



Lea County, NM (NAD 83 NME)

Barlow 34 Fed Com #702H

Plan #0.1

PROJECT DETAILS: Lea County, NM (NAD 83 NME)

Geodetic System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone: New Mexico Eastern Zone
System Datum: Mean Sea Level

WELL DETAILS: #702H

Ground Level: 3261.00
MS = 25' @ 3288.00usft
Northing: 364974.00
Easting: 779016.00
Latitude: 32.00107672
Longitude: -103.56660013

SECTION DETAILS

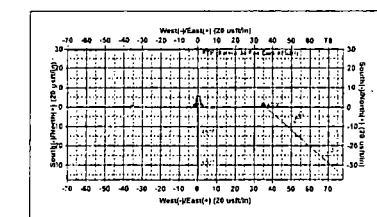
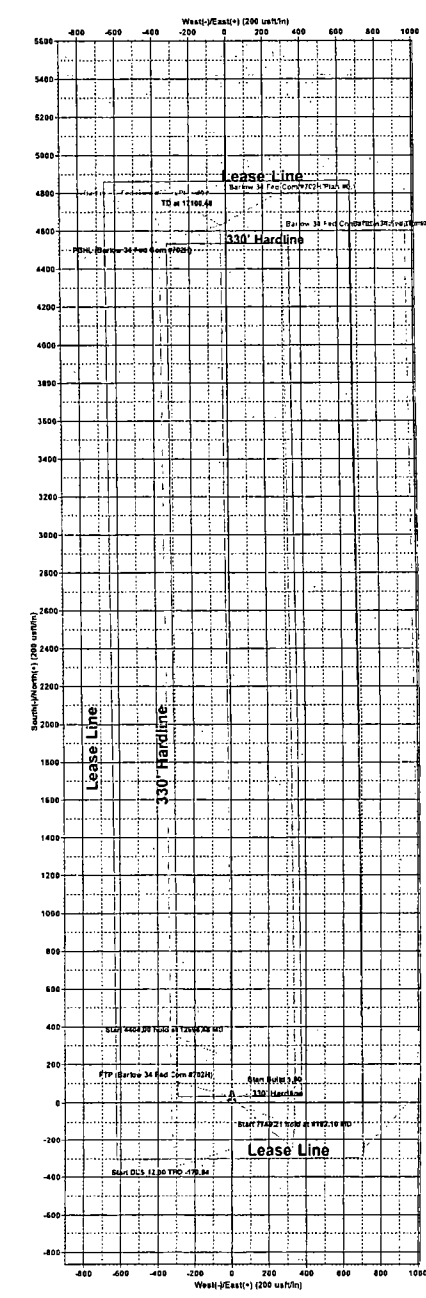
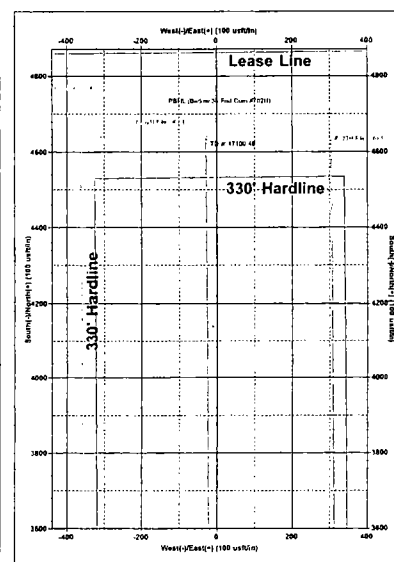
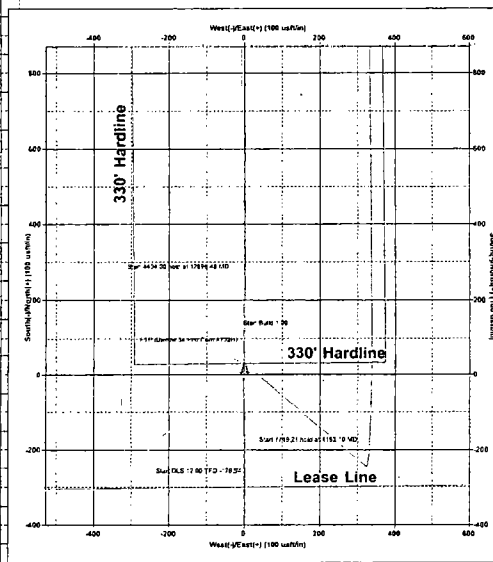
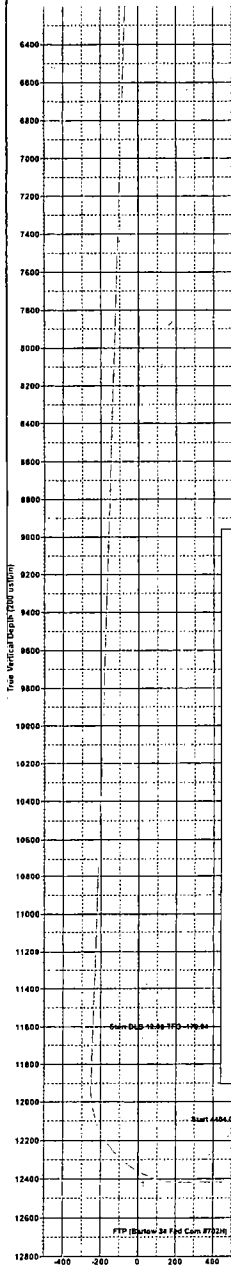
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Diag	TFace	YSect	Target	Annotation
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2	4006.00	0.00	0.00	4006.00	0.00	0.00	0.00	0.00	0.00		
3	4182.10	1.82	179.59	4182.07	-2.89	0.02	1.00	179.59	-2.89		
4	11931.31	1.82	179.59	11827.36	-248.13	1.80	0.00	0.00	-248.14		
5	12696.48	90.00	359.65	12420.00	228.08	-1.10	12.00	-179.84	228.08		
6	17100.48	90.00	359.65	12420.00	4632.00	-28.00	0.00	0.00	4632.08	PBHL (Barlow 34 Fed Com #702H)	

CASING DETAILS

No casing data is available

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/-S	+E/-W	Northing	Easting
PBHL (Barlow 34 Fed Com #702H)	12420.00	4632.00	-28.00	365006.00	778988.00
FTP (Barlow 34 Fed Com #702H)	12420.00	30.00	0.00	365004.00	779016.00





EOG Resources - Midland

Lea County, NM (NAD 83 NME)

Barlow 34 Fed Com

#702H

OH

Plan: Plan #0.1

Standard Planning Report

09 March, 2017

HOBBS OCD
OCT 03 2017
RECEIVED



EOG Resources, Inc.

Planning Report

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well #702H
Company:	EOG Resources - Midland	TVD Reference:	KB = 25' @ 3286.00usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB = 25' @ 3286.00usft
Site:	Barlow 34 Fed Com	North Reference:	Grid
Well:	#702H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.1		

Project	Lea County, NM (NAD 83 NME)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site	Barlow 34 Fed Com		
Site Position:		Northing:	364,974.00 usft
From:	Map	Easting:	778,981.00 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16"
		Latitude:	32.00107741
		Longitude:	-103.56671303
		Grid Convergence:	0.41°

Well	#702H		
Well Position	+N/-S	0.00 usft	Northing:
	+E/-W	35.00 usft	Easting:
Position Uncertainty	0.00 usft	Wellhead Elevation:	0.00 usft
		Latitude:	32.00107673
		Longitude:	-103.56660013
		Ground Level:	3,261.00 usft

Wellbore	OH		
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Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	3/9/2017	6.97	59.86	47,835

Design	Plan #0.1		
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Audit Notes:			
Version:	Phase:	PLAN	Tie On Depth:
			0.00

Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.00	0.00	0.00	359.60

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
4,000.00	0.00	0.00	4,000.00	0.00	0.00	0.00	0.00	0.00	0.00	
4,182.10	1.82	179.59	4,182.07	-2.89	0.02	1.00	1.00	0.00	179.59	
11,931.31	1.82	179.59	11,927.36	-249.13	1.80	0.00	0.00	0.00	0.00	
12,696.48	90.00	359.65	12,420.00	228.08	-1.10	12.00	11.52	-23.52	-179.94	
17,100.48	90.00	359.65	12,420.00	4,632.00	-28.00	0.00	0.00	0.00	0.00	PBHL (Barlow 34 Fed



EOG Resources, Inc.

Planning Report

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Company:	EOG Resources - Midland	TVD Reference:	KB = 25' @ 3286.00usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB = 25' @ 3286.00usft
Site:	Barlow 34 Fed Com	North Reference:	Grid
Well:	#702H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.1		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00
1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.00	0.00	0.00
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00
1,900.00	0.00	0.00	1,900.00	0.00	0.00	0.00	0.00	0.00	0.00
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00
2,100.00	0.00	0.00	2,100.00	0.00	0.00	0.00	0.00	0.00	0.00
2,200.00	0.00	0.00	2,200.00	0.00	0.00	0.00	0.00	0.00	0.00
2,300.00	0.00	0.00	2,300.00	0.00	0.00	0.00	0.00	0.00	0.00
2,400.00	0.00	0.00	2,400.00	0.00	0.00	0.00	0.00	0.00	0.00
2,500.00	0.00	0.00	2,500.00	0.00	0.00	0.00	0.00	0.00	0.00
2,600.00	0.00	0.00	2,600.00	0.00	0.00	0.00	0.00	0.00	0.00
2,700.00	0.00	0.00	2,700.00	0.00	0.00	0.00	0.00	0.00	0.00
2,800.00	0.00	0.00	2,800.00	0.00	0.00	0.00	0.00	0.00	0.00
2,900.00	0.00	0.00	2,900.00	0.00	0.00	0.00	0.00	0.00	0.00
3,000.00	0.00	0.00	3,000.00	0.00	0.00	0.00	0.00	0.00	0.00
3,100.00	0.00	0.00	3,100.00	0.00	0.00	0.00	0.00	0.00	0.00
3,200.00	0.00	0.00	3,200.00	0.00	0.00	0.00	0.00	0.00	0.00
3,300.00	0.00	0.00	3,300.00	0.00	0.00	0.00	0.00	0.00	0.00
3,400.00	0.00	0.00	3,400.00	0.00	0.00	0.00	0.00	0.00	0.00
3,500.00	0.00	0.00	3,500.00	0.00	0.00	0.00	0.00	0.00	0.00
3,600.00	0.00	0.00	3,600.00	0.00	0.00	0.00	0.00	0.00	0.00
3,700.00	0.00	0.00	3,700.00	0.00	0.00	0.00	0.00	0.00	0.00
3,800.00	0.00	0.00	3,800.00	0.00	0.00	0.00	0.00	0.00	0.00
3,900.00	0.00	0.00	3,900.00	0.00	0.00	0.00	0.00	0.00	0.00
4,000.00	0.00	0.00	4,000.00	0.00	0.00	0.00	0.00	0.00	0.00
4,100.00	1.00	179.59	4,100.00	-0.87	0.01	-0.87	1.00	1.00	0.00
4,182.10	1.82	179.59	4,182.07	-2.89	0.02	-2.89	1.00	1.00	0.00
4,200.00	1.82	179.59	4,199.96	-3.46	0.03	-3.46	0.00	0.00	0.00
4,300.00	1.82	179.59	4,299.91	-6.64	0.05	-6.64	0.00	0.00	0.00
4,400.00	1.82	179.59	4,399.86	-9.82	0.07	-9.82	0.00	0.00	0.00
4,500.00	1.82	179.59	4,499.81	-13.00	0.09	-13.00	0.00	0.00	0.00
4,600.00	1.82	179.59	4,599.76	-16.17	0.12	-16.17	0.00	0.00	0.00
4,700.00	1.82	179.59	4,699.71	-19.35	0.14	-19.35	0.00	0.00	0.00
4,800.00	1.82	179.59	4,799.66	-22.53	0.16	-22.53	0.00	0.00	0.00
4,900.00	1.82	179.59	4,899.61	-25.71	0.19	-25.71	0.00	0.00	0.00
5,000.00	1.82	179.59	4,999.56	-28.88	0.21	-28.88	0.00	0.00	0.00
5,100.00	1.82	179.59	5,099.51	-32.06	0.23	-32.06	0.00	0.00	0.00
5,200.00	1.82	179.59	5,199.46	-35.24	0.25	-35.24	0.00	0.00	0.00



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Wellbore:	OH		
Design:	Plan #0.1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
5,300.00	1.82	179.59	5,299.40	-38.42	0.28	-38.42	0.00	0.00	0.00
5,400.00	1.82	179.59	5,399.35	-41.59	0.30	-41.59	0.00	0.00	0.00
5,500.00	1.82	179.59	5,499.30	-44.77	0.32	-44.77	0.00	0.00	0.00
5,600.00	1.82	179.59	5,599.25	-47.95	0.35	-47.95	0.00	0.00	0.00
5,700.00	1.82	179.59	5,699.20	-51.13	0.37	-51.13	0.00	0.00	0.00
5,800.00	1.82	179.59	5,799.15	-54.30	0.39	-54.31	0.00	0.00	0.00
5,900.00	1.82	179.59	5,899.10	-57.48	0.42	-57.48	0.00	0.00	0.00
6,000.00	1.82	179.59	5,999.05	-60.66	0.44	-60.66	0.00	0.00	0.00
6,100.00	1.82	179.59	6,099.00	-63.84	0.46	-63.84	0.00	0.00	0.00
6,200.00	1.82	179.59	6,198.95	-67.01	0.48	-67.02	0.00	0.00	0.00
6,300.00	1.82	179.59	6,298.90	-70.19	0.51	-70.19	0.00	0.00	0.00
6,400.00	1.82	179.59	6,398.85	-73.37	0.53	-73.37	0.00	0.00	0.00
6,500.00	1.82	179.59	6,498.80	-76.55	0.55	-76.55	0.00	0.00	0.00
6,600.00	1.82	179.59	6,598.75	-79.72	0.58	-79.73	0.00	0.00	0.00
6,700.00	1.82	179.59	6,698.70	-82.90	0.60	-82.90	0.00	0.00	0.00
6,800.00	1.82	179.59	6,798.65	-86.08	0.62	-86.08	0.00	0.00	0.00
6,900.00	1.82	179.59	6,898.60	-89.26	0.64	-89.26	0.00	0.00	0.00
7,000.00	1.82	179.59	6,998.55	-92.44	0.67	-92.44	0.00	0.00	0.00
7,100.00	1.82	179.59	7,098.50	-95.61	0.69	-95.62	0.00	0.00	0.00
7,200.00	1.82	179.59	7,198.45	-98.79	0.71	-98.79	0.00	0.00	0.00
7,300.00	1.82	179.59	7,298.39	-101.97	0.74	-101.97	0.00	0.00	0.00
7,400.00	1.82	179.59	7,398.34	-105.15	0.76	-105.15	0.00	0.00	0.00
7,500.00	1.82	179.59	7,498.29	-108.32	0.78	-108.33	0.00	0.00	0.00
7,600.00	1.82	179.59	7,598.24	-111.50	0.81	-111.50	0.00	0.00	0.00
7,700.00	1.82	179.59	7,698.19	-114.68	0.83	-114.68	0.00	0.00	0.00
7,800.00	1.82	179.59	7,798.14	-117.86	0.85	-117.86	0.00	0.00	0.00
7,900.00	1.82	179.59	7,898.09	-121.03	0.87	-121.04	0.00	0.00	0.00
8,000.00	1.82	179.59	7,998.04	-124.21	0.90	-124.21	0.00	0.00	0.00
8,100.00	1.82	179.59	8,097.99	-127.39	0.92	-127.39	0.00	0.00	0.00
8,200.00	1.82	179.59	8,197.94	-130.57	0.94	-130.57	0.00	0.00	0.00
8,300.00	1.82	179.59	8,297.89	-133.74	0.97	-133.75	0.00	0.00	0.00
8,400.00	1.82	179.59	8,397.84	-136.92	0.99	-136.93	0.00	0.00	0.00
8,500.00	1.82	179.59	8,497.79	-140.10	1.01	-140.10	0.00	0.00	0.00
8,600.00	1.82	179.59	8,597.74	-143.28	1.04	-143.28	0.00	0.00	0.00
8,700.00	1.82	179.59	8,697.69	-146.45	1.06	-146.46	0.00	0.00	0.00
8,800.00	1.82	179.59	8,797.64	-149.63	1.08	-149.64	0.00	0.00	0.00
8,900.00	1.82	179.59	8,897.59	-152.81	1.10	-152.81	0.00	0.00	0.00
9,000.00	1.82	179.59	8,997.54	-155.99	1.13	-155.99	0.00	0.00	0.00
9,100.00	1.82	179.59	9,097.49	-159.16	1.15	-159.17	0.00	0.00	0.00
9,200.00	1.82	179.59	9,197.44	-162.34	1.17	-162.35	0.00	0.00	0.00
9,300.00	1.82	179.59	9,297.38	-165.52	1.20	-165.52	0.00	0.00	0.00
9,400.00	1.82	179.59	9,397.33	-168.70	1.22	-168.70	0.00	0.00	0.00
9,500.00	1.82	179.59	9,497.28	-171.88	1.24	-171.88	0.00	0.00	0.00
9,600.00	1.82	179.59	9,597.23	-175.05	1.26	-175.06	0.00	0.00	0.00
9,700.00	1.82	179.59	9,697.18	-178.23	1.29	-178.24	0.00	0.00	0.00
9,800.00	1.82	179.59	9,797.13	-181.41	1.31	-181.41	0.00	0.00	0.00
9,900.00	1.82	179.59	9,897.08	-184.59	1.33	-184.59	0.00	0.00	0.00
10,000.00	1.82	179.59	9,997.03	-187.76	1.36	-187.77	0.00	0.00	0.00
10,100.00	1.82	179.59	10,096.98	-190.94	1.38	-190.95	0.00	0.00	0.00
10,200.00	1.82	179.59	10,196.93	-194.12	1.40	-194.12	0.00	0.00	0.00
10,300.00	1.82	179.59	10,296.88	-197.30	1.43	-197.30	0.00	0.00	0.00
10,400.00	1.82	179.59	10,396.83	-200.47	1.45	-200.48	0.00	0.00	0.00
10,500.00	1.82	179.59	10,496.78	-203.65	1.47	-203.66	0.00	0.00	0.00
10,600.00	1.82	179.59	10,596.73	-206.83	1.49	-206.83	0.00	0.00	0.00



EOG Resources, Inc.

Planning Report

Database: EDM 5000.1 Single User Db
Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Site: Barlow 34 Fed Com
Well: #702H
Wellbore: OH
Design: Plan #0.1

Local Co-ordinate Reference:
TVD Reference:
MD Reference:
North Reference:
Survey Calculation Method:

Well #702H
KB = 25' @ 3286.00usft
KB = 25' @ 3286.00usft
Grid
Minimum Curvature

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
10,700.00	1.82	179.59	10,696.68	-210.01	1.52	-210.01	0.00	0.00	0.00
10,800.00	1.82	179.59	10,796.63	-213.18	1.54	-213.19	0.00	0.00	0.00
10,900.00	1.82	179.59	10,896.58	-216.36	1.56	-216.37	0.00	0.00	0.00
11,000.00	1.82	179.59	10,996.53	-219.54	1.59	-219.55	0.00	0.00	0.00
11,100.00	1.82	179.59	11,096.48	-222.72	1.61	-222.72	0.00	0.00	0.00
11,200.00	1.82	179.59	11,196.43	-225.89	1.63	-225.90	0.00	0.00	0.00
11,300.00	1.82	179.59	11,296.37	-229.07	1.66	-229.08	0.00	0.00	0.00
11,400.00	1.82	179.59	11,396.32	-232.25	1.68	-232.26	0.00	0.00	0.00
11,500.00	1.82	179.59	11,496.27	-235.43	1.70	-235.43	0.00	0.00	0.00
11,600.00	1.82	179.59	11,596.22	-238.61	1.72	-238.61	0.00	0.00	0.00
11,700.00	1.82	179.59	11,696.17	-241.78	1.75	-241.79	0.00	0.00	0.00
11,800.00	1.82	179.59	11,796.12	-244.96	1.77	-244.97	0.00	0.00	0.00
11,900.00	1.82	179.59	11,896.07	-248.14	1.79	-248.14	0.00	0.00	0.00
11,931.31	1.82	179.59	11,927.36	-249.13	1.80	-249.14	0.00	0.00	0.00
11,950.00	0.42	359.93	11,946.05	-249.36	1.80	-249.37	12.00	-7.48	-961.11
11,975.00	3.42	359.68	11,971.04	-248.52	1.80	-248.53	12.00	12.00	-0.97
12,000.00	6.42	359.67	11,995.94	-246.38	1.79	-246.38	12.00	12.00	-0.06
12,025.00	9.42	359.66	12,020.70	-242.93	1.77	-242.94	12.00	12.00	-0.02
12,050.00	12.42	359.66	12,045.24	-238.20	1.74	-238.20	12.00	12.00	-0.01
12,075.00	15.42	359.66	12,069.51	-232.18	1.70	-232.19	12.00	12.00	-0.01
12,100.00	18.42	359.66	12,093.42	-224.91	1.66	-224.91	12.00	12.00	-0.01
12,125.00	21.42	359.66	12,116.92	-216.39	1.61	-216.39	12.00	12.00	0.00
12,150.00	24.42	359.65	12,139.95	-206.65	1.55	-206.66	12.00	12.00	0.00
12,175.00	27.42	359.65	12,162.43	-195.73	1.48	-195.73	12.00	12.00	0.00
12,200.00	30.42	359.65	12,184.31	-183.64	1.41	-183.64	12.00	12.00	0.00
12,225.00	33.42	359.65	12,205.52	-170.42	1.33	-170.42	12.00	12.00	0.00
12,250.00	36.42	359.65	12,226.02	-156.11	1.24	-156.11	12.00	12.00	0.00
12,275.00	39.42	359.65	12,245.74	-140.75	1.15	-140.75	12.00	12.00	0.00
12,300.00	42.42	359.65	12,264.63	-124.37	1.05	-124.38	12.00	12.00	0.00
12,325.00	45.42	359.65	12,282.63	-107.03	0.94	-107.04	12.00	12.00	0.00
12,350.00	48.42	359.65	12,299.71	-88.78	0.83	-88.78	12.00	12.00	0.00
12,375.00	51.42	359.65	12,315.80	-69.65	0.72	-69.65	12.00	12.00	0.00
12,400.00	54.42	359.65	12,330.87	-49.71	0.60	-49.71	12.00	12.00	0.00
12,425.00	57.42	359.65	12,344.88	-29.00	0.47	-29.00	12.00	12.00	0.00
12,450.00	60.42	359.65	12,357.78	-7.59	0.34	-7.59	12.00	12.00	0.00
12,475.00	63.42	359.65	12,369.55	14.46	0.21	14.46	12.00	12.00	0.00
12,500.00	66.42	359.65	12,380.14	37.10	0.07	37.10	12.00	12.00	0.00
12,525.00	69.42	359.65	12,389.54	60.27	-0.07	60.27	12.00	12.00	0.00
12,550.00	72.42	359.65	12,397.71	83.89	-0.22	83.89	12.00	12.00	0.00
12,575.00	75.42	359.65	12,404.63	107.91	-0.36	107.91	12.00	12.00	0.00
12,600.00	78.42	359.65	12,410.29	132.26	-0.51	132.26	12.00	12.00	0.00
12,625.00	81.42	359.65	12,414.66	156.87	-0.66	156.87	12.00	12.00	0.00
12,650.00	84.42	359.65	12,417.74	181.67	-0.81	181.68	12.00	12.00	0.00
12,675.00	87.42	359.65	12,419.52	206.61	-0.97	206.61	12.00	12.00	0.00
12,696.48	90.00	359.65	12,420.00	228.08	-1.10	228.08	12.00	12.00	0.00
12,700.00	90.00	359.65	12,420.00	231.60	-1.12	231.60	0.00	0.00	0.00
12,800.00	90.00	359.65	12,420.00	331.60	-1.73	331.60	0.00	0.00	0.00
12,900.00	90.00	359.65	12,420.00	431.60	-2.34	431.60	0.00	0.00	0.00
13,000.00	90.00	359.65	12,420.00	531.59	-2.95	531.60	0.00	0.00	0.00
13,100.00	90.00	359.65	12,420.00	631.59	-3.56	631.60	0.00	0.00	0.00
13,200.00	90.00	359.65	12,420.00	731.59	-4.17	731.60	0.00	0.00	0.00
13,300.00	90.00	359.65	12,420.00	831.59	-4.78	831.60	0.00	0.00	0.00
13,400.00	90.00	359.65	12,420.00	931.59	-5.40	931.60	0.00	0.00	0.00
13,500.00	90.00	359.65	12,420.00	1,031.59	-6.01	1,031.60	0.00	0.00	0.00



EOG Resources, Inc.

Planning Report

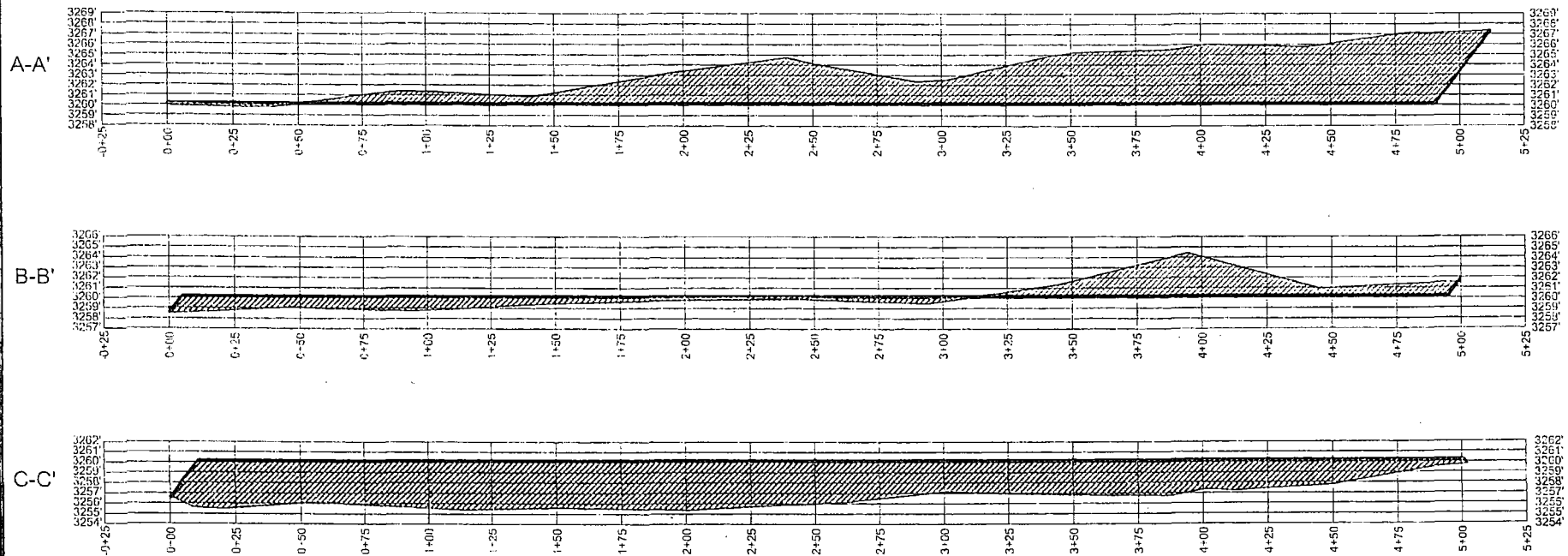
Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well #702H
Company:	EOG Resources - Midland	TVD Reference:	KB = 25' @ 3286.00usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB = 25' @ 3286.00usft
Site:	Barlow 34 Fed Com	North Reference:	Grid
Well:	#702H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.1		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
13,600.00	90.00	359.65	12,420.00	1,131.58	-6.62	1,131.60	0.00	0.00	0.00	
13,700.00	90.00	359.65	12,420.00	1,231.58	-7.23	1,231.60	0.00	0.00	0.00	
13,800.00	90.00	359.65	12,420.00	1,331.58	-7.84	1,331.60	0.00	0.00	0.00	
13,900.00	90.00	359.65	12,420.00	1,431.58	-8.45	1,431.60	0.00	0.00	0.00	
14,000.00	90.00	359.65	12,420.00	1,531.58	-9.06	1,531.60	0.00	0.00	0.00	
14,100.00	90.00	359.65	12,420.00	1,631.57	-9.67	1,631.60	0.00	0.00	0.00	
14,200.00	90.00	359.65	12,420.00	1,731.57	-10.28	1,731.60	0.00	0.00	0.00	
14,300.00	90.00	359.65	12,420.00	1,831.57	-10.89	1,831.60	0.00	0.00	0.00	
14,400.00	90.00	359.65	12,420.00	1,931.57	-11.50	1,931.60	0.00	0.00	0.00	
14,500.00	90.00	359.65	12,420.00	2,031.57	-12.11	2,031.60	0.00	0.00	0.00	
14,600.00	90.00	359.65	12,420.00	2,131.56	-12.73	2,131.60	0.00	0.00	0.00	
14,700.00	90.00	359.65	12,420.00	2,231.56	-13.34	2,231.60	0.00	0.00	0.00	
14,800.00	90.00	359.65	12,420.00	2,331.56	-13.95	2,331.60	0.00	0.00	0.00	
14,900.00	90.00	359.65	12,420.00	2,431.56	-14.56	2,431.60	0.00	0.00	0.00	
15,000.00	90.00	359.65	12,420.00	2,531.56	-15.17	2,531.60	0.00	0.00	0.00	
15,100.00	90.00	359.65	12,420.00	2,631.56	-15.78	2,631.60	0.00	0.00	0.00	
15,200.00	90.00	359.65	12,420.00	2,731.55	-16.39	2,731.60	0.00	0.00	0.00	
15,300.00	90.00	359.65	12,420.00	2,831.55	-17.00	2,831.60	0.00	0.00	0.00	
15,400.00	90.00	359.65	12,420.00	2,931.55	-17.61	2,931.60	0.00	0.00	0.00	
15,500.00	90.00	359.65	12,420.00	3,031.55	-18.22	3,031.60	0.00	0.00	0.00	
15,600.00	90.00	359.65	12,420.00	3,131.55	-18.83	3,131.60	0.00	0.00	0.00	
15,700.00	90.00	359.65	12,420.00	3,231.54	-19.44	3,231.60	0.00	0.00	0.00	
15,800.00	90.00	359.65	12,420.00	3,331.54	-20.06	3,331.60	0.00	0.00	0.00	
15,900.00	90.00	359.65	12,420.00	3,431.54	-20.67	3,431.60	0.00	0.00	0.00	
16,000.00	90.00	359.65	12,420.00	3,531.54	-21.28	3,531.60	0.00	0.00	0.00	
16,100.00	90.00	359.65	12,420.00	3,631.54	-21.89	3,631.60	0.00	0.00	0.00	
16,200.00	90.00	359.65	12,420.00	3,731.54	-22.50	3,731.60	0.00	0.00	0.00	
16,300.00	90.00	359.65	12,420.00	3,831.53	-23.11	3,831.60	0.00	0.00	0.00	
16,400.00	90.00	359.65	12,420.00	3,931.53	-23.72	3,931.60	0.00	0.00	0.00	
16,500.00	90.00	359.65	12,420.00	4,031.53	-24.33	4,031.60	0.00	0.00	0.00	
16,600.00	90.00	359.65	12,420.00	4,131.53	-24.94	4,131.60	0.00	0.00	0.00	
16,700.00	90.00	359.65	12,420.00	4,231.53	-25.55	4,231.60	0.00	0.00	0.00	
16,800.00	90.00	359.65	12,420.00	4,331.52	-26.16	4,331.60	0.00	0.00	0.00	
16,900.00	90.00	359.65	12,420.00	4,431.52	-26.78	4,431.60	0.00	0.00	0.00	
17,000.00	90.00	359.65	12,420.00	4,531.52	-27.39	4,531.60	0.00	0.00	0.00	
17,100.48	90.00	359.65	12,420.00	4,632.00	-28.00	4,632.08	0.00	0.00	0.00	

Design Targets										
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude	
FTP (Barlow 34 Fed Cor	0.00	0.00	12,420.00	30.00	0.00	365,004.00	779,016.00	32.00115919	-103.56659944	
- plan misses target center by 39.46usft at 12508.40usft MD (12383.43 TVD, 44.83 N, 0.02 E)										
- Point										
PBHL (Barlow 34 Fed Cor	0.00	0.01	12,420.00	4,632.00	-28.00	369,606.00	778,988.00	32.01380950	-103.56658446	
- plan hits target center										
- Point										

EXHIBIT 6

SECTION 34, TOWNSHIP 26-S, RANGE 33-E, N.M.P.M.
LEA COUNTY, NEW MEXICO



Horizontal Scale = 1:60
Vertical Scale = 1:5



TOPOGRAPHIC
LOYALTY INNOVATION LEGACY

1400 EVERMAN PARKWAY, Ste. 107 • FT. WORTH, TEXAS 76140
TELEPHONE: (817) 744-7512 • FAX: (817) 744-7548
TEXAS FIRM REGISTRATION NO. 10042594
WWW.TOPOGRAPHIC.COM

BARLOW 34
FED COM
#701H-#703H
SITE

REVISION:

INT	DATE

DATE: 03/22/17

FILE: CD BARLOW_34_FED_COM_701H-703H_SITE_PRO

DRAWN BY: GJU

SHEET: 2 OF 2

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 STATE PLANE COORDINATE SYSTEM, EAST ZONE, U.S. SURVEY FEET, NORTH AMERICAN DATUM 1927.
3. CERTIFICATION IS MADE ONLY TO THE LOCATION OF THIS EASEMENT, IN RELATION TO THE EVIDENCE FOUND DURING A FIELD SURVEY, MADE ON THE GROUND, UNDER MY SUPERVISION, AND USING DOCUMENTATION PROVIDED BY EOG RESOURCES, INC. ONLY UTILITIES/EASEMENTS THAT WERE VISIBLE ON THE DATE OF THIS SURVEY, WITHIN/ADJOINING THIS EASEMENT, HAVE BEEN LOCATED AS SHOWN HEREON OF WHICH I HAVE KNOWLEDGE. THIS CERTIFICATION IS LIMITED TO THOSE PERSONS OR ENTITIES SHOWN ON THE FACE OF THIS PLAT AND IS NON-TRANSFERABLE, AND MADE FOR THIS TRANSACTION ONLY.

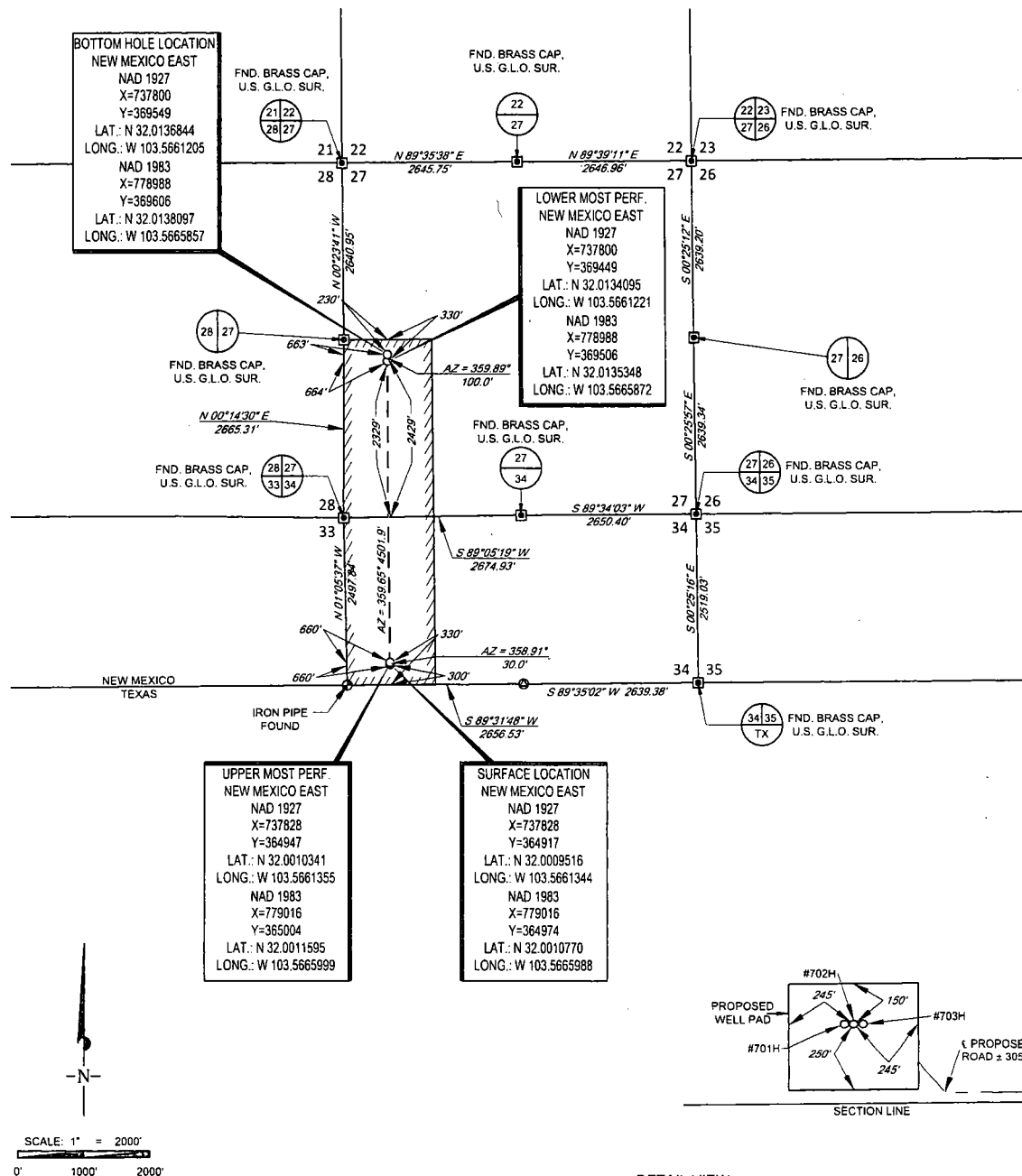
Michael Blake Brown, P.S. No. 18329

MARCH 22, 2017

Field note description of even date accompanies this plat.

EXHIBIT 2A

SECTION 34, TOWNSHIP 26-S, RANGE 33-E, N.M.P.M.
LEA COUNTY, NEW MEXICO



LEASE NAME & WELL NO.: BARLOW 34 FED COM #702H

SECTION 34 TWP 26-S RGE 33-E SURVEY N.M.P.M.

COUNTY LEA STATE NM

DESCRIPTION 300' FSL & 660' FWL

DISTANCE & DIRECTION

FROM INT. OF NM-18 N. & NM-128. GO WEST ON NM-128W ±14.1 MILES. THENCE SOUTHWEST (LEFT) ON BATTLE AXE RD. ±13.2 MILES. THENCE WEST (RIGHT) ON BATTLE AXE RD./J-2 ±3.9 MILES. THENCE EAST (LEFT) ON LEASE RD. ±1.0 MILES. THENCE SOUTH (RIGHT) ON LEASE RD. ±1.6 MILES. WEST (RIGHT) ON PROPOSED RD. ±3,052 FEET TO A POINT ±318 FEET SOUTHEAST OF THE LOCATION.

ALL BEARINGS, DISTANCES, AND COORDINATE VALUES CONTAINED HEREON ARE GRID BASED UPON THE NEW MEXICO STATE PLANE COORDINATE SYSTEM, EAST ZONE OF THE NORTH AMERICAN DATUM 1927, U.S. SURVEY FEET

THIS EASEMENT/SERVITUDE 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 GEO 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.

DETAIL VIEW
SCALE: 1" = 500'

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

Michael Blake Brown, P.S. No. 18329
AUGUST 08, 2016



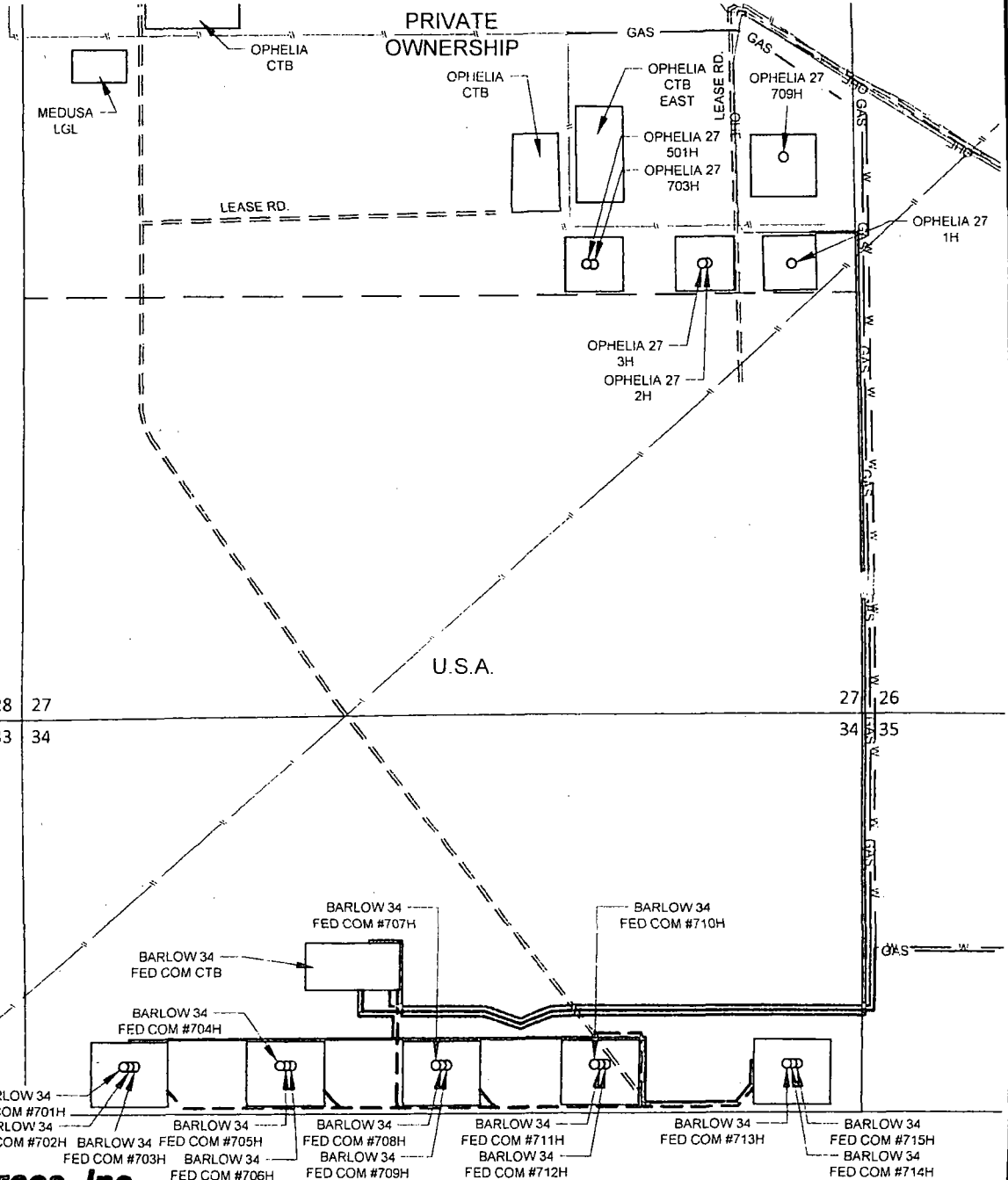
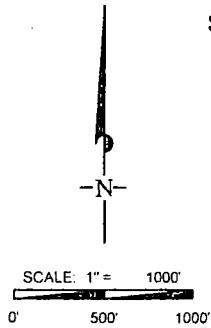
TOPOGRAPHIC
LOYALTY INNOVATION LEGACY

1400 EVERMAN PARKWAY, Ste. 197 • FT. WORTH, TEXAS 76140
TELEPHONE: (817) 744-7512 • FAX: (817) 744-7548
2903 NORTH BIG SPRING • MIDLAND, TEXAS 79705
TELEPHONE: (432) 682-1653 OR (800) 787-1653 • FAX: (432) 682-1743
WWW.TOPOGRAPHIC.COM

EXHIBIT 5

SECTIONS 26, 27, 34, & 35, TOWNSHIP 26 SOUTH, RANGE 33 EAST, N.M.P.M.
LEA COUNTY, NEW MEXICO

BARLOW 34 FED COM #701H-#715H & CTB INFRASTRUCTURE



Geog resources, Inc.

BARLOW 34 FED COM #701H-#715H & CTB INFRASTRUCTURE	
DATE:	02/21/17
FILE:	SK BARLOW 34 FED COM INFRASTRUCTURE REV1
DRAWN BY:	A.C.C.
SHEET:	1 OF 1

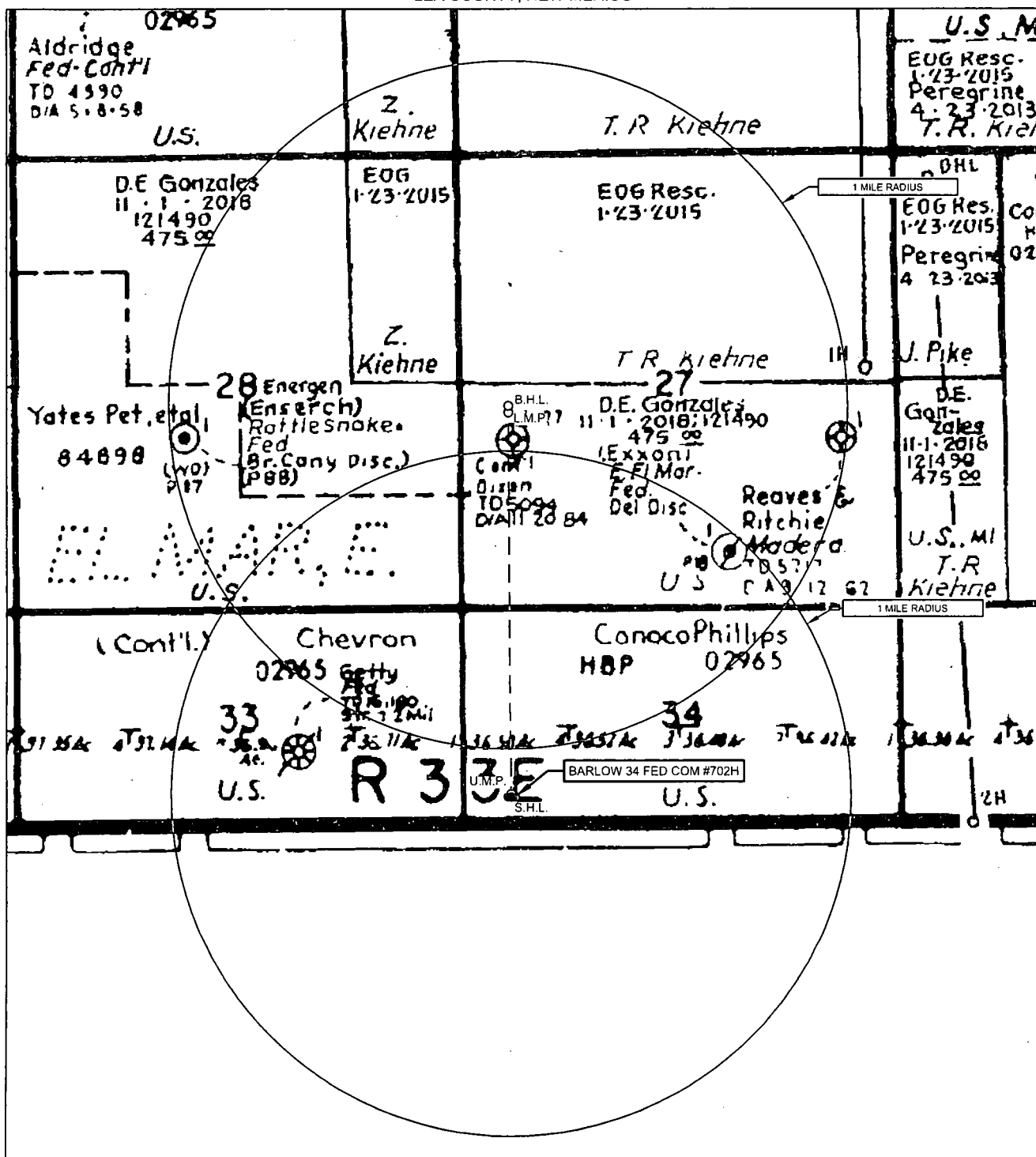
REVISION:	
A.C.C.	03/06/17

PROPOSED ROAD	TOTAL FOOTAGE	5,587 FT
FROM LEASE RD		
TO BARLOW 34 FED COM #701H-#703H		3,793 FT
TO BARLOW 34 FED COM #704H-#708H		2,803 FT
TO BARLOW 34 FED COM #707H-#709H		1,813 FT
TO BARLOW 34 FED COM #710H-#712H		742 FT
TO BARLOW 34 FED COM #713H-#715H		1,499 FT
FROM BARLOW 34 FED COM CTB		
TO LEASE RD		3,025 FT

GAS	PROPOSED GAS LINE	TOTAL FOOTAGE	3,793 FT
W	PROPOSED WATER LINE	TOTAL FOOTAGE	3,508 FT
OHE	PROPOSED OVERHEAD ELECTRIC	TOTAL FOOTAGE	8,893 FT
	PROPOSED FLOWLINE	TOTAL FOOTAGE	5,113 FT
	FROM BARLOW 34 FED COM CTB		
	TO BARLOW 34 FED COM #701H-#703H		2,217 FT
	TO BARLOW 34 FED COM #704H-#708H		1,226 FT
	TO BARLOW 34 FED COM #707H-#709H		852 FT
	TO BARLOW 34 FED COM #710H-#712H		1,862 FT
	TO BARLOW 34 FED COM #713H-#715H		3,404 FT

EXHIBIT 3

SECTION 34, TOWNSHIP 26-S, RANGE 33-E, N.M.P.M.
LEA COUNTY, NEW MEXICO



LEASE NAME & WELL NO.: BARLOW 34 FED COM #702H

SCALE: NTS

#702H LATITUDE N 32.0009516

#702H LONGITUDE W 103.5661344

ALL BEARINGS, DISTANCES, AND COORDINATE VALUES CONTAINED HEREON ARE GRID
BASED UPON THE NEW MEXICO STATE PLANE COORDINATE SYSTEM, EAST ZONE OF THE
NORTH AMERICAN DATUM 1927, U.S. SURVEY FEET

THIS EASEMENT/SERVITUDE 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.



TOPOGRAPHIC
LOYALTY INNOVATION LEGACY

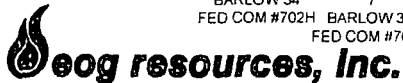
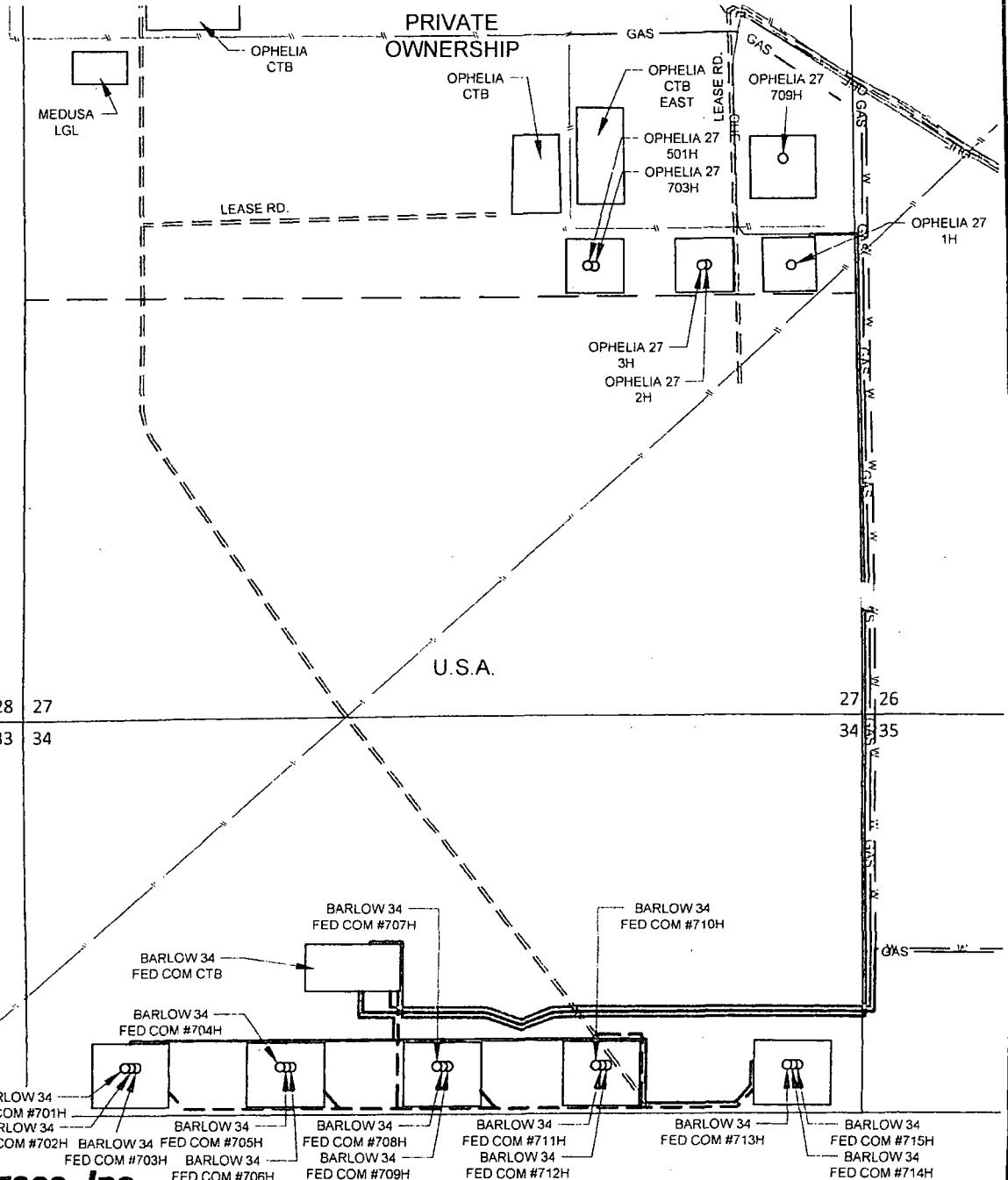
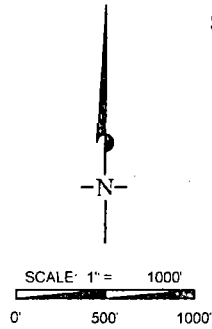
1400 EVERMAN PARKWAY, Ste. 197 • FT. WORTH, TEXAS 76140
TELEPHONE: (817) 744-7512 • FAX (817) 744-7548
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EXHIBIT 5

SECTIONS 26, 27, 34, & 35, TOWNSHIP 26 SOUTH, RANGE 33 EAST, N.M.P.M.

LEA COUNTY, NEW MEXICO

BARLOW 34 FED COM #701H-#715H & CTB INFRASTRUCTURE



BARLOW 34 FED COM
#701H-#715H & CTB
INFRASTRUCTURE

DATE: 02/21/17

FILE: SK BARLOW 34 FED COM INFRASTRUCTURE_REV1

DRAWN BY: A.C.C.

SHEET: 1 OF 1

REVISION:

A.C.C. 03/06/17

PROPOSED ROAD
-TOTAL FOOTAGE 5,587 FT
FROM LEASE RD
TO BARLOW 34 FED COM
#701H-#703H 3,793 FT
TO BARLOW 34 FED COM
#704H-#706H 2,803 FT
TO BARLOW 34 FED COM
#707H-#709H 1,813 FT
TO BARLOW 34 FED COM
#710H-#712H 742 FT
TO BARLOW 34 FED COM
#713H-#715H 1,489 FT
FROM BARLOW 34 FED COM CTB
TO LEASE RD. 3,025 FT

PROPOSED GAS LINE
-TOTAL FOOTAGE 3,799 FT
PROPOSED WATER LINE
-TOTAL FOOTAGE 3,506 FT
PROPOSED OVERHEAD ELECTRIC
-TOTAL FOOTAGE 6,893 FT
PROPOSED FLOWLINE
-TOTAL FOOTAGE 5,113 FT
FROM BARLOW 34 FED COM CTB
TO BARLOW 34 FED COM
#701H-#703H 2,217 FT
TO BARLOW 34 FED COM
#704H-#706H 1,225 FT
TO BARLOW 34 FED COM
#707H-#709H 852 FT
TO BARLOW 34 FED COM
#710H-#712H 1,862 FT
TO BARLOW 34 FED COM
#713H-#715H 3,404 FT