

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

NMOCD

Hobbs

HOBBS OCD

FORM APPROVED
OMB No. 1004-0137
Expires: July 31, 2010

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

DEC 13 2019

5. Lease Serial No.
NMNM108977

1a. Type of Well ☒ Oil Well ☐ Gas Well ☐ Dry ☐ Other		6. If Indian, Allottee or Tribe Name	
b. Type of Completion ☒ New Well ☐ Work Over ☐ Deepen ☐ Plug Back ☐ Other		7. Unit or CA Agreement Name and No.	
2. Name of Operator EOG RESOURCES, INC		8. Lease Name and Well No. DELLA 29 FEDERAL COM 603H	
3. Address PO BOX 2267 MIDLAND, TX 79702		9. API Well No. 30-025-44474	
3a. Phone No. (include area code) Ph: 432-686-3658		10. Field and Pool, or Exploratory LEA; BONE SPRING, SOUTH	
4. Location of Well (Report location clearly and in accordance with Federal requirements)* At surface SWSE 230FSL 2600FEL 32.536680 N Lat, 103.448156 W Lon At top prod interval reported below SWSE 449FSL 2307FEL 32.537278 N Lat, 103.447207 W Lon At total depth NWNE 109FNL 2337FEL 32.550270 N Lat, 103.447304 W Lon		11. Sec., T., R., M., or Block and Survey or Area Sec 29 T20S R34E Mer NMP	
14. Date Spudded 01/06/2019		15. Date T.D. Reached 01/26/2019	
16. Date Completed ☐ D & A ☒ Ready to Prod. 07/26/2019		17. Elevations (DF, KB, RT, GL)* 3716 GL	
18. Total Depth: MD 16122 TVD 11180		19. Plug Back T.D.: MD 16090 TVD 11180	
20. Depth Bridge Plug Set: MD TVD		21. Type Electric & Other Mechanical Logs Run (Submit copy of each)	
22. Was well cored? ☒ No ☐ Yes (Submit analysis) Was DST run? ☒ No ☐ Yes (Submit analysis) Directional Survey? ☐ No ☒ Yes (Submit analysis)			

23. Casing and Liner Record (Report all strings set in well)

Hole Size	Size/Grade	Wt. (#/ft.)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Sk. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
17.500	13.375 J55	54.5		1727		1685		0	
12.250	9.625 J55	40.0		5329		930		0	
8.750	5.500 ICYP110	20.0		16107		2890		0	

24. Tubing Record

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) BONE SPRING	11375	16090	11375 TO 16090	3.250	336	OPEN
B)						
C)						
D)						

26. Perforation Record

27. Acid, Fracture, Treatment, Cement Squeeze, Etc.

Depth Interval	Amount and Type of Material
11375 TO 16090	12,476,500 LBS PROPPANT; 217,515 BBLs LOAD FLUID

28. Production - Interval A

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
07/26/2019	08/03/2019	24	→	902.0	1117.0	5137.0	38.0		FLOW FROM WELL
Choke Size	Tbg. Press. Flwg. SI	Csg. Press. 378.0	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
50	SI		→				1238		

28a. Production - Interval B

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
	SI		→						

(See Instructions and spaces for additional data on reverse side)

ELECTRONIC SUBMISSION #478187 VERIFIED BY THE BLM WELL INFORMATION SYSTEM

** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED **

Reclamation due: 01/26/2020

28b. Production - Interval C

Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate →	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	

28c. Production - Interval D

Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate →	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	

29. Disposition of Gas(Sold, used for fuel, vented, etc.)
SOLD

30. Summary of Porous Zones (Include Aquifers):

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

31. Formation (Log) Markers

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top Meas. Depth
RUSTLER	1611		BARREN	RUSTLER	1611
T/SALT	2056		BARREN	T/SALT	2056
YATES	3605		OIL & GAS	YATES	3605
BRUSHY CANYON	6956		OIL & GAS	BRUSHY CANYON	6956
1ST BONE SPRING SAND	9630		OIL & GAS	1ST BONE SPRING SAND	9630
2ND BONE SPRING SAND	10185		OIL & GAS	2ND BONE SPRING SAND	10185
3RD BONE SPRING SAND	10994		OIL & GAS	3RD BONE SPRING SAND	10994

32. Additional remarks (include plugging procedure):
PLEASE REFERENCE ATTACHMENTS

33. Circle enclosed attachments:

- | | | | |
|---|--------------------|---------------|-----------------------|
| 1. Electrical/Mechanical Logs (1 full set req'd.) | 2. Geologic Report | 3. DST Report | 4. Directional Survey |
| 5. Sundry Notice for plugging and cement verification | 6. Core Analysis | 7. Other: | |

34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions):

Electronic Submission #478187 Verified by the BLM Well Information System.
For EOG RESOURCES, INC, sent to the Hobbs
Committed to AFMSS for processing by JENNIFER SANCHEZ on 11/14/2019 ()

Name (please print) KAY MADDOXTitle REGULATORY SPECIALISTSignature (Electronic Submission)Date 08/14/2019

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

**** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ****

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720
District III
1000 Rio Brans Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources
Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

FORM C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-025- 44474	² Pool Code 37580	³ Pool Name Lea; Bone Spring, South
⁴ Property Code 315962	⁵ Property Name DELLA 29 FED COM	
⁶ OGRID No. 7377	⁷ Operator Name EOG RESOURCES, INC.	⁸ Well Number #603H ⁹ Elevation 3716'

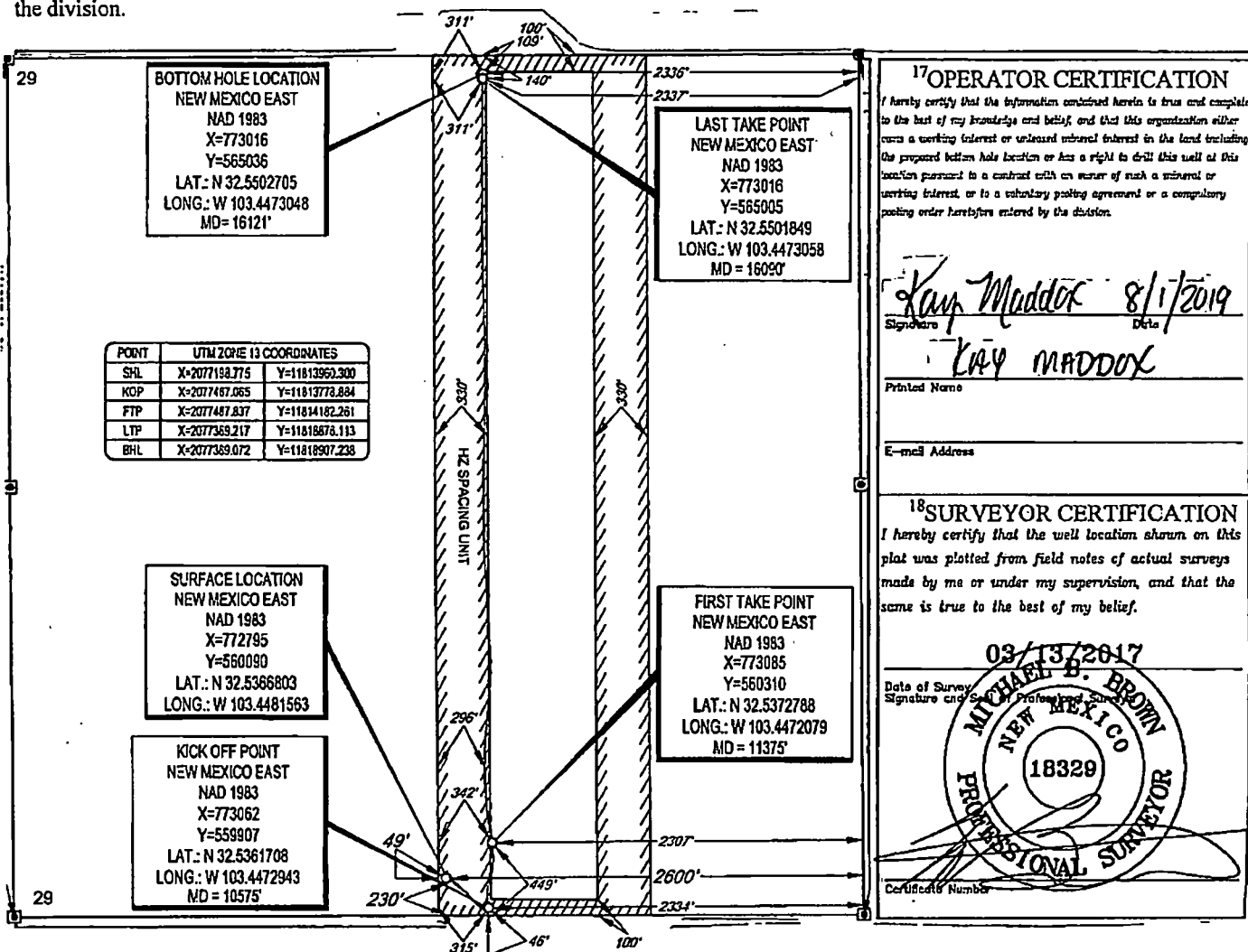
¹⁰Surface Location

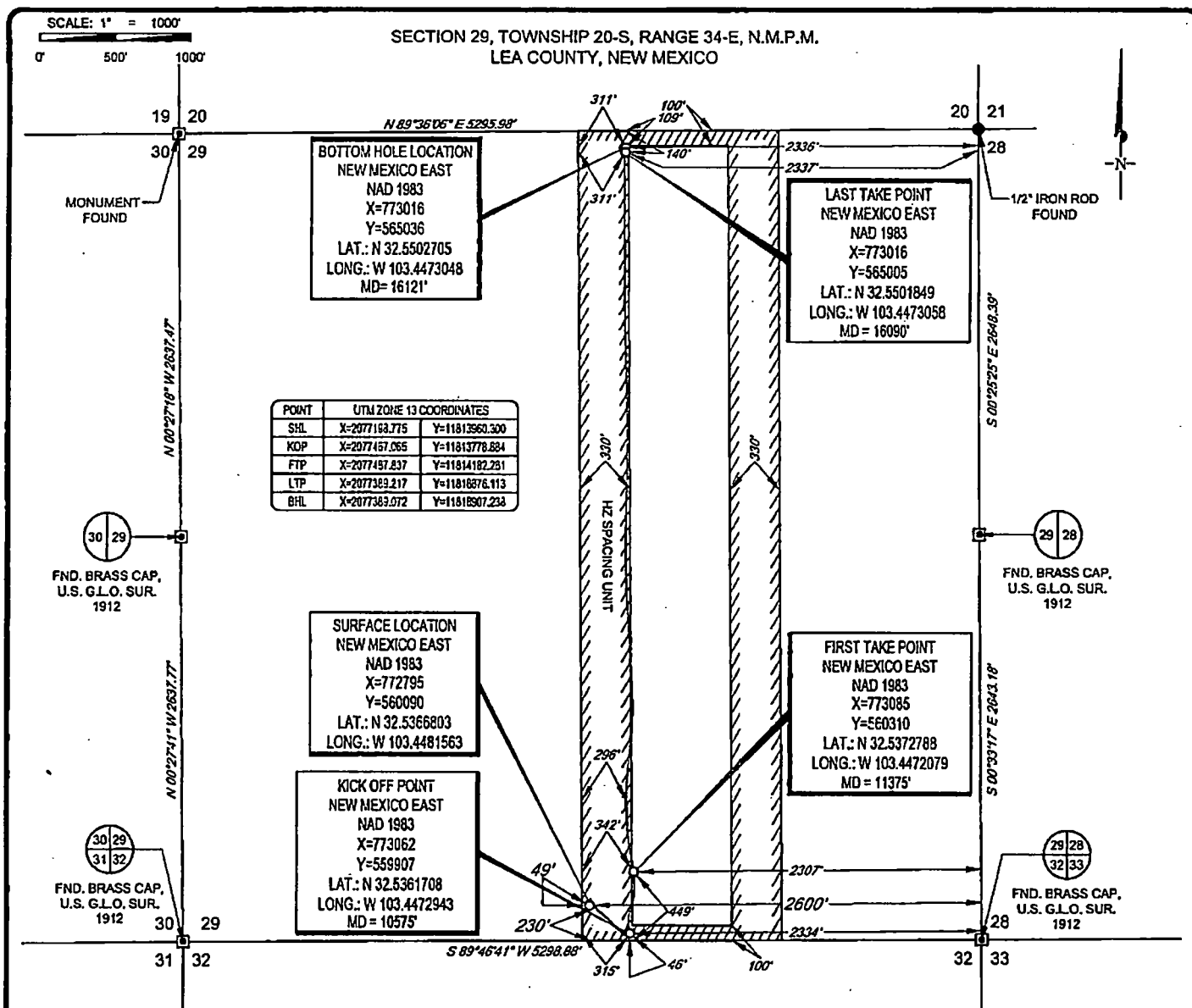
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
0	29	20-S	34-E	-	230'	SOUTH	2600'	EAST	LEA

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
B	29	20-S	34-E	-	109'	NORTH	2337'	EAST	LEA

¹¹ Dedicated Acres	¹² Joint or Infill	¹³ Consolidation Code	¹⁴ Order No.
160.00			

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.





LEASE NAME & WELL NO.: DELLA 29 FED COM #603H

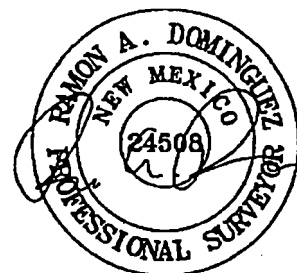
SECTION 29 TWP 20-S RGE 34-E SURVEY N.M.P.M.

COUNTY LEA STATE NM ELEVATION 3716'

DESCRIPTION 230' FSL & 2600' FEL



1400 EVERMAN PARKWAY, S.W. 148 • FT. WORTH, TEXAS 76140
TELEPHONE: (817) 744-7512 • FAX: (817) 744-7554
TEXAS FIRM REGISTRATION NO. 10042504
WWW.TOPOGRAPHIC.COM



Ramon A. Dominguez, P.S. No. 24508
JULY 18, 2019



DELLA 29 FED COM #603H AS-COMPLETED	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, EAST ZONE, U.S. SURVEY FEET, NORTH AMERICAN DATUM 1983. 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.
DATE: 07/18/2019		
FILE: AD_DELLA_29_FED_COM_603H		
DRAWN BY: A.V.F.		
SHEET: 1 OF 1		



EOG Resources - Midland

Lea County, NM (NAD 83 NME)

Della 29 Fed Com

#603H

OH

Design: OH

Final PVA Report

30 January, 2019



Final PVA Report

Company:	EOG Resources - Midland		Local Co-ordinate Reference:	Well #603H
Project:	Lea County, NM (NAD 83 NME)		TVD Reference:	KB = 25 @ 3741.0usft (H&P 444)
Site:	Delta 29 Fed Com		MD Reference:	KB = 25 @ 3741.0usft (H&P 444)
Well:	#603H		North Reference:	Grid
Wellbore:	OH		Survey Calculation Method:	Minimum Curvature
Design:	OH		Database:	EDM 5000.14

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:	Delta 29 Fed Com				
Site Position:	Northing:	560,090.00 usft	Latitude:	32° 32' 15.008 N	
From: Map	Eastng:	772,794.00 usft	Longitude:	103° 34' 56.155 W	
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.40 "

Well:	#603H					
Well Position	+N-S	0.0 usft	Northng:	560,090.00 usft	Latitude:	32° 32' 15.008 N
	+E-W	0.0 usft	Eastng:	772,795.00 usft	Longitude:	103° 34' 56.143 W
Position Uncertainty	0.0 usft	Wellhead Elevation:	usft	Ground Level:	3,716.0 usft	

Wellbore:	OH				
Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength
	IGRF2015	1/7/2019	6.81	60.33	47,959.66138646

Design:	OH			
Audit Notes:				
Version:	1.0	Phase:	ACTUAL	
		Tie On Depth:	0.0	
Vertical Section:	Depth From (TVD)	+N-S	+E-W	Direction
	(usft)	(usft)	(usft)	(°)
	0.0	0.0	0.0	2.77

Survey Program	Date	1/30/2019		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
255.0	16,122.0	Total MWD #1 (OH)	MWD	OWSG MWD - Standard



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Site:	Della 29 Fed Com	MD Reference:	KB = 25 @ 3741.0usft (H&P 444)
Well:	#603H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.14

Survey											
MD (usft)	Inc. (")	Azi (grid_north_azim)	TVD (usft)	N/S (usft)	E/W (usft)	D/Leg ("/100usft)	Build ("/100usft)	Turn ("/100usft)	High to Plan (usft)	Right to Plan (usft)	
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	0.0	0.0
255.0	0.30	89.00	255.0	0.0	0.7	0.12	0.12	0.00	-0.7	0.0	
442.0	0.30	264.40	442.0	0.0	0.7	0.32	0.00	93.80	0.7	0.1	
617.0	1.00	296.20	617.0	0.6	-1.2	0.44	0.40	18.17	-1.3	0.0	
805.0	1.40	320.50	804.9	3.1	-4.1	0.34	0.21	12.93	-5.0	1.2	
899.0	1.40	315.50	898.9	4.8	-5.6	0.13	0.00	-5.32	-7.4	0.6	
994.0	1.20	317.00	993.9	6.4	-7.1	0.21	-0.21	1.58	-9.5	0.9	
1,182.0	0.80	312.30	1,181.9	8.7	-9.4	0.22	-0.21	-2.50	-12.8	-0.1	
1,372.0	0.50	305.10	1,371.9	10.1	-11.1	0.16	-0.16	-3.79	-14.9	-1.8	
1,466.0	0.20	330.40	1,465.8	10.4	-11.6	0.32	-0.32	-5.00	-15.2	-3.1	
1,561.0	0.20	228.30	1,560.8	10.3	-11.8	0.25	0.00	-75.89	-2.0	-15.6	
1,655.0	0.10	258.40	1,654.8	10.2	-12.0	0.13	-0.11	32.02	-9.7	-12.4	
1,680.0	0.10	205.10	1,679.8	10.2	-12.1	0.36	0.00	-213.20	4.1	-15.3	
1,751.0	0.30	145.90	1,750.8	10.0	-12.0	0.37	0.28	-83.38	15.0	-4.3	
1,845.0	0.80	145.40	1,844.8	9.2	-11.5	0.53	0.53	-0.53	14.1	-4.2	
1,940.0	0.80	131.10	1,939.8	8.3	-10.8	0.21	0.00	-15.05	13.4	-0.7	
2,034.0	0.80	131.30	2,033.8	7.4	-9.6	0.00	0.00	0.21	12.1	-0.8	
2,129.0	0.80	132.60	2,128.8	6.5	-8.8	0.02	0.00	1.37	10.8	-1.1	
2,223.0	0.80	145.70	2,222.8	5.5	-7.8	0.16	0.00	13.94	8.9	-3.3	
2,318.0	0.80	145.90	2,317.8	4.4	-7.0	0.00	0.00	0.21	7.6	-3.3	
2,412.0	0.80	141.30	2,411.8	3.4	-6.3	0.07	0.00	-4.89	6.5	-2.6	
2,507.0	1.00	149.10	2,506.8	2.1	-5.4	0.25	0.21	8.21	4.6	-3.5	
2,601.0	1.00	144.70	2,600.8	0.8	-4.5	0.08	0.00	-4.88	3.2	-3.2	
2,696.0	1.00	135.60	2,695.7	-0.5	-3.5	0.18	0.00	-10.21	2.1	-2.6	
2,791.0	1.10	123.30	2,790.7	-1.8	-2.1	0.25	0.11	-12.32	0.9	-2.5	
2,885.0	1.40	114.50	2,884.7	-2.6	-0.3	0.38	0.32	-9.36	-0.8	-2.5	
2,979.0	1.70	107.60	2,978.7	-3.5	2.1	0.38	0.32	-7.34	-3.0	-2.7	



Final PVA Report

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #603H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25 @ 3741.0ush (H&P 444)
Site:	Della 29 Fed Com	MD Reference:	KB = 25 @ 3741.0ush (H&P 444)
Well:	#603H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.14

Survey											
MD (ush)	Inc. (°)	Azi (grid north azim)	TVD (ush)	N/S (ush)	E/W (ush)	DLeg (/1000ush)	Build (/1000ush)	Turn (/1000ush)	High to Plan (ush)	Right to Plan (ush)	
3,073.0	2.00	103.00	3,072.6	-4.2	5.0	0.36	0.32	-4.89	-5.8	-3.0	
3,168.0	2.30	98.10	3,167.6	-4.8	8.5	0.42	0.32	-7.26	-9.0	-3.9	
3,263.0	3.10	90.70	3,262.5	-5.1	13.0	0.88	0.84	-5.68	-13.0	-4.8	
3,357.0	3.20	92.30	3,356.3	-5.2	18.1	0.14	0.11	1.70	-18.3	-4.5	
3,452.0	2.90	92.20	3,451.2	-5.4	23.2	0.32	-0.32	-0.11	-23.4	-4.5	
3,546.0	3.00	88.40	3,545.1	-5.8	28.0	0.25	0.11	4.47	-27.9	-2.3	
3,640.0	3.70	117.10	3,638.9	-7.4	33.2	1.47	0.74	22.02	-28.7	8.8	
3,735.0	5.50	129.20	3,733.6	-11.7	39.4	2.14	1.89	12.74	-27.1	14.6	
3,829.0	6.00	133.80	3,827.1	-17.9	46.4	0.72	0.53	4.89	-26.0	15.2	
3,924.0	6.20	135.70	3,921.6	-25.0	53.6	0.30	0.21	2.00	-25.9	13.9	
4,018.0	6.10	133.60	4,015.0	-32.1	60.8	0.26	-0.11	-2.23	-26.8	10.9	
4,194.0	6.70	131.80	4,189.9	-45.4	75.2	0.36	0.34	-1.02	-28.6	6.6	
4,289.0	6.70	131.30	4,284.3	-52.8	83.5	0.68	0.00	-0.53	-30.0	5.0	
4,383.0	6.70	132.40	4,377.6	-60.1	91.7	0.14	0.00	1.17	-31.2	4.0	
4,478.0	6.40	131.90	4,472.0	-67.3	99.7	0.32	-0.32	-0.53	-32.3	2.0	
4,572.0	8.00	130.20	4,565.5	-74.0	107.4	0.47	-0.43	-1.81	-32.7	-0.4	
4,667.0	8.20	130.90	4,659.9	-80.6	115.0	0.22	0.21	0.74	-33.0	-1.4	
4,761.0	6.80	134.80	4,753.3	-87.8	122.8	0.79	0.64	4.15	-34.0	-0.9	
4,856.0	6.70	131.60	4,847.7	-95.5	130.9	0.41	-0.11	-3.37	-35.3	-4.7	
5,045.0	6.90	134.70	5,035.3	-110.8	147.3	0.22	0.11	1.64	-38.6	-6.3	
5,140.0	6.80	138.40	5,129.7	-119.1	155.1	0.47	0.00	3.89	-40.8	-8.2	
5,234.0	6.60	137.60	5,223.0	-127.3	162.5	0.33	-0.32	-0.85	-42.2	-8.4	
5,419.0	7.70	129.20	5,406.6	-143.0	179.3	0.82	0.59	-4.54	-44.2	-16.3	
5,514.0	7.80	128.00	5,500.7	-150.9	189.3	0.26	0.11	-1.26	-46.7	-21.3	
5,703.0	7.90	130.70	5,687.9	-167.3	209.2	0.20	0.05	1.43	-53.9	-21.3	
5,797.0	8.50	122.80	5,781.2	-174.4	218.6	1.82	-1.49	-8.40	-52.4	-29.4	
5,892.0	8.40	122.40	5,875.6	-180.2	227.6	0.12	-0.11	-0.42	-53.0	-29.8	



Final PVA Report

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Well:	#803H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.14

MD (usft)	Inc (°)	Azi (grid,north,azim)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
5,986.0	5.10	110.60	5,989.1	-184.4	235.9	1.85	-1.38	-12.34	-45.6	-38.8
6,081.0	5.00	118.70	6,063.8	-187.9	243.5	0.74	-0.11	8.32	-48.9	-31.0
6,175.0	4.20	87.10	6,157.5	-189.7	250.5	2.79	-0.85	-33.62	-24.5	-48.4
6,365.0	4.30	81.40	6,346.9	-188.3	264.5	0.23	0.05	-3.00	-18.6	-38.2
6,460.0	3.10	73.40	6,441.7	-187.0	270.5	1.37	-1.26	-8.42	-12.7	-33.5
6,648.0	1.10	53.30	6,629.6	-184.5	276.8	1.12	-1.06	-10.69	0.1	-19.2
6,742.0	0.50	284.10	6,723.6	-183.8	276.8	1.92	-0.21	-137.45	6.0	8.7
6,931.0	1.03	274.00	6,912.8	-183.3	273.7	0.10	0.05	-5.34	-6.6	5.0
7,119.0	1.00	259.20	7,100.5	-183.5	270.5	0.14	0.00	-7.87	-11.2	2.5
7,214.0	1.00	257.20	7,195.5	-183.8	268.9	0.04	0.03	-2.11	-12.9	2.0
7,398.0	1.10	261.50	7,289.5	-184.2	267.2	0.14	0.11	4.57	-14.4	3.1
7,402.0	1.10	251.20	7,383.5	-184.6	265.4	0.21	0.00	-10.96	-16.5	0.3
7,497.0	1.20	239.00	7,478.5	-185.4	263.7	0.28	0.11	-12.84	-18.1	-3.4
7,591.0	1.20	238.90	7,572.5	-186.4	262.0	0.00	0.00	-0.11	-20.1	-3.4
7,686.0	1.10	241.60	7,667.4	-187.4	260.4	0.12	-0.11	2.84	-22.1	-2.5
7,780.0	1.00	246.10	7,761.4	-188.1	258.8	0.14	-0.11	4.79	-24.0	-0.6
7,874.0	1.00	248.00	7,855.4	-188.8	257.3	0.04	0.00	2.02	-25.6	0.2
7,969.0	1.10	252.90	7,950.4	-189.3	255.7	0.14	0.11	5.16	-27.2	2.4
8,063.0	0.60	330.20	8,044.4	-189.2	254.6	1.20	-0.53	82.23	-4.3	28.0
8,252.0	0.70	16.30	8,233.4	-187.2	254.4	0.27	0.03	24.39	15.3	23.2
8,347.0	0.70	11.90	8,328.4	-188.1	254.7	0.06	0.00	-4.63	12.4	24.3
8,441.0	0.40	29.90	8,422.4	-185.2	255.0	0.38	-0.32	19.15	18.4	19.4
8,535.0	0.20	105.70	8,517.4	-185.0	255.3	0.42	-0.21	79.79	23.1	-12.7
8,630.0	0.30	121.30	8,611.4	-185.2	255.7	0.13	0.11	16.60	18.4	-18.4
8,724.0	0.30	142.40	8,705.4	-185.5	256.0	0.12	0.00	22.45	10.1	-23.7
8,819.0	0.20	183.80	8,800.4	-185.9	256.2	0.21	-0.11	43.58	-8.5	-24.3
8,908.0	0.30	131.70	8,889.4	-186.5	256.5	0.13	0.05	-27.57	13.3	-21.9



Final PVA Report

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #603H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25 @ 3741.0usft (H&P 444)
Site:	Della 29 Fed Com	MD Reference:	KB = 25 @ 3741.0usft (H&P 444)
Well:	#603H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.14

MD (usft)	Inc (°)	Asl (grid_north_azim)	TVD (usft)	N/S (usft)	E/W (usft)	ELeg (°/100usft)	Buld (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
9,102.0	0.30	196.80	9,083.4	-186.9	-258.6	0.34	0.00	69.26	-14.6	-21.0
9,291.0	0.50	289.20	8,272.4	-187.1	255.7	0.31	0.11	48.89	-21.2	16.0
9,480.0	0.10	128.50	9,461.4	-186.9	255.1	0.31	-0.21	-85.03	15.4	-22.4
9,574.0	0.80	197.00	9,555.4	-187.6	254.9	0.82	0.74	72.87	-15.9	-22.4
9,669.0	1.70	189.20	8,650.3	-189.6	254.5	0.96	0.95	-8.21	-14.7	-24.4
9,763.0	1.90	194.90	9,744.3	-192.5	253.8	0.29	0.21	6.06	-20.0	-22.7
9,857.0	1.10	196.10	9,838.2	-194.9	253.2	0.85	-0.85	1.28	-23.0	-22.3
9,952.0	1.70	188.40	9,933.2	-197.2	252.8	0.68	0.63	-8.11	-22.1	-25.3
10,047.0	1.00	85.90	10,028.2	-198.2	253.3	2.52	-0.74	-128.95	33.1	-6.3
10,235.0	2.80	42.90	10,218.1	-194.1	258.1	1.07	1.01	-12.23	26.7	6.5
10,329.0	1.50	45.60	10,310.0	-191.5	260.6	1.49	-1.49	2.87	23.3	5.4
10,423.0	2.60	52.10	10,404.0	-189.3	263.1	1.19	1.17	6.91	20.4	2.9
10,518.0	2.50	58.00	10,498.9	-186.9	266.6	0.30	-0.11	6.21	16.4	1.0
10,622.0	6.30	351.70	10,602.6	-180.0	267.7	5.55	3.65	-63.75	-0.9	13.3
10,655.2	11.11	349.70	10,635.4	-175.1	266.8	14.49	14.48	-6.01	-6.3	13.3
KOP (Della 29 Fed Com #603H)										
10,669.0	13.10	349.30	10,648.9	-172.2	268.3	14.49	14.48	-2.91	-9.1	13.3
10,716.0	20.00	349.40	10,693.9	-159.1	263.9	14.68	14.68	0.21	-19.6	14.0
10,763.0	23.40	354.70	10,737.8	-141.9	261.5	8.34	7.23	11.28	-29.1	17.2
10,785.4	23.60	358.87	10,767.3	-129.0	260.6	2.74	0.60	6.69	-34.8	18.7
HL Crossing, MD:10795.4, TVD:10767.3, N/S:-129.0, E/W:260.6, INC:23.60										
10,811.0	23.70	357.90	10,781.6	-122.7	260.3	2.74	0.67	6.81	-38.9	19.4
10,858.0	25.80	1.10	10,824.3	-103.1	260.1	5.30	4.47	6.81	-41.2	21.4
10,905.0	27.90	4.30	10,866.2	-81.9	261.1	5.42	4.47	6.81	-43.2	22.3
10,952.0	30.60	8.90	10,907.2	-59.1	263.8	7.47	5.74	9.79	-42.6	22.3
11,000.0	33.10	11.80	10,948.0	-34.2	268.4	6.16	5.21	6.25	-40.9	18.8
11,094.0	35.00	16.40	11,025.9	16.8	281.3	3.38	2.02	4.79	-30.6	4.5



Final PVA Report

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #603H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25 @ 3741.0usft (H&P 444)
Site:	Della 29 Fed Com	MD Reference:	KB = 25 @ 3741.0usft (H&P 444)
Well:	#603H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.14

MD (usft)	Inc (")	Azi (grid_north_azim)	TVD (usft)	N/S (usft)	EW (usft)	DLog ("/100usft)	Build ("/100usft)	Turn ("/100usft)	High to Plan (usft)	Right to Plan (usft)
11,153.8	39.24	9.86	11,073.6	51.9	289.4	9.60	7.09	-10.76	-19.0	-8.2
FTP (Della 29 Fed Com #603H)										
11,188.0	41.80	6.80	11,099.6	73.9	292.7	9.60	7.49	-9.26	-11.0	-12.9
11,235.0	46.10	2.50	11,133.4	106.4	295.3	11.13	9.15	-9.15	0.6	-16.6
11,283.0	51.10	359.00	11,165.1	142.4	295.7	11.76	10.42	-7.29	12.4	-17.4
11,330.0	57.70	356.00	11,192.5	180.5	294.0	14.97	14.04	-6.38	22.9	-15.5
11,377.0	65.40	354.00	11,214.9	221.6	290.4	16.80	16.38	-4.26	30.9	-11.8
11,424.0	73.80	352.00	11,231.2	265.3	285.0	18.31	17.87	-4.26	35.7	-6.6
11,465.0	81.40	350.80	11,240.0	304.9	279.0	18.72	18.54	-2.68	37.1	-1.2
11,567.0	89.50	351.30	11,248.1	405.3	263.3	7.95	7.94	0.39	38.8	12.7
11,661.0	91.80	354.50	11,247.0	498.5	251.7	4.18	2.45	3.40	38.9	23.6
11,756.0	94.60	358.60	11,241.7	593.1	244.3	3.68	2.95	2.21	34.7	30.3
11,850.0	97.30	359.40	11,232.0	685.5	241.1	4.13	2.87	2.98	28.0	32.9
11,944.0	100.80	2.90	11,217.2	779.3	242.9	5.23	3.72	3.72	12.0	30.4
11,991.0	103.10	5.00	11,207.5	825.1	246.1	6.66	4.89	4.47	2.6	26.8
12,088.0	103.40	6.40	11,185.7	917.1	255.3	1.47	0.32	1.47	-17.5	16.7
12,134.0	97.00	6.10	11,177.2	964.1	260.4	13.35	-13.33	-0.82	-25.4	11.1
12,228.0	88.20	4.70	11,172.9	1,057.5	269.2	9.48	-9.36	-1.49	-28.4	1.6
12,323.0	82.60	4.50	11,160.6	1,151.8	276.8	5.90	-5.89	-0.21	-19.7	-6.8
12,417.0	82.40	0.80	11,192.8	1,244.9	281.1	3.91	-0.21	-3.94	-6.2	-11.8
12,512.0	81.80	359.00	11,205.8	1,339.0	281.0	1.95	-0.53	-1.89	7.8	-12.4
12,606.0	86.80	356.10	11,215.1	1,432.4	277.0	6.03	5.21	-3.09	18.3	-9.2
12,700.0	88.00	357.00	11,219.3	1,526.1	271.3	1.60	1.28	0.96	23.7	-4.3
12,795.0	90.10	357.20	11,220.9	1,621.0	266.5	2.22	2.21	0.21	26.4	-0.3
12,890.0	90.30	356.60	11,220.6	1,715.9	261.4	0.67	0.21	-0.63	27.2	4.1
12,984.0	90.60	356.00	11,219.8	1,809.7	255.3	0.71	0.32	-0.64	27.6	6.4
13,079.0	91.20	357.20	11,218.3	1,904.5	249.7	1.41	0.63	1.26	27.3	14.2



Final PVA Report

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #503H
Project:	Lea County, NM (NAO 83 NME)	TVD Reference:	KB = 25 @ 3741.0usft (H&P 444)
Site:	Della 29 Fed Com	MD Reference:	KB = 25 @ 3741.0usft (H&P 444)
Well:	#503H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.14

Survey:										
MD (usft)	Inc (°)	Azi (grid_north_azim)	TVD (usft)	N/S (usft)	EW (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
13,163.9	91.85	356.57	11,219.2	1,989.3	245.0	0.91	0.53	-0.74	26.3	18.1
YGT81 (Della 29 Fed Com #503H)										
13,173.0	91.70	358.50	11,218.0	1,998.3	244.5	0.91	0.53	-0.74	26.1	18.6
13,267.0	91.90	358.80	11,213.0	2,092.2	240.6	2.45	0.21	2.45	24.8	21.7
13,362.0	90.30	358.70	11,211.2	2,187.1	238.6	1.69	-1.68	-0.11	24.6	23.0
13,456.0	90.20	358.40	11,210.8	2,281.1	236.2	0.34	-0.11	-0.32	25.8	24.6
13,551.0	91.10	0.60	11,209.7	2,376.1	235.4	2.50	0.55	2.32	26.4	24.7
13,645.0	89.40	1.40	11,209.3	2,470.1	237.0	2.00	-1.81	0.85	27.7	22.3
13,740.0	89.60	1.00	11,210.1	2,565.0	239.0	0.47	0.21	-0.42	30.1	19.5
13,835.0	89.80	0.80	11,210.6	2,660.0	240.5	0.30	0.21	-0.21	32.3	17.3
13,929.0	90.20	0.60	11,210.6	2,754.0	241.6	0.48	0.43	-0.21	33.9	15.3
14,023.0	90.60	0.30	11,210.0	2,848.0	242.4	0.53	0.43	-0.32	34.9	13.8
14,118.0	90.90	0.60	11,208.7	2,943.0	243.1	0.45	0.32	0.32	35.3	12.3
14,212.0	91.10	0.20	11,207.1	3,037.0	243.8	0.48	0.21	-0.43	35.4	10.9
14,307.0	90.50	359.70	11,205.8	3,132.0	243.7	0.82	-0.83	-0.53	35.7	10.2
14,401.0	89.70	358.70	11,205.8	3,226.0	242.4	1.38	-0.85	-1.06	37.2	10.7
14,496.0	89.80	358.60	11,206.0	3,320.9	240.1	0.15	0.11	-0.11	39.2	12.2
14,590.0	90.70	359.00	11,205.6	3,414.9	238.2	1.05	0.96	0.43	40.5	13.4
14,684.0	90.90	358.50	11,204.3	3,508.8	236.1	0.57	0.21	-0.53	40.8	14.6
14,779.0	91.10	358.10	11,202.8	3,603.8	233.3	0.47	0.21	-0.42	40.8	16.7
14,873.0	90.60	357.70	11,201.2	3,697.8	229.9	0.68	-0.53	-0.43	41.1	19.3
14,968.0	90.60	358.90	11,200.2	3,792.7	227.0	1.28	0.00	1.28	41.7	21.4
15,062.0	90.60	358.30	11,199.2	3,886.7	224.7	0.64	0.00	-0.84	42.4	22.9
15,156.0	91.40	0.40	11,197.6	3,980.7	223.7	2.39	0.85	2.23	42.4	23.2
15,169.3	91.41	0.40	11,197.3	3,993.9	223.8	0.11	0.11	0.00	42.3	23.0
YGT92 (Della 29 Fed Com #503H)										
15,251.0	91.50	0.40	11,195.2	4,075.6	224.3	0.11	0.11	0.00	41.5	21.8



Lea County, NM (NAD 83 NME)
Delta 29 Fed Com #603H
H&P 444
Plan #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



Adjustive to Grid North
True North: 0.40°
Magnetic North: 8.41°
Magnetic Field
Strength: 47853.8 nT
Dip Angle: 63.33°
Date: 1/7/2019
Model: IGRF2015

To convert a Magnetic Direction to a Grid Direction, Add 8.41°
To convert a Magnetic Direction to a True Direction, Add 8.41° East
To convert a True Direction to a Grid Direction, Subtract 8.41°

WELL DETAILS: #603H

3716.0
K3 = 23 @ 3716.0 (L&P 444)
+N-S +E-W Northing Easting
0.0 0.0 563090.00 772793.00 31° 37' 13.00 N 102° 34' 58.10 W 518

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N-S	+E-W	Dleg	TFace	Vsect	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	3485.0	0.00	0.00	3485.0	0.0	0.0	0.00	0.00	0.0	
3	3784.9	8.00	122.50	3784.4	-8.4	13.2	2.00	122.50	-7.8	
4	6573.0	8.00	122.50	6456.8	-170.8	267.8	0.00	0.00	-157.4	
5	8972.9	0.00	0.00	8956.8	-179.0	281.0	2.00	160.00	-165.2	
6	10653.4	0.00	0.00	10636.5	-179.0	281.0	0.00	0.00	-165.2	KOP (Delta 29 Fed Com #603H)
7	11560.4	90.70	359.53	11209.4	400.9	278.2	10.00	359.53	413.8	
8	13149.2	90.70	359.53	11190.0	1989.8	263.2	0.00	0.00	2000.0	TGT#1 (Delta 29 Fed Com #603H)
9	13164.3	91.00	359.53	11189.8	2004.7	263.1	2.00	0.00	2015.1	
10	15152.7	91.00	359.53	11155.0	3992.7	248.0	0.00	0.00	4000.0	TGT#2 (Delta 29 Fed Com #603H)
11	15157.7	90.90	359.53	11154.9	3997.7	248.8	2.00	160.00	4005.0	
12	16105.2	90.90	359.53	11140.0	4345.0	239.0	-0.00	0.00	4150.8	PBHL (Delta 29 Fed Com #603H)

WELLBORE TARGET DETAILS (UAP COORDINATES)

Name	TVD	+N-S	+E-W	Northing	Easting	Shape
KOP (Delta 29 Fed Com #603H)	10636.5	-179.0	281.0	527911.00	773761.00	Polygon
P04 (Delta 29 Fed Com #603H)	11140.0	434.0	239.0	528023.00	773541.00	Polygon (Side: 10.0 Meters)
TGT#1 (Delta 29 Fed Com #603H)	11155.0	3992.7	248.0	528023.70	773541.00	Point
TGT#2 (Delta 29 Fed Com #603H)	11190.0	1989.8	263.2	528075.60	773528.22	Point
PBHL (Delta 29 Fed Com #603H)	11154.9	-179.0	239.0	527961.00	773761.00	Point

