

UNITED STATES
DEPARTMENT OF THE INTERIOR **OCD-ARTESIA**
BUREAU OF LAND MANAGEMENTFORM APPROVED
OMB NO. 1004-0137
Expires July 31, 2010**SUNDRY NOTICES AND REPORTS ON WELLS****Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.****SUBMIT IN TRIPLICATE - Other instructions on page 2**

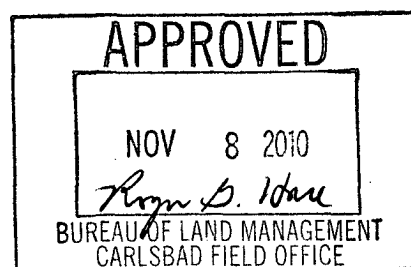
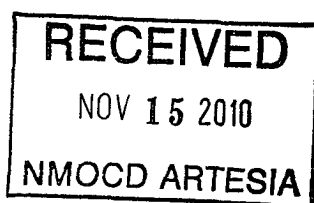
1. Type of Well ☒ Oil Well ☐ Gas Well ☐ Other		5. Lease Serial No. NM 12110 (SHL) & (BHL)
2. Name of Operator EOG Resources Inc.		6. If Indian, Allottee or Tribe Name
3a. Address P.O. Box 2267 Midland, Texas 79702	3b. Phone No. (include area code) 432-686-3689	7. If Unit or CA/Agreement, Name and/or No.
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) 1840' FNL & 330' FEL, U/L H Sec 31, T16S, R28E		8. Well Name and No. Lucky Wolf 31 2H
		9. API Well No. 30-015-37448
		10. Field and Pool, or Exploratory Area Dog Canyon; Wolfcamp
		11. County or Parish, State Eddy NM

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
☒ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☐ Subsequent Report	☐ Alter Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☐ Other
	☒ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the final site is ready for final inspection.)

EOG Resources requests a change in our directional drilling as per the attached revised directional plan. The changes are necessary to avoid an existing wellbore in our path.

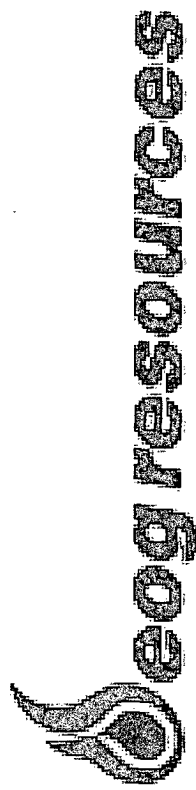


Original COA still apply.

14. I hereby certify that the foregoing is true and correct Name (Printed/Typed) Stan Wagner		Title Regulatory Analyst
Signature <i>Stan Wagner</i>		Date 10/14/10

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by	Title	Date
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.	Office	



EOG Resources, Inc.

Eddy County

Lucky Wolf 31 Fed Com

#2H

OH

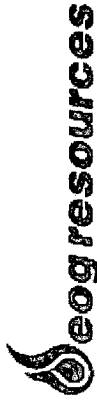
Plan: Plan #3

Pathfinder X & Y Planning Report

11 October, 2010

PATHFINDER®

A Schlumberger Company



Pathfinder
Pathfinder X & Y Planning Report



Company: EOG Resources, Inc.
Project: Eddy County
Site: Lucky Wolf 31 Fed Com
Well: #2H
Wellbore: OH
Design: Plan #3

Local Co-ordinate Reference:
TVD Reference:
MD Reference:
North Reference:
Survey Calculation Method:
Database:

Well #2H
WELL @ 3546.10ft (19' KB Correction)
WELL @ 3546.10ft (19' KB Correction)
Grid
Minimum Curvature
Midland Database

Project: Eddy County

Map System: US State Plane 1927 (Exact solution)
Geo Datum: NAD 1927 (NADCON CONUS)
Map Zone: New Mexico East 3001

System Datum: Mean Sea Level

Site: Lucky Wolf 31 Fed Com

Site Position: Northing: 685,484.700 ft Latitude: 32° 53' 3.893 N
From: Easting: 538,736.600 ft Longitude: 104° 12' 25.734 W
Position Uncertainty: Slot Radius: " Grid Convergence: 0.07 °

Well: #2H

Well Position +N/-S 0.00 ft Northing: 683,974.600 ft Latitude: 32° 52' 48.950 N
+E/-W 0.00 ft Easting: 538,722.000 ft Longitude: 104° 12' 25.926 W
Position Uncertainty Wellhead Elevation: ft Ground Level: 3,527.10 ft

Wellbore: OH

Magnetics Model Name Sample Date Declination (°) Dip Angle (°) Field Strength (nT)
IGRF200510 09/25/09 8.12 60.74 49,140

Design: Plan #3

Audit Notes: Phase: PLAN Tie On Depth: 5,776.00
Version: Depth From (ft) +N/-S (ft) +E/-W (ft) Direction (°)

Vertical Section: 0.00 0.00 0.00 271.28



Pathfinder
Pathfinder X & Y Planning Report



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Survey Tool/Program Date 10/11/10

From (ft)	To (ft)	Survey (Wellbore)
237.00	475.00	Totco (OH)
554.00	5,776.00	MWD (OH)
5,776.00	10,871.36	Plan #3 (OH)

Tool Name	Description
Gyro	Gyro
MWD	MWD - Standard
MWD	MWD - Standard

Planned Survey

MD (ft)	Inc (°)	Azi (°)	TVD (ft)	TVDSS (ft)	N/S (ft)	EW (ft)	V. Sec (ft)	DLeg (°/100ft)	Northing (ft)	Easting (ft)
0.00	0.00	0.00	0.00	-3,546.10	0.00	0.00	0.00	0.00	683,974.60	538,722.00
237.00	0.91	340.00	236.99	-3,309.11	1.77	-0.64	0.68	0.38	683,976.37	538,721.36
475.00	1.00	340.00	474.96	-3,071.14	5.50	-2.00	2.12	0.04	683,980.10	538,720.00
554.00	0.88	213.80	553.95	-2,992.15	5.64	-2.57	2.70	2.12	683,980.24	538,719.43
734.00	0.79	239.39	733.93	-2,812.17	3.86	-4.41	4.50	0.21	683,978.46	538,717.59
921.00	0.88	270.20	920.91	-2,625.19	3.21	-6.96	7.03	0.24	683,977.81	538,715.04
1,109.00	0.79	268.45	1,108.89	-2,437.21	3.18	-9.70	9.76	0.05	683,977.78	538,712.30
1,303.00	0.70	271.08	1,302.88	-2,243.22	3.16	-12.22	12.28	0.05	683,977.76	538,709.78
1,482.00	0.88	276.69	1,481.86	-2,064.24	3.34	-14.68	14.75	0.11	683,977.94	538,707.32
1,669.00	0.79	278.30	1,668.84	-1,877.26	3.70	-17.38	17.46	0.05	683,978.30	538,704.62
1,856.00	0.62	266.46	1,855.83	-1,690.27	3.82	-19.66	19.74	0.12	683,978.42	538,702.34
2,043.00	0.88	279.24	2,042.81	-1,503.29	3.99	-22.09	22.17	0.16	683,978.59	538,699.91
2,231.00	0.62	293.43	2,230.79	-1,315.31	4.63	-24.45	24.55	0.17	683,979.23	538,697.55
2,418.00	0.70	308.75	2,417.78	-1,128.32	5.74	-26.27	26.39	0.10	683,980.34	538,695.73
2,605.00	0.70	319.34	2,604.77	-941.33	7.32	-27.90	28.06	0.07	683,981.92	538,694.10
2,789.00	0.79	322.05	2,788.75	-757.35	9.18	-29.42	29.61	0.05	683,983.78	538,692.58
2,976.00	1.06	303.75	2,975.73	-570.37	11.16	-31.65	31.89	0.21	683,985.76	538,690.35
3,164.00	1.23	293.11	3,163.69	-382.41	12.91	-34.95	35.23	0.14	683,987.51	538,687.05
3,350.00	0.88	292.68	3,349.66	-196.44	14.25	-38.10	38.41	0.19	683,988.85	538,683.90
3,536.00	1.14	295.91	3,535.63	-10.47	15.61	-41.08	41.42	0.14	683,990.21	538,680.92

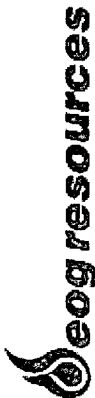
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WELL @ 3546.10ft (19' KB Correction)
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Minimum Curvature
Midland Database

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)
3,724.00	1.32	289.31	3,723.59	177.49	17.14	-44.81	45.18	0.12	683,991.74	538,677.19
3,911.00	1.49	285.25	3,910.53	364.43	18.49	-49.19	49.59	0.11	683,993.09	538,672.81
4,005.00	1.41	275.51	4,004.50	458.40	18.92	-51.52	51.93	0.28	683,993.52	538,670.48
4,099.00	1.58	285.31	4,098.47	552.37	19.38	-53.92	54.34	0.33	683,993.98	538,668.08
4,193.00	1.23	292.01	4,192.44	646.34	20.10	-56.10	56.54	0.41	683,994.70	538,665.90
4,286.00	1.41	273.02	4,285.42	739.32	20.53	-58.17	58.62	0.51	683,995.13	538,663.83
4,380.00	1.49	278.13	4,379.39	833.29	20.77	-60.54	60.99	0.16	683,995.37	538,661.46
4,473.00	1.14	281.63	4,472.36	926.26	21.12	-62.64	63.10	0.39	683,995.72	538,659.36
4,660.00	1.32	273.11	4,659.32	1,113.22	21.62	-66.61	67.08	0.14	683,996.22	538,655.39
4,845.00	1.41	278.57	4,844.27	1,298.17	22.07	-70.99	71.47	0.09	683,996.67	538,651.01
5,033.00	1.23	270.04	5,032.22	1,486.12	22.42	-75.30	75.78	0.14	683,997.02	538,646.70
5,209.00	0.70	256.96	5,208.19	1,662.09	22.18	-78.23	78.71	0.32	683,996.78	538,643.77
5,397.00	0.26	217.63	5,396.18	1,850.08	21.58	-79.61	80.07	0.28	683,996.18	538,642.39
5,585.00	0.18	110.44	5,584.18	2,038.08	21.14	-79.60	80.05	0.19	683,995.74	538,642.40
5,722.00	0.62	98.14	5,721.18	2,175.08	20.96	-78.66	79.11	0.33	683,995.56	538,643.34
5,776.00	0.62	98.14	5,775.18	2,229.08	20.87	-78.08	78.53	0.00	683,995.47	538,643.92
Start 217.40 hold at 5776.00 MD										
5,800.00	0.62	98.14	5,799.18	2,253.08	20.84	-77.83	78.27	0.00	683,995.44	538,644.17
5,900.00	0.62	98.14	5,899.17	2,353.07	20.68	-76.75	77.20	0.00	683,995.28	538,645.25
5,993.40	0.62	98.14	5,992.56	2,446.46	20.54	-75.75	76.19	0.00	683,995.14	538,646.25
KOP-5993.40°MD, 0.62°INC, 98.14°AZI, 5992.56°TVD										
6,000.00	0.19	247.63	5,999.16	2,453.06	20.53	-75.73	76.17	12.00	683,995.13	538,646.27
6,025.00	3.18	269.67	6,024.15	2,478.05	20.51	-76.46	76.90	12.00	683,995.11	538,645.54
6,050.00	6.18	270.34	6,049.06	2,502.96	20.52	-78.50	78.94	12.00	683,995.12	538,643.50
6,075.00	9.18	270.57	6,073.84	2,527.74	20.54	-81.84	82.28	12.00	683,995.14	538,640.16
6,100.00	12.18	270.69	6,098.40	2,552.30	20.60	-86.47	86.91	12.00	683,995.20	538,635.53
6,125.00	15.18	270.77	6,122.69	2,576.59	20.67	-92.38	92.82	12.00	683,995.27	538,629.62



Pathfinder

Pathfinder X & Y Planning Report

PATHFINDER
A Schlumberger Company

Company: EOG Resources, Inc.
Project: Eddy County
Site: Lucky Wolf 31 Fed Com
Well: #2H
Wellbore: OH
Design: Plan #3

Local Co-ordinate Reference:
TVD Reference:
MD Reference:
North Reference:
Survey Calculation Method:
Database:

Well #2H
WELL @ 3546.10ft (19' KB Correction)
WELL @ 3546.10ft (19' KB Correction)
Grid
Minimum Curvature
Midland Database

Planned Survey

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6,150.00	18.18	270.81	6,146.64	2,600.54	20.77	-99.55	99.99	12.00	683,995.37	538,622.45
6,175.00	21.18	270.85	6,170.17	2,624.07	20.89	-107.97	108.41	12.00	683,995.49	538,614.03
6,200.00	24.18	270.88	6,193.24	2,647.14	21.04	-117.60	118.04	12.00	683,995.64	538,604.40
6,225.00	27.18	270.90	6,215.77	2,669.67	21.21	-128.43	128.87	12.00	683,995.81	538,593.57
6,250.00	30.18	270.92	6,237.70	2,691.60	21.40	-140.43	140.87	12.00	683,996.00	538,581.57
6,275.00	33.18	270.93	6,258.97	2,712.87	21.61	-153.55	154.00	12.00	683,996.21	538,568.45
6,300.00	36.18	270.94	6,279.53	2,733.43	21.84	-167.77	168.22	12.00	683,996.44	538,554.23
6,325.00	39.18	270.95	6,299.31	2,753.21	22.09	-183.05	183.49	12.00	683,996.69	538,538.95
6,350.00	42.18	270.96	6,318.27	2,772.17	22.37	-199.34	199.79	12.00	683,996.97	538,522.66
6,375.00	45.18	270.97	6,336.35	2,790.25	22.66	-216.60	217.05	12.00	683,997.26	538,505.40
6,400.00	48.18	270.98	6,353.50	2,807.40	22.97	-234.78	235.23	12.00	683,997.57	538,487.22
6,425.00	51.18	270.99	6,369.68	2,823.58	23.29	-253.84	254.29	12.00	683,997.89	538,468.16
6,450.00	54.18	270.99	6,384.83	2,838.73	23.64	-273.71	274.17	12.00	683,998.24	538,448.29
6,475.00	57.18	271.00	6,398.93	2,852.83	24.00	-294.35	294.81	12.00	683,998.60	538,427.65
6,500.00	60.18	271.00	6,411.92	2,865.82	24.37	-315.70	316.17	12.00	683,998.97	538,406.30
6,525.00	63.18	271.01	6,423.79	2,877.69	24.76	-337.70	338.17	12.00	683,999.36	538,384.30
6,550.00	66.18	271.01	6,434.48	2,888.38	25.16	-360.29	360.77	12.00	683,999.76	538,361.71
6,575.00	69.18	271.02	6,443.97	2,897.87	25.57	-383.41	383.89	12.00	684,000.17	538,338.59
6,600.00	72.18	271.02	6,452.24	2,906.14	25.99	-407.00	407.48	12.00	684,000.59	538,315.00
6,625.00	75.18	271.03	6,459.27	2,913.17	26.42	-430.99	431.47	12.00	684,001.02	538,291.01
6,650.00	78.18	271.03	6,465.03	2,918.93	26.85	-455.31	455.79	12.00	684,001.45	538,266.69
6,675.00	81.18	271.04	6,469.51	2,923.41	27.30	-479.89	480.38	12.00	684,001.90	538,242.11
6,700.00	84.18	271.04	6,472.70	2,926.60	27.75	-504.68	505.18	12.00	684,002.35	538,217.32
6,725.00	87.18	271.04	6,474.58	2,928.48	28.20	-529.60	530.10	12.00	684,002.80	538,192.40
6,750.00	90.18	271.05	6,475.16	2,929.06	28.66	-554.59	555.09	12.00	684,003.26	538,167.41
6,761.04	91.50	271.05	6,475.00	2,928.90	28.86	-565.63	566.13	12.00	684,003.46	538,156.37

EOG-6761.04°MD,91.50°INC,271.05°AZI,6475.00°TVD,12.00°DLS, 566.13°VS, 28.86°N, -565.63°E

Company: EOG Resources, Inc.
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Wellbore: OH
Design: Plan #3

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Well #2H

Planned Survey

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6,800.00	91.50	271.05	6,473.98	2,927.88	29.57	-604.57	605.08	0.00	684,004.17	538,117.43
6,900.00	91.50	271.05	6,471.36	2,925.26	31.40	-704.52	705.04	0.00	684,006.00	538,017.48
7,000.00	91.50	271.05	6,468.74	2,922.64	33.24	-804.47	805.01	0.00	684,007.84	537,917.53
7,100.00	91.50	271.05	6,466.13	2,920.03	35.07	-904.41	904.97	0.00	684,009.67	537,817.59
7,200.00	91.50	271.05	6,463.51	2,917.41	36.90	-1,004.36	1,004.94	0.00	684,011.50	537,717.64
7,300.00	91.50	271.05	6,460.89	2,914.79	38.73	-1,104.31	1,104.90	0.00	684,013.33	537,617.69
7,400.00	91.50	271.05	6,458.27	2,912.17	40.56	-1,204.26	1,204.87	0.00	684,015.16	537,517.74
7,500.00	91.50	271.05	6,455.66	2,909.56	42.39	-1,304.21	1,304.83	0.00	684,016.99	537,417.79
7,600.00	91.50	271.05	6,453.04	2,906.94	44.23	-1,404.16	1,404.80	0.00	684,018.83	537,317.84
7,700.00	91.50	271.05	6,450.42	2,904.32	46.06	-1,504.11	1,504.76	0.00	684,020.66	537,217.89
7,800.00	91.50	271.05	6,447.80	2,901.70	47.89	-1,604.06	1,604.73	0.00	684,022.49	537,117.94
7,900.00	91.50	271.05	6,445.19	2,899.09	49.72	-1,704.01	1,704.69	0.00	684,024.32	537,017.99
8,000.00	91.50	271.05	6,442.57	2,896.47	51.55	-1,803.96	1,804.66	0.00	684,026.15	536,918.04
8,100.00	91.50	271.05	6,439.95	2,893.85	53.39	-1,903.90	1,904.62	0.00	684,027.99	536,818.10
8,200.00	91.50	271.05	6,437.33	2,891.23	55.22	-2,003.85	2,004.59	0.00	684,029.82	536,718.15
8,300.00	91.50	271.05	6,434.71	2,888.61	57.05	-2,103.80	2,104.55	0.00	684,031.65	536,618.20
8,400.00	91.50	271.05	6,432.10	2,886.00	58.88	-2,203.75	2,204.52	0.00	684,033.48	536,518.25
8,500.00	91.50	271.05	6,429.48	2,883.38	60.71	-2,303.70	2,304.48	0.00	684,035.31	536,418.30
8,600.00	91.50	271.05	6,426.86	2,880.76	62.55	-2,403.65	2,404.45	0.00	684,037.15	536,318.35
8,700.00	91.50	271.05	6,424.24	2,878.14	64.38	-2,503.60	2,504.41	0.00	684,038.98	536,218.40
8,800.00	91.50	271.05	6,421.63	2,875.53	66.21	-2,603.55	2,604.38	0.00	684,040.81	536,118.45
8,900.00	91.50	271.05	6,419.01	2,872.91	68.04	-2,703.50	2,704.34	0.00	684,042.64	536,018.50
9,000.00	91.50	271.05	6,416.39	2,870.29	69.87	-2,803.44	2,804.31	0.00	684,044.47	535,918.56
9,100.00	91.50	271.05	6,413.77	2,867.67	71.70	-2,903.39	2,904.27	0.00	684,046.30	535,818.61
9,200.00	91.50	271.05	6,411.16	2,865.06	73.54	-3,003.34	3,004.24	0.00	684,048.14	535,718.66
9,300.00	91.50	271.05	6,408.54	2,862.44	75.37	-3,103.29	3,104.20	0.00	684,049.97	535,618.71
9,400.00	91.50	271.05	6,405.92	2,859.82	77.20	-3,203.24	3,204.17	0.00	684,051.80	535,518.76



Pathfinder

Pathfinder X & Y Planning Report



Company: EOG Resources, Inc.
Project: Eddy County
Site: Lucky Wolf 31 Fed Com
Well: #2H
Wellbore: OH
Design: Plan #3

Local Co-ordinate Reference:
TVD Reference: WELL @ 3546.10ft (19' KB Correction)
MD Reference: WELL @ 3546.10ft (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)	EW (ft)	V. Sec (ft)	DLeg (°/100ft)	Northing (ft)	Easting (ft)
9,500.00	91.50	271.05	6,403.30	2,857.20	79.03	-3,303.19	3,304.13	0.00	684,053.63	535,418.81
9,600.00	91.50	271.05	6,400.68	2,854.58	80.86	-3,403.14	3,404.10	0.00	684,055.46	535,318.86
9,700.00	91.50	271.05	6,398.07	2,851.97	82.70	-3,503.09	3,504.06	0.00	684,057.30	535,218.91
9,800.00	91.50	271.05	6,395.45	2,849.35	84.53	-3,603.04	3,604.03	0.00	684,059.13	535,118.96
9,900.00	91.50	271.05	6,392.83	2,846.73	86.36	-3,702.99	3,703.99	0.00	684,060.96	535,019.01
10,000.00	91.50	271.05	6,390.21	2,844.11	88.19	-3,802.93	3,803.96	0.00	684,062.79	534,919.07
10,100.00	91.50	271.05	6,387.60	2,841.50	90.02	-3,902.88	3,903.92	0.00	684,064.62	534,819.12
10,200.00	91.50	271.05	6,384.98	2,838.88	91.85	-4,002.83	4,003.88	0.00	684,066.45	534,719.17
10,300.00	91.50	271.05	6,382.36	2,836.26	93.69	-4,102.78	4,103.85	0.00	684,068.29	534,619.22
10,400.00	91.50	271.05	6,379.74	2,833.64	95.52	-4,202.73	4,203.81	0.00	684,070.12	534,519.27
10,500.00	91.50	271.05	6,377.13	2,831.03	97.35	-4,302.68	4,303.78	0.00	684,071.95	534,419.32
10,522.39	91.50	271.05	6,376.54	2,830.44	97.76	-4,325.06	4,326.16	0.00	684,072.36	534,396.94
MWJdogCanyon#31E										
10,600.00	91.50	271.05	6,374.51	2,828.41	99.18	-4,402.63	4,403.74	0.00	684,073.78	534,319.37
10,700.00	91.50	271.05	6,371.89	2,825.79	101.01	-4,502.58	4,503.71	0.00	684,075.61	534,219.42
10,800.00	91.50	271.05	6,369.27	2,823.17	102.85	-4,602.53	4,603.67	0.00	684,077.45	534,119.47
10,852.87	91.50	271.05	6,367.89	2,821.79	103.81	-4,655.37	4,656.53	0.00	684,078.41	534,066.63
PBHL(#2HLW#31)										
10,854.57	91.50	271.05	6,367.84	2,821.74	103.85	-4,657.07	4,658.23	0.00	684,078.45	534,064.93
PBHL(#2HLW#31)new										



Pathfinder
Pathfinder X & Y Planning Report



Company: EOG Resources, Inc.
Project: Eddy County
Site: Lucky Wolf 31 Fed Com
Well: #2H
Wellbore: OH
Design: Plan #3

Well #2H

Local Co-ordinate Reference:
TVD Reference:
MD Reference:
North Reference:
Survey Calculation Method:
Database:

WELL @ 3546.10ft (19' KB Correction)
WELL @ 3546.10ft (19' KB Correction)
Grid
Minimum Curvature
Midland Database

Targets

Target Name
- hit/miss target
- Shape

	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
PBHL(#2HLW#31)nev - plan misses target center by 107.34ft at 10854.57ft MD (6367.84 TVD, 103.85 N, -4657.07 E) - Point	0.00	0.00	6,475.00	104.10	-4,663.30	684,078.700	534,058.700	32° 52' 50.032 N	104° 13' 20.609 W
MWJdogCanyon#31E - plan misses target center by 300.06ft at 10522.39ft MD (6376.54 TVD, 97.76 N, -4325.06 E) - Point	0.00	0.00	6,500.00	-175.60	-4,333.30	683,799.000	534,388.700	32° 52' 47.261 N	104° 13' 16.743 W

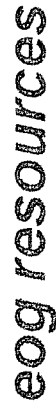
Plan Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates +N/-S (ft)	+E/-W (ft)	Comment
5,776.00	5,775.18	20.87	-78.08	Start 217.40 hold at 5776.00 MD
5,993.40	5,992.56	20.54	-75.75	KOP-5993.40*MD,0.62*INC,98.14*AZI,5992.56*TVD
6,761.04	6,475.00	28.86	-565.63	EOC-6761.04*MD,91.50*INC,271.05*AZI,6475.00*TVD,12.00*DLS, 566
10,871.36				TD at 10871.36

Checked By: _____

Approved By: _____

Date: _____



Azimuths to Grid North
 True North: -0.07°
 Magnetic North: 8.05°

Magnetic Field
 Strength: 49139.8snT
 Dip Angle: 60.74°
 Date: 09/25/2009
 Model: GRF200510

PATHFINDER
A Schlumberger Company

Sec	MD	Inc	Asl	TVD	SECTION DETAILS					VSec	Target
					Dleg	Dleg	Dleg	Dleg	TFace		
1	5776.00	0.62	98.14	5992.58	20.97	-71.08	0.00	0.00	78.93		
2	5993.40	0.62	98.14	5775.16	20.94	-74.75	0.00	0.00	76.19		
3	6761.04	91.50	271.05	6475.00	28.86	-565.63	12.00	172.91	566.13		
4	10854.57	91.50	271.05	6367.84	103.95	-4657.07	0.00	0.00	4658.23	PBHL#2HLW#31	

WELL DETAILS: #2H

Ground Elevation.: 3527.10
RKB Elevation: WELL @ 3546.10ft (19' KB Correction)
Rig Name: 19' KB Correction

Latitude	Longitude	Slot
48.950 N	104° 12' 25.926 W	

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Shape	Easting	Shape
Point	534058.700	Point
Point	534388.700	Point

Name
BHL(#2HLW#31)new
MWJdogCanvopn#31E

LEGEND

* Plan #3

PROJECT DETAILS: Eddy County
Geodetic System: US State Plane 1927 (Exac! solution)
Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1866
Zone: New Mexico East 3001
System Datum: Mean Sea Level
Local North: Grid

Plan: Plan #3 (H/C/H/C/H)

Created By: Nate Bingham Date: 16:59, October 11 2010

Vertical Section at 271.28° (200 ft/in)