48	-18.20
	1400.00	0.66	141.40	25	1399.95	-7.10	7.10 S	5.26 W	8.84	216.54	0.36	0.20	-27.12
	1425.00	0.71	131.48	25	1424.94	-7.32	7.32 S	5.06 W	8.89	214.65	0.51	0.20	-39.68
	1450.00	0.46	132.06	25	1449.94	-7.49	7.49 S	4.87 W	8.93	213.02	1.00	-1.00	2.32
	1475.00	0.35	111.84	25	1474.94	-7.58	7.58 S	4.72 W	8.93	211.91	0.71	-0.44	-80.88
	1500.00	0.34	109.09	25	1499.94	-7.64	7.64 S	4.58 W	8.90	210.96	0.08	-0.04	-11.00



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Job Number: 63153
 Grid Corr.: -0.30
 Lat: 33.28
 Long: -103.79

Calculation Method: Minimum Curvature
 Proposed Azimuth:
 RKB - MSL in feet: 20
 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')
	1525.00	0.10	265.44	25	1524.94	-7.66	7.66 S	4.53 W	8.90	210.60	1.73	-0.96	625.40
	1550.00	0.19	159.71	25	1549.94	-7.70	7.70 S	4.54 W	8.94	210.51	0.95	0.36	-422.92
	1575.00	0.30	209.11	25	1574.94	-7.80	7.80 S	4.56 W	9.03	210.30	0.91	0.44	197.60
	1600.00	0.42	244.44	25	1599.94	-7.89	7.89 S	4.67 W	9.17	210.61	0.99	0.48	141.32
	1625.00	0.36	202.23	25	1624.94	-8.01	8.01 S	4.78 W	9.33	210.85	1.15	-0.24	-168.84
	1650.00	0.47	186.70	25	1649.94	-8.18	8.18 S	4.82 W	9.50	210.53	0.63	0.44	-62.12
	1675.00	0.46	185.73	25	1674.94	-8.38	8.38 S	4.85 W	9.68	210.03	0.05	-0.04	-3.88
	1700.00	0.48	154.72	25	1699.94	-8.58	8.58 S	4.81 W	9.84	209.29	1.01	0.08	-124.04
	1725.00	0.42	150.13	25	1724.94	-8.75	8.75 S	4.72 W	9.94	208.35	0.28	-0.24	-18.36
	1750.00	0.28	165.44	25	1749.94	-8.89	8.89 S	4.66 W	10.04	207.67	0.67	-0.56	61.24
	1775.00	0.18	123.04	25	1774.94	-8.97	8.97 S	4.61 W	10.09	207.21	0.76	-0.40	-169.60
	1800.00	0.10	202.41	25	1799.94	-9.01	9.01 S	4.59 W	10.11	206.98	0.76	-0.32	317.48
	1825.00	0.20	236.35	25	1824.94	-9.06	9.06 S	4.63 W	10.17	207.09	0.52	0.40	135.76
	1850.00	0.21	226.52	25	1849.94	-9.11	9.11 S	4.70 W	10.25	207.29	0.15	0.04	-39.32
	1875.00	0.49	214.68	25	1874.94	-9.23	9.23 S	4.80 W	10.40	207.45	1.15	1.12	-47.36
	1900.00	0.58	218.43	25	1899.94	-9.42	9.42 S	4.94 W	10.63	207.65	0.39	0.36	15.00
	1925.00	0.56	198.23	25	1924.93	-9.63	9.63 S	5.05 W	10.88	207.67	0.80	-0.08	-80.80
	1950.00	0.55	199.96	25	1949.93	-9.86	9.86 S	5.13 W	11.12	207.49	0.08	-0.04	6.92
	1975.00	0.50	179.75	25	1974.93	-10.09	10.09 S	5.17 W	11.33	207.15	0.76	-0.20	-80.84
	2000.00	0.40	180.80	25	1999.93	-10.28	10.28 S	5.17 W	11.51	206.71	0.40	-0.40	4.20
	2025.00	0.41	171.47	25	2024.93	-10.46	10.46 S	5.16 W	11.66	206.27	0.27	0.04	-37.32
	2050.00	0.13	176.97	25	2049.93	-10.57	10.57 S	5.15 W	11.76	205.95	1.12	-1.12	22.00
	2075.00	0.20	263.69	25	2074.93	-10.61	10.61 S	5.19 W	11.81	206.06	0.93	0.28	346.88
	2100.00	0.28	230.38	25	2099.93	-10.65	10.65 S	5.28 W	11.89	206.36	0.63	0.32	-133.24
	2125.00	0.35	246.33	25	2124.93	-10.72	10.72 S	5.40 W	12.00	206.72	0.45	0.28	63.80
	2150.00	0.50	204.96	25	2149.93	-10.85	10.85 S	5.51 W	12.17	206.93	1.33	0.60	-165.48
	2175.00	0.56	182.82	25	2174.93	-11.07	11.07 S	5.56 W	12.39	206.68	0.85	0.24	-88.56
	2200.00	0.35	164.87	25	2199.93	-11.27	11.27 S	5.55 W	12.56	206.22	1.01	-0.84	-71.80
	2225.00	0.46	163.50	25	2224.93	-11.44	11.44 S	5.50 W	12.69	205.69	0.44	0.44	-5.48
	2250.00	0.31	185.42	25	2249.93	-11.60	11.60 S	5.48 W	12.83	205.28	0.83	-0.60	87.68



Job Number:	63153
Grid Corr.:	-0.30
Lat:	33.28
Long:	-103.79

Calculation Method: Minimum Curvature
Proposed Azimuth:
RKB - MSL in feet: 20
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)			
	2275.00	0.40	155.49	25	2274.92	-11.75	11.75 S	5.45 W	12.95	204.89	0.81	0.36	-119.72
	2300.00	0.31	146.35	25	2299.92	-11.88	11.88 S	5.38 W	13.04	204.34	0.42	-0.36	-36.56
	2325.00	0.33	165.62	25	2324.92	-12.01	12.01 S	5.32 W	13.13	203.89	0.44	0.08	77.08
	2350.00	0.30	141.80	25	2349.92	-12.13	12.13 S	5.26 W	13.22	203.45	0.53	-0.12	-95.28
	2375.00	0.41	207.80	25	2374.92	-12.26	12.26 S	5.26 W	13.34	203.23	1.59	0.44	264.00
	2400.00	0.71	149.14	25	2399.92	-12.47	12.47 S	5.23 W	13.52	202.73	2.43	1.20	-234.64
	2425.00	0.71	141.99	25	2424.92	-12.73	12.73 S	5.05 W	13.69	201.64	0.35	0.00	-28.60
	2450.00	0.70	140.23	25	2449.92	-12.97	12.97 S	4.86 W	13.85	200.54	0.10	-0.04	-7.04
	2475.00	0.83	127.26	25	2474.92	-13.19	13.19 S	4.62 W	13.98	199.28	0.86	0.52	-51.88
	2500.00	0.63	126.68	25	2499.91	-13.39	13.39 S	4.36 W	14.08	198.05	0.80	-0.80	-2.32
	2525.00	0.64	103.01	25	2524.91	-13.50	13.50 S	4.12 W	14.11	196.95	1.04	0.04	-94.68
	2550.00	0.55	116.13	25	2549.91	-13.58	13.58 S	3.87 W	14.12	195.91	0.65	-0.36	52.48
	2575.00	0.50	115.96	25	2574.91	-13.68	13.68 S	3.67 W	14.17	195.00	0.20	-0.20	-0.68
	2600.00	0.58	152.82	25	2599.91	-13.84	13.84 S	3.51 W	14.28	194.22	1.40	0.32	147.44
	2625.00	0.65	146.79	25	2624.91	-14.08	14.08 S	3.37 W	14.47	193.48	0.38	0.28	-24.12
	2650.00	0.69	122.92	25	2649.91	-14.28	14.28 S	3.17 W	14.62	192.52	1.12	0.16	-95.48
	2675.00	0.62	122.89	25	2674.90	-14.43	14.43 S	2.93 W	14.73	191.48	0.28	-0.28	-0.12
	2700.00	0.75	108.14	25	2699.90	-14.56	14.56 S	2.66 W	14.80	190.36	0.87	0.52	-59.00
	2725.00	0.62	105.29	25	2724.90	-14.64	14.64 S	2.38 W	14.83	189.21	0.54	-0.52	-11.40
	2750.00	0.48	125.64	25	2749.90	-14.74	14.74 S	2.16 W	14.90	188.34	0.95	-0.56	81.40
	2775.00	0.55	112.73	25	2774.90	-14.85	14.85 S	1.96 W	14.98	187.53	0.54	0.28	-51.64
	2800.00	0.57	127.18	25	2799.90	-14.97	14.97 S	1.75 W	15.07	186.68	0.57	0.08	57.80
	2825.00	0.60	159.83	25	2824.90	-15.17	15.17 S	1.61 W	15.25	186.06	1.32	0.12	130.60
	2850.00	0.69	141.55	25	2849.89	-15.41	15.41 S	1.47 W	15.48	185.45	0.89	0.36	-73.12
	2875.00	0.77	129.25	25	2874.89	-15.63	15.63 S	1.25 W	15.68	184.56	0.70	0.32	-49.20
	2900.00	0.48	136.34	25	2899.89	-15.81	15.81 S	1.04 W	15.85	183.78	1.20	-1.16	28.36
	2925.00	0.42	150.85	25	2924.89	-15.97	15.97 S	0.93 W	16.00	183.33	0.51	-0.24	58.04
	2950.00	0.28	124.69	25	2949.89	-16.08	16.08 S	0.83 W	16.10	182.97	0.84	-0.56	-104.64
	2975.00	0.45	162.39	25	2974.89	-16.21	16.21 S	0.75 W	16.23	182.66	1.14	0.68	150.80
	3000.00	0.68	151.62	25	2999.89	-16.44	16.44 S	0.65 W	16.45	182.28	1.01	0.92	-43.08



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 Well: Patsy BPK State Com #8
 Location: Chaves Co., New Mexico
 Rig: Pulling Unit

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							N/S (ft)	E/W (ft)	Distance (ft)	Angle (deg)			
	3025.00	0.64	126.97	25	3024.89	-16.65	16.65 S	0.47 W	16.66	181.62	1.14	-0.16	-98.60
	3050.00	0.47	119.60	25	3049.89	-16.78	16.78 S	0.27 W	16.79	180.92	0.74	-0.68	-29.48
	3075.00	0.42	105.51	25	3074.88	-16.86	16.86 S	0.09 W	16.86	180.32	0.48	-0.20	-56.36
	3100.00	0.28	130.52	25	3099.88	-16.92	16.92 S	0.04 E	16.92	179.86	0.82	-0.56	100.04
	3125.00	0.44	149.74	25	3124.88	-17.05	17.05 S	0.14 E	17.05	179.54	0.79	0.64	76.88
	3150.00	0.49	35.19	25	3149.88	-17.04	17.04 S	0.25 E	17.04	179.17	3.13	0.20	-458.20
	3175.00	0.52	158.60	25	3174.88	-17.06	17.06 S	0.35 E	17.06	178.83	3.56	0.12	493.64
	3200.00	0.64	131.70	25	3199.88	-17.26	17.26 S	0.50 E	17.27	178.36	1.18	0.48	-107.60
	3225.00	0.60	117.05	25	3224.88	-17.41	17.41 S	0.72 E	17.43	177.64	0.65	-0.16	-58.60
	3250.00	0.26	139.38	25	3249.88	-17.51	17.51 S	0.87 E	17.54	177.16	1.49	-1.36	89.32
	3275.00	0.27	142.22	25	3274.88	-17.60	17.60 S	0.94 E	17.63	176.93	0.07	0.04	11.36
	3300.00	0.54	178.30	25	3299.88	-17.77	17.77 S	0.98 E	17.80	176.84	1.44	1.08	144.32
	3325.00	0.60	148.42	25	3324.88	-18.00	18.00 S	1.05 E	18.03	176.65	1.20	0.24	-119.52
	3350.00	0.70	126.44	25	3349.88	-18.20	18.20 S	1.25 E	18.24	176.08	1.07	0.40	-87.92
	3375.00	0.63	130.21	25	3374.87	-18.38	18.38 S	1.47 E	18.44	175.42	0.33	-0.28	15.08
	3400.00	0.67	128.52	25	3399.87	-18.56	18.56 S	1.69 E	18.64	174.79	0.18	0.16	-6.76
	3425.00	0.48	156.42	25	3424.87	-18.75	18.75 S	1.85 E	18.84	174.37	1.33	-0.76	111.60
	3450.00	0.55	140.07	25	3449.87	-18.93	18.93 S	1.97 E	19.04	174.07	0.65	0.28	-65.40
	3475.00	0.63	132.93	25	3474.87	-19.12	19.12 S	2.15 E	19.24	173.60	0.43	0.32	-28.56
	3500.00	0.69	105.87	25	3499.87	-19.25	19.25 S	2.39 E	19.40	172.92	1.26	0.24	-108.24
	3525.00	0.60	122.85	25	3524.87	-19.37	19.37 S	2.65 E	19.55	172.22	0.84	-0.36	67.92
	3550.00	0.48	139.99	25	3549.86	-19.52	19.52 S	2.82 E	19.72	171.77	0.80	-0.48	68.56
	3575.00	0.68	161.16	25	3574.86	-19.74	19.74 S	2.94 E	19.96	171.53	1.16	0.80	84.68
	3600.00	0.56	125.08	25	3599.86	-19.95	19.95 S	3.09 E	20.19	171.21	1.60	-0.48	-144.32
	3625.00	0.48	111.52	25	3624.86	-20.06	20.06 S	3.28 E	20.32	170.70	0.58	-0.32	-54.24
	3650.00	0.41	135.22	25	3649.86	-20.16	20.16 S	3.44 E	20.45	170.31	0.78	-0.28	94.80
	3675.00	0.54	136.30	25	3674.86	-20.31	20.31 S	3.59 E	20.62	169.98	0.52	0.52	4.32
	3700.00	0.74	136.28	25	3699.86	-20.51	20.51 S	3.78 E	20.86	169.55	0.80	0.80	-0.08
	3725.00	0.89	124.01	25	3724.85	-20.74	20.74 S	4.05 E	21.13	168.94	0.92	0.60	-49.08
	3750.00	0.75	104.30	25	3749.85	-20.88	20.88 S	4.37 E	21.34	168.17	1.25	-0.56	-78.84



Company: EOG Resources
Well: Patsy BPK State Com #8
Location: Chaves Co., New Mexico
Rig: Pulling Unit

Job Number: 63153
Grid Corr.: -0.30
Lat: 33.28
Long: -103.79

Calculation Method: Minimum Curvature
Proposed Azimuth: _____
RKB - MSL in feet: 20
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)			
	3775.00	0.65	114.91	25	3774.85	-20.98	20.98 S	4.66 E	21.50	167.48	0.65	-0.40	42.44
	3800.00	0.57	127.70	25	3799.85	-21.12	21.12 S	4.89 E	21.68	166.97	0.63	-0.32	51.16
	3825.00	0.85	124.05	25	3824.85	-21.30	21.30 S	5.14 E	21.91	166.43	1.13	1.12	-14.60
	3850.00	0.72	117.09	25	3849.84	-21.48	21.48 S	5.43 E	22.15	165.80	0.64	-0.52	-27.84
	3875.00	0.53	117.22	25	3874.84	-21.60	21.60 S	5.68 E	22.33	165.28	0.76	-0.76	0.52
	3900.00	0.36	137.91	25	3899.84	-21.71	21.71 S	5.83 E	22.48	164.97	0.93	-0.68	82.76
	3925.00	0.72	148.64	25	3924.84	-21.90	21.90 S	5.97 E	22.70	164.76	1.49	1.44	42.92
	3950.00	0.72	130.95	25	3949.84	-22.14	22.14 S	6.17 E	22.98	164.44	0.89	0.00	-70.76
	3975.00	0.51	140.53	25	3974.84	-22.33	22.33 S	6.36 E	23.22	164.11	0.93	-0.84	38.32
	4000.00	0.43	144.17	25	3999.84	-22.49	22.49 S	6.48 E	23.41	163.93	0.34	-0.32	14.56
	4025.00	0.57	147.64	25	4024.84	-22.67	22.67 S	6.60 E	23.61	163.76	0.57	0.56	13.88
	4050.00	0.31	143.26	25	4049.84	-22.83	22.83 S	6.71 E	23.80	163.62	1.05	-1.04	-17.52
	4075.00	0.28	82.76	25	4074.84	-22.88	22.88 S	6.81 E	23.87	163.42	1.19	-0.12	-242.00
	4100.00	0.18	117.55	25	4099.83	-22.89	22.89 S	6.91 E	23.91	163.21	0.67	-0.40	139.16
	4125.00	0.23	48.79	25	4124.83	-22.87	22.87 S	6.98 E	23.91	163.03	0.94	0.20	-275.04
	4150.00	0.24	43.08	25	4149.83	-22.80	22.80 S	7.05 E	23.87	162.81	0.10	0.04	-22.84
	4175.00	0.31	68.23	25	4174.83	-22.74	22.74 S	7.15 E	23.84	162.54	0.55	0.28	100.60
	4200.00	0.18	55.84	25	4199.83	-22.69	22.69 S	7.25 E	23.82	162.29	0.56	-0.52	-49.56
	4225.00	0.14	46.95	25	4224.83	-22.65	22.65 S	7.30 E	23.80	162.13	0.19	-0.16	-35.56
	4250.00	0.32	221.01	25	4249.83	-22.68	22.68 S	7.28 E	23.82	162.21	1.84	0.72	696.24
	4275.00	0.36	322.96	25	4274.83	-22.67	22.67 S	7.18 E	23.78	162.42	2.12	0.16	407.80
	4300.00	0.38	175.60	25	4299.83	-22.69	22.69 S	7.14 E	23.79	162.53	2.84	0.08	-589.44
	4325.00	0.27	156.57	25	4324.83	-22.83	22.83 S	7.17 E	23.93	162.56	0.61	-0.44	-76.12
	4350.00	0.16	133.95	25	4349.83	-22.91	22.91 S	7.22 E	24.02	162.50	0.55	-0.44	-90.48
	4375.00	0.35	132.78	25	4374.83	-22.98	22.98 S	7.30 E	24.11	162.37	0.76	0.76	-4.68
	4400.00	0.26	24.59	25	4399.83	-22.98	22.98 S	7.38 E	24.14	162.19	1.99	-0.36	-432.76
	4425.00	0.17	148.45	25	4424.83	-22.96	22.96 S	7.43 E	24.13	162.08	1.53	-0.36	495.44
	4450.00	0.29	142.08	25	4449.83	-23.04	23.04 S	7.48 E	24.23	162.01	0.49	0.48	-25.48
	4475.00	0.20	215.05	25	4474.83	-23.13	23.13 S	7.50 E	24.31	162.04	1.20	-0.36	291.88
	4500.00	0.32	121.38	25	4499.83	-23.20	23.20 S	7.53 E	24.39	162.01	1.55	0.48	-374.68



Company: EOG Resources
 Well: Patsy BPK State Com #8
 Location: Chaves Co., New Mexico
 Rig: Pulling Unit

Job Number: 63153
 Grid Corr.: -0.30
 Lat: 33.28
 Long: -103.79

Calculation Method: Minimum Curvature
 Proposed Azimuth: _____
 RKB - MSL in feet: 20
 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)			
	4525.00	0.12	204.27	25	4524.83	-23.26	23.26 S	7.58 E	24.47	161.95	1.31	-0.80	331.56
	4550.00	0.16	91.67	25	4549.83	-23.29	23.29 S	7.60 E	24.50	161.91	0.94	0.16	-450.40
	4575.00	0.39	99.64	25	4574.83	-23.30	23.30 S	7.72 E	24.55	161.66	0.93	0.92	31.88
	4600.00	0.35	91.31	25	4599.83	-23.32	23.32 S	7.88 E	24.61	161.32	0.27	-0.16	-33.32
	4625.00	0.11	63.78	25	4624.83	-23.31	23.31 S	7.98 E	24.64	161.10	1.03	-0.96	-110.12
	4650.00	0.14	172.51	25	4649.83	-23.33	23.33 S	8.01 E	24.66	161.06	0.82	0.12	434.92
	4675.00	0.38	142.03	25	4674.83	-23.42	23.42 S	8.06 E	24.77	161.01	1.08	0.96	-121.92
	4700.00	0.36	123.08	25	4699.83	-23.53	23.53 S	8.18 E	24.91	160.83	0.49	-0.08	-75.80
	4725.00	0.18	59.43	25	4724.83	-23.56	23.56 S	8.28 E	24.97	160.64	1.29	-0.72	-254.60
	4750.00	0.22	261.48	25	4749.83	-23.54	23.54 S	8.27 E	24.95	160.66	1.57	0.16	808.20
	4775.00	0.42	89.02	25	4774.83	-23.55	23.55 S	8.31 E	24.97	160.56	2.56	0.80	-689.84
	4800.00	0.34	129.10	25	4799.83	-23.59	23.59 S	8.46 E	25.06	160.28	1.08	-0.32	160.32
	4825.00	0.16	27.87	25	4824.83	-23.61	23.61 S	8.53 E	25.10	160.13	1.61	-0.72	-404.92
	4850.00	0.25	135.65	25	4849.83	-23.62	23.62 S	8.59 E	25.13	160.02	1.34	0.36	431.12
	4875.00	0.40	150.18	25	4874.83	-23.73	23.73 S	8.67 E	25.27	159.93	0.68	0.60	58.12
	4900.00	0.29	123.45	25	4899.83	-23.84	23.84 S	8.76 E	25.40	159.82	0.77	-0.44	-106.92
	4925.00	0.09	67.49	25	4924.83	-23.87	23.87 S	8.84 E	25.45	159.69	1.00	-0.80	-223.84
	4950.00	0.05	312.53	25	4949.83	-23.85	23.85 S	8.85 E	25.44	159.66	0.48	-0.16	980.16
	4975.00	0.34	199.46	25	4974.83	-23.92	23.92 S	8.81 E	25.49	159.77	1.45	1.16	-452.28
	5000.00	0.25	187.02	25	4999.83	-24.04	24.04 S	8.78 E	25.60	159.93	0.44	-0.36	-49.76
	5025.00	0.16	289.08	25	5024.83	-24.08	24.08 S	8.74 E	25.62	160.05	1.30	-0.36	408.24
	5050.00	0.15	189.53	25	5049.83	-24.11	24.11 S	8.70 E	25.63	160.15	0.95	-0.04	-398.20
	5075.00	0.37	229.18	25	5074.83	-24.19	24.19 S	8.64 E	25.69	160.35	1.09	0.88	158.60
	5100.00	0.20	267.50	25	5099.83	-24.24	24.24 S	8.53 E	25.70	160.61	0.99	-0.68	153.28
	5125.00	0.23	229.95	25	5124.83	-24.28	24.28 S	8.45 E	25.71	160.81	0.57	0.12	-150.20
	5150.00	0.55	238.24	25	5149.83	-24.37	24.37 S	8.31 E	25.75	161.17	1.30	1.28	33.16
	5175.00	0.50	182.44	25	5174.82	-24.55	24.55 S	8.20 E	25.88	161.52	1.97	-0.20	-223.20
	5200.00	0.41	92.67	25	5199.82	-24.66	24.66 S	8.29 E	26.02	161.42	2.58	-0.36	-359.08
	5225.00	0.41	222.35	25	5224.82	-24.73	24.73 S	8.32 E	26.09	161.41	2.97	0.00	518.72
	5250.00	0.39	199.90	25	5249.82	-24.88	24.88 S	8.23 E	26.20	161.70	0.63	-0.08	-89.80



PHOENIX

TECHNOLOGY SERVICES

Company: EOG Resources
 Well: Patsy BPK State Com #8
 Location: Chaves Co., New Mexico
 Rig: Pulling Unit

Job Number: 63153
 Grid Corr.: -0.30
 Lat: 33.28
 Long: -103.79

Calculation Method: Minimum Curvature
 Proposed Azimuth:
 RKB - MSL in feet: 20
 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)			
	5275.00	0.41	211.36	25	5274.82	-25.03	25.03 S	8.15 E	26.33	161.96	0.33	0.08	45.84
	5300.00	0.19	223.79	25	5299.82	-25.14	25.14 S	8.08 E	26.40	162.19	0.91	-0.88	49.72
	5325.00	0.51	251.77	25	5324.82	-25.20	25.20 S	7.94 E	26.43	162.51	1.41	1.28	111.92
	5350.00	0.83	217.67	25	5349.82	-25.38	25.38 S	7.73 E	26.53	163.07	1.99	1.28	-136.40
	5375.00	0.35	176.89	25	5374.82	-25.60	25.60 S	7.62 E	26.71	163.43	2.44	-1.92	-163.12
	5400.00	0.28	163.73	25	5399.82	-25.74	25.74 S	7.64 E	26.85	163.46	0.40	-0.28	-52.64
	5425.00	0.33	218.87	25	5424.82	-25.85	25.85 S	7.61 E	26.95	163.59	1.14	0.20	220.56
	5450.00	0.36	198.47	25	5449.82	-25.98	25.98 S	7.54 E	27.05	163.81	0.50	0.12	-81.60
	5475.00	0.28	96.31	25	5474.82	-26.06	26.06 S	7.58 E	27.14	163.79	2.00	-0.32	-408.64
	5500.00	0.39	222.87	25	5499.82	-26.13	26.13 S	7.58 E	27.21	163.82	2.40	0.44	506.24
	5525.00	0.54	207.46	25	5524.82	-26.30	26.30 S	7.47 E	27.34	164.14	0.78	0.60	-61.64
	5550.00	0.55	177.60	25	5549.81	-26.52	26.52 S	7.42 E	27.54	164.37	1.12	0.04	-119.44
	5575.00	0.11	295.61	25	5574.81	-26.63	26.63 S	7.40 E	27.64	164.47	2.44	-1.76	472.04
	5600.00	0.34	219.16	25	5599.81	-26.68	26.68 S	7.33 E	27.67	164.63	1.33	0.92	-305.80
	5625.00	0.34	199.14	25	5624.81	-26.81	26.81 S	7.26 E	27.77	164.84	0.47	0.00	-80.08
	5650.00	0.18	122.15	25	5649.81	-26.90	26.90 S	7.27 E	27.86	164.87	1.39	-0.64	-307.96
	5675.00	0.17	295.16	25	5674.81	-26.90	26.90 S	7.27 E	27.87	164.87	1.40	-0.04	692.04
	5700.00	0.36	320.50	25	5699.81	-26.83	26.83 S	7.19 E	27.77	165.00	0.88	0.76	101.36
	5725.00	0.35	211.62	25	5724.81	-26.83	26.83 S	7.10 E	27.75	165.18	2.31	-0.04	-435.52
	5750.00	0.06	190.51	25	5749.81	-26.91	26.91 S	7.06 E	27.82	165.31	1.18	-1.16	-84.44
	5775.00	0.29	179.42	25	5774.81	-26.99	26.99 S	7.05 E	27.89	165.35	0.93	0.92	-44.36
	5800.00	0.30	113.21	25	5799.81	-27.07	27.07 S	7.12 E	27.99	165.28	1.29	0.04	-264.84
	5825.00	0.15	52.17	25	5824.81	-27.08	27.08 S	7.20 E	28.02	165.11	1.05	-0.60	-244.16
	5850.00	0.14	43.09	25	5849.81	-27.04	27.04 S	7.25 E	27.99	164.99	0.10	-0.04	-36.32
	5875.00	0.38	182.55	25	5874.81	-27.10	27.10 S	7.27 E	28.06	164.99	1.98	0.96	557.84
	5900.00	0.32	125.56	25	5899.81	-27.22	27.22 S	7.32 E	28.19	164.95	1.35	-0.24	-227.96
	5925.00	0.19	142.35	25	5924.81	-27.30	27.30 S	7.40 E	28.28	164.83	0.59	-0.52	67.16
	5950.00	0.36	59.93	25	5949.81	-27.29	27.29 S	7.49 E	28.30	164.64	1.54	0.68	-329.68
	5975.00	0.45	255.96	25	5974.81	-27.27	27.27 S	7.47 E	28.28	164.69	3.21	0.36	784.12
	6000.00	0.22	159.27	25	5999.81	-27.34	27.34 S	7.39 E	28.32	164.88	2.09	-0.92	-386.76



Company: EOG Resources
 Well: Patsy BPK State Com #8
 Location: Chaves Co., New Mexico
 Rig: Pulling Unit

Job Number: 63153
 Grid Corr.: -0.30
 Lat: 33.28
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Calculation Method: Minimum Curvature
 Proposed Azimuth: _____
 RKB - MSL in feet: 20
 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)			
	6025.00	0.33	237.30	25	6024.81	-27.43	27.43 S	7.34 E	28.39	165.01	1.43	0.44	312.12
	6050.00	0.52	212.01	25	6049.81	-27.56	27.56 S	7.22 E	28.49	165.31	1.05	0.76	-101.16
	6075.00	0.25	224.04	25	6074.81	-27.70	27.70 S	7.13 E	28.60	165.57	1.12	-1.08	48.12
	6100.00	0.28	338.02	25	6099.81	-27.68	27.68 S	7.07 E	28.57	165.68	1.78	0.12	455.92
	6125.00	0.50	221.17	25	6124.81	-27.70	27.70 S	6.97 E	28.57	165.88	2.70	0.88	-467.40
	6150.00	0.29	216.88	25	6149.81	-27.84	27.84 S	6.86 E	28.67	166.15	0.85	-0.84	-17.16
	6175.00	0.38	300.07	25	6174.81	-27.85	27.85 S	6.75 E	28.65	166.37	1.80	0.36	332.76
	6200.00	0.43	296.08	25	6199.81	-27.76	27.76 S	6.59 E	28.54	166.64	0.23	0.20	-15.96
	6225.00	0.28	204.45	25	6224.81	-27.78	27.78 S	6.49 E	28.52	166.86	2.08	-0.60	-366.52
	6250.00	0.57	286.20	25	6249.81	-27.80	27.80 S	6.34 E	28.51	167.15	2.39	1.16	327.00
	6275.00	0.71	291.78	25	6274.80	-27.71	27.71 S	6.08 E	28.37	167.63	0.61	0.56	22.32
	6300.00	0.31	244.31	25	6299.80	-27.68	27.68 S	5.87 E	28.29	168.02	2.20	-1.60	-189.88
	6325.00	0.21	317.82	25	6324.80	-27.67	27.67 S	5.78 E	28.27	168.20	1.29	-0.40	294.04
	6350.00	0.57	293.96	25	6349.80	-27.59	27.59 S	5.64 E	28.16	168.45	1.55	1.44	-95.44
	6375.00	0.56	269.97	25	6374.80	-27.54	27.54 S	5.40 E	28.06	168.90	0.94	-0.04	-95.96
	6400.00	0.34	294.50	25	6399.80	-27.51	27.51 S	5.21 E	28.00	169.27	1.15	-0.88	98.12
	6425.00	0.52	302.21	25	6424.80	-27.42	27.42 S	5.05 E	27.88	169.57	0.75	0.72	30.84
	6450.00	0.59	287.43	25	6449.80	-27.32	27.32 S	4.83 E	27.74	169.98	0.64	0.28	-59.12
	6475.00	0.28	274.17	25	6474.80	-27.27	27.27 S	4.65 E	27.67	170.33	1.30	-1.24	-53.04
	6500.00	0.46	334.29	25	6499.80	-27.18	27.18 S	4.54 E	27.56	170.52	1.61	0.72	240.48
	6525.00	0.54	300.58	25	6524.80	-27.03	27.03 S	4.40 E	27.38	170.76	1.20	0.32	-134.84
	6550.00	0.27	263.35	25	6549.80	-26.98	26.98 S	4.24 E	27.31	171.08	1.46	-1.08	-148.92
	6575.00	0.42	319.11	25	6574.80	-26.91	26.91 S	4.12 E	27.23	171.30	1.40	0.60	223.04
	6600.00	0.41	310.30	25	6599.80	-26.79	26.79 S	3.99 E	27.08	171.53	0.26	-0.04	-35.24
	6625.00	0.31	218.60	25	6624.79	-26.78	26.78 S	3.88 E	27.06	171.76	2.09	-0.40	-366.80
	6650.00	0.31	317.70	25	6649.79	-26.78	26.78 S	3.79 E	27.05	171.94	1.89	0.00	396.40
	6675.00	0.44	298.99	25	6674.79	-26.69	26.69 S	3.66 E	26.94	172.19	0.71	0.52	-74.84
	6700.00	0.12	262.39	25	6699.79	-26.65	26.65 S	3.55 E	26.88	172.41	1.40	-1.28	-146.40
	6725.00	0.34	213.00	25	6724.79	-26.71	26.71 S	3.49 E	26.94	172.57	1.11	0.88	-197.56
	6750.00	0.36	223.39	25	6749.79	-26.83	26.83 S	3.39 E	27.04	172.80	0.27	0.08	41.56



Company: EOG Resources
Well: Patsy BPK State Com #8
Location: Chaves Co., New Mexico
Rig: Pulling Unit

Job Number: 63153
Grid Corr.: -0.30
Lat: 33.28
Long: -103.79

Calculation Method: Minimum Curvature
Proposed Azimuth: _____
RKB - MSL in feet: 20
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)			
	6775.00	0.07	108.60	25	6774.79	-26.89	26.89 S	3.35 E	27.10	172.90	1.58	-1.16	-459.16
	6800.00	0.17	254.59	25	6799.79	-26.91	26.91 S	3.33 E	27.11	172.94	0.93	0.40	583.96
	6825.00	0.19	250.24	25	6824.79	-26.93	26.93 S	3.26 E	27.13	173.11	0.10	0.08	-17.40
	6850.00	0.18	6.80	25	6849.79	-26.91	26.91 S	3.22 E	27.10	173.17	1.26	-0.04	-973.76
	6875.00	0.22	260.76	25	6874.79	-26.87	26.87 S	3.18 E	27.06	173.26	1.28	0.16	1015.84
	6900.00	0.21	93.29	25	6899.79	-26.88	26.88 S	3.18 E	27.07	173.26	1.71	-0.04	-669.88
	6925.00	0.30	90.18	25	6924.79	-26.89	26.89 S	3.29 E	27.09	173.03	0.36	0.36	-12.44
	6950.00	0.25	98.38	25	6949.79	-26.90	26.90 S	3.41 E	27.11	172.78	0.25	-0.20	32.80
	6975.00	0.39	58.78	25	6974.79	-26.86	26.86 S	3.53 E	27.09	172.50	1.01	0.56	-158.40
	7000.00	0.31	48.28	25	6999.79	-26.77	26.77 S	3.66 E	27.02	172.22	0.41	-0.32	-42.00
	7025.00	0.37	106.64	25	7024.79	-26.75	26.75 S	3.78 E	27.01	171.95	1.34	0.24	233.44
	7050.00	0.48	94.41	25	7049.79	-26.78	26.78 S	3.97 E	27.07	171.57	0.57	0.44	-48.92
	7075.00	0.25	28.54	25	7074.79	-26.74	26.74 S	4.10 E	27.05	171.29	1.77	-0.92	-263.48
	7100.00	0.56	86.59	25	7099.79	-26.68	26.68 S	4.25 E	27.02	170.96	1.91	1.24	232.20
	7125.00	0.43	62.25	25	7124.79	-26.63	26.63 S	4.45 E	27.00	170.51	0.98	-0.52	-97.36
	7150.00	0.42	95.31	25	7149.79	-26.60	26.60 S	4.62 E	27.00	170.14	0.97	-0.04	132.24
	7175.00	0.57	87.06	25	7174.79	-26.60	26.60 S	4.84 E	27.04	169.69	0.66	0.60	-33.00
	7200.00	0.43	262.91	25	7199.79	-26.61	26.61 S	4.87 E	27.05	169.63	4.00	-0.56	703.40
	7225.00	0.66	106.21	25	7224.79	-26.66	26.66 S	4.92 E	27.11	169.55	4.27	0.92	-626.80
	7250.00	0.58	71.67	25	7249.78	-26.66	26.66 S	5.17 E	27.16	169.02	1.50	-0.32	-138.16
	7275.00	0.43	97.92	25	7274.78	-26.63	26.63 S	5.39 E	27.17	168.56	1.09	-0.60	105.00
	7300.00	0.75	67.57	25	7299.78	-26.58	26.58 S	5.63 E	27.17	168.04	1.75	1.28	-121.40
	7325.00	0.67	65.67	25	7324.78	-26.46	26.46 S	5.92 E	27.11	167.40	0.33	-0.32	-7.60
	7350.00	0.58	101.33	25	7349.78	-26.42	26.42 S	6.17 E	27.14	166.85	1.57	-0.36	142.64
	7375.00	0.77	87.03	25	7374.78	-26.44	26.44 S	6.47 E	27.22	166.26	1.01	0.76	-57.20
	7400.00	0.64	70.46	25	7399.78	-26.38	26.38 S	6.76 E	27.24	165.62	0.96	-0.52	-66.28
	7425.00	0.62	103.53	25	7424.77	-26.37	26.37 S	7.03 E	27.29	165.08	1.44	-0.08	132.28
	7450.00	0.90	78.04	25	7449.77	-26.36	26.36 S	7.35 E	27.37	164.42	1.73	1.12	-101.96
	7475.00	0.69	94.62	25	7474.77	-26.33	26.33 S	7.69 E	27.43	163.71	1.24	-0.84	66.32
	7500.00	1.09	82.86	25	7499.77	-26.31	26.31 S	8.08 E	27.53	162.93	1.75	1.60	-47.04



PHOENIX

TECHNOLOGY SERVICES

Company: EOG Resources
 Well: Patsy BPK State Com #8
 Location: Chaves Co., New Mexico
 Rig: Pulling Unit

Job Number: 63153
 Grid Corr.: -0.30
 Lat: 33.28
 Long: -103.79

Calculation Method: Minimum Curvature
 Proposed Azimuth:
 RKB - MSL in feet: 20
 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)			
	7525.00	0.87	71.66	25	7524.76	-26.22	26.22 S	8.50 E	27.57	162.05	1.16	-0.88	-44.80
	7550.00	0.82	91.59	25	7549.76	-26.17	26.17 S	8.85 E	27.63	161.31	1.19	-0.20	79.72
	7575.00	1.08	86.16	25	7574.76	-26.16	26.16 S	9.27 E	27.75	160.49	1.10	1.04	-21.72
	7600.00	0.53	99.23	25	7599.75	-26.16	26.16 S	9.62 E	27.87	159.82	2.31	-2.20	52.28
	7625.00	1.03	95.75	25	7624.75	-26.20	26.20 S	9.96 E	28.03	159.20	2.01	2.00	-13.92
	7650.00	0.81	79.41	25	7649.75	-26.19	26.19 S	10.35 E	28.16	158.43	1.36	-0.88	-65.36
	7675.00	0.77	97.58	25	7674.75	-26.18	26.18 S	10.69 E	28.28	157.79	1.01	-0.16	72.68
	7700.00	1.00	97.29	25	7699.74	-26.23	26.23 S	11.08 E	28.47	157.11	0.92	0.92	-1.16
	7725.00	0.75	91.31	25	7724.74	-26.26	26.26 S	11.46 E	28.65	156.43	1.06	-1.00	-23.92
	7750.00	0.95	4.14	25	7749.74	-26.06	26.06 S	11.63 E	28.54	155.94	4.72	0.80	-348.68
	7775.00	0.93	91.66	25	7774.74	-25.86	25.86 S	11.85 E	28.45	155.38	5.20	-0.08	350.08
	7800.00	0.73	122.95	25	7799.73	-25.95	25.95 S	12.19 E	28.67	154.84	1.95	-0.80	125.16
	7825.00	1.11	92.29	25	7824.73	-26.05	26.05 S	12.56 E	28.92	154.25	2.44	1.52	-122.64
	7850.00	0.82	98.68	25	7849.73	-26.09	26.09 S	12.98 E	29.14	153.54	1.24	-1.16	25.56
	7875.00	0.85	102.20	25	7874.72	-26.15	26.15 S	13.34 E	29.36	152.97	0.24	0.12	14.08
	7900.00	1.01	100.27	25	7899.72	-26.23	26.23 S	13.74 E	29.61	152.36	0.65	0.64	-7.72
	7925.00	0.88	111.64	25	7924.72	-26.34	26.34 S	14.13 E	29.89	151.78	0.91	-0.52	45.48
	7950.00	1.03	108.18	25	7949.71	-26.48	26.48 S	14.53 E	30.20	151.25	0.64	0.60	-13.84
	7975.00	1.16	95.36	25	7974.71	-26.58	26.58 S	14.99 E	30.51	150.57	1.11	0.52	-51.28
	8000.00	0.87	96.02	25	7999.71	-26.62	26.62 S	15.43 E	30.77	149.90	1.16	-1.16	2.64
	8025.00	1.28	107.25	25	8024.70	-26.72	26.72 S	15.89 E	31.09	149.27	1.84	1.64	44.92
	8050.00	0.99	96.43	25	8049.70	-26.83	26.83 S	16.37 E	31.43	148.61	1.44	-1.16	-43.28
	8075.00	1.07	112.36	25	8074.69	-26.94	26.94 S	16.80 E	31.75	148.05	1.18	0.32	63.72
	8100.00	1.16	105.55	25	8099.69	-27.10	27.10 S	17.26 E	32.13	147.51	0.64	0.36	-27.24
	8125.00	0.91	100.45	25	8124.68	-27.20	27.20 S	17.70 E	32.45	146.95	1.06	-1.00	-20.40
	8150.00	1.23	105.83	25	8149.68	-27.31	27.31 S	18.15 E	32.79	146.39	1.34	1.28	21.52
	8175.00	1.10	98.56	25	8174.67	-27.42	27.42 S	18.65 E	33.16	145.78	0.79	-0.52	-29.08
	8200.00	0.90	110.65	25	8199.67	-27.52	27.52 S	19.07 E	33.48	145.29	1.16	-0.80	48.36
	8225.00	1.15	107.98	25	8224.67	-27.67	27.67 S	19.49 E	33.85	144.84	1.02	1.00	-10.68
	8250.00	1.10	96.23	25	8249.66	-27.78	27.78 S	19.97 E	34.21	144.29	0.94	-0.20	-47.00



PHOENIX
TECHNOLOGY SERVICES

Company: EOG Resources
Well: Patsy BPK State Com #8
Location: Chaves Co., New Mexico
Rig: Pulling Unit

Job Number: 63153
Grid Corr.: -0.30
Lat: 33.28
Long: -103.79

Calculation Method: Minimum Curvature
Proposed Azimuth: _____
RKB - MSL in feet: 20
Tie Into: Surface

Survey Tool Type	Survey Depth (ft)	Inclina- tion (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)			
	8275.00	0.99	105.24	25	8274.66	-27.86	27.86 S	20.41 E	34.54	143.77	0.79	-0.44	36.04
	8300.00	1.23	98.08	25	8299.65	-27.95	27.95 S	20.89 E	34.90	143.23	1.11	0.96	-28.64
	8325.00	0.81	107.22	25	8324.65	-28.04	28.04 S	21.32 E	35.23	142.75	1.80	-1.68	36.56
	8350.00	0.97	106.15	25	8349.64	-28.15	28.15 S	21.69 E	35.54	142.38	0.64	0.64	-4.28
	8375.00	0.89	96.63	25	8374.64	-28.23	28.23 S	22.09 E	35.85	141.96	0.69	-0.32	-38.08
	8400.00	0.87	107.58	25	8399.64	-28.31	28.31 S	22.46 E	36.14	141.57	0.68	-0.08	43.80

MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACREAGE DEDICATION PLAT

Form C-102
 Supersedes C-128
 Effective 1-1-85

All distances must be from the outer boundaries of the Section.

Operator EP Operating Company			Lease STATE 14		Well No. 1
Unit Letter H	Section 14	Township 12 SOUTH	Range 31 EAST	County CHAVES	
Actual Footage Location of Well: 1980 feet from the NORTH line and 660 feet from the EAST line					
Ground Level Elev. 4433.9	Producing Formation A: Strawn B: Cisco		Pool Wildcat	Dedicated Acreage 40 Acres	

1. Outline the acreage dedicated to the subject well by colored pencil or hatchure 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 interests of all owners been consolidated by communitization, unitization, force-pooling, etc?

☒ Yes ☐ No If answer is "yes," type of consolidation Communitization of East half (1/2) of Sec.
 for possible 320 acre gas unit.

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 interests, has been approved by the Commission.

Reading and Bates Petroleum Co.		State	
EP Operating Co.		State	
Reading and Bates Petroleum Co.	Hondo Oil and Gas Co.	Great Western Drilling Co.	
State		State	
State		State	

CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

Name Lernan Kesh
 Position **District Production Manager**
 Company **Enserch Exploration, Inc.**
 Date **March 15, 1985**

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 **AUGUST 7, 1984**
 Registered Professional Engineer and/or Land Surveyor

Certificate No. **JOHN W. WEST, 678**
RONALD J. EIDSON, 3239