

Submit 3 Copies To Appropriate District Office
District I
1625 N. French Dr., Hobbs, NM 87240
District II
1301 W. Grand Ave., Artesia, NM 88210
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-103

June 19, 2008

SUNDRY NOTICES AND REPORTS ON WELLS (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)	
1. Type of Well: Oil Well ☒ Gas Well ☐ Other ☐	WELL API NO. 30-025-39531
2. Name of Operator EOG Resources, Inc.	5. Indicate Type of Lease STATE ☒ FEE ☐
3. Address of Operator P.O. Box 2267 Midland, TX 79702	6. State Oil & Gas Lease No.
4. Well Location Unit Letter <u>D</u> : <u>330</u> feet from the <u>North</u> line and <u>430</u> feet from the <u>West</u> line Section <u>26</u> Township <u>25S</u> Range <u>33E</u> NMPM County <u>Lea</u>	7. Lease Name or Unit Agreement Name: Lomas Rojas 26 State Com
	8. Well Number 1
	9. OGRID Number 7377
	10. Pool name or Wildcat Red Hills; Bone Spring
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3344' GR	

12. Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐
TEMPORARILY ABANDON ☐ CHANGE PLANS ☒
PULL OR ALTER CASING ☐ MULTIPLE COMPL ☐
DOWNHOLE COMMINGLE ☐

OTHER: ☐

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐
COMMENCE DRILLING OPNS. ☐ P AND A ☐
CASING/CEMENT JOB ☐

RECEIVED
DEC 14 2009

OTHER: ☐ HOBBSOCD

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 1103. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

EOG Resources requests permission to deviate from the original APD by:

1. Drilling a vertical well to 11,000' TVD.
2. Plugging the well back to a kick-off point at approximately 9000' TVD.
Plugback will be accomplished by setting a 100' plug on bottom, from 11,000' to 10,900' then setting the kick-off plug from 9500' to 9000'. The well will then be drilled horizontal as per the attached directional drilling plan.

Spud Date: 11/27/09

Rig Release Date:

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE Stan Wagner TITLE Regulatory Analyst DATE 12/15/09

Type or print name Stan Wagner E-mail address: PHONE 432-686-3689

For State Use Only

APPROVED BY [Signature] TITLE PETROLEUM ENGINEER DATE DEC 14 2009

Conditions of Approval (if any):



EOG Resources, Inc.

Lea County

Lomas Rojas "26" State Com

#1H

OH

Plan: Plan #2

Pathfinder X & Y Planning Report

15 December, 2009

PATHFINDER



Pathfinder Energy Services
Pathfinder X & Y Planning Report



Company:	EOG Resources, Inc.	Local Co-ordinate Reference:	Well #1H
Project:	Lea County	TVD Reference:	WELL @ 3362.60ft (19' KB Correction)
Site:	Lomas Rojas "26" State Com	MD Reference:	WELL @ 3362.60ft (19' KB Correction)
Well:	#1H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Plan #2	Database:	Midland Database

Project		Lea County	
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		Lomas Rojas "26" State Com			
Site Position:		Northing:	403,802.800 ft	Latitude:	32° 6' 27.886 N
From:	Map	Easting:	742,610.100 ft	Longitude:	103° 32' 59.279 W
Position Uncertainty:	0.00 ft	Slot Radius:	"	Grid Convergence:	0.42 °

Well	#1H					
Well Position	+N/-S	0.00 ft	Northing:	403,802.800 ft	Latitude:	32° 6' 27.886 N
	+E/-W	0.00 ft	Easting:	742,610.100 ft	Longitude:	103° 32' 59.279 W
Position Uncertainty		0.00 ft	Wellhead Elevation:	ft	Ground Level:	3,343.60 ft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength
			(°)	(°)	(nT)
	IGRF200510	09/28/2009	7.76	60.14	48,749

Design		Plan #2		
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	9,016.50
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction
	(ft)	(ft)	(ft)	(°)
	0.00	0.00	0.00	179.55



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Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Plan #2	Database:	Midland Database

Survey Tool Program		Date	12/15/2009		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
100.00	6,020.00	GYRO (OH)	MWD	MWD - Standard	
6,070.00	9,016.50	Pilot Hole (OH)	MWD	MWD - Standard	
9,016.50	13,833.48	Plan #2 (OH)	MWD	MWD - Standard	

Planned Survey										
MD (ft)	Inc (°)	Azi (°)	TVD (ft)	TVDSS (ft)	N/S (ft)	E/W (ft)	V. Sec (ft)	DLeg (°/100ft)	Northing (ft)	Eastings (ft)
0.00	0.00	0.00	0.00	-3,362.60	0.00	0.00	0.00	0.00	403,802.80	742,610.10
100.00	0.21	298.21	100.00	-3,262.60	0.09	-0.16	-0.09	0.21	403,802.89	742,609.94
200.00	0.30	312.50	200.00	-3,162.60	0.35	-0.52	-0.35	0.11	403,803.15	742,609.58
300.00	0.49	306.33	300.00	-3,062.60	0.78	-1.05	-0.79	0.19	403,803.58	742,609.05
400.00	0.66	278.96	399.99	-2,962.61	1.12	-1.97	-1.14	0.32	403,803.92	742,608.13
500.00	0.77	270.01	499.98	-2,862.62	1.21	-3.21	-1.24	0.16	403,804.01	742,606.89
600.00	0.80	274.31	599.97	-2,762.63	1.27	-4.58	-1.30	0.07	403,804.07	742,605.52
700.00	0.91	267.33	699.96	-2,662.64	1.28	-6.07	-1.33	0.15	403,804.08	742,604.03
800.00	0.94	267.21	799.95	-2,562.65	1.20	-7.68	-1.26	0.03	403,804.00	742,602.42
900.00	0.97	263.80	899.94	-2,462.66	1.07	-9.34	-1.15	0.06	403,803.87	742,600.76
1,000.00	1.01	262.31	999.92	-2,362.68	0.86	-11.05	-0.95	0.05	403,803.66	742,599.05
1,100.00	0.95	265.43	1,099.91	-2,262.69	0.68	-12.75	-0.78	0.08	403,803.48	742,597.35
1,200.00	1.02	265.76	1,199.89	-2,162.71	0.55	-14.47	-0.66	0.07	403,803.35	742,595.63
1,300.00	0.87	267.58	1,299.88	-2,062.72	0.45	-16.11	-0.58	0.15	403,803.25	742,593.99
1,400.00	0.85	266.32	1,399.87	-1,962.73	0.37	-17.61	-0.51	0.03	403,803.17	742,592.49
1,500.00	0.80	261.46	1,499.86	-1,862.74	0.22	-19.04	-0.37	0.09	403,803.02	742,591.06
1,600.00	0.68	259.19	1,599.85	-1,762.75	0.00	-20.32	-0.16	0.12	403,802.80	742,589.78
1,700.00	0.60	252.26	1,699.84	-1,662.76	-0.27	-21.40	0.10	0.11	403,802.53	742,588.70
1,800.00	0.66	258.69	1,799.84	-1,562.76	-0.54	-22.46	0.36	0.09	403,802.26	742,587.64
1,900.00	0.64	253.97	1,899.83	-1,462.77	-0.81	-23.56	0.62	0.06	403,801.99	742,586.54



Pathfinder Energy Services
Pathfinder X & Y Planning Report



Company: EOG Resources, Inc.
Project: Lea County
Site: Lomas Rojas "26" State Com
Well: #1H
Wellbore: OH
Design: Plan #2

Local Co-ordinate Reference: Well #1H
TVD Reference: WELL @ 3362.60ft (19' KB Correction)
MD Reference: WELL @ 3362.60ft (19' KB Correction)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: Midland Database

Planned Survey

MD (ft)	Inc (°)	Azi (°)	TVD (ft)	TVDSS (ft)	N/S (ft)	E/W (ft)	V. Sec (ft)	DLeg (°/100ft)	Northing (ft)	Easting (ft)
2,000.00	0.68	258.19	1,999.82	-1,362.78	-1.08	-24.68	0.89	0.06	403,801.72	742,585.42
2,100.00	0.67	257.33	2,099.82	-1,262.78	-1.33	-25.83	1.13	0.01	403,801.47	742,584.27
2,200.00	0.69	247.39	2,199.81	-1,162.79	-1.69	-26.96	1.48	0.12	403,801.11	742,583.14
2,300.00	0.57	242.11	2,299.80	-1,062.80	-2.16	-27.95	1.94	0.13	403,800.64	742,582.15
2,400.00	0.53	247.37	2,399.80	-962.80	-2.57	-28.82	2.34	0.06	403,800.23	742,581.28
2,500.00	0.41	253.31	2,499.80	-862.80	-2.85	-29.59	2.62	0.13	403,799.95	742,580.51
2,600.00	0.33	242.50	2,599.79	-762.81	-3.08	-30.19	2.85	0.11	403,799.72	742,579.91
2,700.00	0.15	244.96	2,699.79	-662.81	-3.27	-30.56	3.03	0.18	403,799.53	742,579.54
2,800.00	0.18	356.43	2,799.79	-562.81	-3.17	-30.69	2.93	0.27	403,799.63	742,579.41
2,900.00	0.08	89.50	2,899.79	-462.81	-3.01	-30.63	2.77	0.20	403,799.79	742,579.47
3,000.00	0.43	57.96	2,999.79	-362.81	-2.81	-30.24	2.58	0.36	403,799.99	742,579.86
3,100.00	0.89	64.32	3,099.78	-262.82	-2.28	-29.22	2.05	0.47	403,800.52	742,580.88
3,200.00	1.44	60.83	3,199.76	-162.84	-1.33	-27.43	1.11	0.55	403,801.47	742,582.67
3,300.00	1.61	61.60	3,299.73	-62.87	-0.05	-25.09	-0.15	0.17	403,802.75	742,585.01
3,400.00	1.62	60.26	3,399.69	37.09	1.32	-22.63	-1.50	0.04	403,804.12	742,587.47
3,500.00	1.66	59.29	3,499.65	137.05	2.76	-20.16	-2.92	0.05	403,805.56	742,589.94
3,600.00	1.51	74.16	3,599.61	237.01	3.86	-17.65	-4.00	0.44	403,806.66	742,592.45
3,700.00	1.41	76.53	3,699.58	336.98	4.51	-15.18	-4.63	0.12	403,807.31	742,594.92
3,800.00	1.69	78.66	3,799.54	436.94	5.08	-12.54	-5.18	0.29	403,807.88	742,597.56
3,900.00	1.67	76.28	3,899.50	536.90	5.72	-9.68	-5.80	0.07	403,808.52	742,600.42
4,000.00	1.73	77.85	3,999.45	636.85	6.38	-6.79	-6.44	0.08	403,809.18	742,603.31
4,100.00	1.67	87.05	4,099.41	736.81	6.78	-3.86	-6.81	0.28	403,809.58	742,606.24
4,200.00	1.69	91.15	4,199.37	836.77	6.82	-0.93	-6.83	0.12	403,809.62	742,609.17
4,300.00	2.05	97.36	4,299.31	936.71	6.56	2.32	-6.54	0.41	403,809.36	742,612.42
4,400.00	2.74	97.95	4,399.22	1,036.62	6.00	6.46	-5.95	0.69	403,808.80	742,616.56
4,500.00	2.87	103.28	4,499.10	1,136.50	5.10	11.27	-5.01	0.29	403,807.90	742,621.37
4,600.00	3.16	108.48	4,598.97	1,236.37	3.65	16.32	-3.52	0.40	403,806.45	742,626.42



Pathfinder Energy Services
Pathfinder X & Y Planning Report



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Well: #1H
Wellbore: OH
Design: Plan #2

Local Co-ordinate Reference: Well #1H
TVD Reference: WELL @ 3362.60ft (19' KB Correction)
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Survey Calculation Method: Minimum Curvature
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Planned Survey										
MD (ft)	Inc (°)	Azi (°)	TVD (ft)	TVDSS (ft)	N/S (ft)	E/W (ft)	V. Sec (ft)	DLeg (°/100ft)	Northing (ft)	Easting (ft)
4,700.00	3.36	114.01	4,698.80	1,336.20	1.58	21.61	-1.41	0.37	403,804.38	742,631.71
4,800.00	3.44	114.87	4,798.63	1,436.03	-0.87	27.01	1.08	0.09	403,801.93	742,637.11
4,900.00	2.93	119.27	4,898.47	1,535.87	-3.38	31.96	3.63	0.57	403,799.42	742,642.06
5,000.00	2.46	117.34	4,998.36	1,635.76	-5.62	36.09	5.90	0.48	403,797.18	742,646.19
5,100.00	2.24	118.71	5,098.28	1,735.68	-7.54	39.72	7.85	0.23	403,795.26	742,649.82
5,200.00	2.39	122.17	5,198.20	1,835.60	-9.59	43.19	9.93	0.20	403,793.21	742,653.29
5,300.00	2.60	120.80	5,298.10	1,935.50	-11.86	46.91	12.23	0.22	403,790.94	742,657.01
5,400.00	2.95	118.97	5,397.99	2,035.39	-14.27	51.11	14.67	0.36	403,788.53	742,661.21
5,500.00	3.11	121.88	5,497.85	2,135.25	-16.95	55.66	17.38	0.22	403,785.85	742,665.76
5,600.00	3.34	120.67	5,597.69	2,235.09	-19.87	60.47	20.34	0.24	403,782.93	742,670.57
5,700.00	3.41	118.81	5,697.51	2,334.91	-22.79	65.58	23.30	0.13	403,780.01	742,675.68
5,800.00	3.72	119.59	5,797.32	2,434.72	-25.82	71.01	26.37	0.31	403,776.98	742,681.11
5,900.00	3.86	119.96	5,897.10	2,534.50	-29.11	76.75	29.70	0.14	403,773.69	742,686.85
6,000.00	3.92	119.82	5,996.87	2,634.27	-32.49	82.63	33.13	0.06	403,770.31	742,692.73
6,020.00	3.81	120.16	6,016.83	2,654.23	-33.16	83.80	33.81	0.56	403,769.64	742,693.90
6,070.00	3.96	118.85	6,066.71	2,704.11	-34.83	86.74	35.50	0.35	403,767.97	742,696.84
6,093.00	3.96	122.54	6,089.66	2,727.06	-35.64	88.11	36.32	1.11	403,767.16	742,698.21
6,125.00	3.25	124.04	6,121.59	2,758.99	-36.74	89.79	37.44	2.24	403,766.06	742,699.89
6,157.00	2.64	118.76	6,153.55	2,790.95	-37.60	91.19	38.31	2.08	403,765.20	742,701.29
6,188.00	1.85	123.42	6,184.53	2,821.93	-38.22	92.23	38.94	2.61	403,764.58	742,702.33
6,220.00	1.41	122.72	6,216.51	2,853.91	-38.72	93.00	39.44	1.38	403,764.08	742,703.10
6,315.00	0.70	57.42	6,311.50	2,948.90	-39.04	94.47	39.77	1.35	403,763.76	742,704.57
6,410.00	0.88	72.36	6,406.49	3,043.89	-38.50	95.65	39.25	0.29	403,764.30	742,705.75
6,505.00	0.70	65.15	6,501.48	3,138.88	-38.04	96.87	38.79	0.22	403,764.76	742,706.97
6,695.00	0.79	68.14	6,691.46	3,328.86	-37.06	99.14	37.83	0.05	403,765.74	742,709.24
6,886.00	0.53	68.67	6,882.45	3,519.85	-36.25	101.19	37.04	0.14	403,766.55	742,711.29
7,075.00	0.44	79.83	7,071.45	3,708.85	-35.81	102.72	36.60	0.07	403,766.99	742,712.82



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Planned Survey

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7,265.00	0.53	120.96	7,261.44	3,898.84	-36.13	104.19	36.94	0.18	403,766.67	742,714.29
7,454.00	0.79	125.09	7,450.43	4,087.83	-37.33	106.00	38.15	0.14	403,765.47	742,716.10
7,644.00	0.88	132.48	7,640.41	4,277.81	-39.07	108.15	39.91	0.07	403,763.73	742,718.25
7,834.00	1.06	170.01	7,830.38	4,467.78	-41.78	109.53	42.63	0.34	403,761.02	742,719.63
7,957.00	1.06	188.73	7,953.36	4,590.76	-44.03	109.56	44.88	0.28	403,758.77	742,719.66
8,146.00	0.79	185.91	8,142.34	4,779.74	-47.05	109.16	47.90	0.14	403,755.75	742,719.26
8,336.00	1.41	184.60	8,332.30	4,969.70	-50.68	108.84	51.53	0.33	403,752.12	742,718.94
8,526.00	1.41	204.99	8,522.24	5,159.64	-55.13	107.66	55.97	0.26	403,747.67	742,717.76
8,716.00	1.58	198.04	8,712.18	5,349.58	-59.74	105.86	60.57	0.13	403,743.06	742,715.96
8,906.00	1.76	216.15	8,902.10	5,539.50	-64.59	103.33	65.39	0.29	403,738.21	742,713.43
9,016.50	1.59	223.75	9,012.55	5,649.95	-67.07	101.27	67.85	0.25	403,735.73	742,711.37
KOP-9016.50°MD,1.59°INC,223.75°AZI,9012.55°TVD										
9,025.00	2.44	207.15	9,021.05	5,658.45	-67.31	101.10	68.10	12.01	403,735.49	742,711.20
9,050.00	5.30	192.51	9,045.99	5,683.39	-68.91	100.61	69.70	12.01	403,733.89	742,710.71
9,075.00	8.26	188.22	9,070.81	5,708.21	-71.82	100.10	72.60	12.01	403,730.98	742,710.20
9,100.00	11.24	186.18	9,095.45	5,732.85	-76.02	99.59	76.79	12.01	403,726.78	742,709.69
9,125.00	14.23	185.00	9,119.83	5,757.23	-81.50	99.05	82.27	12.01	403,721.30	742,709.15
9,150.00	17.22	184.22	9,143.89	5,781.29	-88.26	98.52	89.02	12.01	403,714.54	742,708.62
9,175.00	20.22	183.66	9,167.56	5,804.96	-96.26	97.97	97.02	12.01	403,706.54	742,708.07
9,200.00	23.22	183.24	9,190.79	5,828.19	-105.50	97.41	106.25	12.01	403,697.30	742,707.51
9,225.00	26.22	182.92	9,213.49	5,850.89	-115.93	96.85	116.68	12.01	403,686.87	742,706.95
9,250.00	29.22	182.65	9,235.62	5,873.02	-127.55	96.29	128.29	12.01	403,675.25	742,706.39
9,275.00	32.22	182.43	9,257.11	5,894.51	-140.30	95.72	141.04	12.01	403,662.50	742,705.82
9,300.00	35.22	182.25	9,277.91	5,915.31	-154.16	95.16	154.90	12.01	403,648.64	742,705.26
9,325.00	38.22	182.09	9,297.94	5,935.34	-169.10	94.59	169.83	12.01	403,633.70	742,704.69
9,350.00	41.22	181.95	9,317.17	5,954.57	-185.06	94.03	185.79	12.01	403,617.74	742,704.13
9,375.00	44.22	181.83	9,335.54	5,972.94	-202.01	93.47	202.73	12.01	403,600.79	742,703.57



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Well: #1H
Wellbore: OH
Design: Plan #2

Local Co-ordinate Reference: Well #1H
TVD Reference: WELL @ 3362.60ft (19' KB Correction)
MD Reference: WELL @ 3362.60ft (19' KB Correction)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: Midland Database

Planned Survey										
MD (ft)	Inc (°)	Azi (°)	TVD (ft)	TVDSS (ft)	N/S (ft)	E/W (ft)	V. Sec (ft)	DLeg (°/100ft)	Northing (ft)	Easting (ft)
9,400.00	47.22	181.72	9,352.99	5,990.39	-219.89	92.92	220.61	12.01	403,582.91	742,703.02
9,425.00	50.22	181.61	9,369.49	6,006.89	-238.67	92.37	239.38	12.01	403,564.13	742,702.47
9,450.00	53.22	181.52	9,384.97	6,022.37	-258.29	91.84	258.99	12.01	403,544.51	742,701.94
9,475.00	56.22	181.44	9,399.41	6,036.81	-278.68	91.31	279.39	12.01	403,524.12	742,701.41
9,500.00	59.22	181.36	9,412.76	6,050.16	-299.81	90.80	300.51	12.01	403,502.99	742,700.90
9,525.00	62.22	181.28	9,424.99	6,062.39	-321.61	90.29	322.30	12.01	403,481.19	742,700.39
9,550.00	65.22	181.21	9,436.05	6,073.45	-344.02	89.81	344.71	12.01	403,458.78	742,699.91
9,575.00	68.22	181.14	9,445.93	6,083.33	-366.97	89.33	367.66	12.01	403,435.83	742,699.43
9,600.00	71.22	181.08	9,454.60	6,092.00	-390.42	88.88	391.10	12.01	403,412.38	742,698.98
9,625.00	74.22	181.02	9,462.02	6,099.42	-414.28	88.44	414.96	12.01	403,388.52	742,698.54
9,650.00	77.22	180.96	9,468.18	6,105.58	-438.51	88.03	439.18	12.01	403,364.29	742,698.13
9,675.00	80.23	180.90	9,473.07	6,110.47	-463.02	87.63	463.68	12.01	403,339.78	742,697.73
9,700.00	83.23	180.84	9,476.67	6,114.07	-487.75	87.25	488.42	12.01	403,315.05	742,697.35
9,725.00	86.23	180.78	9,478.97	6,116.37	-512.64	86.90	513.30	12.01	403,290.16	742,697.00
9,750.00	89.23	180.72	9,479.96	6,117.36	-537.62	86.57	538.27	12.01	403,265.18	742,696.67
9,756.42	90.00	180.71	9,480.00	6,117.40	-544.04	86.49	544.70	12.01	403,258.76	742,696.59
EOC-9756.42°MD,90.00°INC,180.71°AZI,9480.00°TVD,12.01°DLS, 544.69°VS, -544.03°N, 86.49°E										
9,800.00	90.00	180.71	9,480.00	6,117.40	-587.61	85.95	588.26	0.00	403,215.19	742,696.05
9,900.00	90.00	180.71	9,480.00	6,117.40	-687.60	84.72	688.24	0.00	403,115.20	742,694.82
10,000.00	90.00	180.71	9,480.00	6,117.40	-787.60	83.48	788.22	0.00	403,015.20	742,693.58
10,100.00	90.00	180.71	9,480.00	6,117.40	-887.59	82.24	888.20	0.00	402,915.21	742,692.34
10,200.00	90.00	180.71	9,480.00	6,117.40	-987.58	81.00	988.18	0.00	402,815.22	742,691.10
10,300.00	90.00	180.71	9,480.00	6,117.40	-1,087.57	79.76	1,088.16	0.00	402,715.23	742,689.86
10,400.00	90.00	180.71	9,480.00	6,117.40	-1,187.57	78.52	1,188.14	0.00	402,615.23	742,688.62
10,500.00	90.00	180.71	9,480.00	6,117.40	-1,287.56	77.28	1,288.12	0.00	402,515.24	742,687.38
10,600.00	90.00	180.71	9,480.00	6,117.40	-1,387.55	76.04	1,388.10	0.00	402,415.25	742,686.14
10,700.00	90.00	180.71	9,480.00	6,117.40	-1,487.54	74.80	1,488.08	0.00	402,315.26	742,684.90



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Local Co-ordinate Reference: Well #1H
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Planned Survey

MD (ft)	Inc (°)	Azi (°)	TVD (ft)	TVDSS (ft)	N/S (ft)	E/W (ft)	V. Sec (ft)	DLeg (°/100ft)	Northing (ft)	Easting (ft)
10,800.00	90.00	180.71	9,480.00	6,117.40	-1,587.53	73.56	1,588.06	0.00	402,215.27	742,683.66
10,900.00	90.00	180.71	9,480.00	6,117.40	-1,687.53	72.32	1,688.04	0.00	402,115.27	742,682.42
11,000.00	90.00	180.71	9,480.00	6,117.40	-1,787.52	71.08	1,788.02	0.00	402,015.28	742,681.18
11,100.00	90.00	180.71	9,480.00	6,117.40	-1,887.51	69.85	1,888.00	0.00	401,915.29	742,679.95
11,200.00	90.00	180.71	9,480.00	6,117.40	-1,987.50	68.61	1,987.98	0.00	401,815.30	742,678.71
11,300.00	90.00	180.71	9,480.00	6,117.40	-2,087.50	67.37	2,087.96	0.00	401,715.30	742,677.47
11,400.00	90.00	180.71	9,480.00	6,117.40	-2,187.49	66.13	2,187.94	0.00	401,615.31	742,676.23
11,500.00	90.00	180.71	9,480.00	6,117.40	-2,287.48	64.89	2,287.92	0.00	401,515.32	742,674.99
11,600.00	90.00	180.71	9,480.00	6,117.40	-2,387.47	63.65	2,387.90	0.00	401,415.33	742,673.75
11,700.00	90.00	180.71	9,480.00	6,117.40	-2,487.47	62.41	2,487.88	0.00	401,315.33	742,672.51
11,800.00	90.00	180.71	9,480.00	6,117.40	-2,587.46	61.17	2,587.86	0.00	401,215.34	742,671.27
11,900.00	90.00	180.71	9,480.00	6,117.40	-2,687.45	59.93	2,687.83	0.00	401,115.35	742,670.03
12,000.00	90.00	180.71	9,480.00	6,117.40	-2,787.44	58.69	2,787.81	0.00	401,015.36	742,668.79
12,100.00	90.00	180.71	9,480.00	6,117.40	-2,887.43	57.45	2,887.79	0.00	400,915.37	742,667.55
12,200.00	90.00	180.71	9,480.00	6,117.40	-2,987.43	56.21	2,987.77	0.00	400,815.37	742,666.31
12,300.00	90.00	180.71	9,480.00	6,117.40	-3,087.42	54.98	3,087.75	0.00	400,715.38	742,665.08
12,400.00	90.00	180.71	9,480.00	6,117.40	-3,187.41	53.74	3,187.73	0.00	400,615.39	742,663.84
12,500.00	90.00	180.71	9,480.00	6,117.40	-3,287.40	52.50	3,287.71	0.00	400,515.40	742,662.60
12,600.00	90.00	180.71	9,480.00	6,117.40	-3,387.40	51.26	3,387.69	0.00	400,415.40	742,661.36
12,700.00	90.00	180.71	9,480.00	6,117.40	-3,487.39	50.02	3,487.67	0.00	400,315.41	742,660.12
12,800.00	90.00	180.71	9,480.00	6,117.40	-3,587.38	48.78	3,587.65	0.00	400,215.42	742,658.88
12,900.00	90.00	180.71	9,480.00	6,117.40	-3,687.37	47.54	3,687.63	0.00	400,115.43	742,657.64
13,000.00	90.00	180.71	9,480.00	6,117.40	-3,787.37	46.30	3,787.61	0.00	400,015.43	742,656.40
13,100.00	90.00	180.71	9,480.00	6,117.40	-3,887.36	45.06	3,887.59	0.00	399,915.44	742,655.16
13,200.00	90.00	180.71	9,480.00	6,117.40	-3,987.35	43.82	3,987.57	0.00	399,815.45	742,653.92
13,300.00	90.00	180.71	9,480.00	6,117.40	-4,087.34	42.58	4,087.55	0.00	399,715.46	742,652.68
13,400.00	90.00	180.71	9,480.00	6,117.40	-4,187.33	41.34	4,187.53	0.00	399,615.47	742,651.44



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Site:	Lomas Rojas "26" State Com	MD Reference:	WELL @ 3362.60ft (19' KB Correction)
Well:	#1H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Plan #2	Database:	Midland Database

Planned Survey										
MD (ft)	Inc (°)	Azi (°)	TVD (ft)	TVDSS (ft)	N/S (ft)	E/W (ft)	V. Sec (ft)	DLeg (°/100ft)	Northing (ft)	Easting (ft)
13,500.00	90.00	180.71	9,480.00	6,117.40	-4,287.33	40.11	4,287.51	0.00	399,515.47	742,650.21
13,600.00	90.00	180.71	9,480.00	6,117.40	-4,387.32	38.87	4,387.49	0.00	399,415.48	742,648.97
13,700.00	90.00	180.71	9,480.00	6,117.40	-4,487.31	37.63	4,487.47	0.00	399,315.49	742,647.73
13,800.00	90.00	180.71	9,480.00	6,117.40	-4,587.30	36.39	4,587.45	0.00	399,215.50	742,646.49
13,833.70	90.00	180.71	9,480.00	6,117.40	-4,621.00	35.97	4,621.14	0.00	399,181.80	742,646.07
TD at 13833.70 - PBHL(LORO)										



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Site:	Lomas Rojas "26" State Com	MD Reference:	WELL @ 3362.60ft (19' KB Correction)
Well:	#1H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
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Targets									
Target Name	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- hit/miss target	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(ft)		
- Shape									
PBHL(LORO)	0.00	0.00	9,480.00	-4,621.00	35.70	399,181.800	742,645.800	32° 5' 42.156 N	103° 32' 59.255 W
- plan hits target									
- Point									

Formations					
Measured Depth	Vertical Depth	Name	Lithology	Dip	Dip Direction
(ft)	(ft)			(°)	(°)
11,685.00		Top of 3rd BS		0.00	

Plan Annotations				
Measured Depth	Vertical Depth	Local Coordinates		Comment
(ft)	(ft)	+N/-S	+E/-W	
(ft)	(ft)	(ft)	(ft)	
9,016.50	9,012.55	-67.07	101.27	KOP-9016.50*MD,1.59*INC,223.75*AZI,9012.55*TVD
9,756.42	9,480.00	-544.04	86.49	EOC-9756 42*MD,90 00*INC,180.71*AZI,9480.00*TVD,12.01*DLS, 544
13,833.70	9,480.00	-4,621.00	35.97	TD at 13833.70

Checked By: _____	Approved By: _____	Date: _____
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