Pool Name

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 Brazos 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

641.53

API Number

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

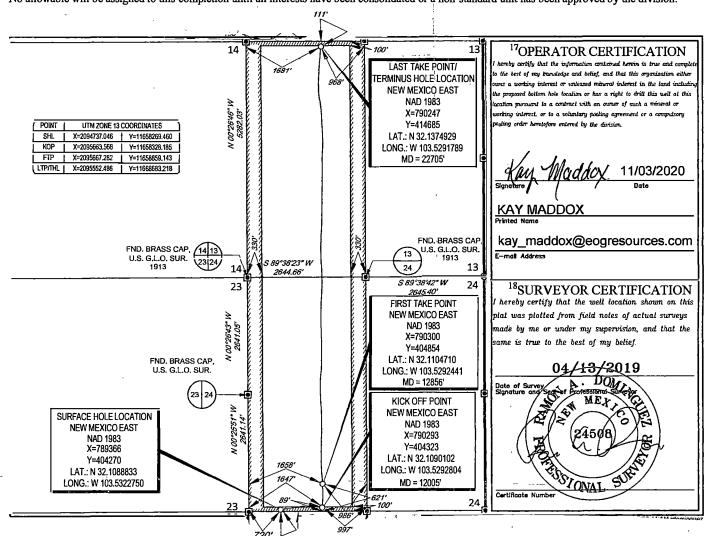
\_\_\_ AMENDED REPORT

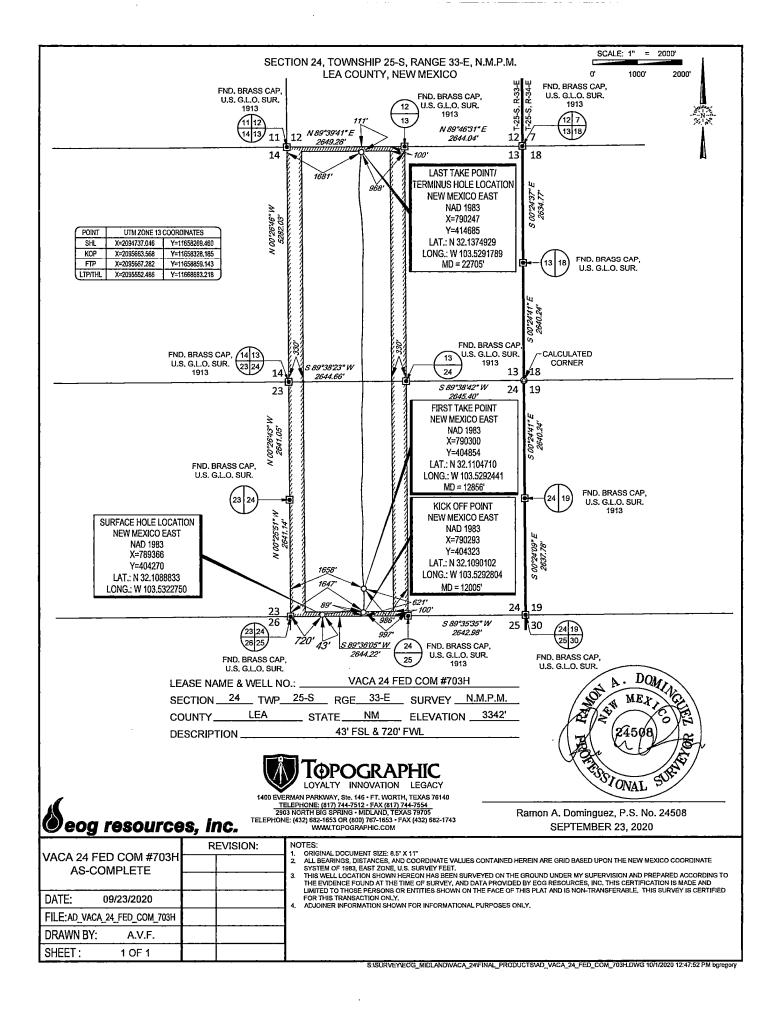
WELL LOCATION AND ACREAGE DEDICATION PLAT

30-0	25-4692	9	9809	34		RORCAT	DRAW; UPPE	ER WOLFCAMI	
*Property C	Code				<sup>5</sup> Property N	lame		6,	Well Number
39180				•	VACA 24 F	ED COM			703H
OGRID N	No.			F.0	Operator N				Elevation
7377				EU	G RESOUR	CES, INC.			3343'
				-	<sup>10</sup> Surface Lo	ocation			· · · ·
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	24	25-S	33-E	-	43'	SOUTH	720'	WEST	LEA
	l		11]	Bottom Ho	le Location If D	ifferent From Su	rface	SL	
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	Enst/West line	County
C	13	25-S	33-E	-	1111	NORTH	1681	WEST	LEA

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.

<sup>15</sup>Order No.





Inten	t	As Dril	led XX	Х				HC	BBS OCI	D- RE	CEIV	ED 11/0	04/20
API#	<u> </u>		]	<del>-</del>									
	025-469					1							
	rator Na					-	erty N						Well Number
EO	G RESC	DURCES	, INC			VAC	CA 24	FE	DERAL C	COM			703H
Viel (	Off Daint	(KOD)											
KICK C	Off Point	(KOP)											
UL	Section	Township	Range	Lot	Feet		From N		Feet		n E/W	County	
N Latitu	24	25S	33E		89		SOUT	Н	1647	WE	51	LEA NAD	
	uae 10901(	12			Longitu 103.		2804					1983	
JZ.	103010	) <u></u>			100.	JZ JZ	-004					1303	
First <sup>-</sup>	Take Poir	nt (FTP)											
UL	Section	Township	Range	Lot	Feet		From N	l/S	Feet	Fror	n E/W	County	
N	24	25S	33E		621		SOUT		1658	WE		LEA	
Latitu		1			Longitu				•			NAD	
32.	110471	10			103.	5292	2441					1983	
Last 1	Take Poin	t (LTP)	Range	Lot	Feet	Fron	n N/S	Feet	Fron	n E/W	Count	tv	
C	13	25S	33E		111		RTH	168			LEA	-,	
Latitu		1	ı		Longitu						NAD		
32.	137492	29			103.	5291	1789				198	3	
Is this	s well the	e defining v	vell for th	e Horiz	zontal S <sub>l</sub>	pacing	g Unit?	[	YES				
					7								
Is this	s well an	infill well?		NO									
	ll is yes p ng Unit.	lease prov	ide API if	availab	ole, Ope	rator I	Name a	and v	vell numbe	er for	Definii	ng well fo	r Horizontal
API#	<u>.</u>		7										
API#	•												
One	rator Na	me:	1			Pron	erty N	ame	<u>.</u>				Well Number
-		DURCES	INC				y 14	JC	-				
	C 1 (LOC		, 11 10										

KZ 06/29/2018



# **EOG Resources - Midland**

Lea County, NM (NAD 83 NME)

Vaca 24 Fed Com

#703H OH

Design: OH

## Final PVA

24 August, 2020



#### EOG Resources

#### Final PVA

KB = 32' @ 3375.0usft KB = 32' @ 3375.0usft Minimum Curvature Mean Sea Level EDM 5000.14 Well #703H Local Co-ordinate Reference: Survey Calculation Method: North Reference: System Datum: TVD Reference: MD Reference: Database: Lea County, NM (NAD 83 NME) Lea County, NM (NAD 83 NME) US State Plane 1983 North American Datum 1983 New Mexico Eastern Zone **EOG Resources - Midland** Vaca 24 Fed Com #703H 등 등 Map System: Geo Datum: Map Zone: Company: Wellbore: Project: Design: Project Site: Well:

32° 6' 31.982 N 103° 31' 56.186 W Grid Convergence: Longitude: Latitude: 404,270.00 usft 789,366.00 usft 13-3/16 " Slot Radius: Northing: Easting: Vaca 24 Fed Com 0.0 usft Мар Position Uncertainty: Site Position:

32° 6' 31.982 N 103° 31' 56.186 W 3,343.0 usft **Ground Level:** Longitude: Latitude: 404,270.00 usft 789,366.00 usft usft Wellhead Elevation: Northing: Easting: 0.0 usft 0.0 usft 0.0 usft #703H +E/-W S-/N+ Position Uncertainty Well Position Well

47,663.11978437 Field Strength (nT) 59.94 Dip Angle (°) 6.70 Declination € 7/8/2019 Sample Date IGRF2015 Model Name Б Magnetics Wellbore

Direction (°) 4.67 0.0 Tie On Depth: +E/-W (usft) 0.0 +N/-S (usft) 0.0 ACTUAL Depth From (TVD) Phase: (nsft) 0.0 Н 1.0 Vertical Section: Audit Notes: Version: Design

Survey Program	<b>Date</b> 8/24/2020		
From (usft)	To (usft) Survey (Wellbore)	Tool Name	Description
124.0	124.0 22,705.0 Total MWD #1 (OH)	EOG MWD+IFR1	MWD + IFR1



Company: Project: Site: Well: Wellbore: Design:	EOG Resources - Midland Lea County, NM (NAD 83 NME) Vaca 24 Fed Com #703H OH	Midland NAD 83 NME)				Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference: Survey Calculation Method: Database:	ate Reference: :: :e: tion Method:	Well #703H KB = 32' @ 3375.0usft KB = 32' @ 3375.0usft Grid Minimum Curvature EDM 5000.14	.Ousft .Ousft ire	
Survey										
MD	<u>n</u>	Azi (azimuth)	ΔΛΙ	N/S	E/W	DLeg	Build	Turn	High to Plan	Right to Plan
(nsft)	<b>()</b>	<b>(</b> )	(nsft)	(nsft)	(nsft)	(°/100usft)	(°/100usft)	(°/100usft)	(nsft)	(usft)
			0.0	0.0	0.0		0.00	0.00	0.0	0.0
12,			124.0	0.0	9.0		0.48	0.00	9.0-	0.0
300			309.0	-0.5	2.0		-0.11	28.70	-1.6	1.3
492	492.0 0.	0.50 170.80	492.0	-1.8	2.5	0.13	0.05	15.14	-2.2	2.2
676.0		0.60 237.00	676.0	-3.1	1.8	0.33	0.05	35.98	-0.2	3.6
867.0		1.00 243.80	867.0	4.4	-0.5	0.21	0.21	3.56	-2.4	3.7
1,056.0		0.90 263.90	1,055.9	-5.3	-3.5	0.18	-0.05	10.63	4.0	4.9
1,171.0		0.70 267.30	1,170.9	-5.4	-5.1	0.18	-0.17	2.96	-5.3	5.2
1,254.0		0.53 269.23	1,253.9	-5.5	-5.9	0.21	-0.20	2.33	-6.0	5.4
1,349.0		0.62 265.18	1,348.9	-5.5	6.9-	0.10	0.00	4.26	-7.3	4.9
1,444.0		0.57 253.58	1,443.9	-5.7	-7.9	0.14	-0.05	-12.21	-9.1	3.2
1,539.0		2.51 57.15	1,538.9	4.7	9.9-	3.22	2.04	172.18	8.3	-0.3
1,634.0		3.96 63.83	1,633.7	-2.1	-1.9	1.57	1.53	7.03	5.6	1.0-
1,729.0		5.58 67.25	1,728.4	1.1	5.3	1.73	1.71	3.60	3.5	1.3
1,824.0		7.77 77.71	1,822.8	4.2	15.6	2.26	1.89	11.01	2.1	2.2
1,919.0		10.73 77.01	1,916.6	7.5	30.1	3.53	3.53	-0.74	-0.7	3.2
2,014.0		12.09 75.87	2,009.7	11.9	48.4	1.45	1.43	-1.20	4 8.	4.6
2,109.0		12.31 73.58	2,102.6	17.2	8.79	0.56	0.23	-2.41	-7.5	9.9
2,204.0		12.40 84.48	2,195.4	21.0	87.6	2.45	0.09	11.47	-9.1	0.6
2,299.0		11.91 88.35	2,288.3	22.3	107.6	1.00	-0.52	4.07	-11.3	8.4
2,394.0		11.87 87.91	2,381.2	22.9	127.1	0.10	-0.04	-0.46	-13.7	6.5
2,489.0		11.74 88.17	2,474.2	23.6	146.6	0.15	-0.14	0.27	-16.0	4.7
2,584.0		11.91 87.56	2,567.2	24.3	166.0	0.22	0.18	-0.64	-18.3	2.8
2,679.0		9.93 79.73	2,660.5	26.2	183.9	2.60	-2.08	-8.24	-19.1	-0.4
2,774.0		10.24 78.68	2,754.0	29.3	200.2	0.38	0.33	-1.11	-18.5	0.1
2,869.0		10.55 79.91	2,847.4	32.5	217.1	0.40	0.33	1.29	-18.3	1.3
2,964.0		10.51 81.14	2,940.8	35.4	234.2	0.24	-0.04	1.29	-18.3	2.2



Company: Project: Site: Well: Wellbore: Design:	EOG Resources - Midland Lea County, NM (NAD 83 NME) Vaca 24 Fed Com #703H OH	didland AD 83 NME)				Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference: Survey Calculation Method: Database:	te Reference: ;; ion Method:	Well #703H KB = 32' @ 3375.0usft KB = 32' @ 3375.0usft Grid Minimum Curvature EDM 5000.14	.Ousft .Ousft .re	
Survey	<u> </u>		Ş	9	L	i	1			
MD (usft)	) (°)	Azi (azimuth) (°)	(nst)	N/S (usft)	(usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
3,059.0	10.02	98.88	3,034.3	38.0	250.9	0.52	-0.52	-0.27	-17.9	2.4
3,154.0	10.11	11 81.84	3,127.9	40.5	267.3	0.20	0.09	1.01	-17.2	2.9
3,249.0	10.29	81.67	3,221.4	42.9	284.0	0.19	0.19	-0.18	-16.7	2.9
3,344.0	10.59	59 81.84	3,314.8	45.4	301.0	0.32	0.32	0.18	-16.6	3.0
3,439.0	10.90	90 82.11	3,408.1	47.9	318.5	0.33	0.33	0.28	-17.0	3.1
3,534.0	34.0 10.86	36 81.67	3,501.4	50.4	336.3	0.10	-0.04	-0.46	-17.6	3.0
3,629.0	29.0 11.16	16 81.76	3,594.7	53.0	354.3	0.32	0.32	0.09	-18.4	3.1
3,724.0	24.0 9.58	58 81.84	3,688.1	55.4	371.2	1.66	-1.66	0.08	-18.2	3.2
3,819.0	19.0 9.58	58 82.37	3,781.8	57.6	386.8	60.0	0.00	0.56	-16.7	3.3
3,914.0	14.0 8.75	75 84.30	3,875.6	59.4	401.9	0.93	-0.87	2.03	-14.3	3.5
4,010.0	10.24	24 75.16	3,970.3	62.3	417.4	2.20	1.55	-9.52	-13.1	2.1
4,105.0	10.86	36 74.29	4,063.7	6.99	434.2	0.67	0.65	-0.92	-13.3	4.1
4,200.0	9.14	14 72.62	4,157.2	71.6	450.0	1.84	-1.81	-1.76	-12.8	6.3
4,295.0	35.0 10.37	37 79.91	4,250.8	75.3	465.6	1.83	1.29	7.67	-10.7	9.4
4,390.0	9.54	54 82.20	4,344.4	6.77	481.8	0.97	-0.87	2.41	-9.4	10.1
4,485.0	35.0 8.70	70 88.61	4,438.2	79.1	496.8	1.39	-0.88	6.75	9-9-	10.0
4,580.0	30.0 12.00	00 90.37	4,531.6	79.2	513.9	3.49	3.47	1.85	-5.6	7.8
4,675.0	75.0 12.31	31 82.02	4,624.5	9.08	533.8	1.88	0.33	-8.79	-9.3	5.5
4,770.0	70.0	17 88.44	4,717.5	82.2	553.2	1.65	-0.88	92.9	-11.0	5.7
4,865.0	35.0 11.87	37 97.93	4,810.5	81.1	572.4	2.06	0.42	66.6	-12.4	4.2
4,96	4,960.0 10.73	73 87.21	4,903.7	80.2	6.069	2.51	-1.20	-11.28	-14.2	-1.5
5,0€	5,055.0 8.70	70 71.21	4,997.3	83.0	606.5	3.54	-2.14	-16.84	-11.9	4.5
5,15	5,150.0 7.56	56 66.81	5,091.4	87.8	619.1	1.37	-1.20	4.63	-8.2	4.1-
5,24	5,245.0 9.80	30 68.48	5,185.3	93.2	632.3	2.37	2.36	1.76	-5.7	3.0
5,340.0	11.52	52 76.83	5,278.7	88.3	649.1	2.43	1.81	8.79	-5.4	9.9
5,435.0	35.0 12.04	77.36	5,371.7	102.6	0.899	0.56	0.55	0.56	-7.5	8.1
5,55	5,530.0 13.10	10 75.69	5,464.4	107.5	688.1	1.18	1.12	-1.76	-12.0	9.9



Company: Project:	EOG Resources - Midland Lea County, NM (NAD 83 NME)	Aidland AD 83 NME)				Local Co-ordinate Reference: TVD Reference:	ite Reference:	Well #703H KB = 32' @ 3375.0usft	.ousft	
Site: Well: Wellbore: Design:	Vaca 24 Fed Com #703H OH OH					MD Reference: North Reference: Survey Calculation Method: Database:	e: ion Method:	KB = 32' @ 3375.0usft Grid Minimum Curvature EDM 5000.14	.ousft .rre	
Survey										
MD (usft)	Inc (3)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (º/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
5,625.0	5.0 13.89	89 86.15	5,556.8	110.9	6.602	2.70	0.83	11.01	-17.6	15.1
5,720.0	0.0	21 99.77	5,649.5	110.1	730.4	4.18	-2.82	14.34	-20.9	20.9
5,815.0	5.0 10.33	33 99.86	5,742.8	107.1	747.9	0.93	-0.93	0.09	-25.5	20.4
5,910.0	0.0	98.98	5,836.3	104.2	764.9	0.32	0.27	-0.93	-29.9	19.5
6,005.0	5.0 9.49		5,929.8	100.5	781.0	1.92	-1.16	8.79	-30.2	22.6
6,100.0	0.0	109.71	6,023.6	2.56	795.4	0.68	-0.55	2.51	-31.6	21.3
6,195.0	5.0 7.60	60 98.02	6,117.6	92.3	808.6	2.28	-1.44	-12.31	-35.6	12.9
6,290.0	0.0 7.25	25 97.05	6,211.8	2.06	820.8	0.39	-0.37	-1.02	-34.8	12.2
6,385.0	5.0 7.12	12 95.82	6,306.1	89.4	832.6	0.21	-0.14	-1.29	-33.7	11.7
6,480.0	0.0	90 95.47	6,400.3	88.3	844.2	0.24	-0.23	-0.37	-32.2	11.9
6,575.0	5.0 6.81	81 95.12	6,494.7	87.2	855.4	0.10	-0.09	-0.37	-30.4	12.2
6,670.0	0.0	73 95.47	6,589.0	86.2	9.998	0.09	-0.08	0.37	-28.3	12.9
6,765.0	5.0 7.12	12 95.64	6,683.3	85.1	878.0	0.41	0.41	0.18	-26.4	13.4
0.098,9	0.0 7.03	03 94.94	6,777.6	84.0	9.688	0.13	-0.09	-0.74	-25.1	13.6
6,955.0	5.0 7.38	38 95.47	6,871.8	82.9	901.5	0.38	0.37	0.56	-23.7	14.3
7,050.0	0.0	67 90.02	6,966.2	82.3	912.3	1.91	-1.80	-5.74	-22.5	13.1
7,145.0	5.0 5.71	71 85.89	7,060.7	82.7	921.7	0.43	0.04	4.35	-19.8	13.8
7,240.0	0.0 4.53	53 85.45	7,155.4	83.3	930.1	1.24	-1.24	-0.46	-17.2	16.0
7,335.0		46 84.74	7,250.2	83.8	935.9	2.18	-2.18	-0.75	-15.0	17.5
7,430.0	0.0	05 124.30	7,345.1	83.5	938.7	1.87	-1.48	41.64	1.9	22.0
7,525.0	5.0 1.01	01 142.75	7,440.1	82.3	939.9	0.35	-0.04	19.42	8.6	19.0
7,620.0	0.0	148.64	7,535.1	81.1	940.7	0.29	-0.27	6.20	9.0	18.1
7,715.0	5.0 0.70	70 155.23	7,630.1	80.1	941.3	0.10	-0.05	6.94	6.6	17.0
7,810.0	0.0 0.70	167.89	7,725.1	79.0	941.6	0.16	0.00	13.33	12.2	14.5
7,905.0	5.0 0.40	40 157.08	7,820.1	78.1	941.9	0.33	-0.32	-11.38	8.4	16.4
8,000.0	0.0	75 151.89	7,915.1	77.2	942.3	0.37	0.37	-5.46	5.9	17.1
8,095.0	5.0 0.92	92 148.46	8,010.1	76.0	943.0	0.19	0.18	-3.61	3.5	17.4



High to Plan (usft)  1.12 (usft)  1.24 (usft)  1.24 (usft)  1.25 (usft)  1.26 (usft)  1.39 (usft)  1.48 (usft)  1.48 (usft)  1.48 (usft)  1.48 (usft)  1.48 (usft)  1.56 (usft)  1.6 (usft)  1.7 (usft)  1.9 (usft)  1.9 (usft)  1.10 (usft)  1.10 (usft)  1.24 (usft)  1.25 (usft)  1.26 (usft)  1.27 (usft)  1.28 (usft)  1.29 (usft)  1.20 (usft)  1.21 (usft)  1.22 (usft)  1.23 (usft)  1.24 (usft)  1.25 (usft)  1.26 (usft)  1.27 (usft)  1.28 (usft)  1.29 (usft)  1.20 (usft)  1.21 (usft)  1.22 (usft)  1.23 (usft)  1.24 (usft)  1.25 (usft)  1.26 (usft)  1.27 (usft)  1.28 (usft)  1.28 (usft)  1.29 (usft)  1.20 (usft)  1.21 (usft)  1.22 (usft)  1.23 (usft)  1.24 (usft)  1.25 (usft)  1.26 (usft)  1.27 (usft)  1.28 (usft)  1.28 (usft)  1.28 (usft)  1.29 (usft)  1.20 (usft)  1.21 (usft)  1.22 (usft)  1.23 (usft)  1.24 (usft)  1.25 (usft)  1.26 (usft)  1.27 (usft)  1.28 (usft)  1.28 (usft)  1.29 (usft)  1.20 (usft)  1.21 (usft)  1.22 (usft)  1.23 (usft)  1.24 (usft)  1.25 (usft)  1.26 (usft)  1.27 (usft)  1.28 (usft)  1.28 (usft)  1.29 (usft)  1.20 (usft)  1.20 (usft)  1.21 (usft)  1.22 (usft)  1.23 (usft)  1.24 (usft)  1.25 (usft)  1.26 (usft)  1.27 (usft)  1.28 (usft)  1.28 (usft)  1.29 (usft)  1.20 (usft)  1.21 (usft)  1.22 (usft)  1.23 (usft)  1.24 (usft)  1.25 (usft)  1.26 (usft)  1.27 (usft)  1.28 (usft)  1.29 (usft)  1.20 (usft)  1.20 (usft)  1.21 (usft)  1.22 (usft)  1.23 (usft)  1.24 (usft)  1.25 (usft)  1.25 (usft)  1.26 (usft)  1.27 (usft)  1.28 (usft)  1.29 (usft)  1.20 (usft)  1.21 (usft)  1.22 (usft)  1.23 (usft)  1.24 (usft)  1.25 (usft)  1.25 (usft)  1.26 (usft)  1.27 (usft)  1.28 (usft)  1.28 (usft)  1.29 (usft)  1.20 (usft)  1.21 (usft)  1.22 (usft)  1.23 (usft)  1.24 (usft)  1.25 (usft)  1.25 (usft)  1.26 (usft)  1.27 (usft)  1			100					-		11002# 11-781		
MD         Inc         Act   column41         VAD         NAS         EVM         Choose 10         CT/100 striply         Turn         Turn         High to Plant           81/900         OLZ         TT         LISA 1         (stripl)         (virial)         (virial stripl)         (virial s	Company: Project: Site: Well: Wellbore: Design:	Lea County, NM Vaca 24 Fed Co. #703H OH	r (NAD 83 t	NME)				TVD Reference: MD Reference: North Reference Survey Calculat Database:	are Kererence: 3: ion Method:	Well #703T KB = 32' @ 3375 KB = 32' @ 3375 Grid Minimum Curvat. EDM 5000.14	.Ousft .Ousft .re	
1 professor         4 professor	Survey											
(4)         (4)         (40)         (40)         (40)         (7)<	MD	lnc	¥	zi (azimuth)	TVD	N/S	E/W	DLeg	Build	Turn	High to Plan	Right to Plan
0.62         17344         8,1051         750         943.8         0.38         -1581         -1581           0.62         17881         8,2061         72         944.2         0.08         0.08         -1581           0.62         18488         8,296.1         72.1         944.2         0.08         0.06         6.39           0.73         171.67         8,485.0         70.9         944.6         0.09         0.04         13.79           1.04         171.67         8,485.0         67.5         944.7         0.08         0.04         13.79           1.02         182.76         8,770.0         67.1         944.7         0.08         0.04         13.79           2.15         182.76         8,770.0         67.1         944.7         0.08         0.04         13.79           2.16         182.70         8,770.0         67.1         944.7         0.08         0.33         10.08           2.18         2.26.1         8,770.0         67.1         942.5         0.44         0.39         0.04         0.04         0.07         0.08         1.00         0.04         0.09         0.04         0.09         0.04         0.09         0.09	(nstt)			(.)	(nstt)					(°/100usft)	(nsft)	(nsft)
0.57         178 61         8.200.1         74.2         944.2         0.04         47.55           0.52         148.8         8.200.1         72.2         944.1         0.08         0.05         47.55           0.75         158.57         8.305.1         72.1         944.7         0.08         0.04         22.48           0.79         171.67         8.485.0         70.9         944.6         0.09         0.04         13.79           1.01         183.7         8.675.0         69.4         944.7         0.30         0.04         13.79           1.02         182.7         8.675.0         69.4         944.7         0.30         0.04         13.79           1.02         182.7         8.675.0         67.5         944.7         0.30         0.23         12.78           1.22         182.7         8.675.0         67.7         942.5         0.24         1.30         1.30           1.89         272.9         9.048.8         70.0         922.2         0.24         0.04         1.30         1.30         1.30         1.30         1.30         1.30         1.30         1.30         1.30         1.30         1.30         1.30         1.30	8,190	0.0	0.62	133.44	8,105.1	75.0	943.8	0.38	-0.32	-15.81	-2.4	17.5
062         144 68         8.256.1         73.2         944.1         0.06         0.05         0.04         6.39           0.75         158.57         4.856.0         72.1         94.3         0.04         0.74         0.748           1.07         185.7         8.485.0         70.9         94.4         0.09         0.23         127.2           1.02         18.26         8.76.0         67.5         94.4         0.39         0.23         127.2           1.12         1.27.6         8.67.0         67.7         94.4         0.39         0.23         127.2           2.15         2.66.80         8.67.0         67.7         94.4         0.39         0.39         10.06           2.16         2.66.80         8.64.9         70.0         92.2         0.49         0.4	8,285	5.0	0.57	178.61	8,200.1	74.2	944.2	0.48	-0.05	47.55	6.6	14.4
0.75         158.67         8,390.1         72.1         944.5         0.35         0.14         27.48           0.79         171.67         8,486.0         70.9         944.6         0.19         0.04         13.79           1.01         1831.8         8,580.0         69.4         94.7         0.39         10.24         13.79           1.12         1821.6         8,580.0         69.4         94.4         0.39         10.30         10.20           2.15         280.6         8,696.0         67.1         942.5         281         0.04         10.30           2.59         280.6         8,804.9         68.3         69.4         0.04         0.04         10.00           1.89         280.7         8,700.0         67.1         96.2         0.74         0.04         4.07           1.89         280.8         9,648         70.0         96.2         0.74         0.04         4.07         0.06           1.89         316.4         70.4         70.7         92.2         0.74         0.07         1.05         1.05         1.05         1.05         1.05         1.05         1.05         1.05         1.05         1.05         1.05	8,380	0.0	0.62	184.68	8,295.1	73.2	944.1	0.08	0.05	6:39	10.4	13.3
079         17167         84860         709         9446         019         019         1379           101         18318         85800         694         9447         030         023         12.12           132         1826         86750         675         9444         039         023         12.12           239         2967         86750         677         942         038         038         1008         1008           189         8649         683         938         034         049         049         049         049         070	8,475	5.0	0.75	158.57	8,390.1	72.1	944.3	0.35	0.14	-27.48	2.3	16.3
101         18318         6880         694         944         030         023         1212           132         1927         8675         675         944         0.38         0.33         10.08           135         2967         8675         67.1         944         0.38         0.33         10.08           259         2868         8649         67.1         942         0.38         0.39         10.09           189         287.3         8648         69.4         95.2         0.49         <	8,570	0.0	0.79	171.67	8,485.0	70.9	944.6	0.19	0.04	13.79	4.7	15.5
1,32         192,76         8,675.0         67.5         944.4         0,38         0,33         10.08           2,15         2,906.7         8,700.0         67.1         942.5         281         0,87         103.06           2,59         2,806.0         8,864.9         68.3         928.6         0,49         0,49         103.0           1,89         2,824.0         8,864.9         69.4         96.2         0,74         0,74         4.07           1,89         2,243.0         9,048.0         70.0         96.0         0,65         0,09         1,57.3           2,89         318.45         9,244.7         70.7         96.0         0,65         0,09         1,57.4           2,89         318.45         9,435.6         73.8         96.2         0,67         0,67         1,57.4           1,70         315.28         9,530.6         76.3         96.2         0,67         0,67         1,57.4         1,57.4         1,57.4         1,57.4         1,57.4         1,57.4         1,57.4         1,57.4         1,57.4         1,57.4         1,57.4         1,57.4         1,57.4         1,57.4         1,57.4         1,57.4         1,57.4         1,57.4         1,57.4	8,665	5.0	1.01	183.18	8,580.0	69.4	944.7	0.30	0.23	12.12	6.2	14.4
215         290 67         8,770.0         67.1         942.5         281         0.87         103.06           259         286 80         884.9         68.3         98.8         0.49         0.46         4.07           1.89         286.80         8.84.9         68.4         98.5         0.74         0.56         4.07           1.89         272.30         9.04.8         70         92.2         0.74         0.56         1.57.3           1.80         272.30         9.04.8         70         92.0         0.75         0.06         1.57.3           2.54         315.80         9.04.4         70         92.0         0.64         0.75         0.15.7           2.54         315.80         9.44.7         70         92.0         0.64         0.73         0.15.7           2.54         315.80         9.43.5         76.3         92.1         0.05         0.75         0.95           2.54         315.80         9.50.5         77.6         91.2         0.78         0.75         0.77           2.54         2.54         7.75         9.60.5         7.75         9.75         0.75         0.75         0.75           2.54	8,760	0.0	1.32	192.76	8,675.0	67.5	944.4	0.38	0.33	10.08	9.9	13.3
256         266.60         88449         68.3         98.8         0.49         0.40         4.07         4.07           1.89         287.33         8.959.8         69.4         935.2         0.74         -0.74         0.06           1.89         272.39         9.04.8         7.0         922.0         0.65         0.09         -15.73           1.98         254.29         9.148.7         7.0         922.0         0.65         0.09         -15.73           2.59         318.45         9.244.7         7.0         928.0         0.65         0.09         -15.73           2.44         31.56         9.244.7         7.0         92.0         0.61         0.64         0.75         -15.6           1.54         31.56         9.435.5         7.5         7.2         0.00         -0.3         -6.9	8,855	5.0	2.15	290.67	8,770.0	67.1	942.5	2.81	0.87	103.06	10.6	-7.3
1,89         287,33         8,958,8         894         936,2         0,74         0,74         0,56           1,89         272,39         9,054,8         700         932,2         0,65         0,09         -15,73           1,98         254,29         9,149,7         69.6         929,0         0,65         0,09         -19,05           2,54         314,45         9,244,7         70         926,0         0,61         0,69         -19,05           2,24         314,45         9,243,5         76         924,3         0,64         0,73         0,69           1,15         315,28         9,435,5         76         91,3         0,64         0,73         0,69           1,15         1,16         9,63,5         7,1         10,1         0,73         0,73         0,73         0,73           1,17         166,27         9,14,4         7,1         916,1         0,68         0,73	8,950	0.0	2.59	286.80	8,864.9	68.3	938.8	0.49	0.46	4.07	7.1	-6.7
1,89         252,239         9,054.8         70.0         992.2         0.65         0.09         -157.3           1,98         254.29         9,149.7         69.6         929.0         0.65         0.09         -190.6           2,59         318.45         9,244.7         70.7         926.0         2.61         0.04         67.54           2,24         318.45         9,244.7         70.7         926.0         2.61         0.04         67.54           1,67         315.28         9,435.5         76.3         923.4         0.04         -0.37         3.69           1,73         289.53         9,530.5         77.6         913.3         0.78         -0.38         -0.99           1,74         188.72         9,744.4         77.1         916.1         0.76         -0.75         -0.38         -0.77           0,75         137.1         166.9         9,74         7.1         916.1         0.06         0.07         0.09         -0.71         -0.93           1,74         166.2         9,814.4         7.1         916.1         0.76         0.76         0.76         0.77         0.71         0.71         0.71         0.71         0.71         0.71	9,045	5.0	1.89	287.33	8,959.8	69.4	935.2	0.74	-0.74	0.56	3.4	7.9-
138         254.29         9,149.7         69.6         929.0         0.65         0.09         -19.05           259         318.45         9,244.7         70.7         926.0         261         0.64         67.54         -19.05           224         318.45         9,336.6         73.8         923.4         0.64         67.54         369           1.67         315.28         9,435.5         76.3         72.3         6.96 </td <td>9,140</td> <td>0.0</td> <td>1.89</td> <td>272.39</td> <td>9,054.8</td> <td>70.0</td> <td>932.2</td> <td>0.52</td> <td>0.00</td> <td>-15.73</td> <td>1.9</td> <td>-6.0</td>	9,140	0.0	1.89	272.39	9,054.8	70.0	932.2	0.52	0.00	-15.73	1.9	-6.0
259         318.45         9.2447         70.7         926.0         2.61         0.64         67.54           224         321.96         9.339.6         73.8         923.4         0.40         -0.37         3.69         -1.7           1.67         315.28         9.435.5         76.3         921.3         0.64         -0.59         -6.96         -1.7           1.36         226.5         77.6         919.3         0.78         -0.33         -27.11         -1.7           1.71         188.72         9.719.4         73.9         916.0         1.02         0.76         -77.70         -29.23           1.71         166.92         9.814.4         71.1         916.1         0.68         0.09         -22.59         -22.53	9,235	5.0	1.98	254.29	9,149.7	9.69	929.0	0.65	0.00	-19.05	9.0	-5.6
2.24         321.96         9,339.6         738         923.4         0.40         -0.37         3.69         -1.7           1.67         315.28         9,435.5         76.3         921.3         0.64         -0.59         -6.96         -1.3           1.36         289.53         9,50.5         77.6         919.3         0.78         -0.33         -27.11         -1.1           2.07         216.49         9,624.5         76.6         917.2         0.26         0.76         -77.70         -17.70	9,330	0.0	2.59	318.45	9,244.7	70.7	926.0	2.61	0.64	67.54	7.7-	-1.5
1.67         315.28         943.5.5         76.3         921.3         0.64         -0.59         -6.96         -6.96           1.36         289.53         9,530.5         77.6         919.3         0.78         -6.38         -6.96           2.07         216.49         9,530.5         77.6         917.2         0.78         0.77         -77.70           1.71         188.72         9,719.4         73.9         916.0         1.02         0.38         -22.53           1.71         166.92         9,719.4         77.1         916.1         0.68         0.08         -22.95           0.75         137.13         9,909.3         69.3         916.8         1.18         -1.01         -31.36           0.62         60.31         10,004.3         69.0         917.7         0.90         -0.14         -80.86           1.01         151.63         10,099.3         68.6         918.5         1.26         0.41         96.13           0.75         165.34         10,194.3         66.3         919.7         0.36         -0.27         144.3           0.75         128.0         10,20         1.26         1.06         1.06         1.06         1.06	9,425	5.0	2.24	321.96	9,339.6	73.8	923.4	0.40	-0.37	3.69	-11.8	6.0-
1.36         289.53         77.6         919.3         0.78         -0.33         -27.11           2.07         216.49         9,524.5         76.6         917.2         2.25         0.76         -77.70           1.71         188.72         9,719.4         73.9         916.0         1.02         -0.38         -29.23           1.71         188.72         9,814.4         71.1         916.1         0.68         -0.38         -22.95         1           0.75         137.13         9,909.3         69.3         916.8         1.18         -1.01         -31.36         1           0.62         60.31         10,009.3         68.6         917.7         0.90         -0.14         -80.86         1           1.01         151.63         10,099.3         68.6         918.5         1.26         0.41         96.13         144.3           0.75         165.34         10,194.3         67.2         919.1         0.56         -0.27         144.3           0.70         128.0         10,288.3         65.3         922.0         1.70         -0.66         -2.23           2.73         95.82         10.70         0.50         -2.31         -7.31	9,521	0.1	1.67	315.28	9,435.5	76.3	921.3	0.64	-0.59	96.9-	-14.8	-2.5
2.07         216.49         9,624.5         76.6         917.2         2.25         0.76         -77.70           1.71         188.72         9,719.4         73.9         916.0         1.02         -0.38         -29.23           1.71         166.92         9,814.4         71.1         916.1         0.68         -22.95         17.2           0.75         137.13         9,909.3         69.3         916.8         1.18         -1.01         -31.36         17.3           0.62         60.31         10,009.3         68.6         918.7         0.90         -0.14         -80.86         17.3           0.75         165.34         10,194.3         67.2         919.1         0.35         -0.27         14.43           0.70         128.07         10,288.3         66.3         919.7         0.50         -0.27         14.43           2.24         102.76         10,384.3         65.5         922.0         1.70         -0.65         -26.36           2.73         95.82         10,479.2         64.5         928.6         2.49         -2.48         1.562	9,616	3.0	1.36	289.53	9,530.5	9'.77	919.3	0.78	-0.33	-27.11	-14.7	6.9-
1.71         188.72         9,719.4         73.9         916.0         1.02         -0.38         -29.23           1.71         166.92         9,814.4         71.1         916.1         0.68         0.00         -22.95         1           0.75         137.13         9,909.3         69.3         916.8         1.18         -1.01         -31.36         1           0.62         60.31         10,004.3         69.0         917.7         0.90         -0.14         -80.86           1.01         151.63         10,009.3         68.6         918.5         1.26         0.41         96.13           0.75         165.34         10,194.3         67.2         919.7         0.35         -0.27         14.43           0.70         128.07         10,288.3         66.3         919.7         0.50         -0.05         -39.65           2.24         102.76         10,384.3         66.3         922.0         1.70         1.60         -26.36           2.73         95.82         10.479.2         64.5         928.6         2.49         -7.31           0.40         110.50         10,573.2         64.5         928.6         2.49         -2.48         15.62	9,710	0.0	2.07	216.49	9,624.5	9.92	917.2	2.25	0.76	-77.70	2.6	-17.8
1.71         166.92         9,814.4         71.1         916.1         0.68         0.00         -22.95           0.75         137.13         9,909.3         69.0         916.8         1.18         -1.01         -31.36         1           0.62         60.31         10,004.3         69.0         917.7         0.90         -0.14         -80.86         91.3           1.01         151.63         10,099.3         68.6         918.5         1.26         0.41         96.13           0.75         165.34         10,194.3         67.2         919.1         0.35         -0.27         14.43           0.70         128.07         10,288.3         66.3         92.0         1.70         -0.05         -39.65           2.24         105.76         10,479.2         64.9         926.1         0.60         -2.48         -7.31           0.40         110.50         10,573.2         64.5         928.6         2.49         -2.48         15.62	9,80£	5.0	1.71	188.72	9,719.4	73.9	916.0	1.02	-0.38	-29.23	7.6	-15.4
0.75         137.13         9,909.3         69.3         916.8         1.18         -1.01         -31.36           0.62         60.31         10,004.3         69.0         917.7         0.90         -0.14         -80.86           1.01         151.63         10,099.3         68.6         918.5         1.26         0.41         96.13           0.75         165.34         10,194.3         67.2         919.1         0.35         -0.27         144.3           0.70         128.07         10,288.3         66.3         919.7         0.50         -0.05         -39.65           2.24         102.76         10,384.3         65.5         92.0         1.70         1.60         -26.36           2.73         95.82         10,479.2         64.5         928.1         0.60         0.52         -7.31           0.40         110.50         10,573.2         64.5         928.6         2.49         -2.48         15.62	06'6	0.0	1.71	166.92	9,814.4	71.1	916.1	0.68	0.00	-22.95	10.1	-12.0
0.62         60.31         10,004.3         69.0         917.7         0.90         -0.14         -80.86           1.01         151.63         10,099.3         68.6         918.5         1.26         0.41         96.13           0.75         165.34         10,194.3         67.2         919.1         0.35         -0.27         14.43           0.70         128.07         10,288.3         66.3         919.7         0.50         -0.05         -39.65           2.24         102.76         10,384.3         65.5         926.1         0.60         1.60         -26.36           2.73         96.82         10,479.2         64.5         928.1         0.60         2.49         -2.48         15.62	966'6	5.0	0.75	137.13	6,909.3	69.3	916.8	1.18	-1.01	-31.36	12.8	-6.1
1.01         151.63         10,099.3         68.6         918.5         1.26         0.41         96.13           0.75         165.34         10,194.3         67.2         919.1         0.35         -0.27         14.43           0.70         128.07         10,288.3         66.3         919.7         0.50         -0.05         -39.65           2.24         102.76         10,384.3         65.5         926.1         1.70         1.60         -26.36           2.73         95.82         10,479.2         64.5         926.1         0.60         0.52         -7.31           0.40         110.50         10,573.2         64.5         928.6         2.49         -2.48         15.62	10,090	0.0	0.62	60.31	10,004.3	0.69	917.7	06.0	-0.14	-80.86	8.2	10.5
0.75         165.34         10,194.3         67.2         919.1         0.35         -0.27         14.43           0.70         128.07         10,288.3         66.3         919.7         0.50         -0.05         +39.65           2.24         102.76         10,384.3         65.5         926.1         1.70         1.60         -26.36           2.73         95.82         10,479.2         64.5         926.1         0.60         0.52         -7.31           0.40         110.50         10,573.2         64.5         928.6         2.49         -2.48         15.62	10,185	5.0	1.01	151.63	10,099.3	9.89	918.5	1.26	0.41	96.13	9.5	-7.9
0.70         128.07         10,288.3         66.3         919.7         0.50         -0.05         -39.65           2.24         102.76         10,384.3         65.5         922.0         1.70         1.60         -26.36           2.73         95.82         10,479.2         64.9         926.1         0.60         0.52         -7.31           0.40         110.50         10,573.2         64.5         928.6         2.49         -2.48         15.62	10,280	0.0	0.75	165.34	10,194.3	67.2	919.1	0.35	-0.27	14.43	5.9	7.6-
2.24         102.76         10,384.3         65.5         922.0         1.70         1.60         -26.36           2.73         95.82         10,479.2         64.9         926.1         0.60         0.52         -7.31           0.40         110.50         10,573.2         64.5         928.6         2.49         -2.48         15.62	10,374	4.0	0.70	128.07	10,288.3	66.3	919.7	0.50	-0.05	-39.65	9.5	4.6
2.73     95.82     10,479.2     64.9     926.1     0.60     0.52     -7.31       0.40     110.50     10,573.2     64.5     928.6     2.49     -2.48     15.62	10,470	0.0	2.24	102.76	10,384.3	65.5	922.0	1.70	1.60	-26.36	8.1	-0.3
0.40 110.50 10,573.2 64.5 928.6 2.49 -2.48 15.62	10,565	5.0	2.73	95.82	10,479.2	64.9	926.1	09.0	0.52	-7.31	4.0	0.5
	10,659	9.0	0.40	110.50	10,573.2	64.5	928.6	2.49	-2.48	15.62	1.5	0.0



		Tallana di						11005# 11-141		
Company: Project: Site: Well: Wellbore: Design:	EUG Resources - Midland Lea County, NM (NAD 83 NME) Yaca 24 Fed Com #703H OH	AD 83 NME)				Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference: Survey Calculation Method: Database:	are Kererence: 3: ion Method:	well #7.03rd KB = 32' @ 3375.0usft KB = 32' @ 3375.0usft Grid Minimum Curvature EDM 5000.14	.Ousft .Ousft re	
Survey										
MD	luc	Azi (azimuth)	QX :	S/N	E/W	DLeg	Build	Turn	High to Plan	Right to Plan
(usft)	E	E	(usft)	(nstt)	(usft)	(*/100usft)	(°/100usft)	(°/100usft)	(usft)	(usft)
10,734.0			10,668.1	63.9	928.4	1.12	0.40	118.97	Z. r-	L.L-
10,849.0	0.70	70 204.54	10,763.1	62.9	927.7	0.30	-0.15	-19.98	-2.0	-1.6
10,944.0	.0 1.14	197.16	10,858.1	61.4	927.2	0.48	0.46	77.7-	-3.3	-1.9
11,039.0	.0 0.84	322.66	10,953.1	61.1	926.5	1.86	-0.32	132.11	0.2	4.6
11,134.0	.0 1.49	19 357.21	11,048.1	62.9	926.0	0.98	0.68	36.37	6.0	4.1
11,229.0	0.70	135.90	11,143.1	63.7	926.3	2.18	-0.83	145.99	2.3	-2.8
11,324.0	.0 1.36	36 159.29	11,238.1	62.2	927.1	0.81	69.0	24.62	-0.7	-3.3
11,419.0	.0 2.68	132.47	11,333.0	265	929.2	1.67	1.39	-28.23	-2.3	-3.8
11,514.0	.0 0.26	139.76	11,428.0	58.0	931.0	2.55	-2.55	7.67	-5.2	-3.1
11,609.0	0.40	40 273.71	11,523.0	57.9	930.8	0.64	0.15	141.00	1.2	6.1
11,704.0	.0 0.97	97 204.71	11,618.0	57.2	930.1	0.95	09:0	-72.63	-6.2	3.0
11,799.0	1.63	53 222.47	11,712.9	55.4	928.8	0.81	0.69	18.69	-7.1	4.9
11,924.0	.0 0.97	97 200.50	11,837.9	53.1	927.3	0.65	-0.53	-17.58	-11.1	1.3
12,019.0	0.88	343.58	11,932.9	53.1	926.8	1.85	-0.09	150.61	9.6	6.2
12,025.2	1.53	53 353.12	11,939.1	53.2	926.8	10.88	10.43	153.26	10.3	4.5
KOP (Vac	KOP (Vaca 24 Fed Com #703H)									
12,114.0	.0 11.16	3.88	12,027.3	63.0	927.2	10.88	10.85	12.12	8.1	2.2
12,116.2	.2 11.35	35 3.91	12,029.4	63.4	927.2	8.52	8.51	1.56	8.0	2.2
HL Crossi	ing, MD:12116.2', TVI	HL Crossing, MD:12116.2', TVD:12029.4', N/S:63.4', E/W:927.2', INC:11.35	N:927.2', INC:11.35							
12,209.0	.0 19.25	25 4.76	12,118.9	87.8	929.1	8.52	8.52	0.91	5.3	0.2
12,304.0	.0 28.70	3.97	12,205.6	126.2	932.0	9.95	9.92	-0.83	3.4	-2.7
12,399.0	.0 39.47	17 5.55	12,284.1	179.2	936.5	11.37	11.34	1.66	0.4	-7.5
12,468.6	.6 50.84	3.98	12,333.1	228.3	940.6	16.41	16.33	-2.26	-5.0	-11.6
FTP (Vaca	FTP (Vaca 24 Fed Com #703H)									
12,494.0	.0 54.99	3.53	12,348.4	248.5	941.9	16.41	16.35	-1.76	-8.3	-13.0
12,589.0	.0 67.78	359.93	12,393.9	331.7	944.2	13.86	13.46	-3.79	-24.2	-16.4
12,684.0	.0 69.05	357.12	12,428.8	420.0	941.9	3.06	48.1	-2.96	-36.0	-15.3



Company: Project: Site: Well:	EOG Resources - Midland Lea County, NM (NAD 83 NME) Vaca 24 Fed Com #703H	land 83 NME)				Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference: Survey Calculation Method:	te Reference: :: in Method:	Well #703H KB = 32' @ 3375.0usft KB = 32' @ 3375.0usft Grid Minimum Curvature	.ousft .ousft .ousft	
Design:	НО					Database:		EDM 5000.14		
Survey										
MD (nsft)	lnc (°)	Azi (azimuth)	TVD (nsft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
12,779.0		357.73	12,460.0	9.605	937.9	3.81	3.76	0.64	-35.5	-11.7
12,874.0	75.56	356.50	12,486.0	8.009	933.3	3.34	3.09	-1.29	-23.7	7.7-
12,969.0	9.0 81.89	355.71	12,504.6	693.7	927.0	6.71	99.9	-0.83	-5.8	-1.9
13,063.0	89.06	354.83	12,510.7	787.1	919.3	9.40	9.35	-0.94	4.1	5.2
13,158.0	90.59	357.12	12,509.6	881.9	912.6	2.41	-0.09	2.41	1.4	11.1
13,253.0	5.0 90.07	355.97	12,509.1	976.7	6.906	1.33	-0.55	-1.21	1.9	16.1
13,348.0	3.0 92.26	0.19	12,507.2	1,071.6	903.7	2.00	2.31	4.44	1.0	18.5
13,443.0	93.32	0.02	12,502.5	1,166.5	903.9	1.13	1.12	-0.18	-2.6	17.6
13,538.0	3.0 92.40	359.23	12,497.8	1,261.4	903.2	1.28	-0.97	-0.83	-6.3	17.5
13,633.0	3.0 89.27	359.84	12,496.4	1,356.4	902.5	3.36	-3.29	0.64	9.9-	17.6
13,728.0	90.59	1.16	12,496.5	1,451.3	903.3	1.96	1.39	1.39	-5.5	16.0
13,823.0	3.0 87.34	1.16	12,498.2	1,546.3	905.2	3.42	-3.42	0.00	-2.7	13.3
13,907.8	7.8 88.87	1.47	12,501.0	1,631.0	907.2	1.84	1.80	0.37	1.	10.7
TGT 1 (Va	TGT 1 (Vaca 24 Fed Com #703H)									
13,918.0	3.0 89.05	1.51	12,501.2	1,641.2	907.4	1.84	1.80	0.37	1.3	10.4
14,014.0	1.0 89.63	1.95	12,502.3	1,737.2	910.3	0.76	09.0	0.46	2.6	8.9
14,109.0	91.12	3.01	12,501.7	1,832.1	914.4	1.92	1.57	1.12	2.1	1.9
14,204.0	1.0 88.31	0.02	12,502.2	1,927.0	916.9	4.32	-2.96	-3.15	2.7	1.3
14,299.0	91.87	0.37	12,502.0	2,022.0	917.3	3.77	3.75	0.37	2.6	-2.4
14,394.0	1.0 88.92	358.96	12,501.4	2,117.0	916.7	3.44	-3.11	-1.48	2.1	-2.6
14,489.0	9.0 89.63	356.59	12,502.6	2,211.9	913.0	2.60	0.75	-2.49	3.4	4.0
14,584.0	1.0 89.32	354.92	12,503.5	2,306.6	0.906	1.79	-0.33	-1.76	4.4	2.9
14,679.0	70.06 0.07	357.21	12,504.0	2,401.4	899.5	2.54	0.79	2.41	5.0	12.5
14,774.0	90.46	356.24	12,503.5	2,496.2	894.0	1.10	0.41	-1.02	4.7	17.2
14,869.0	90.29	357.29	12,502.9	2,591.1	888.7	1.12	-0.18	1.11	4.1	21.8
14,964.0	66.06 0.1	359.67	12,501.8	2,686.0	886.2	2.61	0.74	2.51	3.2	23.6
15,059.0	9.0 88.84	357.47	12,502.0	2,781.0	883.8	3.24	-2.26	-2.32	3.4	25.2



Company:	EOG Resources - Midland	dland				Local Co-ordinate Reference:	te Reference:	Well #703H		
Project: Site: Well: Wellbore: Design:	Lea County, NM (NAD 83 NME) Vaca 24 Fed Com #703H OH OH	.D 83 NME)				TVD Reference: MD Reference: North Reference: Survey Calculation Method: Database:	eion Method:	KB = 32' @ 3375.0usft KB = 32' @ 3375.0usft Grid Minimum Curvature EDM 5000.14	5.0usft 5.0usft ture	
Survey										
Q	<u>2</u>	Azi (azimuth)	Q.	8/2	EW	DLeg	Build	T <sub>L</sub>	High to Plan	Right to Plan
(nstf)		<b>©</b>	(nsft)		(nsft)	(°/100usft)	ŧ	(°/100usft)	(nsft)	(usft)
15,154.0	4.0 89.89	9 2.83	12,503.0	2,876.0	884.0	5.75	1.11	5.64	4.6	24.2
15,249.0	9.0 90.15	5 4.50	12,503.0	2,970.8	890.1	1.78	0.27	1.76	4.7	17.4
15,344.0	4.0 92.18	8 4.59	12,501.1	3,065.4	897.6	2.14	2.14	0.09	2.8	9.2
15,439.0	93.67	7 4.68	12,496.2	3,160.0	905.3	1.57	1.57	0.09	-1.9	0.8
15,534.0	4.0 92.79	9 2.83	12,490.9	3,254.6	911.5	2.15	-0.93	-1.95	-7.1	-6.2
15,628.0	3.0 92.18	358.96	12,486.8	3,348.5	913.0	4.16	-0.65	4.12	-11.1	6.8
15,723.0	3.0 88.00	359.49	12,486.6	3,443.5	911.7	4.44	-4.40	0.56	-11.1	-7.8
15,818.0	3.0 91.08	8 0.63	12,487.4	3,538.5	911.8	3.46	3.24	1.20	-10.3	-8.6
15,913.0	3.0 86.29	9 358.44	12,489.6	3,633.4	911.0	5.54	-5.04	-2.31	-8.0	-8.6
16,008.0	87.34	4 358.44	12,494.9	3,728.2	908.4	1.11	1.11	00.00	-2.6	-6.7
16,124.0	4.0 88.20	358.61	12,499.4	3,844.1	905.5	0.76	0.74	0.15	2.0	4.6
16,219.0	9.0 88.90	358.08	12,501.8	3,939.0	902.7	0.92	0.74	-0.56	4.6	-2.6
16,314.0	4.0 89.91	358.00	12,502.8	4,034.0	899.5	1.07	1.06	-0.08	5.6	-0.1
16,409.0	9.0 91.05	5 358.44	12,502.0	4,128.9	896.5	1.29	1.20	0.46	5.0	2.1
16,420.8	01.13	3 358.47	12,501.7	4,140.8	896.2	0.75	0.69	0.27	4.7	2.3
TGT 2 (V	24 Fed Com									
16,504.0		1 358.70	12,499.7	4,223.9	894.2	0.75	0.69	0.27	2.6	3.7
16,599.0	9.0 92.29	359.23	12,496.4	4,318.8	892.4	0.83	0.61	0.56	9.0-	4.7
16,694.0	4.0 91.36	9 0.11	12,493.3	4,413.7	891.9	1.35	-0.98	0.93	4.0	4.5
16,789.0	9.0 89.03	3 1.07	12,493.0	4,508.7	892.9	2.65	-2.45	1.01	4.4	2.8
16,884.0	4.0 87.93	3 1.34	12,495.5	4,603.7	894.9	1.19	-1.16	0.28	-2.0	0.1
16,979.0	9.0 89.12	1.69	12,498.0	4,698.6	897.4	1.31	1.25	0.37	0.3	-3.2
17,074.0	4.0 89.41	3.45	12,499.2	4,793.5	901.6	1.88	0.31	1.85	1.4	-8.2
17,169.0	9.0 88.04	3.16	12,501.3	4,888.3	907.1	1.47	-1.44	-0.31	3.4	-14.4
17,264.0	4.0 88.57	7 1.95	12,504.1	4,983.2	911.3	1.39	0.56	-1.27	6.1	-19.3
17,359.0	9.0 87.56	9 0.46	12,507.3	5,078.1	913.3	1.89	-1.06	-1.57	9.2	-22.1
17,454.0	4.0 87.16	359.23	12,511.7	5,173.0	913.1	1.36	-0.42	-1.29	13.5	-22.5



#### **EOG Resources**

Final PVA

Company: EOG R Project: Lea Co Site: Vaca 2² Well: #703H Wellbore: OH Design: OH	EOG Resources - Midland Lea County, NM (NAD 83 NME) Vaca 24 Fed Com #703H OH	land 83 NME)				Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference: Survey Calculation Method: Database:	te Reference: :: ion Method:	Well #703H KB = 32' @ 3375.0usft KB = 32' @ 3375.0usft Grid Minimum Curvature EDM 5000.14	.Ousft .Ousft .re	
Survey										
MD (#sn)	Inc ©	Azi (azimuth) (°)	TVD (nsft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
17,549.0	89.01	358.00	12,514.9	5,267.9	910.8	2.34	1.95	-1.29	16.6	-21.0
17,644.0	90.24	357.64	12,515.5	5,362.8	907.2	1.35	1.29	-0.38	17.1	-18.1
17,739.0	91.43	357.56	12,514.1	5,457.7	903.2	1.26	1.25	-0.08	15.6	-14.8
17,834.0	93.19	358.52	12,510.3	5,552.6	0.006	2.11	1.85	1.01	11.6	-12.3
17,929.0	89.14	358.52	12,508.4	5,647.5	897.5	4.26	-4.26	0.00	9.6	-10.6
18,024.0	95.60	359.31	12,504.4	5,742.4	895.7	6.85	6.80	0.83	5.5	9.6-
18,119.0	93.32	359.31	12,497.1	5,837.1	894.6	2.40	-2.40	0.00	-2.0	-9.1
18,214.0	87.12	359.58	12,496.7	5,932.0	893.6	6.53	-6.53	0.28	-2.4	-8.9
18,309.0	88.97	0.98	12,499.9	6,027.0	894.1	2.44	1.95	1.47	0.7	-10.1
18,404.0	88.66	0.72	12,501.9	6,121.9	895.5	0.43	-0.33	-0.27	2.5	-12.3
18,499.0	89.41	1.78	12,503.5	6,216.9	897.6	1.37	0.79	1.12	4.0	-15.1
18,593.0	92.09	2.92	12,502.3	6,310.8	901.4	3.10	2.85	1.21	2.7	-19.7
18,688.0	86.51	2.30	12,503.4	6,405.6	902.8	5.91	-5.87	-0.65	3.6	-24.7
18,783.0	86.24	2.21	12,509.4	6,500.4	909.2	0:30	-0.28	-0.09	9.5	-29.2
18,830.0	88.70	359.49	12,511.5	6,547.3	910.2	7.80	5.23	-5.79	11.6	-30.2
18,878.0	89.36	359.58	12,512.3	6,595.3	8.606	1.39	1.37	0.19	12.4	-30.2
18,933.3	90.23	0.04	12,512.5	6,650.6	9.606	1.78	1.58	0.83	12.5	-30.5
TGT 3 (Vaca 24	TGT 3 (Vaca 24 Fed Com #703H)									
18,973.0	98.06	0.37	12,512.1	6,690.3	8.606	1.78	1.58	0.83	12.2	-30.9
19,068.0	92.31	0.98	12,509.5	6,785.3	910.9	1.66	1.53	0.64	9.7	-32.8
19,163.0	88.92	0.81	12,508.5	6,880.2	912.4	3.57	-3.57	-0.18	8.7	-35.0
19,258.0	92.79	0.72	12,507.1	6,975.2	913.6	4.07	4.07	-0.09	7.4	-37.0

-37.0 -39.1 -40.7 -41.3 -40.9 -40.3

-0.09 0.19 -0.76 -0.54 -0.75 0.56

913.6 915.0 915.9 915.7 914.6 913.3

6,975.2 7,070.1 7,164.0 7,259.8 7,354.8 7,449.7

12,507.1 12,503.5 12,498.3

0.72 0.90 0.19 359.67 358.96 359.49

92.79 91.47 94.95 89.36 87.65

19,447.0 19,543.0 19,638.0

19,733.0

19,353.0

-1.39 4.07

1.40 3.78 5.85

4.0 4.7 7.4

1.6

-2.1

3.70 -5.82 -1.80 0.27

1.95

12,494.7 12,497.1

12,500.8

0.62



Company: Project: Site: Well:	EOG Resources - Midland Lea County, NM (NAD 83 NME) Vaca 24 Fed Com #703H	AID 83 NME)				Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference:	ite Reference:	Well #703H KB = 32' @ 3375.0usft KB = 32' @ 3375.0usft Grid	Ousft Ousft	
Wellbore: Design:	НО					Survey Calculation Method: Database:	ion Method:	EDM 5000.14	<u>o</u>	
Survey										
MD (nsft)	Inc (°)	Azi (azimuth)	TVD (usft)	N/S (nsft)	E/W	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
19,828.0			12,504.5	7,544.7	912.6	0.33	-0.27	0.19	5.4	-40.4
19,923.0	3.0 89.58	96.0	12,506.8	7,639.6	913.2	2.46	2.03	1.38	7.8	-41.7
20,017.0	7.0 88.13	13 0.11	12,508.7	7,733.6	914.1	1.80	-1.54	-0.93	9.7	-43.3
20,113.0	3.0 88.75	358.17	12,511.3	7,829.5	912.6	2.12	0.65	-2.02	12.5	-42.6
20,208.0	3.0 94.59	359.84	12,508.5	7,924.4	911.0	6.39	6.15	1.76	9.8	-41.7
20,303.0	3.0 92.09	3.45	12,503.0	8,019.2	913.7	4.62	-2.63	3.80	4.5	-45.1
20,398.0	3.0 90.24	3.88	12,501.1	8,114.0	919.8	2.00	-1.95	0.45	2.5	-51.9
20,493.0	3.0 89.01	0.81	12,501.7	8,208.9	923.7	3.48	-1.29	-3.23	3.2	-56.5
20,588.0	87.82	357.82	12,504.3	8,303.8	922.5	3.39	-1.25	-3.15	6.0	-56.1
20,683.0	3.0 88.48	358.08	12,507.4	8,398.7	919.1	0.75	0.69	0.27	9.2	-53.5
20,778.0	3.0 89.67	37 354.92	12,508.9	8,493.5	913.3	3.55	1.25	-3.33	10.8	-48.4
20,874.0	4.0 89.98	98 357.29	12,509.2	8,589.3	8.906.8	2.49	0.32	2.47	11.1	-42.6
20,945.2	5.2 89.42	357.03	12,509.6	8,660.4	903.3	0.87	-0.79	-0.37	11.6	-39.6
TGT 4 (V	1 24 Fed Com									
20,969.0	9.0 89.23		12,509.9	8,684.2	902.0	0.87	-0.79	-0.37	12.0	-38.6
21,001.0	1.0 91.47	47 357.29	12,509.7	8,716.1	900.4	7.08	7.00	1.09	11.9	-37.2
21,064.0	4.0 89.54	358.00	12,509.1	8,779.1	897.8	3.26	-3.06	1.13	11.6	-35.1
21,095.0	5.0 89.27	27 356.24	12,509.4	8,810.0	896.3	5.74	-0.87	-5.68	12.1	-33.8
21,159.0	9.0 89.49	355.62	12,510.1	8,873.9	891.7	1.03	0.34	-0.97	13.1	-29.7
21,222.0	2.0 90.59	355.10	12,510.1	8,936.7	886.6	1.93	1.75	-0.83	13.3	-25.1
21,254.0	4.0 92.04	353.95	12,509.3	8,968.5	883.6	5.78	4.53	-3.59	12.7	-22.3
21,349.0	9.0 90.51	51 353.07	12,507.2	9,062.9	872.8	1.86	-1.61	-0.93	11.1	-12.3
21,444.0	4.0 90.90	352.40	12,506.1	9,157.1	860.8	0.82	0.41	-0.71	10.3	-1.0
21,539.0	9.0 90.40	40 352.00	12,505.0	9,251.2	847.9	0.67	-0.53	-0.42	9.7	11.1
21,634.0	4.0 88.60	353.10	12,505.8	9,345.4	835.6	2.22	-1.89	1.16	10.9	22.7
21,665.0	5.0 89.00	356.80	12,506.5	9,376.3	832.9	12.00	1.29	11.94	11.7	25.2
21,729.0	9.0 90.20	20 358.35	12,506.9	9,440.2	830.2	3.06	1.87	2.42	12.5	27.4



Survey										
MD (usft)	اnc (ع)	Azi (azimuth)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan
21,832.0	92.79	359.23	12,504.2	9,543.1	828.0	2.66	2.51	0.85	10.2	28.8
21,927.0	91.08	2.13	12,501.0	9,638.1	829.1	3.54	-1.80	3.05	7.4	27.0
22,022.0	92.22	2.04	12,498.3	9,733.0	832.6	1.20	1.20	60.0-	5.1	22.8
22,117.0	93.80	2.57	12,493.3	9,827.8	836.4	1.75	1.66	0.56	0.5	18.2
22,212.0	91.47	3.09	12,488.9	9,922.5	841.1	2.51	-2.45	0.55	-3.4	12.8
22,307.0	92.13	3.45	12,485.9	10,017.3	846.5	0.79	0.69	0.38	-5.9	9.9
22,402.0	91.74	4.06	12,482.7	10,112.1	852.7	0.76	-0.41	0.64	-8.7	-0.3
22,497.0	93.10	5.38	12,478.7	10,206.7	860.5	1.99	1.43	1.39	-12.2	-8.8
22,592.0	94.59	5.38	12,472.3	10,301.0	869.4	1.57	1.57	0.00	-18.1	-18.5
22,650.0	95.30	5.91	12,467.3	10,358.5	875.1	1.53	1.22	0.91	-22.8	-24.7
Final MWD Su	Final MWD Survey (MD=22650.0')									
22,702.3	95.30	5.91	12,462.5	10,410.3	880.5	0.00	0.00	00:00	-27.4	-30.5
PBHL (Vaca 2	PBHL (Vaca 24 Fed Com #703H)									
22,705.0	95.30	5.91	12,462.3	10,413.0	880.8	0.00	00.00	00:00	-27.6	-30.8
Final Projection	Final Projection to Bit (MD=22705.0')	05.0')								

Design Annotations				
Measured	Vertical	Local Coordinates	ites	
Depth (usft)	Depth (usff)	S-/N+	+E/-W	\$ common of
( )	(21.22)	(usn)	(nsit)	
12,116.2	12,029.4	63.4	927.2	HL Crossing, MD:12116.2', TVD:12029.4',N/S:63.4', E/W:927.2', INC:11.35
22,650.0	12,467.3	10,358.5	875.1	Final MWD Survey (MD=22650.0')
22,705.0	12,462.3	10,413.0	880.8	Final Projection to Bit (MD=22705.0')

	_
ate:	
  Dat	
BV:	
poroved	
AD	
ed Bv:	

