

Submit 1 Copy To Appropriate District Office
District I - (575) 393-6161
1625 N. French Dr., Hobbs, NM 88240
District II - (575) 748-1283
811 S. First St., Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Rd., Aztec, NM 87410
District IV - (505) 476-3460
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-103
Revised July 18, 2013

WELL API NO. 30-025-46390	
5. Indicate Type of Lease STATE ☒ FEE ☐	
6. State Oil & Gas Lease No. 313191	
7. Lease Name or Unit Agreement Name GEM 36 STATE COM	
8. Well Number 504H	
9. OGRID Number 7377	
10. Pool name or Wildcat 97903 WC-025 G-08 S253235G; LWR BONE SPRING	
SUNDRY NOTICES AND REPORTS ON WELLS (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)	
1. Type of Well: Oil Well ☒ Gas Well ☐ Other ☐	
2. Name of Operator EOG RESOURCES	
3. Address of Operator P O BOX 2267, MIDLAND TX 79702	
4. Well Location Unit Letter C : 250 feet from the NORTH line and 2675 feet from the WEST line Section 36 Township 25S Range 32E NMPM County Lea co NM	
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3410 gl	

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐
TEMPORARILY ABANDON ☐ CHANGE PLANS ☐
PULL OR ALTER CASING ☐ MULTIPLE COMPL ☐
DOWNHOLE COMMINGLE ☐
CLOSED-LOOP SYSTEM ☐
OTHER: BHL CHANGE ☒

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐
COMMENCE DRILLING OPNS. ☐ P AND A ☐
CASING/CEMENT JOB ☐

OTHER: ☒

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

EOG respectfully wishes to notify the NMOCD of the following change:

The cellar tags for the Gem 36 State Com #503H (API 30-025-46389) and the

Gem 36 State Com #504H (API 30-025-46390) were installed on the other's location.

This resulted in the rig R/U on the wrong well, causing a reduced lateral spacing between the two wells from 930 feet to approximately 872 feet. The drilled bottom hole location for the Gem 36 State Com #504H (API 30-025-46390) is Sec. 36 T-25-S R-32-E 114' FSL 2160' FEL, as reflected in the as-drilled plat and gyro survey attached to this sundry request

Spud Date:

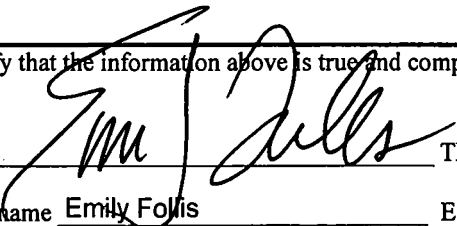
10/28/19

Rig Release Date:

11/20/19

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

SIGNATURE



TITLE Sr. Regulatory Administrator

DATE 12/17/19

Type or print name Emily Follis

E-mail address: emily_follis@eogresources.com PHONE: 432-848-9163

For State Use Only

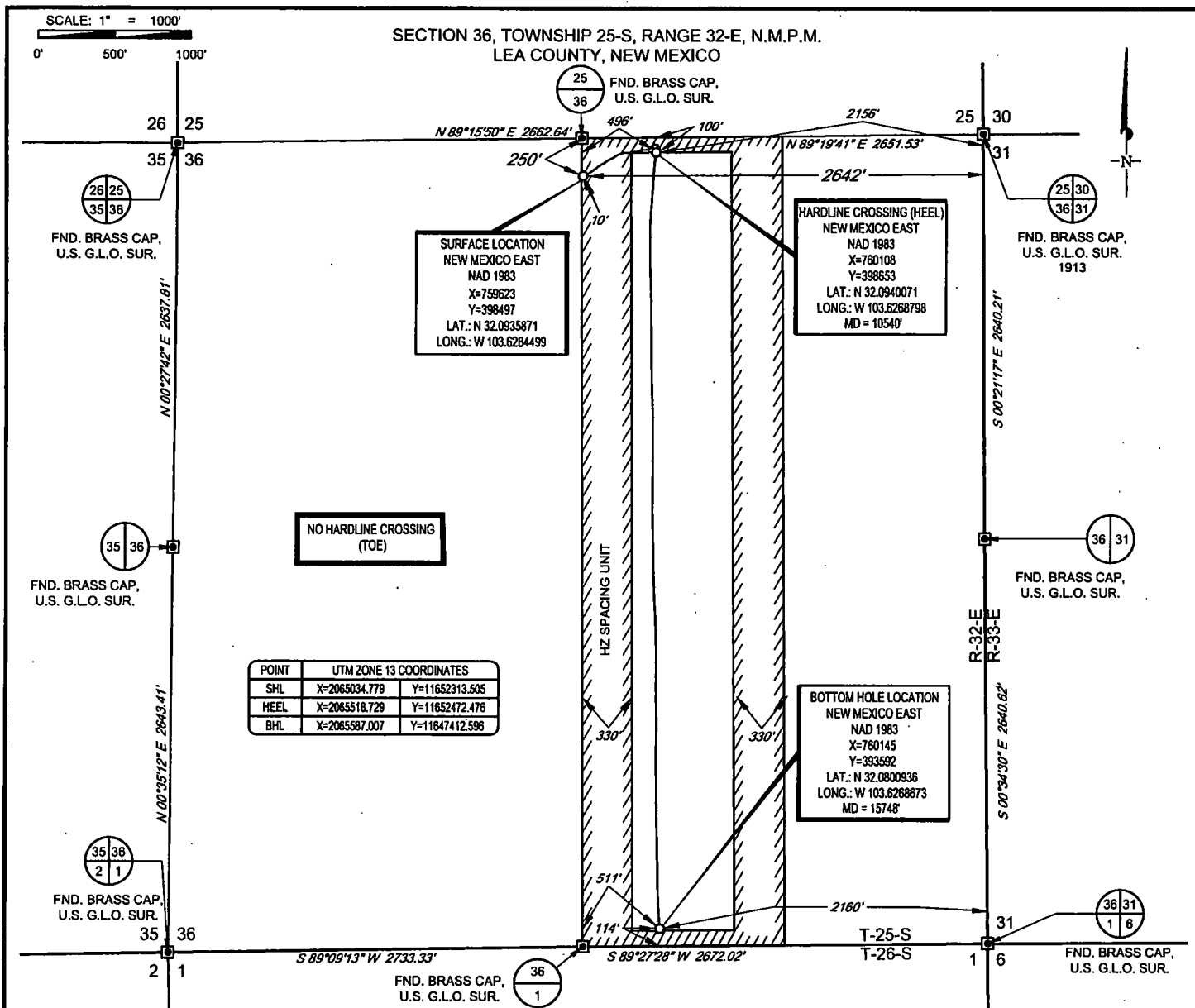
APPROVED BY:



TITLE

DATE 12/31/19

Conditions of Approval (if any):



eoeg resources, inc.



TOPOGRAPHIC
LOYALTY INNOVATION LEGACY

1400 EVERMAN PARKWAY, Ste. 148 • FT. WORTH, TEXAS 76140
TELEPHONE: (817) 744-7512 • FAX (817) 744-7554
2903 NORTH BIG SPRING • MIDLAND, TEXAS 79705
TELEPHONE: (432) 682-1653 OR (800) 767-1653 • FAX (432) 682-1743
WWW.TOPOGRAPHIC.COM

"PRELIMINARY, THIS DOCUMENT SHALL NOT
BE RECORDED FOR ANY PURPOSE."

Ramon A. Dominguez, P.S. No. 24508

GEM 36 STATE COM #504H PRE-COMPLETION DATE: 12/04/2019 FILE: C_GEM_36_STATE_COM_503H DRAWN BY: TRG SHEET: 1 OF 1	REVISION:		NOTES: 1. ORIGINAL DOCUMENT SIZE: 8.5" X 11" 2. ALL BEARINGS, DISTANCES, AND COORDINATE VALUES CONTAINED HEREIN ARE GRID BASED UPON THE NEW MEXICO COORDINATE SYSTEM OF 1983, EAST ZONE, U.S. SURVEY FEET. 3. THIS WELL LOCATION SHOWN HEREON HAS BEEN SURVEYED ON THE GROUND UNDER MY SUPERVISION AND PREPARED ACCORDING TO THE EVIDENCE FOUND AT THE TIME OF SURVEY, AND DATA PROVIDED BY EOG RESOURCES, INC. THIS CERTIFICATION IS MADE AND LIMITED TO THOSE PERSONS OR ENTITIES SHOWN ON THE FACE OF THIS PLAT AND IS NON-TRANSFERABLE. THIS SURVEY IS CERTIFIED FOR THIS TRANSACTION ONLY.



Company: EOG
 Well: Gem 36 State Com No. 504H
 Location: Lea Co., New Mexico
 Rig: BC Crane

Job Number: 65882
 Grid Corr.: -0.37
 Lat: 32.093887
 Long: -103.62954

Date: 12/17/19
 Calculation Method: Minimum Curvature
 Vertical Section AZI: _____
 RKB - MSL in feet: 25
 Tie Into: Ground

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	75.00	0.80	166.75	75	75.00	-0.51	0.51 S	0.12 E	0.52	166.75	1.07	1.07	222.33
	100.00	0.73	154.54	25	100.00	-0.82	0.82 S	0.23 E	0.85	164.49	0.71	-0.28	-48.84
	125.00	0.70	162.83	25	124.99	-1.11	1.11 S	0.34 E	1.16	162.92	0.43	-0.12	33.16
	150.00	0.92	167.65	25	149.99	-1.45	1.45 S	0.43 E	1.52	163.53	0.92	0.88	19.28
	175.00	1.05	171.53	25	174.99	-1.88	1.88 S	0.51 E	1.94	164.90	0.58	0.52	15.52
	200.00	1.05	167.67	25	199.98	-2.33	2.33 S	0.59 E	2.40	165.79	0.28	0.00	-15.44
	225.00	1.02	175.15	25	224.98	-2.77	2.77 S	0.66 E	2.85	166.67	0.55	-0.12	29.92
	250.00	1.17	175.56	25	249.97	-3.25	3.25 S	0.70 E	3.32	167.92	0.60	0.60	1.64
	275.00	0.99	170.69	25	274.97	-3.72	3.72 S	0.75 E	3.79	168.59	0.81	-0.72	-19.48
	300.00	1.11	174.43	25	299.97	-4.17	4.17 S	0.81 E	4.25	169.03	0.55	0.48	14.96
	325.00	1.05	169.97	25	324.96	-4.64	4.64 S	0.87 E	4.72	169.35	0.41	-0.24	-17.84
	350.00	1.03	176.07	25	349.96	-5.09	5.09 S	0.93 E	5.17	169.67	0.45	-0.08	24.40
	375.00	0.92	175.84	25	374.95	-5.51	5.51 S	0.96 E	5.59	170.15	0.44	-0.44	-0.92
	400.00	0.78	171.83	25	399.95	-5.88	5.88 S	1.00 E	5.96	170.39	0.61	-0.56	-16.04
	425.00	0.69	191.73	25	424.95	-6.20	6.20 S	0.99 E	6.28	170.92	1.08	-0.36	79.60
	450.00	0.65	199.26	25	449.95	-6.48	6.48 S	0.91 E	6.54	171.98	0.39	-0.16	30.12
	475.00	0.57	221.16	25	474.95	-6.71	6.71 S	0.78 E	6.75	173.33	0.98	-0.32	87.60
	500.00	0.78	235.02	25	499.94	-6.90	6.90 S	0.56 E	6.92	175.34	1.06	0.84	55.44
	525.00	0.64	250.01	25	524.94	-7.04	7.04 S	0.29 E	7.05	177.63	0.93	-0.56	59.96
	550.00	0.62	271.07	25	549.94	-7.09	7.09 S	0.03 E	7.09	179.79	0.92	-0.08	84.24
	575.00	0.80	268.52	25	574.94	-7.09	7.09 S	0.28 W	7.09	182.30	0.73	0.72	-10.20
	600.00	0.83	277.22	25	599.94	-7.07	7.07 S	0.64 W	7.10	185.16	0.51	0.12	34.80
	625.00	0.81	278.10	25	624.93	-7.02	7.02 S	0.99 W	7.09	188.05	0.09	-0.08	3.52
	650.00	0.87	263.34	25	649.93	-7.02	7.02 S	1.36 W	7.15	190.94	0.90	0.24	-59.04
	675.00	1.08	276.59	25	674.93	-7.02	7.02 S	1.78 W	7.24	194.23	1.23	0.84	53.00
	700.00	0.86	279.20	25	699.92	-6.96	6.96 S	2.20 W	7.30	197.53	0.90	-0.88	10.44
	725.00	0.99	280.87	25	724.92	-6.89	6.89 S	2.60 W	7.36	200.65	0.53	0.52	6.68
	750.00	1.05	288.93	25	749.92	-6.77	6.77 S	3.02 W	7.42	204.06	0.62	0.24	32.24



Company: EOG
 Well: Gem 36 State Com No. 504H
 Location: Lea Co., New Mexico
 Rig: BC Crane

Job Number: 65882
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Calculation Method: Minimum Curvature
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 RKB - MSL in feet: 25
 Tie Into: Ground

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	0.96	300.02	25	774.91	-6.59	6.59 S	3.42 W	7.43	207.43	0.86	-0.36	44.36
	800.00	1.04	297.06	25	799.91	-6.39	6.39 S	3.81 W	7.43	210.80	0.38	0.32	-11.84
	825.00	1.13	306.33	25	824.90	-6.14	6.14 S	4.21 W	7.44	214.43	0.79	0.36	37.08
	850.00	1.20	311.01	25	849.90	-5.82	5.82 S	4.60 W	7.42	218.35	0.47	0.28	18.72
	875.00	1.15	322.79	25	874.89	-5.45	5.45 S	4.95 W	7.36	222.28	0.98	-0.20	47.12
	900.00	1.28	317.13	25	899.89	-5.04	5.04 S	5.29 W	7.31	226.39	0.71	0.52	-22.64
	925.00	1.24	320.15	25	924.88	-4.63	4.63 S	5.66 W	7.31	230.70	0.31	-0.16	12.08
	950.00	1.27	325.08	25	949.88	-4.19	4.19 S	5.99 W	7.31	234.99	0.45	0.12	19.72
	975.00	1.30	324.84	25	974.87	-3.74	3.74 S	6.31 W	7.33	239.37	0.12	0.12	-0.96
	1000.00	1.16	339.61	25	999.86	-3.27	3.27 S	6.56 W	7.33	243.53	1.38	-0.56	59.08
	1025.00	0.66	354.29	25	1024.86	-2.89	2.89 S	6.66 W	7.26	246.58	2.19	-2.00	58.72
	1050.00	0.78	52.32	25	1049.86	-2.64	2.64 S	6.54 W	7.06	248.04	2.83	0.48	-1207.88
	1075.00	0.92	65.68	25	1074.86	-2.45	2.45 S	6.23 W	6.69	248.50	0.97	0.56	53.44
	1100.00	1.32	94.24	25	1099.85	-2.39	2.39 S	5.76 W	6.23	247.44	2.70	1.60	114.24
	1125.00	2.21	100.58	25	1124.84	-2.50	2.50 S	5.00 W	5.59	243.41	3.64	3.56	25.36
	1150.00	2.62	107.14	25	1149.82	-2.76	2.76 S	3.98 W	4.84	235.25	1.98	1.64	26.24
	1175.00	3.07	107.36	25	1174.79	-3.13	3.13 S	2.79 W	4.19	221.76	1.80	1.80	0.88
	1200.00	2.96	111.60	25	1199.75	-3.56	3.56 S	1.55 W	3.89	203.53	0.99	-0.44	16.96
	1225.00	3.79	85.40	25	1224.71	-3.73	3.73 S	0.13 W	3.74	181.96	6.92	3.32	-104.80
	1250.00	4.14	67.56	25	1249.65	-3.32	3.32 S	1.53 E	3.66	155.28	5.11	1.40	-71.36
	1275.00	4.93	68.11	25	1274.57	-2.58	2.58 S	3.36 E	4.24	127.50	3.16	3.16	2.20
	1300.00	6.07	65.28	25	1299.46	-1.63	1.63 S	5.56 E	5.79	106.30	4.69	4.56	-11.32
	1325.00	7.21	62.51	25	1324.29	-0.35	0.35 S	8.15 E	8.16	92.45	4.74	4.56	-11.08
	1350.00	7.19	62.36	25	1349.09	1.10	1.10 N	10.93 E	10.98	84.25	0.11	-0.08	-0.60
	1375.00	7.40	61.28	25	1373.89	2.60	2.60 N	13.73 E	13.97	79.27	1.00	0.84	-4.32
	1400.00	7.44	61.26	25	1398.68	4.15	4.15 N	16.56 E	17.07	75.92	0.16	0.16	-0.08
	1425.00	7.46	61.03	25	1423.47	5.72	5.72 N	19.40 E	20.22	73.58	0.14	0.08	-0.92
	1450.00	7.50	61.07	25	1448.26	7.29	7.29 N	22.24 E	23.41	71.85	0.16	0.16	0.16
	1475.00	7.43	60.31	25	1473.04	8.88	8.88 N	25.08 E	26.60	70.50	0.48	-0.28	-3.04
	1500.00	7.31	59.84	25	1497.84	10.48	10.48 N	27.86 E	29.76	69.38	0.54	-0.48	-1.88
	1525.00	7.28	59.85	25	1522.64	12.08	12.08 N	30.60 E	32.90	68.46	0.12	-0.12	0.04



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 Well: Gem 36 State Com No. 504H
 Location: Lea Co., New Mexico
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 Vertical Section AZI:
 RKB - MSL in feet: 25
 Tie Into: Ground

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)			
	1550.00	7.22	59.25	25	1547.44	13.68	13.68 N	33.32 E	36.02	67.69	0.39	-0.24	-2.40
	1575.00	7.13	58.41	25	1572.24	15.29	15.29 N	35.99 E	39.11	66.98	0.55	-0.36	-3.36
	1600.00	7.13	58.56	25	1597.05	16.91	16.91 N	38.64 E	42.18	66.36	0.07	0.00	0.60
	1625.00	7.08	58.22	25	1621.85	18.53	18.53 N	41.27 E	45.24	65.82	0.26	-0.20	-1.36
	1650.00	7.04	58.14	25	1646.66	20.15	20.15 N	43.88 E	48.29	65.33	0.16	-0.16	-0.32
	1675.00	6.95	57.19	25	1671.48	21.78	21.78 N	46.45 E	51.31	64.88	0.59	-0.36	-3.80
	1700.00	6.93	57.26	25	1696.30	23.42	23.42 N	48.99 E	54.30	64.45	0.09	-0.08	0.28
	1725.00	6.87	56.92	25	1721.11	25.05	25.05 N	51.52 E	57.28	64.07	0.29	-0.24	-1.36
	1750.00	6.89	57.04	25	1745.93	26.68	26.68 N	54.03 E	60.26	63.72	0.10	0.08	0.48
	1775.00	6.71	56.61	25	1770.76	28.30	28.30 N	56.50 E	63.20	63.40	0.75	-0.72	-1.72
	1800.00	6.72	56.54	25	1795.59	29.91	29.91 N	58.94 E	66.10	63.09	0.05	0.04	-0.28
	1825.00	6.69	56.23	25	1820.42	31.53	31.53 N	61.38 E	69.00	62.81	0.19	-0.12	-1.24
	1850.00	6.67	55.85	25	1845.25	33.15	33.15 N	63.79 E	71.89	62.54	0.19	-0.08	-1.52
	1875.00	6.63	56.10	25	1870.08	34.77	34.77 N	66.19 E	74.76	62.28	0.20	-0.16	1.00
	1900.00	6.65	55.96	25	1894.91	36.39	36.39 N	68.58 E	77.64	62.05	0.10	0.08	-0.56
	1925.00	6.67	55.47	25	1919.74	38.02	38.02 N	70.98 E	80.52	61.82	0.24	0.08	-1.96
	1950.00	6.57	55.37	25	1944.58	39.66	39.66 N	73.35 E	83.39	61.60	0.40	-0.40	-0.40
	1975.00	6.55	54.92	25	1969.41	41.29	41.29 N	75.70 E	86.22	61.39	0.22	-0.08	-1.80
	2000.00	6.43	54.90	25	1994.25	42.91	42.91 N	78.01 E	89.03	61.18	0.48	-0.48	-0.08
	2025.00	6.35	55.13	25	2019.10	44.51	44.51 N	80.29 E	91.80	61.00	0.34	-0.32	0.92
	2050.00	6.32	54.62	25	2043.94	46.10	46.10 N	82.54 E	94.54	60.82	0.26	-0.12	-2.04
	2075.00	6.20	54.08	25	2068.79	47.68	47.68 N	84.76 E	97.25	60.64	0.53	-0.48	-2.16
	2100.00	6.13	53.07	25	2093.65	49.28	49.28 N	86.92 E	99.92	60.45	0.52	-0.28	-4.04
	2125.00	6.10	52.58	25	2118.51	50.89	50.89 N	89.04 E	102.56	60.25	0.24	-0.12	-1.96
	2150.00	6.08	52.27	25	2143.37	52.50	52.50 N	91.14 E	105.18	60.06	0.15	-0.08	-1.24
	2175.00	5.94	51.23	25	2168.23	54.12	54.12 N	93.20 E	107.78	59.85	0.71	-0.56	-4.16
	2200.00	5.92	50.66	25	2193.09	55.75	55.75 N	95.21 E	110.33	59.65	0.25	-0.08	-2.28
	2225.00	5.84	50.25	25	2217.96	57.38	57.38 N	97.18 E	112.86	59.44	0.36	-0.32	-1.64
	2250.00	5.86	49.75	25	2242.83	59.02	59.02 N	99.13 E	115.37	59.23	0.22	0.08	-2.00
	2275.00	5.83	49.96	25	2267.70	60.66	60.66 N	101.08 E	117.88	59.03	0.15	-0.12	0.84
	2300.00	5.87	49.97	25	2292.57	62.30	62.30 N	103.03 E	120.40	58.84	0.16	0.16	0.04



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							N/S (ft)	E/W (ft)	Distance (ft)	Angle (deg)			
	2325.00	5.89	49.92	25	2317.44	63.95	63.95 N	104.99 E	122.93	58.65	0.08	0.08	-0.20
	2350.00	6.17	56.52	25	2342.30	65.52	65.52 N	107.09 E	125.54	58.54	2.99	1.12	26.40
	2375.00	6.44	61.24	25	2367.15	66.93	66.93 N	109.44 E	128.29	58.55	2.34	1.08	18.88
	2400.00	6.55	61.72	25	2391.99	68.28	68.28 N	111.93 E	131.11	58.61	0.49	0.44	1.92
	2425.00	6.46	62.01	25	2416.83	69.62	69.62 N	114.42 E	133.94	58.68	0.38	-0.36	1.16
	2450.00	6.49	61.84	25	2441.67	70.94	70.94 N	116.91 E	136.75	58.75	0.14	0.12	-0.68
	2475.00	6.54	61.61	25	2466.51	72.29	72.29 N	119.41 E	139.59	58.81	0.23	0.20	-0.92
	2500.00	6.47	61.58	25	2491.35	73.64	73.64 N	121.90 E	142.41	58.87	0.28	-0.28	-0.12
	2525.00	6.44	61.14	25	2516.19	74.98	74.98 N	124.37 E	145.22	58.91	0.23	-0.12	-1.76
	2550.00	6.48	60.23	25	2541.03	76.36	76.36 N	126.82 E	148.03	58.95	0.44	0.16	-3.64
	2575.00	6.50	59.59	25	2565.87	77.78	77.78 N	129.26 E	150.86	58.97	0.30	0.08	-2.56
	2600.00	6.51	59.35	25	2590.71	79.21	79.21 N	131.70 E	153.69	58.97	0.12	0.04	-0.96
	2625.00	6.54	58.99	25	2615.55	80.67	80.67 N	134.14 E	156.53	58.98	0.20	0.12	-1.44
	2650.00	6.56	58.84	25	2640.39	82.14	82.14 N	136.59 E	159.38	58.98	0.11	0.08	-0.60
	2675.00	6.68	58.08	25	2665.22	83.65	83.65 N	139.04 E	162.27	58.97	0.59	0.48	-3.04
	2700.00	6.69	57.94	25	2690.05	85.19	85.19 N	141.51 E	165.18	58.95	0.08	0.04	-0.56
	2725.00	6.72	57.45	25	2714.88	86.75	86.75 N	143.98 E	168.09	58.93	0.26	0.12	-1.96
	2750.00	6.80	57.31	25	2739.70	88.34	88.34 N	146.46 E	171.04	58.90	0.33	0.32	-0.56
	2775.00	6.76	57.16	25	2764.53	89.94	89.94 N	148.94 E	173.99	58.87	0.17	-0.16	-0.60
	2800.00	6.75	57.31	25	2789.36	91.53	91.53 N	151.41 E	176.93	58.85	0.08	-0.04	0.60
	2825.00	6.83	57.18	25	2814.18	93.13	93.13 N	153.90 E	179.88	58.82	0.33	0.32	-0.52
	2850.00	6.87	56.99	25	2839.00	94.75	94.75 N	156.40 E	182.86	58.79	0.18	0.16	-0.76
	2875.00	6.92	57.54	25	2863.82	96.37	96.37 N	158.92 E	185.86	58.77	0.33	0.20	2.20
	2900.00	7.01	58.45	25	2888.64	97.98	97.98 N	161.49 E	188.89	58.76	0.57	0.36	3.64
	2925.00	7.15	62.01	25	2913.45	99.51	99.51 N	164.17 E	191.97	58.78	1.84	0.56	14.24
	2950.00	7.21	63.80	25	2938.25	100.93	100.93 N	166.95 E	195.09	58.85	0.93	0.24	7.16
	2975.00	7.20	64.13	25	2963.05	102.30	102.30 N	169.77 E	198.21	58.93	0.17	-0.04	1.32
	3000.00	7.21	63.95	25	2987.86	103.68	103.68 N	172.59 E	201.33	59.01	0.10	0.04	-0.72
	3025.00	6.92	62.99	25	3012.67	105.05	105.05 N	175.34 E	204.40	59.07	1.25	-1.16	-3.84
	3050.00	6.89	63.05	25	3037.48	106.41	106.41 N	178.02 E	207.40	59.13	0.12	-0.12	0.24
	3075.00	6.74	61.22	25	3062.31	107.80	107.80 N	180.64 E	210.36	59.17	1.06	-0.60	-7.32



Company: EOG
 Well: Gem 36 State Com No. 504H
 Location: Lea Co., New Mexico
 Rig: BC Crane

Job Number: 65882
 Grid Corr.: -0.37
 Lat: 32.093887
 Long: -103.62954

Calculation Method: Minimum Curvature
 Vertical Section AZI:
 RKB - MSL In feet: 25
 Tie Into: Ground

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)			
	3100.00	6.74	60.01	25	3087.13	109.24	109.24 N	183.20 E	213.29	59.19	0.57	0.00	-4.84
	3125.00	6.73	59.47	25	3111.96	110.72	110.72 N	185.73 E	216.22	59.20	0.26	-0.04	-2.16
	3150.00	6.72	58.57	25	3136.79	112.22	112.22 N	188.24 E	219.15	59.20	0.42	-0.04	-3.60
	3175.00	6.69	57.14	25	3161.62	113.78	113.78 N	190.71 E	222.07	59.18	0.68	-0.12	-5.72
	3200.00	6.64	55.78	25	3186.45	115.38	115.38 N	193.13 E	224.97	59.14	0.66	-0.20	-5.44
	3225.00	6.73	55.40	25	3211.28	117.02	117.02 N	195.53 E	227.87	59.10	0.40	0.36	-1.52
	3250.00	6.96	53.14	25	3236.10	118.76	118.76 N	197.95 E	230.84	59.04	1.42	0.92	-9.04
	3275.00	7.08	53.02	25	3260.91	120.60	120.60 N	200.39 E	233.88	58.96	0.48	0.48	-0.48
	3300.00	7.08	53.08	25	3285.72	122.45	122.45 N	202.85 E	236.95	58.88	0.03	0.00	0.24
	3325.00	7.11	53.51	25	3310.53	124.30	124.30 N	205.33 E	240.02	58.81	0.24	0.12	1.72
	3350.00	7.13	53.42	25	3335.34	126.14	126.14 N	207.82 E	243.10	58.74	0.09	0.08	-0.36
	3375.00	7.15	54.29	25	3360.15	127.97	127.97 N	210.33 E	246.20	58.68	0.44	0.08	3.48
	3400.00	7.16	57.93	25	3384.95	129.71	129.71 N	212.91 E	249.31	58.65	1.81	0.04	14.56
	3425.00	6.99	63.01	25	3409.76	131.23	131.23 N	215.59 E	252.38	58.67	2.59	-0.68	20.32
	3450.00	6.88	64.91	25	3434.58	132.55	132.55 N	218.30 E	255.39	58.73	1.02	-0.44	7.60
	3475.00	6.58	66.34	25	3459.41	133.76	133.76 N	220.96 E	258.30	58.81	1.37	-1.20	5.72
	3500.00	6.69	67.47	25	3484.24	134.90	134.90 N	223.62 E	261.16	58.90	0.68	0.44	4.52
	3525.00	6.44	67.38	25	3509.07	135.99	135.99 N	226.26 E	263.99	58.99	1.00	-1.00	-0.36
	3550.00	6.34	66.41	25	3533.92	137.08	137.08 N	228.82 E	266.74	59.07	0.59	-0.40	-3.88
	3575.00	6.23	67.29	25	3558.77	138.16	138.16 N	231.34 E	269.45	59.15	0.58	-0.44	3.52
	3600.00	6.11	67.85	25	3583.62	139.19	139.19 N	233.82 E	272.11	59.24	0.54	-0.48	2.24
	3625.00	5.91	68.93	25	3608.49	140.15	140.15 N	236.25 E	274.70	59.32	0.92	-0.80	4.32
	3650.00	5.88	69.59	25	3633.35	141.06	141.06 N	238.65 E	277.23	59.41	0.30	-0.12	2.64
	3675.00	5.84	70.21	25	3658.22	141.94	141.94 N	241.05 E	279.74	59.51	0.30	-0.16	2.48
	3700.00	5.62	72.68	25	3683.10	142.73	142.73 N	243.42 E	282.18	59.61	1.32	-0.88	9.88
	3725.00	5.58	73.56	25	3707.98	143.44	143.44 N	245.75 E	284.55	59.73	0.38	-0.16	3.52
	3750.00	5.69	75.15	25	3732.86	144.10	144.10 N	248.12 E	286.93	59.85	0.76	0.44	6.36
	3775.00	5.64	76.93	25	3757.74	144.70	144.70 N	250.51 E	289.30	59.99	0.73	-0.20	7.12
	3800.00	5.61	76.93	25	3782.62	145.25	145.25 N	252.90 E	291.64	60.13	0.12	-0.12	0.00
	3825.00	5.60	78.17	25	3807.50	145.78	145.78 N	255.28 E	293.97	60.27	0.49	-0.04	4.96
	3850.00	5.63	78.52	25	3832.38	146.27	146.27 N	257.68 E	296.30	60.42	0.18	0.12	1.40



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Well: Gem 36 State Com No. 504H
Location: Lea Co., New Mexico
Rig: BC Crane

Job Number: 65882
Grid Corr.: -0.37
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Calculation Method: Minimum Curvature
Vertical Section AZI:
RKB - MSL in feet: 25
Tie Into: Ground

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)			
	3875.00	5.54	80.21	25	3857.26	146.72	146.72 N	260.07 E	298.60	60.57	0.75	-0.36	6.76
	3900.00	5.49	81.28	25	3882.14	147.11	147.11 N	262.44 E	300.86	60.73	0.46	-0.20	4.28
	3925.00	5.40	82.79	25	3907.03	147.44	147.44 N	264.79 E	303.07	60.89	0.68	-0.36	6.04
	3950.00	5.33	83.83	25	3931.92	147.71	147.71 N	267.11 E	305.23	61.06	0.48	-0.28	4.16
	3975.00	5.37	84.91	25	3956.81	147.94	147.94 N	269.43 E	307.37	61.23	0.43	0.16	4.32
	4000.00	5.24	88.26	25	3981.70	148.08	148.08 N	271.74 E	309.46	61.41	1.34	-0.52	13.40
	4025.00	5.16	88.04	25	4006.60	148.15	148.15 N	274.00 E	311.49	61.60	0.33	-0.32	-0.88
	4050.00	5.16	90.62	25	4031.50	148.18	148.18 N	276.25 E	313.48	61.79	0.93	0.00	10.32
	4075.00	5.22	91.56	25	4056.40	148.13	148.13 N	278.51 E	315.45	61.99	0.42	0.24	3.76
	4100.00	5.20	93.09	25	4081.29	148.04	148.04 N	280.78 E	317.41	62.20	0.56	-0.08	6.12
	4125.00	5.22	94.87	25	4106.19	147.88	147.88 N	283.04 E	319.35	62.41	0.65	0.08	7.12
	4150.00	5.31	96.58	25	4131.09	147.65	147.65 N	285.32 E	321.26	62.64	0.72	0.36	6.84
	4175.00	5.28	97.23	25	4155.98	147.38	147.38 N	287.61 E	323.17	62.87	0.27	-0.12	2.60
	4200.00	5.34	97.04	25	4180.87	147.09	147.09 N	289.91 E	325.09	63.10	0.25	0.24	-0.76
	4225.00	5.37	96.86	25	4205.76	146.81	146.81 N	292.23 E	327.03	63.33	0.14	0.12	-0.72
	4250.00	5.33	92.41	25	4230.65	146.62	146.62 N	294.55 E	329.02	63.54	1.67	-0.16	-17.80
	4275.00	5.24	88.65	25	4255.55	146.60	146.60 N	296.85 E	331.07	63.72	1.43	-0.36	-15.04
	4300.00	5.25	87.32	25	4280.44	146.68	146.68 N	299.13 E	333.16	63.88	0.49	0.04	-5.32
	4325.00	5.07	85.36	25	4305.34	146.82	146.82 N	301.38 E	335.24	64.03	1.01	-0.72	-7.84
	4350.00	4.99	85.14	25	4330.25	147.00	147.00 N	303.56 E	337.28	64.16	0.33	-0.32	-0.88
	4375.00	4.98	84.41	25	4355.15	147.20	147.20 N	305.72 E	339.31	64.29	0.26	-0.04	-2.92
	4400.00	5.00	84.02	25	4380.06	147.42	147.42 N	307.89 E	341.36	64.41	0.16	0.08	-1.56
	4425.00	5.09	81.75	25	4404.96	147.69	147.69 N	310.07 E	343.45	64.53	0.88	0.36	-9.08
	4450.00	5.52	74.10	25	4429.85	148.18	148.18 N	312.32 E	345.69	64.62	3.31	1.72	-30.60
	4475.00	5.64	72.66	25	4454.73	148.87	148.87 N	314.65 E	348.09	64.68	0.74	0.48	-5.76
	4500.00	5.60	74.28	25	4479.61	149.57	149.57 N	317.00 E	350.51	64.74	0.65	-0.16	6.48
	4525.00	5.55	75.93	25	4504.50	150.20	150.20 N	319.34 E	352.90	64.81	0.67	-0.20	6.60
	4550.00	5.51	79.08	25	4529.38	150.72	150.72 N	321.70 E	355.25	64.90	1.22	-0.16	12.60
	4575.00	5.40	80.99	25	4554.27	151.13	151.13 N	324.04 E	357.55	65.00	0.85	-0.44	7.64
	4600.00	5.38	80.96	25	4579.16	151.50	151.50 N	326.36 E	359.80	65.10	0.08	-0.08	-0.12
	4625.00	5.27	80.53	25	4604.05	151.87	151.87 N	328.65 E	362.04	65.20	0.47	-0.44	-1.72



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Calculation Method: Minimum Curvature
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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)			
	4650.00	5.19	81.47	25	4628.94	152.23	152.23 N	330.90 E	364.23	65.30	0.47	-0.32	3.76
	4675.00	5.13	81.30	25	4653.84	152.56	152.56 N	333.12 E	366.39	65.39	0.25	-0.24	-0.68
	4700.00	4.79	81.67	25	4678.75	152.88	152.88 N	335.26 E	368.47	65.49	1.37	-1.36	1.48
	4725.00	4.78	81.81	25	4703.66	153.18	153.18 N	337.32 E	370.47	65.58	0.06	-0.04	0.56
	4750.00	4.74	81.95	25	4728.57	153.48	153.48 N	339.37 E	372.46	65.67	0.17	-0.16	0.56
	4775.00	4.64	81.08	25	4753.49	153.78	153.78 N	341.40 E	374.43	65.75	0.49	-0.40	-3.48
	4800.00	4.48	81.12	25	4778.41	154.09	154.09 N	343.36 E	376.35	65.83	0.64	-0.64	0.16
	4825.00	4.33	81.66	25	4803.34	154.37	154.37 N	345.26 E	378.20	65.91	0.62	-0.60	2.16
	4850.00	4.12	80.24	25	4828.27	154.66	154.66 N	347.08 E	379.98	65.98	0.94	-0.84	-5.68
	4875.00	4.20	78.44	25	4853.20	155.00	155.00 N	348.86 E	381.74	66.04	0.61	0.32	-7.20
	4900.00	4.15	78.70	25	4878.14	155.36	155.36 N	350.64 E	383.52	66.10	0.21	-0.20	1.04
	4925.00	4.21	78.34	25	4903.07	155.72	155.72 N	352.43 E	385.30	66.16	0.26	0.24	-1.44
	4950.00	4.22	77.77	25	4928.00	156.10	156.10 N	354.23 E	387.10	66.22	0.17	0.04	-2.28
	4975.00	4.17	78.09	25	4952.94	156.48	156.48 N	356.01 E	388.89	66.27	0.22	-0.20	1.28
	5000.00	4.35	76.99	25	4977.87	156.88	156.88 N	357.83 E	390.71	66.33	0.79	0.72	-4.40
	5025.00	4.23	78.07	25	5002.80	157.29	157.29 N	359.65 E	392.54	66.38	0.58	-0.48	4.32
	5050.00	4.30	77.40	25	5027.73	157.68	157.68 N	361.47 E	394.37	66.43	0.34	0.28	-2.68
	5075.00	4.18	76.87	25	5052.66	158.10	158.10 N	363.27 E	396.18	66.48	0.50	-0.48	-2.12
	5100.00	4.16	77.57	25	5077.59	158.50	158.50 N	365.05 E	397.97	66.53	0.22	-0.08	2.80
	5125.00	4.25	76.57	25	5102.53	158.91	158.91 N	366.83 E	399.77	66.58	0.46	0.36	-4.00
	5150.00	4.21	75.70	25	5127.46	159.35	159.35 N	368.62 E	401.59	66.62	0.30	-0.16	-3.48
	5175.00	4.17	77.00	25	5152.39	159.78	159.78 N	370.40 E	403.39	66.67	0.41	-0.16	5.20
	5200.00	4.19	75.68	25	5177.33	160.21	160.21 N	372.17 E	405.19	66.71	0.39	0.08	-5.28
	5225.00	4.22	77.29	25	5202.26	160.64	160.64 N	373.95 E	406.99	66.75	0.49	0.12	6.44
	5250.00	3.75	75.05	25	5227.20	161.05	161.05 N	375.64 E	408.71	66.79	1.98	-1.88	-8.96
	5275.00	3.75	77.27	25	5252.14	161.44	161.44 N	377.22 E	410.32	66.83	0.58	0.00	8.88
	5300.00	3.92	81.29	25	5277.09	161.75	161.75 N	378.87 E	411.95	66.88	1.27	0.68	16.08
	5325.00	3.96	83.12	25	5302.03	161.99	161.99 N	380.57 E	413.61	66.94	0.53	0.16	7.32
	5350.00	3.83	80.59	25	5326.97	162.23	162.23 N	382.25 E	415.25	67.00	0.86	-0.52	-10.12
	5375.00	3.65	80.06	25	5351.92	162.50	162.50 N	383.86 E	416.84	67.06	0.73	-0.72	-2.12
	5400.00	3.76	83.16	25	5376.87	162.73	162.73 N	385.45 E	418.40	67.11	0.91	0.44	12.40



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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)			
	5425.00	3.83	84.62	25	5401.81	162.91	162.91 N	387.10 E	419.98	67.18	0.48	0.28	5.84
	5450.00	3.91	83.30	25	5426.75	163.09	163.09 N	388.78 E	421.60	67.24	0.48	0.32	-5.28
	5475.00	3.83	83.34	25	5451.70	163.28	163.28 N	390.45 E	423.22	67.31	0.32	-0.32	0.16
	5500.00	3.88	81.75	25	5476.64	163.50	163.50 N	392.12 E	424.84	67.37	0.47	0.20	-6.36
	5525.00	3.79	85.52	25	5501.58	163.69	163.69 N	393.78 E	426.45	67.43	1.07	-0.36	15.08
	5550.00	3.93	83.44	25	5526.53	163.85	163.85 N	395.46 E	428.06	67.49	0.79	0.56	-8.32
	5575.00	3.98	86.48	25	5551.47	164.00	164.00 N	397.17 E	429.70	67.56	0.86	0.20	12.16
	5600.00	3.91	89.24	25	5576.41	164.07	164.07 N	398.89 E	431.31	67.64	0.81	-0.28	11.04
	5625.00	3.94	87.99	25	5601.35	164.11	164.11 N	400.60 E	432.91	67.72	0.36	0.12	-5.00
	5650.00	3.94	85.13	25	5626.29	164.21	164.21 N	402.32 E	434.54	67.80	0.79	0.00	-11.44
	5675.00	3.87	78.66	25	5651.23	164.45	164.45 N	404.00 E	436.19	67.85	1.78	-0.28	-25.88
	5700.00	3.98	77.05	25	5676.17	164.81	164.81 N	405.67 E	437.87	67.89	0.62	0.44	-6.44
	5725.00	4.36	65.60	25	5701.11	165.40	165.40 N	407.38 E	439.68	67.90	3.65	1.52	-45.80
	5750.00	4.74	60.21	25	5726.03	166.30	166.30 N	409.14 E	441.65	67.88	2.29	1.52	-21.56
	5775.00	4.82	57.28	25	5750.94	167.38	167.38 N	410.92 E	443.71	67.84	1.03	0.32	-11.72
	5800.00	4.76	57.48	25	5775.86	168.51	168.51 N	412.68 E	445.76	67.79	0.25	-0.24	0.80
	5825.00	4.82	58.99	25	5800.77	169.61	169.61 N	414.46 E	447.82	67.74	0.56	0.24	6.04
	5850.00	4.88	59.92	25	5825.68	170.68	170.68 N	416.28 E	449.91	67.71	0.40	0.24	3.72
	5875.00	4.74	61.28	25	5850.59	171.71	171.71 N	418.10 E	451.99	67.67	0.72	-0.56	5.44
	5900.00	4.67	59.21	25	5875.51	172.73	172.73 N	419.88 E	454.02	67.64	0.73	-0.28	-8.28
	5925.00	4.72	60.42	25	5900.42	173.76	173.76 N	421.65 E	456.05	67.60	0.44	0.20	4.84
	5950.00	4.65	60.24	25	5925.34	174.77	174.77 N	423.43 E	458.08	67.57	0.29	-0.28	-0.72
	5975.00	4.74	60.41	25	5950.26	175.78	175.78 N	425.20 E	460.11	67.54	0.36	0.36	0.68
	6000.00	4.75	60.33	25	5975.17	176.80	176.80 N	427.00 E	462.16	67.51	0.05	0.04	-0.32
	6025.00	4.69	60.45	25	6000.08	177.82	177.82 N	428.79 E	464.20	67.48	0.24	-0.24	0.48
	6050.00	4.82	61.78	25	6025.00	178.82	178.82 N	430.61 E	466.26	67.45	0.68	0.52	5.32
	6075.00	4.80	61.35	25	6049.91	179.82	179.82 N	432.45 E	468.34	67.42	0.16	-0.08	-1.72
	6100.00	4.60	61.31	25	6074.83	180.80	180.80 N	434.25 E	470.38	67.40	0.80	-0.80	-0.16
	6125.00	4.70	61.52	25	6099.74	181.77	181.77 N	436.03 E	472.40	67.37	0.41	0.40	0.84
	6150.00	4.78	62.51	25	6124.66	182.74	182.74 N	437.85 E	474.45	67.35	0.46	0.32	3.96
	6175.00	4.70	63.14	25	6149.57	183.68	183.68 N	439.69 E	476.51	67.33	0.38	-0.32	2.52



Company: EOG
 Well: Gem 36 State Com No. 504H
 Location: Lea Co., New Mexico
 Rig: BC Crane

Job Number: 65882
 Grid Corr.: -0.37
 Lat: 32.093887
 Long: -103.62954

Calculation Method: Minimum Curvature
 Vertical Section AZI:
 RKB - MSL in feet: 25
 Tie Into: Ground

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)			
	6200.00	4.62	64.26	25	6174.49	184.58	184.58 N	441.51 E	478.54	67.31	0.48	-0.32	4.48
	6225.00	4.40	64.09	25	6199.41	185.44	185.44 N	443.28 E	480.50	67.30	0.88	-0.88	-0.68
	6250.00	4.39	64.28	25	6224.34	186.28	186.28 N	445.00 E	482.42	67.29	0.07	-0.04	0.76
	6275.00	4.04	62.27	25	6249.27	187.10	187.10 N	446.64 E	484.25	67.27	1.52	-1.40	-8.04
	6300.00	3.44	48.99	25	6274.22	188.00	188.00 N	447.99 E	485.84	67.23	4.20	-2.40	-53.12
	6325.00	3.00	32.38	25	6299.18	189.05	189.05 N	448.91 E	487.09	67.16	4.11	-1.76	-66.44
	6350.00	3.07	32.85	25	6324.14	190.16	190.16 N	449.62 E	488.18	67.07	0.30	0.28	1.88
	6375.00	2.97	30.38	25	6349.11	191.28	191.28 N	450.31 E	489.25	66.99	0.66	-0.40	-9.88
	6400.00	2.94	12.17	25	6374.08	192.47	192.47 N	450.77 E	490.14	66.88	3.74	-0.12	-72.84
	6425.00	2.63	3.81	25	6399.05	193.67	193.67 N	450.95 E	490.77	66.76	2.04	-1.24	-33.44
	6450.00	2.95	7.32	25	6424.02	194.88	194.88 N	451.07 E	491.36	66.63	1.45	1.28	14.04
	6475.00	2.77	2.11	25	6448.99	196.12	196.12 N	451.17 E	491.95	66.51	1.26	-0.72	-20.84
	6500.00	3.13	6.72	25	6473.95	197.40	197.40 N	451.27 E	492.56	66.37	1.72	1.44	18.44
	6525.00	2.97	6.05	25	6498.92	198.72	198.72 N	451.42 E	493.23	66.24	0.66	-0.64	-2.68
	6550.00	2.91	7.02	25	6523.89	200.00	200.00 N	451.57 E	493.87	66.11	0.31	-0.24	3.88
	6575.00	2.87	9.46	25	6548.85	201.24	201.24 N	451.75 E	494.54	65.99	0.52	-0.16	9.76
	6600.00	3.01	10.74	25	6573.82	202.51	202.51 N	451.97 E	495.27	65.87	0.62	0.56	5.12
	6625.00	2.86	13.45	25	6598.79	203.76	203.76 N	452.24 E	496.02	65.75	0.82	-0.60	10.84
	6650.00	2.91	12.38	25	6623.76	204.98	204.98 N	452.52 E	496.78	65.63	0.29	0.20	-4.28
	6675.00	2.89	14.68	25	6648.72	206.21	206.21 N	452.82 E	497.56	65.52	0.47	-0.08	9.20
	6700.00	2.93	13.60	25	6673.69	207.44	207.44 N	453.13 E	498.35	65.40	0.27	0.16	-4.32
	6725.00	2.88	13.18	25	6698.66	208.68	208.68 N	453.42 E	499.13	65.29	0.22	-0.20	-1.68
	6750.00	1.64	19.28	25	6723.64	209.63	209.63 N	453.68 E	499.77	65.20	5.05	-4.96	24.40
	6775.00	0.77	25.24	25	6748.63	210.12	210.12 N	453.87 E	500.15	65.16	3.51	-3.48	23.84
	6800.00	0.57	56.51	25	6773.63	210.34	210.34 N	454.05 E	500.40	65.14	1.64	-0.80	125.08
	6825.00	0.50	59.39	25	6798.63	210.46	210.46 N	454.24 E	500.63	65.14	0.30	-0.28	11.52
	6850.00	0.39	60.11	25	6823.63	210.56	210.56 N	454.41 E	500.82	65.14	0.44	-0.44	2.88
	6875.00	0.42	59.25	25	6848.63	210.65	210.65 N	454.56 E	501.00	65.14	0.12	0.12	-3.44
	6900.00	0.41	71.79	25	6873.63	210.72	210.72 N	454.73 E	501.18	65.14	0.36	-0.04	50.16
	6925.00	0.49	59.59	25	6898.63	210.80	210.80 N	454.90 E	501.37	65.14	0.50	0.32	-48.80
	6950.00	0.31	69.74	25	6923.63	210.88	210.88 N	455.06 E	501.55	65.14	0.77	-0.72	40.60



Company: EOG
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 Rig: BC Crane

Job Number: 65882
 Grid Corr.: -0.37
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Calculation Method: Minimum Curvature
 Vertical Section AZI: _____
 RKB - MSL in feet: 25
 Tie Into: Ground

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)			
	6975.00	0.47	45.38	25	6948.63	210.98	210.98 N	455.20 E	501.71	65.13	0.91	0.64	-97.44
	7000.00	0.38	105.09	25	6973.63	211.03	211.03 N	455.35 E	501.87	65.14	1.72	-0.36	238.84
	7025.00	0.48	84.24	25	6998.63	211.02	211.02 N	455.53 E	502.04	65.15	0.74	0.40	-83.40
	7050.00	0.47	91.42	25	7023.63	211.02	211.02 N	455.74 E	502.23	65.15	0.24	-0.04	28.72
	7075.00	0.57	71.56	25	7048.62	211.06	211.06 N	455.96 E	502.44	65.16	0.82	0.40	-79.44
	7100.00	0.49	73.27	25	7073.62	211.13	211.13 N	456.18 E	502.67	65.16	0.33	-0.32	6.84
	7125.00	0.55	96.12	25	7098.62	211.15	211.15 N	456.40 E	502.88	65.17	0.86	0.24	91.40
	7150.00	0.72	106.42	25	7123.62	211.09	211.09 N	456.67 E	503.10	65.19	0.82	0.68	41.20
	7175.00	0.46	69.30	25	7148.62	211.08	211.08 N	456.92 E	503.32	65.20	1.80	-1.04	-148.48
	7200.00	0.39	33.10	25	7173.62	211.19	211.19 N	457.06 E	503.49	65.20	1.09	-0.28	-144.80
	7225.00	0.50	116.55	25	7198.62	211.21	211.21 N	457.20 E	503.63	65.20	2.39	0.44	333.80
	7250.00	0.49	146.74	25	7223.62	211.07	211.07 N	457.36 E	503.72	65.23	1.03	-0.04	120.76
	7275.00	0.52	122.71	25	7248.62	210.92	210.92 N	457.51 E	503.79	65.25	0.85	0.12	-96.12
	7300.00	0.64	136.52	25	7273.62	210.76	210.76 N	457.70 E	503.90	65.28	0.73	0.48	55.24
	7325.00	0.56	131.10	25	7298.61	210.58	210.58 N	457.89 E	503.99	65.30	0.39	-0.32	-21.68
	7350.00	0.42	57.01	25	7323.61	210.55	210.55 N	458.06 E	504.13	65.31	2.40	-0.56	-296.36
	7375.00	0.56	155.50	25	7348.61	210.49	210.49 N	458.19 E	504.22	65.33	2.99	0.56	393.96
	7400.00	0.57	136.80	25	7373.61	210.29	210.29 N	458.32 E	504.26	65.35	0.74	0.04	-74.80
	7425.00	0.61	181.20	25	7398.61	210.06	210.06 N	458.41 E	504.24	65.38	1.79	0.16	177.60
	7450.00	0.88	125.25	25	7423.61	209.82	209.82 N	458.56 E	504.28	65.41	2.95	1.08	-223.80
	7475.00	0.60	158.93	25	7448.61	209.59	209.59 N	458.76 E	504.37	65.45	2.02	-1.12	134.72
	7500.00	0.97	158.55	25	7473.60	209.27	209.27 N	458.89 E	504.35	65.49	1.48	1.48	-1.52
	7525.00	0.95	139.69	25	7498.60	208.91	208.91 N	459.10 E	504.40	65.53	1.26	-0.08	-75.44
	7550.00	1.11	141.33	25	7523.60	208.56	208.56 N	459.39 E	504.51	65.58	0.65	0.64	6.56
	7575.00	1.00	137.89	25	7548.59	208.21	208.21 N	459.68 E	504.64	65.63	0.51	-0.44	-13.76
	7600.00	0.93	137.97	25	7573.59	207.90	207.90 N	459.97 E	504.77	65.68	0.28	-0.28	0.32
	7625.00	0.92	132.95	25	7598.59	207.61	207.61 N	460.25 E	504.91	65.72	0.33	-0.04	-20.08
	7650.00	1.27	150.67	25	7623.58	207.24	207.24 N	460.53 E	505.01	65.77	1.93	1.40	70.88
	7675.00	1.04	148.95	25	7648.58	206.80	206.80 N	460.78 E	505.06	65.83	0.93	-0.92	-6.88
	7700.00	0.97	135.15	25	7673.57	206.46	206.46 N	461.05 E	505.16	65.88	1.01	-0.28	-55.20
	7725.00	1.07	128.50	25	7698.57	206.16	206.16 N	461.38 E	505.35	65.92	0.62	0.40	-26.60



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Calculation Method: Minimum Curvature
 Vertical Section AZI:
 RKB - MSL in feet: 25
 Tie Into: Ground

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)			
	7750.00	1.04	132.41	25	7723.56	205.86	205.86 N	461.73 E	505.54	65.97	0.31	-0.12	15.64
	7775.00	0.84	143.11	25	7748.56	205.56	205.56 N	462.01 E	505.68	66.01	1.06	-0.80	42.80
	7800.00	1.11	131.03	25	7773.56	205.26	205.26 N	462.30 E	505.82	66.06	1.35	1.08	-48.32
	7825.00	1.41	139.94	25	7798.55	204.86	204.86 N	462.68 E	506.01	66.12	1.43	1.20	35.64
	7850.00	1.38	120.92	25	7823.54	204.47	204.47 N	463.14 E	506.27	66.18	1.85	-0.12	-76.08
	7875.00	1.24	122.19	25	7848.54	204.17	204.17 N	463.63 E	506.59	66.23	0.57	-0.56	5.08
	7900.00	1.32	129.06	25	7873.53	203.85	203.85 N	464.08 E	506.88	66.29	0.69	0.32	27.48
	7925.00	1.31	113.09	25	7898.52	203.55	203.55 N	464.57 E	507.20	66.34	1.46	-0.04	-63.88
	7950.00	1.49	134.74	25	7923.52	203.21	203.21 N	465.06 E	507.52	66.40	2.22	0.72	86.60
	7975.00	1.59	130.15	25	7948.51	202.76	202.76 N	465.55 E	507.79	66.47	0.63	0.40	-18.36
	8000.00	1.54	124.60	25	7973.50	202.35	202.35 N	466.10 E	508.12	66.53	0.64	-0.20	-22.20
	8025.00	1.53	120.52	25	7998.49	201.99	201.99 N	466.66 E	508.50	66.60	0.44	-0.04	-16.32
	8050.00	1.60	129.17	25	8023.48	201.60	201.60 N	467.22 E	508.86	66.66	0.98	0.28	34.60
	8075.00	1.38	111.61	25	8048.47	201.26	201.26 N	467.77 E	509.23	66.72	2.02	-0.88	-70.24
	8100.00	1.33	100.99	25	8073.46	201.10	201.10 N	468.33 E	509.68	66.76	1.02	-0.20	-42.48
	8125.00	1.74	114.26	25	8098.46	200.89	200.89 N	468.96 E	510.18	66.81	2.16	1.64	53.08
	8150.00	1.58	109.98	25	8123.45	200.61	200.61 N	469.63 E	510.69	66.87	0.81	-0.64	-17.12
	8175.00	1.36	121.44	25	8148.44	200.34	200.34 N	470.21 E	511.11	66.92	1.46	-0.88	45.84
	8200.00	1.22	123.97	25	8173.43	200.04	200.04 N	470.69 E	511.43	66.97	0.60	-0.56	10.12
	8225.00	1.07	117.26	25	8198.43	199.78	199.78 N	471.11 E	511.72	67.02	0.80	-0.60	-26.84
	8250.00	1.01	134.43	25	8223.42	199.52	199.52 N	471.48 E	511.96	67.06	1.26	-0.24	68.68
	8275.00	1.47	122.75	25	8248.42	199.19	199.19 N	471.91 E	512.22	67.12	2.09	1.84	-46.72
	8300.00	1.09	130.20	25	8273.41	198.87	198.87 N	472.36 E	512.51	67.17	1.66	-1.52	29.80
	8325.00	0.99	157.45	25	8298.41	198.51	198.51 N	472.62 E	512.62	67.22	2.00	-0.40	109.00
	8350.00	1.42	131.83	25	8323.40	198.11	198.11 N	472.94 E	512.75	67.27	2.72	1.72	-102.48
	8375.00	1.23	133.78	25	8348.39	197.72	197.72 N	473.36 E	512.99	67.33	0.78	-0.76	7.80
	8400.00	1.33	138.98	25	8373.39	197.31	197.31 N	473.74 E	513.19	67.39	0.61	0.40	20.80
	8425.00	1.12	131.12	25	8398.38	196.93	196.93 N	474.12 E	513.39	67.44	1.07	-0.84	-31.44
	8450.00	0.97	122.85	25	8423.38	196.66	196.66 N	474.48 E	513.62	67.49	0.85	-0.60	-33.08
	8475.00	0.89	136.76	25	8448.37	196.40	196.40 N	474.79 E	513.81	67.53	0.96	-0.32	55.64
	8500.00	1.14	133.59	25	8473.37	196.09	196.09 N	475.10 E	513.98	67.57	1.02	1.00	-12.68



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Calculation Method: Minimum Curvature
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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)			
	8525.00	1.13	123.64	25	8498.37	195.78	195.78 N	475.49 E	514.22	67.62	0.79	-0.04	-39.80
	8550.00	1.12	145.40	25	8523.36	195.44	195.44 N	475.83 E	514.41	67.67	1.70	-0.04	87.04
	8575.00	1.24	151.23	25	8548.36	195.00	195.00 N	476.10 E	514.49	67.73	0.68	0.48	23.32
	8600.00	0.92	141.38	25	8573.35	194.61	194.61 N	476.36 E	514.58	67.78	1.48	-1.28	-39.40
	8625.00	0.86	159.05	25	8598.35	194.28	194.28 N	476.55 E	514.63	67.82	1.12	-0.24	70.68
	8650.00	1.02	164.48	25	8623.34	193.89	193.89 N	476.68 E	514.60	67.87	0.73	0.64	21.72
	8675.00	1.17	149.81	25	8648.34	193.45	193.45 N	476.86 E	514.61	67.92	1.27	0.60	-58.68
	8700.00	0.64	136.04	25	8673.34	193.13	193.13 N	477.09 E	514.70	67.96	2.28	-2.12	-55.08
	8725.00	0.94	183.16	25	8698.33	192.83	192.83 N	477.18 E	514.66	68.00	2.76	1.20	188.48
	8750.00	1.13	153.94	25	8723.33	192.40	192.40 N	477.27 E	514.59	68.04	2.21	0.76	-116.88
	8775.00	1.02	150.93	25	8748.33	191.98	191.98 N	477.49 E	514.64	68.10	0.49	-0.44	-12.04
	8800.00	1.06	150.97	25	8773.32	191.59	191.59 N	477.71 E	514.70	68.15	0.16	0.16	0.16
	8825.00	1.16	138.50	25	8798.32	191.19	191.19 N	477.99 E	514.81	68.20	1.04	0.40	-49.88
	8850.00	1.10	164.17	25	8823.31	190.77	190.77 N	478.22 E	514.87	68.25	2.02	-0.24	102.68
	8875.00	0.71	171.79	25	8848.31	190.39	190.39 N	478.31 E	514.81	68.30	1.63	-1.56	30.48
	8900.00	0.24	235.44	25	8873.31	190.21	190.21 N	478.29 E	514.72	68.31	2.56	-1.88	254.60
	8925.00	0.66	137.93	25	8898.31	190.07	190.07 N	478.34 E	514.72	68.33	2.92	1.68	-390.04
	8950.00	0.95	167.38	25	8923.31	189.76	189.76 N	478.48 E	514.74	68.37	1.98	1.16	117.80
	8975.00	0.74	188.25	25	8948.30	189.40	189.40 N	478.51 E	514.63	68.41	1.48	-0.84	83.48
	9000.00	0.44	146.41	25	8973.30	189.16	189.16 N	478.54 E	514.57	68.43	2.02	-1.20	-167.36
	9025.00	0.44	167.29	25	8998.30	188.99	188.99 N	478.61 E	514.57	68.45	0.64	0.00	83.52
	9050.00	0.62	186.94	25	9023.30	188.76	188.76 N	478.61 E	514.49	68.48	1.01	0.72	78.60
	9075.00	0.80	164.70	25	9048.30	188.46	188.46 N	478.64 E	514.41	68.51	1.30	0.72	-88.96
	9100.00	0.60	142.06	25	9073.30	188.18	188.18 N	478.77 E	514.43	68.54	1.35	-0.80	-90.56
	9125.00	0.51	104.04	25	9098.30	188.05	188.05 N	478.96 E	514.55	68.56	1.49	-0.36	-152.08
	9150.00	0.26	184.39	25	9123.29	187.97	187.97 N	479.06 E	514.62	68.58	2.13	-1.00	321.40
	9175.00	0.16	224.14	25	9148.29	187.89	187.89 N	479.03 E	514.56	68.58	0.68	-0.40	159.00
	9200.00	0.81	176.48	25	9173.29	187.69	187.69 N	479.02 E	514.48	68.60	2.85	2.60	-190.64
	9225.00	0.64	205.03	25	9198.29	187.38	187.38 N	478.97 E	514.32	68.63	1.57	-0.68	114.20
	9250.00	0.32	163.18	25	9223.29	187.19	187.19 N	478.93 E	514.22	68.65	1.82	-1.28	-167.40
	9275.00	0.11	66.89	25	9248.29	187.13	187.13 N	478.98 E	514.23	68.66	1.40	-0.84	-385.16



Company: EOG
 Well: Gem 36 State Com No. 504H
 Location: Lea Co., New Mexico
 Rig: BC Crane

Job Number: 65882
 Grid Corr.: -0.37
 Lat: 32.093887
 Long: -103.62954

Calculation Method: Minimum Curvature
 Vertical Section AZI:
 RKB - MSL in feet: 25
 Tie Into: Ground

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)			
	9300.00	0.78	124.89	25	9273.29	187.05	187.05 N	479.14 E	514.35	68.68	2.91	2.68	232.00
	9325.00	1.09	141.66	25	9298.29	186.76	186.76 N	479.43 E	514.52	68.72	1.64	1.24	67.08
	9350.00	0.42	165.30	25	9323.28	186.49	186.49 N	479.60 E	514.58	68.75	2.90	-2.68	94.56
	9375.00	0.38	176.67	25	9348.28	186.32	186.32 N	479.62 E	514.54	68.77	0.35	-0.16	45.48
	9400.00	0.40	129.68	25	9373.28	186.18	186.18 N	479.70 E	514.56	68.79	1.25	0.08	-187.96
	9425.00	0.15	340.73	25	9398.28	186.15	186.15 N	479.75 E	514.60	68.79	2.14	-1.00	844.20
	9450.00	0.65	56.85	25	9423.28	186.26	186.26 N	479.86 E	514.74	68.79	2.52	2.00	-1135.52
	9475.00	0.61	2.17	25	9448.28	186.47	186.47 N	479.98 E	514.93	68.77	2.32	-0.16	-218.72
	9500.00	1.00	2.08	25	9473.28	186.82	186.82 N	480.00 E	515.07	68.73	1.56	1.56	-0.36
	9525.00	0.54	325.23	25	9498.28	187.14	187.14 N	479.94 E	515.13	68.70	2.61	-1.84	1292.60
	9550.00	0.43	18.54	25	9523.28	187.32	187.32 N	479.90 E	515.16	68.68	1.78	-0.44	-1226.76
	9575.00	0.71	2.03	25	9548.27	187.57	187.57 N	479.94 E	515.29	68.65	1.29	1.12	-66.04
	9600.00	0.98	330.19	25	9573.27	187.91	187.91 N	479.83 E	515.32	68.61	2.13	1.08	1312.64
	9625.00	0.85	333.36	25	9598.27	188.26	188.26 N	479.65 E	515.27	68.57	0.56	-0.52	12.68
	9650.00	1.28	333.41	25	9623.26	188.67	188.67 N	479.44 E	515.23	68.52	1.72	1.72	0.20
	9675.00	1.45	353.93	25	9648.26	189.24	189.24 N	479.28 E	515.29	68.45	2.06	0.68	82.08
	9700.00	0.67	15.73	25	9673.25	189.69	189.69 N	479.28 E	515.46	68.41	3.46	-3.12	-1352.80
	9725.00	1.00	327.78	25	9698.25	190.02	190.02 N	479.21 E	515.51	68.37	2.97	1.32	1248.20
	9750.00	1.36	323.80	25	9723.25	190.44	190.44 N	478.92 E	515.39	68.31	1.48	1.44	-15.92
	9775.00	1.39	342.45	25	9748.24	190.97	190.97 N	478.65 E	515.34	68.25	1.79	0.12	74.60
	9800.00	1.57	356.47	25	9773.23	191.60	191.60 N	478.54 E	515.47	68.18	1.61	0.72	56.08
	9825.00	1.42	342.99	25	9798.22	192.24	192.24 N	478.43 E	515.60	68.11	1.52	-0.60	-53.92
	9850.00	2.01	347.24	25	9823.21	192.96	192.96 N	478.24 E	515.70	68.03	2.41	2.36	17.00
	9875.00	2.03	339.45	25	9848.19	193.81	193.81 N	477.99 E	515.78	67.93	1.10	0.08	-31.16
	9900.00	2.03	333.55	25	9873.18	194.62	194.62 N	477.63 E	515.76	67.83	0.84	0.00	-23.60
	9925.00	1.72	346.52	25	9898.17	195.38	195.38 N	477.35 E	515.79	67.74	2.09	-1.24	51.88
	9950.00	1.89	7.80	25	9923.15	196.15	196.15 N	477.32 E	516.05	67.66	2.75	0.68	-1354.88
	9975.00	1.95	0.78	25	9948.14	196.98	196.98 N	477.38 E	516.42	67.58	0.97	0.24	-28.08
	10000.00	2.58	355.68	25	9973.12	197.97	197.97 N	477.34 E	516.77	67.47	2.64	2.52	1419.60
	10025.00	1.96	352.00	25	9998.10	198.96	198.96 N	477.24 E	517.05	67.37	2.55	-2.48	-14.72
	10050.00	1.46	18.15	25	10023.09	199.68	199.68 N	477.28 E	517.37	67.30	3.66	-2.00	-1335.40



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Calculation Method: Minimum Curvature
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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)			
	10075.00	2.28	11.32	25	10048.08	200.47	200.47 N	477.48 E	517.85	67.22	3.39	3.28	-27.32
	10100.00	2.10	350.79	25	10073.06	201.41	201.41 N	477.50 E	518.24	67.13	3.20	-0.72	1357.88
	10125.00	1.61	356.49	25	10098.04	202.21	202.21 N	477.41 E	518.47	67.04	2.09	-1.96	22.80
	10150.00	1.57	18.78	25	10123.04	202.89	202.89 N	477.50 E	518.81	66.98	2.46	-0.16	-1350.84
	10175.00	2.23	10.05	25	10148.02	203.69	203.69 N	477.69 E	519.31	66.91	2.88	2.64	-34.92
	10200.00	1.78	356.41	25	10173.01	204.56	204.56 N	477.75 E	519.70	66.82	2.61	-1.80	1385.44
	10225.00	2.01	352.09	25	10197.99	205.38	205.38 N	477.67 E	519.95	66.73	1.08	0.92	-17.28
	10250.00	2.21	352.32	25	10222.98	206.29	206.29 N	477.54 E	520.19	66.64	0.80	0.80	0.92
	10275.00	1.89	357.75	25	10247.96	207.18	207.18 N	477.46 E	520.47	66.54	1.50	-1.28	21.72
	10300.00	1.89	198.49	25	10272.95	207.20	207.20 N	477.31 E	520.35	66.53	14.87	0.00	-637.04
	10325.00	2.78	192.36	25	10297.93	206.22	206.22 N	477.05 E	519.72	66.62	3.69	3.56	-24.52
	10350.00	8.28	194.23	25	10322.81	203.88	203.88 N	476.48 E	518.27	66.83	22.01	22.00	7.48
	10375.00	12.25	194.03	25	10347.40	199.56	199.56 N	475.39 E	515.58	67.23	15.88	15.88	-0.80
	10400.00	14.31	194.72	25	10371.73	194.00	194.00 N	473.97 E	512.13	67.74	8.26	8.24	2.76
	10425.00	16.76	191.78	25	10395.82	187.48	187.48 N	472.45 E	508.29	68.36	10.29	9.80	-11.76
	10450.00	17.89	191.61	25	10419.68	180.19	180.19 N	470.94 E	504.23	69.06	4.52	4.52	-0.68
	10475.00	16.48	190.45	25	10443.57	172.94	172.94 N	469.52 E	500.36	69.78	5.80	-5.64	-4.64
	10500.00	18.21	187.85	25	10467.43	165.58	165.58 N	468.34 E	496.75	70.53	7.58	6.92	-10.40
	10525.00	21.00	187.21	25	10490.98	157.27	157.27 N	467.25 E	493.01	71.40	11.19	11.16	-2.56
	10550.00	23.39	186.04	25	10514.12	147.89	147.89 N	466.16 E	489.06	72.40	9.72	9.56	-4.68
	10575.00	26.09	186.40	25	10536.83	137.49	137.49 N	465.03 E	484.93	73.53	10.82	10.80	1.44
	10600.00	29.51	186.21	25	10558.94	125.90	125.90 N	463.75 E	480.54	74.81	13.68	13.68	-0.76
	10625.00	32.56	185.40	25	10580.36	113.08	113.08 N	462.45 E	476.07	76.26	12.31	12.20	-3.24
	10650.00	36.05	185.70	25	10601.01	99.06	99.06 N	461.09 E	471.61	77.87	13.98	13.96	1.20
	10675.00	38.89	185.23	25	10620.85	83.92	83.92 N	459.64 E	467.24	79.65	11.42	11.36	-1.88
	10700.00	44.03	184.37	25	10639.57	67.43	67.43 N	458.26 E	463.20	81.63	20.69	20.56	-3.44
	10725.00	46.87	184.38	25	10657.11	49.67	49.67 N	456.90 E	459.59	83.80	11.36	11.36	0.04
	10750.00	46.89	184.55	25	10674.20	31.48	31.48 N	455.48 E	456.57	86.05	0.50	0.08	0.68
	10775.00	47.96	183.64	25	10691.11	13.11	13.11 N	454.17 E	454.36	88.35	5.05	4.28	-3.64
	10800.00	51.26	183.67	25	10707.31	-5.89	5.89 S	452.95 E	452.99	90.74	13.20	13.20	0.12
	10825.00	54.22	183.00	25	10722.44	-25.75	25.75 S	451.80 E	452.53	93.26	12.03	11.84	-2.68



PHOENIX
TECHNOLOGY SERVICES

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Rig: BC Crane

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Calculation Method: Minimum Curvature
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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)			
	10850.00	54.14	183.45	25	10737.08	-45.99	45.99 S	450.66 E	453.00	95.83	1.49	-0.32	1.80
	10875.00	55.96	183.84	25	10751.40	-66.44	66.44 S	449.36 E	454.24	98.41	7.39	7.28	1.56
	10900.00	59.63	184.26	25	10764.72	-87.53	87.53 S	447.86 E	456.33	101.06	14.75	14.68	1.68
	10925.00	62.41	184.04	25	10776.83	-109.34	109.34 S	446.28 E	459.48	103.77	11.15	11.12	-0.88
	10950.00	61.46	184.00	25	10788.59	-131.35	131.35 S	444.73 E	463.72	106.45	3.80	-3.80	-0.16
	10975.00	61.96	184.61	25	10800.44	-153.30	153.30 S	443.08 E	468.85	109.09	2.94	2.00	2.44
	11000.00	65.42	182.97	25	10811.52	-175.66	175.66 S	441.60 E	475.26	111.69	15.04	13.84	-6.56
	11025.00	67.90	182.54	25	10821.42	-198.58	198.58 S	440.50 E	483.19	114.27	10.04	9.92	-1.72
	11050.00	70.73	182.59	25	10830.25	-221.95	221.95 S	439.45 E	492.32	116.80	11.32	11.32	0.20