

State of New Mexico
Energy, Minerals and Natural Resources Department

Michelle Lujan Grisham
Governor

Sarah Cottrell Propst
Cabinet Secretary

Todd E. Leahy, JD, PhD
Deputy Secretary

Adrienne Sandoval, Division Director
Oil Conservation Division



Notice of C-104 Denial and Request for Information

OCD denies your C-104 – *Request for Allowable and Authorization to Transport* because it is incomplete or conflicts with other information provided to OCD.

The sale or transport of product without a C-104 approved by OCD violates the Oil and Gas Act and the implementing rules, including 19.15.7.15 and 19.15.16.19 NMAC.

To avoid an enforcement action, you must submit the indicated information no later than 30 days after receipt of this notice.

Test Allowable, New Well and Recompleted Well

30-015-46367
Amend Report C-104

- ☐ C-103 (or BLM equivalent) for all casing strings
 - ☐ Spud Notice
 - ☐ Surface Casing
 - ☐ Intermediate Casing (if applicable)
 - ☐ Additional Intermediate Casing (if applicable)
 - ☒ Production Casing or Liner

Amend C-103 (DENIED SUNDRY ON FILE)

- ☐ Applicable Order (NSL, NSP, Other _____)
- ☐ Deviation Survey for Vertical Wells
- ☐ Directional Survey
 - ☒ C-102 (As-Drilled Plat for Horizontal Well)

New Well and Recompleted Well Only

- ☐ C-103 Completion Sundry (or BLM equivalent)
- ☐ C-105 Completion Report (or BLM equivalent)
- ☐ All Logs Run on Well

Please attach copy of this notice
along with the requested items
together, mail all hard copies to
DISTRICT II-ARTESIA OCD
THANK YOU

NIA For A Test
Allowable

If you have any questions please contact the local OCD District Office

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals & Natural Resources

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

RECEIVED

JAN 10 2020

Submit one copy to appropriate District Office

Form C-104
Revised August 1, 2011

EMNRD-OCD ARTESIA
AMENDED REPORT

I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

¹ Operator name and Address EOG Resources, Inc. 104 South Fourth Street Artesia, NM 88210		² OGRID Number 7377	
⁴ API Number 30 - 015 - 46367		⁵ Pool Name Wildcat; Abo	
⁷ Property Code 326196		⁸ Property Name Gauntlet 30 State Com	
		⁶ Pool Code 98328	
		⁹ Well Number 402H	
		³ Reason for Filing Code/ Effective Date RT for 5563'-13,226	

II. ¹⁰ Surface Location

UL or lot no. C	Section 28	Township 18S	Range 25E	Lot Idn	Feet from the 630	North/South Line North	Feet from the 1449	East/West line West	County Eddy
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¹¹ Bottom Hole Location

UL or lot no. A	Section 30	Township 18S	Range 25E	Lot Idn	Feet from the 649	North/South line North	Feet from the 1212	East/West line East	County Eddy
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¹² Lse Code S	¹³ Producing Method Code F	¹⁴ Gas Connection Date 1/9/2020	¹⁵ C-129 Permit Number	¹⁶ C-129 Effective Date	¹⁷ C-129 Expiration Date
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III. Oil and Gas Transporters

¹⁸ Transporter OGRID	¹⁹ Transporter Name and Address	²⁰ O/G/W
147831	Lucid Energy 3100 McKinnon Street, Suite 800 Dallas, TX 75201	G
015694	Holly Frontier & Marketing Company 10 Desta Drive, Suite 350W Midland, TX 79702	O

IV. Well Completion Data

²¹ Spud Date 10/11/19	²² Ready Date 1/8/2020	²³ TD 13,293'	²⁴ PBTD 13,232'	²⁵ Perforations 5563'-13,226'	²⁶ DHC, MC
²⁷ Hole Size	²⁸ Casing & Tubing Size	²⁹ Depth Set	³⁰ Sacks Cement		
30"	20"	120'	Conductor		
12-1/4"	9-5/8"	1275'	1383 sx (circ)		
8-1/2"	5-1/2"	13,268'	2807' (circ)		

V. Well Test Data

³¹ Date New Oil	³² Gas Delivery Date	³³ Test Date	³⁴ Test Length	³⁵ Tbg. Pressure	³⁶ Csg. Pressure
³⁷ Choke Size	³⁸ Oil	³⁹ Water	⁴⁰ Gas		⁴¹ Test Method

⁴² I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief.

Signature: *Tina Huerta*

Printed name:
Tina Huerta

Title:
Regulatory Specialist

E-mail Address:
tina_huerta@eogresources.com

Date:
January 10, 2020

Phone:
575-748-1471

Approved by:

Title:

Approval Date:

OIL CONSERVATION DIVISION

DENIED
See Attached Cover Sheet



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JAN 10 2020

EMNRD-OCD ARTESIA

EOG Resources

Eddy County, NM (NAD 83 - Grid)

Gauntlet 30 State Com

Gauntlet 30 State Com #402H

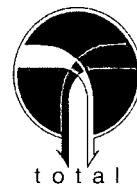
OH

A Certified Directional Survey
requested as required by NMOCD
Rule 19.15.16.14 NMAC

Design: OH

Standard Survey Report

03 January, 2020





Total Directional Services Survey Report



Company:	EOG Resources	Local Co-ordinate Reference:	Well Gauntlet 30 State Com #402H
Project:	Eddy County, NM (NAD 83 - Grid)	TVD Reference:	17' KB + 3558' GE @ 3575.00usft
Site:	Gauntlet 30 State Com	MD Reference:	17' KB + 3558' GE @ 3575.00usft
Well:	Gauntlet 30 State Com #402H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.15 Single User Db

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

Site	Gauntlet 30 State Com		
Site Position:		Northing:	627,551.00 usft
From:	Map	Easting:	491,885.00 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "
		Latitude:	32.725074
		Longitude:	-104.494142
		Grid Convergence:	-0.09 °

Well	Gauntlet 30 State Com #402H					
Well Position	+N/-S	0.00 usft	Northing:	627,581.00 usft	Latitude:	32.725157
	+E/-W	0.00 usft	Easting:	491,884.00 usft	Longitude:	-104.494146
Position Uncertainty		0.00 usft	Wellhead Elevation:	usft	Ground Level:	3,558.00 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	12/3/2019	7.15	60.34	47,880.53178991

Design		OH			
Audit Notes:					
Version:		1.0		Phase: ACTUAL	
				Tie On Depth: 0.00	
Vertical Section:		Depth From (TVD)		+N/-S	
		(usft)		(usft)	
		0.00		0.00	
				+E/-W	
				(usft)	
				Direction	
				(°)	
				0.00	
				269.68	

Survey Program	Date	1/3/2020		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
145.00	13,222.00	Survey #1 (OH)	OWSG (REV2) MWD	OWSG MWD - Standard
13,293.00	13,293.00	Survey #2 (OH)	BLIND	OWSG BLIND

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
SHL (Gauntlet 30 State Com #402H)									
145.00	0.60	248.00	145.00	-0.28	-0.70	0.71	0.41	0.41	0.00
319.00	0.80	142.00	318.99	-1.58	-0.80	0.81	0.65	0.11	-60.92
503.00	1.30	91.00	502.96	-2.63	2.08	-2.06	0.55	0.27	-27.72
534.00	0.70	119.00	533.96	-2.73	2.59	-2.58	2.44	-1.94	90.32
660.00	1.00	114.00	659.94	-3.55	4.27	-4.25	0.25	0.24	-3.97
755.00	1.10	66.00	754.93	-3.52	5.86	-5.84	0.90	0.11	-50.53
849.00	1.10	101.00	848.91	-3.32	7.57	-7.55	0.70	0.00	37.23
975.00	0.70	108.00	974.90	-3.79	9.49	-9.47	0.33	-0.32	5.56



Total Directional Services
Survey Report



Company:	EOG Resources	Local Co-ordinate Reference:	Well Gauntlet 30 State Com #402H
Project:	Eddy County, NM (NAD 83 - Grid)	TVD Reference:	17' KB + 3558' GE @ 3575.00usft
Site:	Gauntlet 30 State Com	MD Reference:	17' KB + 3558' GE @ 3575.00usft
Well:	Gauntlet 30 State Com #402H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.15 Single User Db

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)
1,133.00	0.60	66.00	1,132.89	-3.75	11.17	-11.14	0.30	-0.06	-26.58
1,309.00	0.80	131.00	1,308.88	-4.18	12.93	-12.91	0.44	0.11	36.93
1,354.00	0.90	121.90	1,353.87	-4.58	13.47	-13.45	0.37	0.22	-20.22
1,448.00	0.80	123.30	1,447.86	-5.33	14.65	-14.62	0.11	-0.11	1.49
1,543.00	3.10	101.70	1,542.80	-6.21	17.72	-17.68	2.50	2.42	-22.74
1,638.00	5.60	93.30	1,637.52	-7.00	24.86	-24.82	2.71	2.63	-8.84
1,733.00	5.80	93.20	1,732.05	-7.53	34.28	-34.24	0.21	0.21	-0.11
1,827.00	5.80	94.80	1,825.57	-8.20	43.76	-43.71	0.17	0.00	1.70
1,922.00	5.60	79.30	1,920.11	-7.74	53.09	-53.05	1.63	-0.21	-16.32
2,015.00	5.90	79.40	2,012.64	-6.02	62.25	-62.22	0.32	0.32	0.11
2,108.00	5.90	88.60	2,105.15	-5.02	71.73	-71.70	1.02	0.00	9.89
2,204.00	5.90	88.40	2,200.64	-4.76	81.59	-81.57	0.02	0.00	-0.21
2,297.00	5.60	88.40	2,293.17	-4.50	90.91	-90.88	0.32	-0.32	0.00
2,390.00	5.50	90.90	2,385.73	-4.44	99.90	-99.87	0.28	-0.11	2.69
2,485.00	5.50	92.10	2,480.30	-4.68	109.00	-108.97	0.12	0.00	1.26
2,580.00	5.20	92.50	2,574.88	-5.04	117.85	-117.82	0.32	-0.32	0.42
2,674.00	5.10	92.00	2,668.50	-5.37	126.28	-126.25	0.12	-0.11	-0.53
2,769.00	4.80	91.70	2,763.15	-5.63	134.48	-134.44	0.32	-0.32	-0.32
2,864.00	4.80	92.00	2,857.82	-5.89	142.42	-142.39	0.03	0.00	0.32
2,958.00	4.60	95.10	2,951.50	-6.36	150.11	-150.07	0.34	-0.21	3.30
3,052.00	4.60	94.90	3,045.20	-7.02	157.62	-157.57	0.02	0.00	-0.21
3,147.00	4.30	97.20	3,139.91	-7.79	164.94	-164.90	0.37	-0.32	2.42
3,239.00	4.10	95.80	3,231.66	-8.56	171.64	-171.59	0.24	-0.22	-1.52
3,334.00	4.00	95.00	3,326.43	-9.19	178.32	-178.26	0.12	-0.11	-0.84
3,426.00	3.80	97.20	3,418.21	-9.85	184.54	-184.48	0.27	-0.22	2.39
3,521.00	4.70	90.80	3,512.95	-10.30	191.55	-191.49	1.07	0.95	-6.74
3,616.00	4.60	89.50	3,607.64	-10.32	199.26	-199.20	0.15	-0.11	-1.37
3,710.00	4.20	88.10	3,701.36	-10.17	206.47	-206.41	0.44	-0.43	-1.49
3,804.00	5.00	91.90	3,795.06	-10.20	214.00	-213.94	0.91	0.85	4.04
3,898.00	5.00	90.70	3,888.70	-10.38	222.19	-222.13	0.11	0.00	-1.28
3,992.00	4.80	91.30	3,982.36	-10.52	230.22	-230.16	0.22	-0.21	0.64
4,086.00	4.50	93.20	4,076.05	-10.82	237.83	-237.77	0.36	-0.32	2.02
4,179.00	4.50	92.50	4,168.76	-11.18	245.12	-245.05	0.06	0.00	-0.75
4,272.00	4.30	89.20	4,261.49	-11.29	252.25	-252.18	0.35	-0.22	-3.55
4,367.00	4.10	90.70	4,356.23	-11.28	259.21	-259.14	0.24	-0.21	1.58
4,461.00	4.00	94.90	4,450.00	-11.60	265.83	-265.77	0.33	-0.11	4.47
4,556.00	3.20	96.90	4,544.81	-12.20	271.77	-271.70	0.85	-0.84	2.11
4,650.00	1.70	80.60	4,638.72	-12.29	275.75	-275.68	1.74	-1.60	-17.34
4,743.00	1.60	70.90	4,731.68	-11.64	278.34	-278.27	0.32	-0.11	-10.43
4,765.00	1.80	66.70	4,753.67	-11.40	278.94	-278.88	1.07	0.91	-19.09
4,860.00	7.80	276.20	4,848.42	-10.11	273.89	-273.83	9.90	6.32	-158.42
4,954.00	23.60	270.30	4,938.64	-9.32	248.57	-248.52	16.87	16.81	-6.28
5,047.00	40.00	268.60	5,017.41	-9.96	199.74	-199.68	17.66	17.63	-1.83



Total Directional Services Survey Report



Company:	EOG Resources	Local Co-ordinate Reference:	Well Gauntlet 30 State Com #402H
Project:	Eddy County, NM (NAD 83 - Grid)	TVD Reference:	17' KB + 3558' GE @ 3575.00usft
Site:	Gauntlet 30 State Com	MD Reference:	17' KB + 3558' GE @ 3575.00usft
Well:	Gauntlet 30 State Com #402H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.15 Single User Db

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)
5,140.00	45.60	268.80	5,085.62	-11.39	136.60	-136.53	6.02	6.02	0.22
5,235.00	46.70	268.90	5,151.43	-12.76	68.10	-68.03	1.16	1.16	0.11
5,330.00	56.00	268.60	5,210.70	-14.39	-5.99	6.07	9.79	9.79	-0.32
5,424.00	60.60	269.30	5,260.08	-15.84	-85.93	86.02	4.93	4.89	0.74
5,517.00	72.90	272.20	5,296.73	-14.63	-171.20	171.27	13.53	13.23	3.12
5,555.05	76.41	271.25	5,306.79	-13.52	-207.86	207.93	9.53	9.23	-2.49
100' FEL HL Crossing (5555.04' MD)									
5,582.00	78.90	270.60	5,312.56	-13.10	-234.19	234.26	9.53	9.24	-2.42
5,633.00	86.50	267.40	5,319.03	-13.99	-284.72	284.80	16.15	14.90	-6.27
5,726.00	89.50	267.30	5,322.28	-18.29	-377.56	377.65	3.23	3.23	-0.11
5,821.00	91.90	271.00	5,321.12	-19.70	-472.52	472.62	4.64	2.53	3.89
5,916.00	93.50	272.20	5,316.64	-17.05	-567.37	567.45	2.10	1.68	1.26
6,011.00	92.00	272.30	5,312.08	-13.33	-662.18	662.25	1.58	-1.58	0.11
6,106.00	90.40	269.10	5,310.09	-12.17	-757.14	757.20	3.77	-1.68	-3.37
6,202.00	90.30	269.30	5,309.51	-13.51	-853.13	853.19	0.23	-0.10	0.21
6,296.00	89.80	267.70	5,309.43	-15.97	-947.09	947.17	1.78	-0.53	-1.70
6,391.00	91.90	269.00	5,308.02	-18.70	-1,042.04	1,042.12	2.60	2.21	1.37
6,485.00	92.30	268.80	5,304.57	-20.51	-1,135.95	1,136.05	0.48	0.43	-0.21
6,579.00	92.60	268.00	5,300.55	-23.13	-1,229.83	1,229.94	0.91	0.32	-0.85
6,673.00	91.30	270.90	5,297.35	-24.03	-1,323.76	1,323.87	3.38	-1.38	3.09
6,768.00	91.30	271.50	5,295.20	-22.04	-1,418.71	1,418.82	0.63	0.00	0.63
6,862.00	90.20	273.50	5,293.97	-17.94	-1,512.61	1,512.69	2.43	-1.17	2.13
6,954.00	90.60	273.30	5,293.33	-12.48	-1,604.45	1,604.49	0.49	0.43	-0.22
7,048.00	89.50	272.20	5,293.24	-7.97	-1,698.34	1,698.35	1.65	-1.17	-1.17
7,141.00	89.40	271.50	5,294.14	-4.97	-1,791.28	1,791.28	0.76	-0.11	-0.75
7,236.00	89.50	271.50	5,295.05	-2.48	-1,886.25	1,886.23	0.11	0.11	0.00
7,331.00	91.50	271.20	5,294.22	-0.25	-1,981.21	1,981.18	2.13	2.11	-0.32
7,349.54	91.58	271.14	5,293.72	0.13	-1,999.74	1,999.71	0.53	0.43	-0.32
2000' VS TGT (Gauntlet 30 State Com #402H)									
7,425.00	91.90	270.90	5,291.43	1.48	-2,075.15	2,075.11	0.53	0.43	-0.32
7,519.00	92.20	270.60	5,288.07	2.70	-2,169.08	2,169.04	0.45	0.32	-0.32
7,613.00	92.20	270.20	5,284.46	3.36	-2,263.01	2,262.96	0.43	0.00	-0.43
7,708.00	92.20	270.00	5,280.81	3.53	-2,357.94	2,357.89	0.21	0.00	-0.21
7,800.00	92.60	269.40	5,276.96	3.05	-2,449.86	2,449.81	0.78	0.43	-0.65
7,894.00	92.80	268.60	5,272.53	1.41	-2,543.74	2,543.69	0.88	0.21	-0.85
7,989.00	91.30	268.00	5,269.13	-1.41	-2,638.63	2,638.60	1.70	-1.58	-0.63
8,083.00	91.20	267.80	5,267.08	-4.85	-2,732.55	2,732.53	0.24	-0.11	-0.21
8,178.00	91.60	267.50	5,264.76	-8.75	-2,827.44	2,827.45	0.53	0.42	-0.32
8,272.00	90.50	267.80	5,263.04	-12.60	-2,921.34	2,921.37	1.21	-1.17	0.32
8,366.00	90.60	266.70	5,262.14	-17.11	-3,015.23	3,015.28	1.17	0.11	-1.17
8,459.00	90.00	269.20	5,261.65	-20.44	-3,108.16	3,108.23	2.76	-0.65	2.69
8,555.00	90.50	270.30	5,261.23	-20.86	-3,204.16	3,204.22	1.26	0.52	1.15
8,647.00	90.90	270.30	5,260.11	-20.37	-3,296.15	3,296.21	0.43	0.43	0.00
8,742.00	90.30	270.50	5,259.11	-19.71	-3,391.14	3,391.20	0.67	-0.63	0.21

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Design:	OH	Database:	EDM 5000.15 Single User Db

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)	
8,837.00	90.60	270.30	5,258.37	-19.05	-3,486.14	3,486.19	0.38	0.32	-0.21	
8,931.00	90.90	270.10	5,257.14	-18.72	-3,580.13	3,580.18	0.38	0.32	-0.21	
9,025.00	91.30	270.00	5,255.33	-18.64	-3,674.11	3,674.16	0.44	0.43	-0.11	
9,120.00	90.40	270.00	5,253.92	-18.64	-3,769.10	3,769.14	0.95	-0.95	0.00	
9,215.00	90.80	270.20	5,252.93	-18.47	-3,864.09	3,864.14	0.47	0.42	0.21	
9,309.00	91.20	270.00	5,251.29	-18.31	-3,958.08	3,958.12	0.48	0.43	-0.21	
9,404.00	91.80	270.30	5,248.80	-18.06	-4,053.04	4,053.08	0.71	0.63	0.32	
9,498.00	91.90	269.60	5,245.77	-18.14	-4,147.00	4,147.03	0.75	0.11	-0.74	
9,593.00	92.40	269.90	5,242.20	-18.56	-4,241.93	4,241.96	0.61	0.53	0.32	
9,686.00	90.60	267.80	5,239.77	-20.42	-4,334.87	4,334.91	2.97	-1.94	-2.26	
9,781.00	90.90	267.40	5,238.52	-24.40	-4,429.78	4,429.84	0.53	0.32	-0.42	
9,875.00	90.90	266.50	5,237.05	-29.40	-4,523.63	4,523.72	0.96	0.00	-0.96	
9,969.00	91.30	265.70	5,235.24	-35.79	-4,617.39	4,617.52	0.95	0.43	-0.85	
10,063.00	90.90	268.40	5,233.44	-40.63	-4,711.24	4,711.40	2.90	-0.43	2.87	
10,157.00	90.80	270.90	5,232.04	-41.20	-4,805.22	4,805.38	2.66	-0.11	2.66	
10,175.76	90.94	271.04	5,231.76	-40.89	-4,823.98	4,824.13	1.06	0.75	0.75	
4824' VS TGT (Gauntlet 30 State Com #402H)										
10,250.00	91.50	271.60	5,230.18	-39.18	-4,898.18	4,898.32	1.06	0.75	0.75	
10,345.00	91.90	271.60	5,227.36	-36.52	-4,993.10	4,993.23	0.42	0.42	0.00	
10,436.00	92.10	270.00	5,224.18	-35.25	-5,084.04	5,084.15	1.77	0.22	-1.76	
10,530.00	92.60	268.70	5,220.33	-36.32	-5,177.95	5,178.07	1.48	0.53	-1.38	
10,625.00	91.70	268.10	5,216.76	-38.97	-5,272.84	5,272.98	1.14	-0.95	-0.63	
10,720.00	90.00	269.90	5,215.35	-40.63	-5,367.81	5,367.95	2.61	-1.79	1.89	
10,814.00	90.30	269.70	5,215.11	-40.96	-5,461.81	5,461.95	0.38	0.32	-0.21	
10,908.00	91.50	272.00	5,213.63	-39.56	-5,555.78	5,555.91	2.76	1.28	2.45	
11,002.00	92.10	272.00	5,210.68	-36.28	-5,649.68	5,649.79	0.64	0.64	0.00	
11,097.00	91.40	271.00	5,207.78	-33.80	-5,744.60	5,744.70	1.28	-0.74	-1.05	
11,191.00	91.20	270.60	5,205.65	-32.49	-5,838.56	5,838.65	0.48	-0.21	-0.43	
11,283.00	91.70	270.60	5,203.32	-31.52	-5,930.53	5,930.61	0.54	0.54	0.00	
11,377.00	91.50	270.00	5,200.69	-31.03	-6,024.49	6,024.57	0.67	-0.21	-0.64	
11,472.00	91.70	269.10	5,198.04	-31.78	-6,119.45	6,119.53	0.97	0.21	-0.95	
11,566.00	92.30	268.60	5,194.76	-33.66	-6,213.37	6,213.46	0.83	0.64	-0.53	
11,662.00	91.30	268.50	5,191.74	-36.09	-6,309.29	6,309.40	1.05	-1.04	-0.10	
11,752.88	90.34	268.60	5,190.44	-38.39	-6,400.13	6,400.25	1.06	-1.05	0.11	
6400' VS TGT (Gauntlet 30 State Com #402H)										
11,757.00	90.30	268.60	5,190.42	-38.49	-6,404.25	6,404.37	1.06	-1.05	0.11	
11,852.00	90.60	268.60	5,189.67	-40.81	-6,499.22	6,499.35	0.32	0.32	0.00	
11,946.00	90.90	268.50	5,188.44	-43.19	-6,593.18	6,593.32	0.34	0.32	-0.11	
12,041.00	91.60	267.90	5,186.37	-46.18	-6,688.11	6,688.26	0.97	0.74	-0.63	
12,136.00	92.10	267.80	5,183.30	-49.74	-6,782.99	6,783.17	0.54	0.53	-0.11	
12,230.00	92.90	267.80	5,179.20	-53.34	-6,876.84	6,877.03	0.85	0.85	0.00	
12,325.00	93.40	268.50	5,173.98	-56.41	-6,971.64	6,971.85	0.90	0.53	0.74	
12,420.00	92.30	270.30	5,169.26	-57.40	-7,066.51	7,066.72	2.22	-1.16	1.89	



Total Directional Services

Survey Report



Company:	EOG Resources	Local Co-ordinate Reference:	Well Gauntlet 30 State Com #402H
Project:	Eddy County, NM (NAD 83 - Grid)	TVD Reference:	17' KB + 3558' GE @ 3575.00usft
Site:	Gauntlet 30 State Com	MD Reference:	17' KB + 3558' GE @ 3575.00usft
Well:	Gauntlet 30 State Com #402H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000:15 Single User Db

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)	
12,515.00	91.30	270.90	5,166.27	-56.40	-7,161.46	7,161.66	1.23	-1.05	0.63	
12,608.00	91.70	270.60	5,163.84	-55.19	-7,254.42	7,254.61	0.54	0.43	-0.32	
12,703.00	92.40	270.00	5,160.44	-54.69	-7,349.36	7,349.55	0.97	0.74	-0.63	
12,798.00	91.10	270.60	5,157.54	-54.19	-7,444.31	7,444.49	1.51	-1.37	0.63	
12,893.00	91.50	271.20	5,155.38	-52.70	-7,539.27	7,539.45	0.76	0.42	0.63	
12,987.00	92.00	271.30	5,152.51	-50.65	-7,633.21	7,633.37	0.54	0.53	0.11	
13,082.00	92.70	271.30	5,148.62	-48.50	-7,728.10	7,728.25	0.74	0.74	0.00	
13,177.00	93.40	271.20	5,143.56	-46.43	-7,822.94	7,823.08	0.74	0.74	-0.11	
13,222.00	93.70	271.20	5,140.78	-45.49	-7,867.85	7,867.98	0.67	0.67	0.00	
13,293.00	93.70	271.20	5,136.20	-44.00	-7,938.68	7,938.80	0.00	0.00	0.00	
BHL (Gauntlet 30 State Com #402H) - PBHL (Gauntlet 30 State Com #402H)										

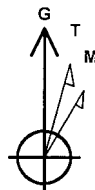
Design Targets										
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude		
- hit/miss target										
- Shape										
SHL (Gauntlet 30 State (	0.00	360.00	0.00	0.00	0.00	627,581.00	491,884.00	32.725157		
- actual wellpath hits target center										-104.494146
- Point										
BHL (Gauntlet 30 State (	0.00	360.00	5,136.20	-44.00	-7,938.68	627,537.00	483,945.32	32.725000		
- actual wellpath misses target center by 0.01usft at 13293.00usft MD (5136.20 TVD, -44.00 N, -7938.68 E)										-104.519960
- Point										
100' FEL HL Crossing (5	0.00	360.00	5,306.79	-13.52	-207.86	627,567.48	491,676.14	32.725119		
- actual wellpath hits target center										-104.494821
- Point										

Checked By: _____	Approved By: _____	Date: _____
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EOG Resources

Project: Eddy County, NM (NAD 83 - Grid)
 Site: Gauntlet 30 State Com
 Well: Gauntlet 30 State Com #402H
 Wellbore: OH
 Design: OH

17' KB + 3558' GE @ 3575.00usft



Azimuths to Grid North
 True North: 0.09°
 Magnetic North: 7.24°
 Magnetic Field
 Strength: 47880.5nT
 Dip Angle: 60.34°
 Date: 12/3/2019
 Model: IGRF2015

PROJECT DETAILS: Eddy County, NM (NAD 83 - Grid)

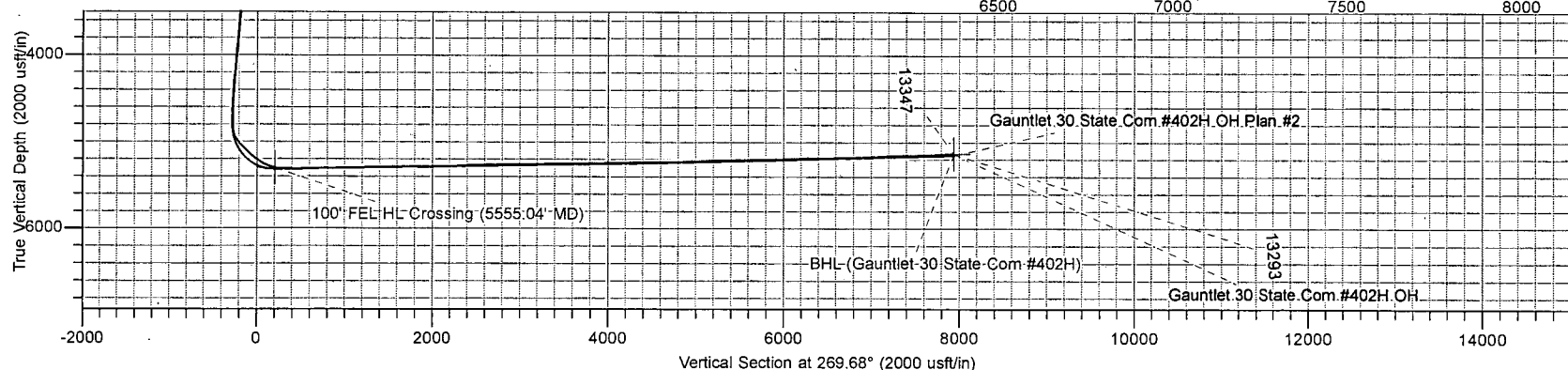
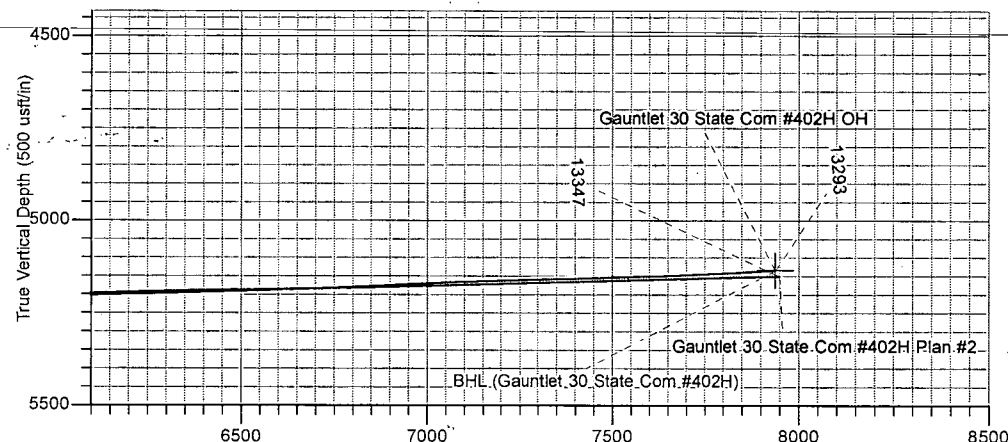
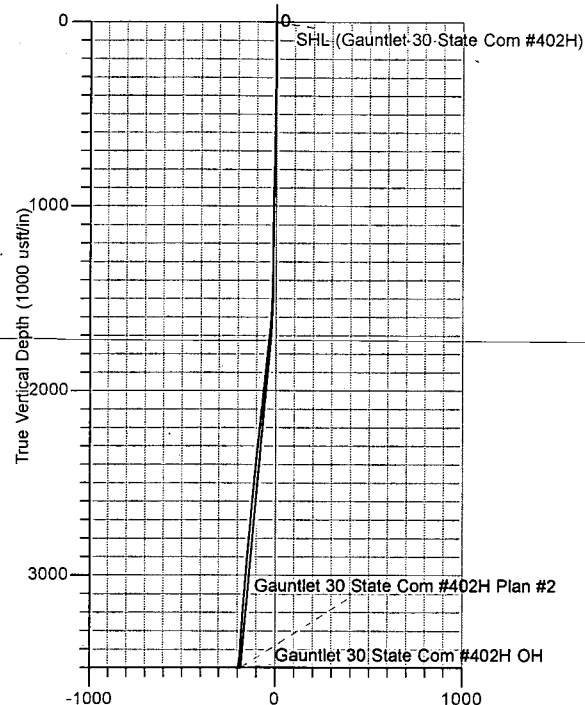
Geodetic System: US State Plane 1983
 Datum: North American Datum 1983
 Ellipsoid: GRS 1980
 Zone: New Mexico Eastern Zone



DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Latitude	Longitude
100' FEL HL Crossing	5306.79	-13.52	-207.86	32.725119	-104.494821
BHL	5136.20	-44.00	-7938.68	32.725000	-104.519960
SHL	0.00	0.00	0.00	32.725157	-104.494145

Actual Line Calls
 SHL: 630' FNL, 1449' FWL Sec 28
 BHL: 649' FNL, 1212' FEL Sec 30



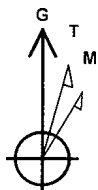
TOTAL DIRECTIONAL SERVICES LLC
 671 Academy Ct, Windsor, CO 80550
 Phone: (970) 460-9402

Design: OH (Gauntlet 30 State Com #402H/OH)
 Gauntlet 30 State Com
 Created By: Micah Ault Date: 15:31, January 03 2020
 Date: _____
 Approved: _____ Date: _____

EOG Resources

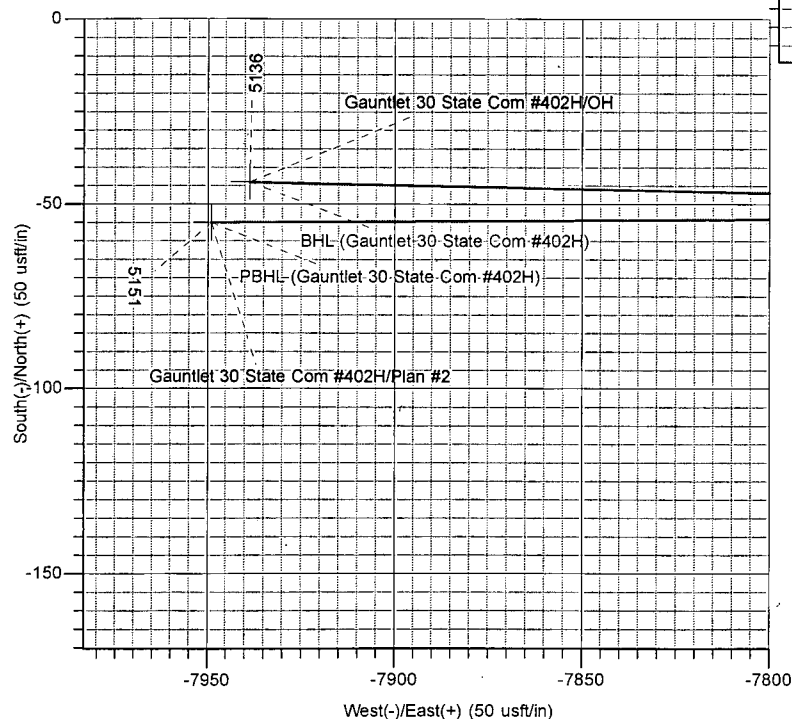
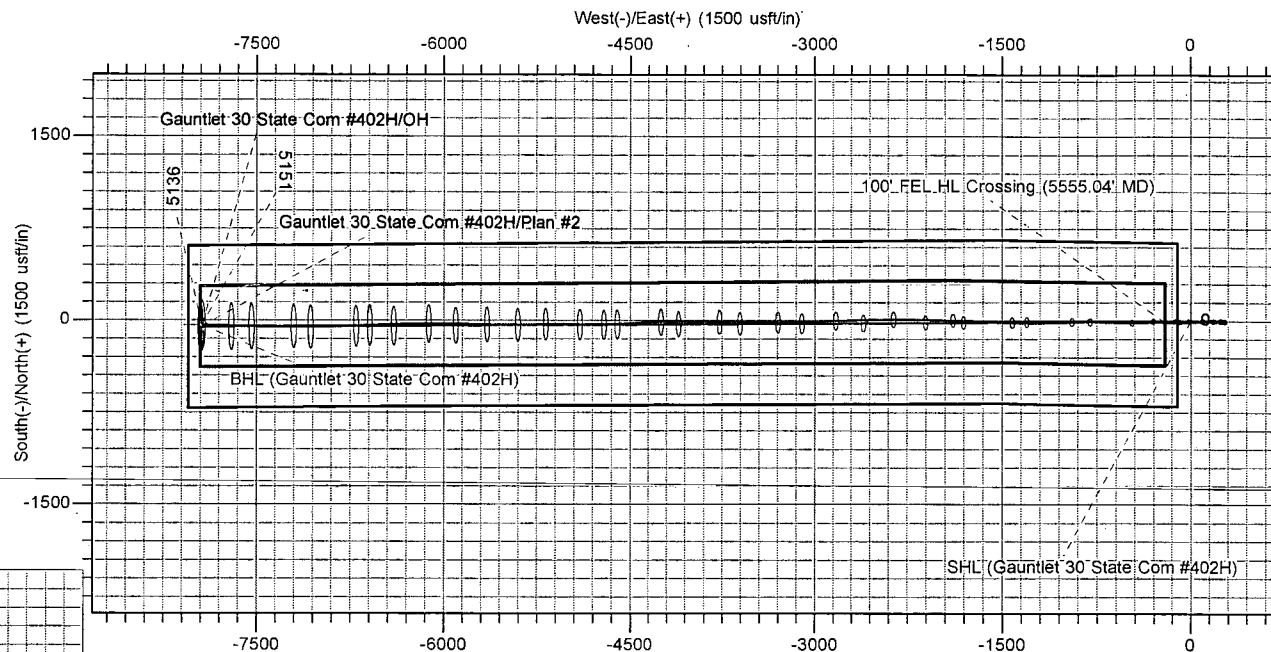
Project: Eddy County, NM (NAD 83 - Grid)
 Site: Gauntlet 30 State Com
 Well: Gauntlet 30 State Com #402H
 Wellbore: OH
 Design: OH

PROJECT DETAILS: Eddy County, NM (NAD 83 - Grid)
 Geodetic System: US State Plane 1983
 Datum: North American Datum 1983
 Ellipsoid: GRS 1980
 Zone: New Mexico Eastern Zone



Azimuths to Grid North
 True North: 0.09°
 Magnetic North: 7.24°

Magnetic Field
 Strength: 47880.5nT
 Dip Angle: 60.34°
 Date: 12/3/2019
 Model: IGRF2015



DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
100' FEL HL Crossing	5306.79	-13.52	-207.86	627567.48	491676.14	32.725119	-104.494821
BHL	5136.20	-44.00	-7938.68	627537.00	483945.32	32.725000	-104.519960
SHL	0.00	0.00	0.00	627581.00	491884.00	32.725157	-104.494145

Actual Line Calls
 SHL: 630' FNL, 1449' FWL Sec 28
 BHL: 649' FNL, 1212' FEL Sec 30



TOTAL DIRECTIONAL SERVICES LLC
 671 Academy Ct, Windsor, CO 80550
 Phone: (970) 460-9402

Design: OH (Gauntlet 30 State Com #402H/OH)
 Gauntlet 30 State Com
 Created By: Micah Ault Date: 15:32, January 03 2020
 Date: _____
 Approved: _____ Date: _____