

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTNMOCD
HobbsFORM APPROVED
OMB No. 1004-0137
Expires: July 31, 2010

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. Lease Serial No.
NMNM02965A1a. Type of Well ☒ Oil Well ☐ Gas Well ☐ Dry ☐ Other
b. Type of Completion ☒ New Well ☐ Work Over ☐ Deepen ☐ Plug Back ☐ Diff. Resvr.
Other

6. If Indian, Allottee or Tribe Name

2. Name of Operator
EOG RESOURCES INCORPORATED E-Mail: stan_wagner@eogresources.com

Contact: STAN WAGNER

7. Unit or CA Agreement Name and No.
NMNM1357568. Lease Name and Well No.
RATTLESNAKE 21 FED COM 701H3. Address
MIDLAND, TX 797023a. Phone No. (include area code)
Ph: 432-686-36899. API Well No.
30-025-42827-00-S1

4. Location of Well (Report location clearly and in accordance with Federal requirements)

At surface Sec 21 T26S R33E Mer NMP
SESE 230FSL 900FEL

At top prod interval reported below

Sec 33 T26S R33E Mer NMP
At total depth SENE 244FSL 408FEL10. Field and Pool, or Exploratory
WC025G09S263327G-UP WOLFCAMP11. Sec., T., R., M., or Block and Survey
or Area Sec 21 T26S R33E Mer NMP12. County or Parish
LEA13. State
NM14. Date Spudded
01/02/201615. Date T.D. Reached
01/26/201616. Date Completed
☐ D & A ☒ Ready to Prod.
04/13/201617. Elevations (DF, KB, RT, GL)*
3253 GL18. Total Depth: MD 19992
TVD 1237119. Plug Back T.D.: MD 19869
TVD 1236520. Depth Bridge Plug Set: MD
TVD21. Type Electric & Other Mechanical Logs Run (Submit copy of each)
NONE22. 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 Skys. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
14.750	10.750 J-55	40.5	0	905		505	120	0	
6.750	5.500 HCP-110	23.0	0	10833					
9.875	7.625 HCP-110	29.7	0	10935		1525	687	0	
6.750	5.000 T-95	23.2	10836	19985		1012	240	10500	

24. Tubing Record

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)
2.875	10754	10727						

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) WOLFCAMP	12848	19869	12848 TO 19869	0.000	2484	PRODUCING - Wolfcamp
B)						
C)						
D)						

26. Perforation Record

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

Depth Interval	Amount and Type of Material
12848 TO 19869	FRAC W/ 1368 BBLs ACID, 13,924,200 LBS PROPPANT, 340873 BBLs LOAD WATER

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
04/13/2016	04/30/2016	24	→	2519.0	5008.0	4617.0	45.6		FLOW FROM WELL
Choke Size	Tbg. Press. Flwg.	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
OPEN	SI 1566	1437.0	→	2519	5008	4617	1988	POW	

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.	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 #339044 VERIFIED BY THE BLM WELL INFORMATION SYSTEM

** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED **

RECLAMATION DUE:
OCT 13 2016ACCEPTED FOR RECORD
/S/ DAVID R. GLASS
AUG 24 2016

DAVID R. GLASS

PETROLEUM ENGINEER

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	788	1128	ANHYDRITE	RUSTLER	788
SALADO	1128	4763	SALT	DELAWARE	4993
BASE OF SALT	4763	4993	SALT	BELL CANYON	5028
DELAWARE	4993	9193	LIMESTONE	BONE SPRING	9193
BONE SPRING	9193	12183	LIMESTONE	WOLFCAMP	12183
WOLFCAMP	12183	19869	SHALE		

32. Additional remarks (include plugging procedure):

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 #339044 Verified by the BLM Well Information System.
For EOG RESOURCES INCORPORATED, sent to the Hobbs
Committed to AFMSS for processing by DEBORAH HAM on 05/16/2016 (16DMH0146SE)

Name (please print) STAN WAGNER

Title REGULATORY ANALYST

Signature (Electronic Submission)

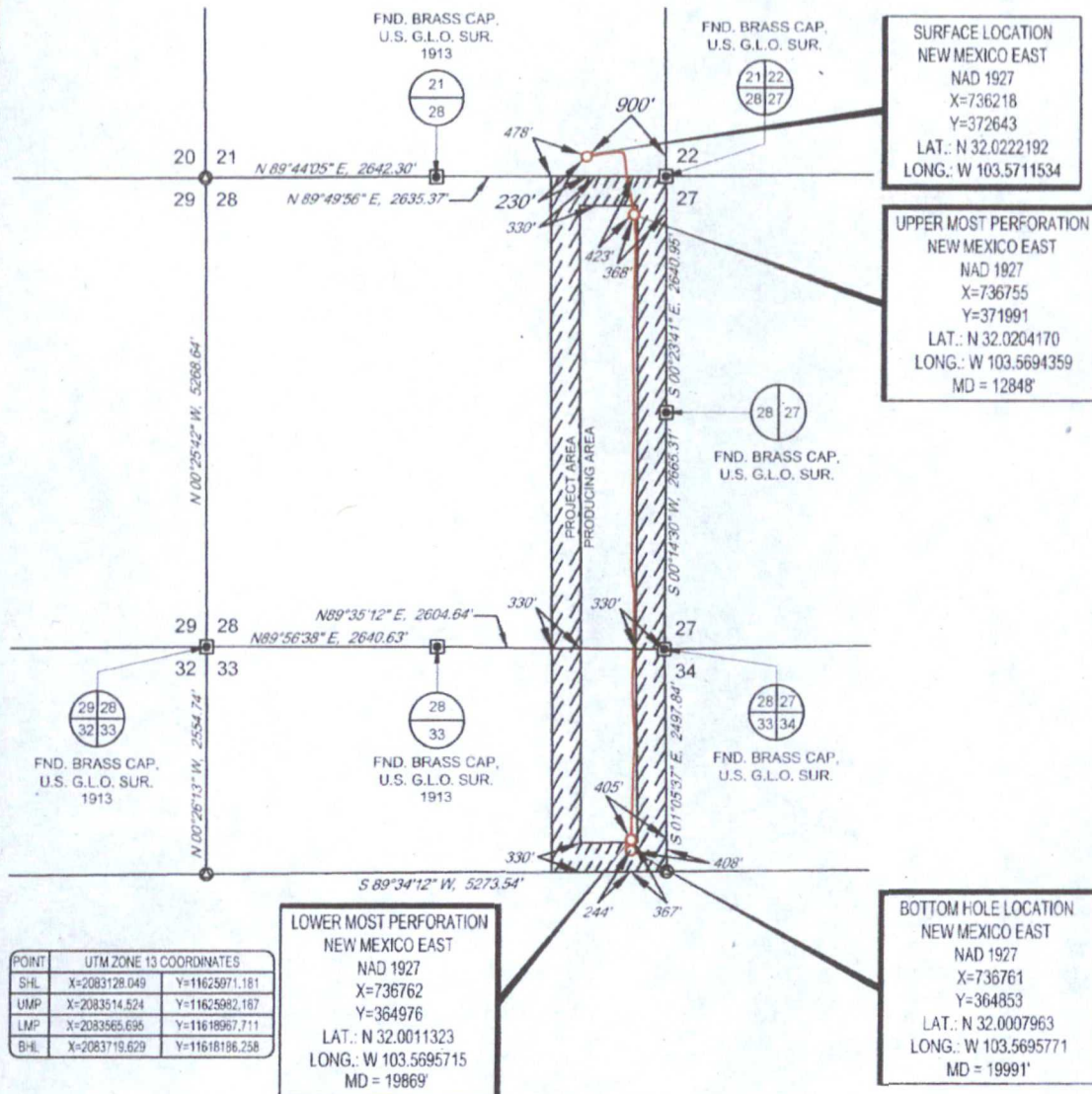
Date 05/12/2016

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.

**** REVISED ** REVISED ** REVISED ** REVISED ** REVISED ** REVISED ** REVISED ****

SCALE: 1" = 2000'

SECTION 21, TOWNSHIP 26-S, RANGE 33-E, N.M.P.M.
LEA COUNTY, NEW MEXICO



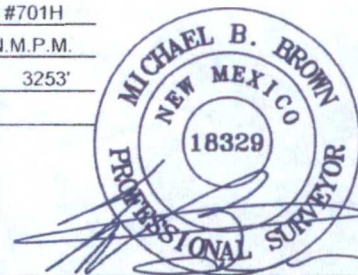
POINT	UTM ZONE 13 COORDINATES
SHL	X=2083128.049 Y=11625971.181
UMP	X=2083514.524 Y=11625982.167
LMP	X=2083565.696 Y=11618967.711
BHL	X=2083719.629 Y=11618186.258

LEASE NAME & WELL NO.: RATTLESNAKE 21 FED COM #701H
 SECTION 21 TWP 26-S RGE 33-E SURVEY N.M.P.M.
 COUNTY LEA STATE NM ELEVATION 3253'
 DESCRIPTION 230' FSL & 900' FEL



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) 767-1653 • FAX (432) 682-1743
 WWW.TOPOGRAPHIC.COM



Michael Blake Brown, P.S. No. 18329
MAY 9, 2016

eog resources, inc.

RATTLESNAKE 21 FED COM #701H AS-COMPLETED	REVISION:	
	INT	DATE
DATE: 05/09/16		
FILE: AD_RATTLESNAKE21FEDCOM_701H		
DRAWN BY: A.C.C.		
SHEET: 1 OF 1		

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.



EOG Resources

Lea County, NM (NAD 27 NME)
Rattlesnake 21 Fed Com
#701H

OH

Design: OH

Standard Survey Report

28 January, 2016

HOBBS OCD

AUG 29 2016

RECEIVED



Survey Report

Company:	EOG Resources	Local Co-ordinate Reference:	Well #701H
Project:	Lea County, NM (NAD 27 NME)	TVD Reference:	KB = 25 @ 3278.01ft (H&P 415)
Site:	Rattlesnake 21 Fed Com	MD Reference:	KB = 25 @ 3278.01ft (H&P 415)
Well:	#701H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.1 Single User Db

Project	Lea County, NM (NAD 27 NME)		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		

Site	Rattlesnake 21 Fed Com		
-------------	------------------------	--	--

Site Position:		Northing:	372,643.00 usft	Latitude:	32° 1' 19.990 N
From:	Map	Easting:	736,218.00 usft	Longitude:	103° 34' 16.150 W
Position Uncertainty:	0.00 ft	Slot Radius:	13.200 in	Grid Convergence:	0.40 °

Well	#701H					
Well Position	+N/-S	0.00 ft	Northing:	372,643.00 usf	Latitude:	32° 1' 19.990 N
	+E/-W	0.00 ft	Easting:	736,218.00 usf	Longitude:	103° 34' 16.150 W
Position Uncertainty	0.00 ft		Wellhead Elevation:	0.00 ft	Ground Level:	3,253.01 ft

Wellbore	OH				
-----------------	----	--	--	--	--

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	12/20/2015	7.10	59.90	47,972

Design	OH				
---------------	----	--	--	--	--

Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.00

Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.00	0.00	0.00	175.87

Survey Program	Date 1/26/2016				
-----------------------	----------------	--	--	--	--

From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
112.97	902.00	Vaughn Energy Gyro (OH)	NSG-CT_D/P	Continuous north-seeking gyro in drillpipe
960.00	12,849.00	DrilTech MWD (OH)	MWD	MWD - Standard
12,966.00	15,866.00	Schlumberger Rotary Steerable (OH)	MWD	MWD - Standard
15,966.00	19,992.00	DrilTech MWD 2 (OH)	MWD	MWD - Standard

Survey										
---------------	--	--	--	--	--	--	--	--	--	--

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
112.97	0.95	272.92	112.96	0.05	-0.94	-0.11	0.84	0.84	0.00
200.64	0.84	273.82	200.62	0.13	-2.30	-0.29	0.13	-0.13	1.03
288.31	0.81	287.52	288.29	0.36	-3.53	-0.61	0.23	-0.03	15.63
375.98	0.67	283.11	375.95	0.66	-4.62	-0.99	0.17	-0.16	-5.03
463.65	0.66	290.19	463.61	0.95	-5.60	-1.35	0.09	-0.01	8.08
551.32	0.79	292.48	551.27	1.36	-6.63	-1.83	0.15	0.15	2.61
638.99	0.78	289.50	638.94	1.79	-7.75	-2.34	0.05	-0.01	-3.40



Survey Report

Company:	EOG Resources	Local Co-ordinate Reference:	Well #701H
Project:	Lea County, NM (NAD 27 NME)	TVD Reference:	KB = 25 @ 3278.01ft (H&P 415)
Site:	Rattlesnake 21 Fed Com	MD Reference:	KB = 25 @ 3278.01ft (H&P 415)
Well:	#701H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.1 Single User Db

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
726.66	0.81	290.19	726.60	2.20	-8.90	-2.83	0.04	0.03	0.79
814.33	0.81	299.13	814.26	2.71	-10.02	-3.43	0.14	0.00	10.20
902.00	0.64	297.53	901.92	3.24	-10.99	-4.03	0.20	-0.19	-1.83
960.00	0.50	297.80	959.92	3.51	-11.50	-4.33	0.24	-0.24	0.47
960' MD: Begin DrilTech MWD									
1,149.00	0.70	96.30	1,148.92	3.77	-11.09	-4.56	0.62	0.11	83.86
1,243.00	0.70	84.70	1,242.91	3.76	-9.94	-4.46	0.15	0.00	-12.34
1,338.00	0.70	86.30	1,337.90	3.85	-8.79	-4.47	0.02	0.00	1.68
1,432.00	1.20	86.90	1,431.89	3.94	-7.23	-4.45	0.53	0.53	0.64
1,526.00	0.70	80.00	1,525.88	4.09	-5.68	-4.49	0.54	-0.53	-7.34
1,621.00	0.70	62.10	1,620.87	4.46	-4.60	-4.78	0.23	0.00	-18.84
1,715.00	0.50	58.60	1,714.86	4.95	-3.74	-5.20	0.22	-0.21	-3.72
1,810.00	0.40	84.70	1,809.86	5.19	-3.06	-5.40	0.24	-0.11	27.47
1,904.00	0.40	65.80	1,903.86	5.36	-2.43	-5.52	0.14	0.00	-20.11
1,999.00	0.00	211.00	1,998.86	5.49	-2.13	-5.63	0.42	-0.42	0.00
2,093.00	0.00	41.20	2,092.86	5.49	-2.13	-5.63	0.00	0.00	0.00
2,187.00	0.00	244.40	2,186.86	5.49	-2.13	-5.63	0.00	0.00	0.00
2,282.00	0.20	274.60	2,281.86	5.51	-2.29	-5.66	0.21	0.21	0.00
2,376.00	0.40	234.00	2,375.86	5.33	-2.72	-5.51	0.30	0.21	-43.19
2,471.00	0.40	239.60	2,470.85	4.97	-3.28	-5.19	0.04	0.00	5.89
2,565.00	0.50	266.00	2,564.85	4.77	-3.97	-5.04	0.24	0.11	28.09
2,660.00	0.40	275.80	2,659.85	4.78	-4.71	-5.10	0.13	-0.11	10.32
2,754.00	0.40	285.80	2,753.85	4.90	-5.35	-5.27	0.07	0.00	10.64
2,849.00	0.20	274.80	2,848.84	5.00	-5.84	-5.41	0.22	-0.21	-11.58
2,943.00	0.40	239.30	2,942.84	4.85	-6.28	-5.29	0.28	0.21	-37.77
3,038.00	0.40	118.00	3,037.84	4.52	-6.28	-4.96	0.73	0.00	-127.68
3,132.00	0.40	109.00	3,131.84	4.26	-5.68	-4.66	0.07	0.00	-9.57
3,226.00	1.20	94.60	3,225.83	4.08	-4.39	-4.38	0.87	0.85	-15.32
3,321.00	1.40	102.10	3,320.81	3.75	-2.26	-3.91	0.28	0.21	7.89
3,415.00	2.50	96.70	3,414.75	3.27	0.90	-3.20	1.19	1.17	-5.74
3,509.00	3.00	94.10	3,508.64	2.86	5.39	-2.46	0.55	0.53	-2.77
3,603.00	3.70	88.80	3,602.48	2.75	10.87	-1.96	0.81	0.74	-5.64
3,698.00	4.80	86.70	3,697.22	3.04	17.91	-1.74	1.17	1.16	-2.21
3,793.00	6.20	89.00	3,791.78	3.36	27.01	-1.40	1.49	1.47	2.42
3,887.00	6.00	79.80	3,885.25	4.32	36.92	-1.65	1.06	-0.21	-9.79
3,981.00	4.60	75.60	3,978.84	6.12	45.40	-2.84	1.54	-3.49	-4.47
4,075.00	3.90	72.30	4,072.58	8.03	52.10	-4.26	0.79	-0.74	-3.51
4,170.00	3.50	75.40	4,167.39	9.75	57.98	-5.54	0.47	-0.42	3.26
4,264.00	3.90	78.40	4,261.19	11.11	63.89	-6.48	0.47	0.43	3.19
4,359.00	4.60	87.00	4,355.93	11.96	70.86	-6.83	0.99	0.74	9.05
4,453.00	4.40	91.30	4,449.64	12.08	78.23	-6.41	0.42	-0.21	4.57
4,548.00	4.90	96.30	4,544.33	11.55	85.91	-5.33	0.68	0.53	5.26
4,643.00	4.80	99.20	4,638.99	10.47	93.86	-3.68	0.28	-0.11	3.05



Survey Report

Company:	EOG Resources	Local Co-ordinate Reference:	Well #701H
Project:	Lea County, NM (NAD 27 NME)	TVD Reference:	KB = 25 @ 3278.01ft (H&P 415)
Site:	Rattlesnake 21 Fed Com	MD Reference:	KB = 25 @ 3278.01ft (H&P 415)
Well:	#701H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.1 Single User Db

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
4,737.00	4.60	81.20	4,732.68	10.42	101.47	-3.08	1.58	-0.21	-19.15
4,831.00	4.60	71.60	4,826.38	12.18	108.77	-4.32	0.82	0.00	-10.21
4,926.00	4.00	68.60	4,921.11	14.59	115.47	-6.24	0.67	-0.63	-3.16
5,020.00	3.90	67.70	5,014.88	17.00	121.48	-8.21	0.13	-0.11	-0.96
5,115.00	4.00	65.80	5,109.66	19.59	127.49	-10.35	0.17	0.11	-2.00
5,209.00	4.40	81.40	5,203.41	21.47	134.05	-11.76	1.28	0.43	16.60
5,303.00	4.40	86.00	5,297.13	22.26	141.21	-12.03	0.38	0.00	4.89
5,398.00	4.40	84.40	5,391.85	22.87	148.47	-12.12	0.13	0.00	-1.68
5,492.00	4.60	84.90	5,485.56	23.56	155.82	-12.28	0.22	0.21	0.53
5,586.00	4.20	85.80	5,579.29	24.15	163.00	-12.34	0.43	-0.43	0.96
5,680.00	4.60	86.70	5,673.01	24.61	170.20	-12.29	0.43	0.43	0.96
5,774.00	4.90	89.00	5,766.69	24.90	177.98	-12.02	0.38	0.32	2.45
5,868.00	4.20	78.90	5,860.39	25.63	185.37	-12.22	1.13	-0.74	-10.74
5,962.00	4.00	75.10	5,954.15	27.14	191.91	-13.25	0.36	-0.21	-4.04
6,056.00	4.00	73.10	6,047.92	28.94	198.22	-14.59	0.15	0.00	-2.13
6,151.00	3.90	70.20	6,142.69	30.99	204.43	-16.19	0.24	-0.11	-3.05
6,245.00	4.20	82.80	6,236.46	32.51	210.85	-17.24	1.00	0.32	13.40
6,339.00	4.00	85.80	6,330.22	33.18	217.54	-17.43	0.31	-0.21	3.19
6,434.00	4.00	86.30	6,424.99	33.64	224.15	-17.41	0.04	0.00	0.53
6,528.00	4.20	87.40	6,518.75	34.00	230.86	-17.29	0.23	0.21	1.17
6,622.00	4.20	88.40	6,612.50	34.26	237.74	-17.05	0.08	0.00	1.06
6,716.00	4.40	89.00	6,706.23	34.41	244.78	-16.70	0.22	0.21	0.64
6,811.00	4.20	87.20	6,800.96	34.65	251.90	-16.42	0.25	-0.21	-1.89
6,905.00	4.20	85.80	6,894.71	35.07	258.77	-16.34	0.11	0.00	-1.49
6,999.00	4.20	83.90	6,988.46	35.69	265.63	-16.46	0.15	0.00	-2.02
7,094.00	4.40	84.70	7,083.19	36.39	272.72	-16.66	0.22	0.21	0.84
7,188.00	4.20	84.60	7,176.93	37.05	279.73	-16.81	0.21	-0.21	-0.11
7,283.00	3.90	82.60	7,271.69	37.79	286.40	-17.07	0.35	-0.32	-2.11
7,377.00	3.90	82.30	7,365.47	38.63	292.74	-17.45	0.02	0.00	-0.32
7,472.00	3.90	80.90	7,460.25	39.58	299.13	-17.93	0.10	0.00	-1.47
7,566.00	3.90	79.80	7,554.04	40.65	305.43	-18.55	0.08	0.00	-1.17
7,661.00	3.70	78.40	7,648.83	41.84	311.62	-19.29	0.23	-0.21	-1.47
7,755.00	3.50	77.90	7,742.64	43.05	317.39	-20.08	0.22	-0.21	-0.53
7,850.00	4.00	82.50	7,837.44	44.09	323.51	-20.68	0.61	0.53	4.84
7,944.00	3.90	83.30	7,931.21	44.89	329.94	-21.01	0.12	-0.11	0.85
8,038.00	3.90	83.30	8,025.00	45.64	336.29	-21.30	0.00	0.00	0.00
8,133.00	3.70	83.90	8,119.79	46.34	342.55	-21.55	0.21	-0.21	0.63
8,227.00	3.70	84.40	8,213.59	46.96	348.58	-21.73	0.03	0.00	0.53
8,321.00	3.50	87.90	8,307.41	47.36	354.47	-21.71	0.32	-0.21	3.72
8,416.00	3.70	89.00	8,402.22	47.52	360.43	-21.44	0.22	0.21	1.16
8,510.00	3.50	86.70	8,496.03	47.74	366.33	-21.23	0.26	-0.21	-2.45
8,604.00	3.30	89.70	8,589.87	47.92	371.90	-21.01	0.28	-0.21	3.19
8,699.00	3.00	91.60	8,684.72	47.86	377.11	-20.58	0.33	-0.32	2.00
8,793.00	3.00	101.10	8,778.60	47.32	381.99	-19.68	0.53	0.00	10.11



Survey Report

Company:	EOG Resources	Local Co-ordinate Reference:	Well #701H
Project:	Lea County, NM (NAD 27 NME)	TVD Reference:	KB = 25 @ 3278.01ft (H&P 415)
Site:	Rattlesnake 21 Fed Corn	MD Reference:	KB = 25 @ 3278.01ft (H&P 415)
Well:	#701H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.1 Single User Db

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
8,888.00	3.00	99.70	8,873.47	46.42	386.88	-18.44	0.08	0.00	-1.47
8,982.00	3.00	99.30	8,967.34	45.61	391.73	-17.28	0.02	0.00	-0.43
9,076.00	2.60	104.10	9,061.22	44.69	396.22	-16.04	0.49	-0.43	5.11
9,170.00	2.50	100.90	9,155.13	43.78	400.31	-14.84	0.19	-0.11	-3.40
9,265.00	2.10	100.00	9,250.06	43.09	404.05	-13.88	0.42	-0.42	-0.95
9,359.00	1.90	102.30	9,344.00	42.46	407.27	-13.02	0.23	-0.21	2.45
9,453.00	1.40	103.40	9,437.96	41.86	409.91	-12.23	0.53	-0.53	1.17
9,547.00	1.10	116.70	9,531.94	41.19	411.84	-11.42	0.44	-0.32	14.15
9,642.00	0.70	127.30	9,626.92	40.43	413.11	-10.57	0.45	-0.42	11.16
9,737.00	0.50	118.70	9,721.92	39.88	413.94	-9.96	0.23	-0.21	-9.05
9,830.00	0.40	84.20	9,814.92	39.72	414.62	-9.75	0.30	-0.11	-37.10
9,925.00	0.40	1.30	9,909.91	40.08	414.95	-10.09	0.56	0.00	-87.26
10,019.00	0.70	328.20	10,003.91	40.90	414.66	-10.93	0.45	0.32	-35.21
10,113.00	0.70	333.70	10,097.90	41.90	414.10	-11.97	0.07	0.00	5.85
10,207.00	0.70	327.00	10,191.90	42.90	413.53	-13.00	0.09	0.00	-7.13
10,302.00	1.10	332.10	10,286.88	44.19	412.79	-14.34	0.43	0.42	5.37
10,397.00	1.10	318.00	10,381.87	45.67	411.75	-15.90	0.28	0.00	-14.84
10,491.00	1.10	292.20	10,475.85	46.68	410.32	-17.01	0.52	0.00	-27.45
10,586.00	1.20	289.50	10,570.83	47.36	408.53	-17.81	0.12	0.11	-2.84
10,680.00	1.40	288.50	10,664.81	48.05	406.52	-18.65	0.21	0.21	-1.06
10,774.00	1.40	284.40	10,758.78	48.70	404.32	-19.46	0.11	0.00	-4.36
10,869.00	1.40	288.50	10,853.75	49.36	402.09	-20.27	0.11	0.00	4.32
10,978.00	1.40	284.60	10,962.72	50.12	399.54	-21.21	0.09	0.00	-3.58
11,071.00	1.80	240.10	11,055.69	49.68	397.17	-20.94	1.36	0.43	-47.85
11,165.00	2.10	154.40	11,149.65	47.39	396.64	-18.70	2.83	0.32	-91.17
11,259.00	1.90	165.80	11,243.59	44.32	397.76	-15.56	0.47	-0.21	12.13
11,353.00	1.80	172.30	11,337.54	41.35	398.34	-12.55	0.25	-0.11	6.91
11,446.00	1.10	134.80	11,430.51	39.27	399.17	-10.42	1.23	-0.75	-40.32
11,540.00	2.10	108.70	11,524.48	38.08	401.45	-9.07	1.29	1.06	-27.77
11,633.00	1.80	89.50	11,617.42	37.55	404.52	-8.32	0.77	-0.32	-20.65
11,727.00	2.10	84.70	11,711.37	37.72	407.71	-8.26	0.36	0.32	-5.11
11,820.00	2.60	127.80	11,804.30	36.59	411.07	-6.89	1.92	0.54	46.34
11,867.00	5.80	153.80	11,851.17	33.80	412.97	-3.97	7.76	6.81	55.32
11,914.00	10.00	157.50	11,897.71	27.90	415.58	2.10	9.00	8.94	7.87
11,961.00	14.40	158.00	11,943.64	18.71	419.33	11.54	9.36	9.36	1.06
12,008.00	17.80	157.70	11,988.79	6.64	424.25	23.93	7.24	7.23	-0.64
12,054.00	22.00	164.00	12,032.04	-8.16	429.29	39.06	10.24	9.13	13.70
12,101.00	26.70	170.50	12,074.85	-27.05	433.47	58.20	11.50	10.00	13.83
12,148.00	31.70	174.20	12,115.87	-49.77	436.46	81.07	11.31	10.64	7.87
12,195.00	37.50	174.40	12,154.54	-76.31	439.10	107.74	12.34	12.34	0.43
12,241.00	43.30	174.60	12,189.56	-105.97	441.96	137.53	12.61	12.61	0.43
12,288.00	45.00	175.40	12,223.28	-138.59	444.81	170.26	3.81	3.62	1.70
12,335.00	50.30	173.30	12,254.93	-173.13	448.25	204.97	11.75	11.28	-4.47



Survey Report

Company:	EOG Resources	Local Co-ordinate Reference:	Well #701H
Project:	Lea County, NM (NAD 27 NME)	TVD Reference:	KB = 25 @ 3278.01ft (H&P 415)
Site:	Rattlesnake 21 Fed Com	MD Reference:	KB = 25 @ 3278.01ft (H&P 415)
Well:	#701H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.1 Single User Db

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
12,382.00	57.00	171.40	12,282.78	-210.62	453.31	242.72	14.62	14.26	-4.04
12,429.00	63.20	169.10	12,306.20	-250.75	460.24	283.25	13.86	13.19	-4.89
12,476.00	66.00	168.10	12,326.35	-292.36	468.63	325.36	6.26	5.96	-2.13
12,522.00	71.10	167.70	12,343.17	-334.21	477.60	367.74	11.12	11.09	-0.87
12,569.00	76.90	168.20	12,356.12	-378.38	487.03	412.47	12.38	12.34	1.06
12,615.00	81.60	168.90	12,364.70	-422.66	496.00	457.28	10.33	10.22	1.52
12,693.00	87.80	170.00	12,371.90	-498.98	510.21	534.42	8.07	7.95	1.41
12,756.00	94.50	169.10	12,370.64	-560.88	521.62	596.99	10.73	10.63	-1.43
12,849.00	92.40	171.80	12,365.04	-652.41	537.02	689.40	3.67	-2.26	2.90
12849'MD: Final DrilTech MWD (Section 1)									
12,966.00	88.97	172.63	12,363.64	-768.31	552.86	806.13	3.02	-2.93	0.71
12966'MD: Begin Schlumberger Rotary Steerable									
13,059.00	87.52	179.29	12,366.49	-860.98	559.41	899.03	7.33	-1.56	7.16
13,152.00	88.72	179.61	12,369.54	-953.92	560.30	991.80	1.34	1.29	0.34
13,246.00	88.35	181.85	12,371.95	-1,047.88	559.11	1,085.42	2.41	-0.39	2.38
13,341.00	88.86	180.79	12,374.26	-1,142.82	556.92	1,179.96	1.24	0.54	-1.12
13,435.00	89.38	181.04	12,375.70	-1,236.80	555.42	1,273.59	0.61	0.55	0.27
13,528.00	89.52	181.68	12,376.59	-1,329.77	553.21	1,366.16	0.70	0.15	0.69
13,621.00	89.86	180.74	12,377.10	-1,422.75	551.25	1,458.75	1.07	0.37	-1.01
13,715.00	89.76	180.99	12,377.41	-1,516.73	549.83	1,552.39	0.29	-0.11	0.27
13,809.00	89.76	180.31	12,377.80	-1,610.73	548.76	1,646.07	0.72	0.00	-0.72
13,902.00	89.66	181.34	12,378.27	-1,703.71	547.42	1,738.72	1.11	-0.11	1.11
13,996.00	89.83	181.08	12,378.69	-1,797.69	545.44	1,832.31	0.33	0.18	-0.28
14,090.00	89.86	181.20	12,378.95	-1,891.67	543.57	1,925.91	0.13	0.03	0.13
14,183.00	89.83	180.55	12,379.20	-1,984.66	542.15	2,018.55	0.70	-0.03	-0.70
14,277.00	90.48	179.68	12,378.94	-2,078.66	541.96	2,112.29	1.16	0.69	-0.93
14,370.00	90.66	181.18	12,378.02	-2,171.65	541.26	2,204.99	1.62	0.19	1.61
14,463.00	90.69	178.23	12,376.92	-2,264.63	541.74	2,297.77	3.17	0.03	-3.17
14,556.00	91.27	179.44	12,375.33	-2,357.60	543.63	2,390.63	1.44	0.62	1.30
14,650.00	91.82	178.53	12,372.80	-2,451.55	545.29	2,484.45	1.13	0.59	-0.97
14,744.00	90.86	180.36	12,370.60	-2,545.51	546.20	2,578.24	2.20	-1.02	1.95
14,839.00	91.03	178.79	12,369.03	-2,640.49	546.91	2,673.02	1.66	0.18	-1.65
14,932.00	90.93	179.15	12,367.44	-2,733.46	548.58	2,765.88	0.40	-0.11	0.39
15,023.00	91.07	179.11	12,365.85	-2,824.44	549.96	2,856.71	0.16	0.15	-0.04
15,116.00	90.76	180.31	12,364.37	-2,917.43	550.43	2,949.49	1.33	-0.33	1.29
15,210.00	89.76	180.49	12,363.94	-3,011.42	549.78	3,043.20	1.08	-1.06	0.19
15,304.00	89.93	181.39	12,364.20	-3,105.41	548.23	3,136.83	0.97	0.18	0.96
15,396.00	89.93	180.63	12,364.31	-3,197.39	546.61	3,228.46	0.83	0.00	-0.83
15,491.00	90.52	181.04	12,363.94	-3,292.38	545.23	3,323.10	0.76	0.62	0.43
15,585.00	89.28	180.28	12,364.10	-3,386.37	544.15	3,416.77	1.55	-1.32	-0.81
15,678.00	88.80	179.78	12,365.66	-3,479.36	544.10	3,509.51	0.75	-0.52	-0.54
15,772.00	88.38	180.70	12,367.97	-3,573.33	543.70	3,603.21	1.08	-0.45	0.98
15,866.00	88.80	180.50	12,370.28	-3,667.29	542.72	3,696.86	0.49	0.45	-0.21
15866'MD: Final Schlumberger Survey									



Survey Report

Company:	EOG Resources	Local Co-ordinate Reference:	Well #701H
Project:	Lea County, NM (NAD 27 NME)	TVD Reference:	KB = 25 @ 3278.01ft (H&P 415)
Site:	Rattlesnake 21 Fed Com	MD Reference:	KB = 25 @ 3278.01ft (H&P 415)
Well:	#701H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.1 Single User Db

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
15,966.00	89.90	181.80	12,371.42	-3,767.26	540.71	3,796.42	1.70	1.10	1.30
15966'MD: Begin DrilTech MWD Section 2									
16,061.00	89.60	182.10	12,371.83	-3,862.21	537.48	3,890.89	0.45	-0.32	0.32
16,155.00	90.60	180.40	12,371.67	-3,956.18	535.43	3,984.47	2.10	1.06	-1.81
16,247.00	91.30	180.20	12,370.14	-4,048.17	534.95	4,076.18	0.79	0.76	-0.22
16,341.00	91.70	179.30	12,367.68	-4,142.13	535.36	4,169.93	1.05	0.43	-0.96
16,434.00	90.80	180.50	12,365.65	-4,235.11	535.52	4,262.68	1.61	-0.97	1.29
16,527.00	91.30	181.40	12,363.95	-4,328.08	533.98	4,355.29	1.11	0.54	0.97
16,622.00	89.90	180.40	12,362.96	-4,423.06	532.49	4,449.92	1.81	-1.47	-1.05
16,716.00	89.00	180.00	12,363.86	-4,517.05	532.16	4,543.65	1.05	-0.96	-0.43
16,809.00	88.50	177.70	12,365.89	-4,610.00	534.02	4,636.49	2.53	-0.54	-2.47
16,902.00	87.30	175.80	12,369.29	-4,702.78	539.29	4,729.41	2.42	-1.29	-2.04
16,996.00	90.80	173.50	12,370.85	-4,796.34	548.05	4,823.36	4.46	3.72	-2.45
17,089.00	95.00	173.90	12,366.15	-4,888.64	558.24	4,916.15	4.54	4.52	0.43
17,183.00	94.70	180.20	12,358.19	-4,982.13	563.06	5,009.75	6.69	-0.32	6.70
17,276.00	91.30	182.10	12,353.33	-5,074.97	561.20	5,102.21	4.19	-3.66	2.04
17,370.00	90.10	180.90	12,352.18	-5,168.93	558.74	5,195.74	1.81	-1.28	-1.28
17,464.00	88.50	180.70	12,353.33	-5,262.91	557.42	5,289.38	1.72	-1.70	-0.21
17,558.00	90.40	180.00	12,354.23	-5,356.90	556.85	5,383.09	2.15	2.02	-0.74
17,651.00	91.70	180.00	12,352.52	-5,449.88	556.85	5,475.83	1.40	1.40	0.00
17,746.00	90.40	180.20	12,350.78	-5,544.86	556.68	5,570.55	1.38	-1.37	0.21
17,839.00	90.80	181.40	12,349.81	-5,637.84	555.38	5,663.20	1.36	0.43	1.29
17,933.00	91.70	183.20	12,347.76	-5,731.74	551.61	5,756.58	2.14	0.96	1.91
18,026.00	88.70	181.60	12,347.43	-5,824.64	547.72	5,848.97	3.66	-3.23	-1.72
18,121.00	90.60	180.00	12,348.01	-5,919.63	546.39	5,943.61	2.61	2.00	-1.68
18,213.00	90.10	177.90	12,347.45	-6,011.60	548.08	6,035.47	2.35	-0.54	-2.28
18,307.00	89.70	177.40	12,347.62	-6,105.52	551.93	6,129.42	0.68	-0.43	-0.53
18,400.00	90.10	177.40	12,347.78	-6,198.43	556.15	6,222.39	0.43	0.43	0.00
18,494.00	90.30	176.90	12,347.45	-6,292.31	560.83	6,316.36	0.57	0.21	-0.53
18,588.00	90.60	177.40	12,346.71	-6,386.19	565.50	6,410.33	0.62	0.32	0.53
18,681.00	91.10	178.30	12,345.33	-6,479.11	568.99	6,503.27	1.11	0.54	0.97
18,774.00	90.10	179.50	12,344.36	-6,572.09	570.77	6,596.13	1.68	-1.08	1.29
18,867.00	90.30	180.90	12,344.03	-6,665.09	570.45	6,688.86	1.52	0.22	1.51
18,961.00	89.90	182.50	12,343.87	-6,759.04	567.66	6,782.37	1.75	-0.43	1.70
19,055.00	89.40	182.10	12,344.44	-6,852.96	563.89	6,875.78	0.68	-0.53	-0.43
19,148.00	90.10	182.30	12,344.85	-6,945.89	560.32	6,968.21	0.78	0.75	0.22
19,241.00	91.80	181.40	12,343.31	-7,038.83	557.32	7,060.69	2.07	1.83	-0.97
19,334.00	90.80	180.90	12,341.20	-7,131.78	555.45	7,153.27	1.20	-1.08	-0.54
19,426.00	90.60	181.30	12,340.07	-7,223.76	553.68	7,244.88	0.49	-0.22	0.43
19,520.00	90.80	181.40	12,338.93	-7,317.73	551.47	7,338.44	0.24	0.21	0.11
19,613.00	91.30	181.80	12,337.22	-7,410.67	548.87	7,430.96	0.69	0.54	0.43
19,707.00	89.40	181.30	12,336.65	-7,504.63	546.33	7,524.49	2.09	-2.02	-0.53
19,799.00	91.10	180.40	12,336.25	-7,596.62	544.97	7,616.14	2.09	1.85	-0.98
19799'MD: Final MWD Survey									



Survey Report

Company:	EOG Resources	Local Co-ordinate Reference:	Well #701H
Project:	Lea County, NM (NAD 27 NME)	TVD Reference:	KB = 25 @ 3278.01ft (H&P 415)
Site:	Rattlesnake 21 Fed Com	MD Reference:	KB = 25 @ 3278.01ft (H&P 415)
Well:	#701H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.1 Single User Db

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
19,992.00	91.10	180.40	12,332.54	-7,789.58	543.62	7,808.50	0.00	0.00	0.00
19992'MD: Projection to Bit									

Design Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
12,849.00	12,365.04	-652.41	537.02	12849'MD: Final DrilTech MWD (Section 1)
12,966.00	12,363.64	-768.31	552.86	12966'MD: Begin Schlumberger Rotary Steerable
15,866.00	12,370.28	-3,667.29	542.72	15866'MD: Final Schlumberger Survey
15,966.00	12,371.42	-3,767.26	540.71	15966'MD: Begin DrilTech MWD Section 2
19,799.00	12,336.25	-7,596.62	544.97	19799'MD: Final MWD Survey
19,992.00	12,332.54	-7,789.58	543.62	19992'MD: Projection to Bit

Checked By: _____	Approved By: _____	Date: _____
-------------------	--------------------	-------------