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MAR 11 2020

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

State of New Mexico
ENERGY AND 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
AS DRILLED

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-015-45661		² Pool Code 96718	³ Pool Name Loco Hills; Glorieta-Yeso
⁴ Property Code 324919	⁵ Property Name KIRK FEDERAL COM		⁶ Well Number 2H
⁷ GRID No. 7377	⁸ Operator Name EOG RESOURCES, INC.		⁹ Elevation 3745'

¹⁰Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
E	12	17-S	30-E	-	2049	NORTH	572	WEST	EDDY

¹¹Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
H	12	17-S	30-E	-	1307	NORTH	111	EAST	EDDY

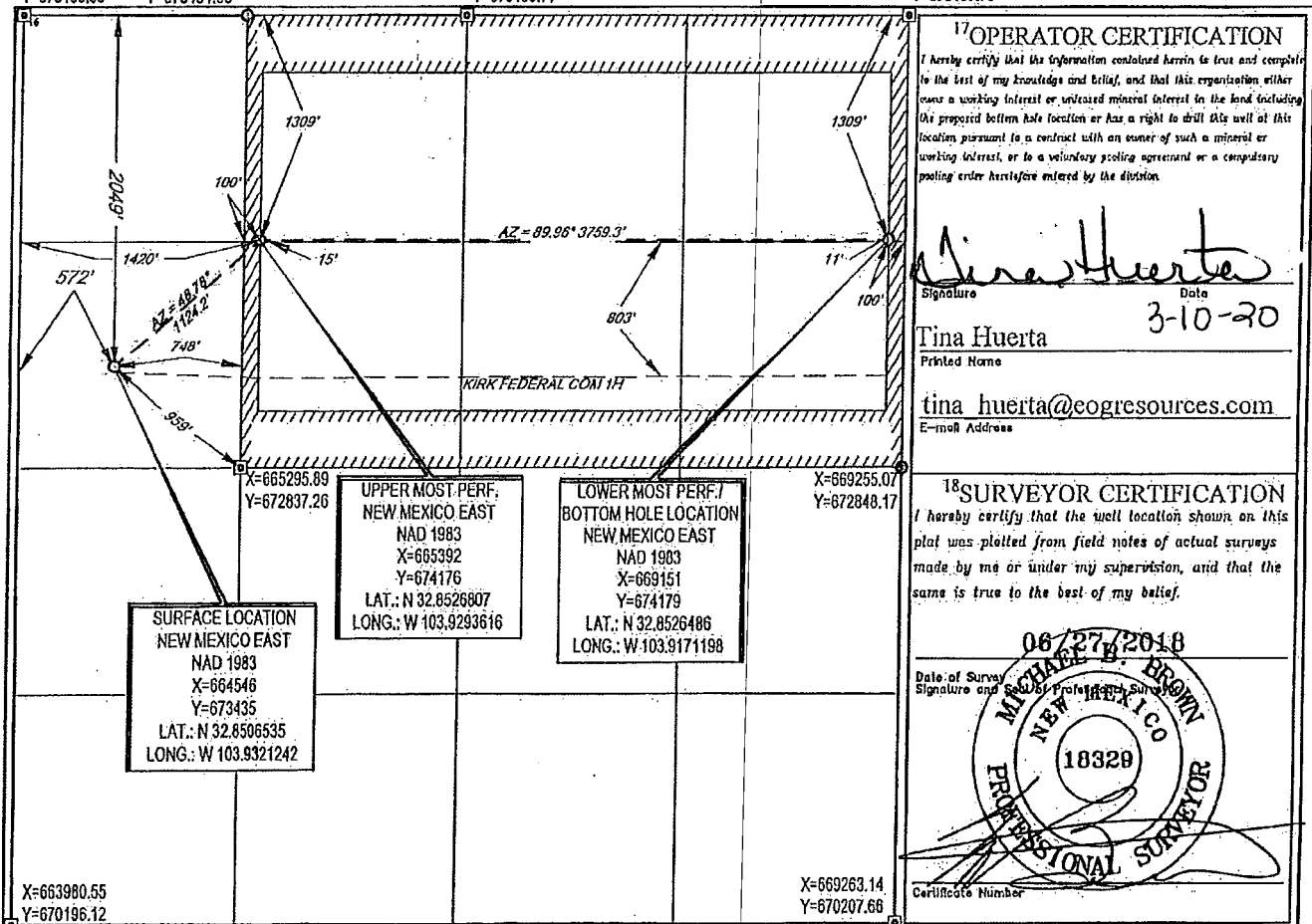
¹² Dedicated Acres 240	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

X=663967.58 Y=675483.58
X=665287.42 Y=675484.68

X=666607.25 Y=675485.77

X=669246.89 Y=675487.75



¹⁷OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Tina Huerta
Signature Date
3-10-20

Tina Huerta
Printed Name

tina.huerta@egoresources.com
E-mail Address

¹⁸SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true to the best of my belief.

06/27/2018
Date of Survey

Michael B. Brown
Signature and Seal of Professional Surveyor
NEW MEXICO
18329
PROFESSIONAL SURVEYOR

Certificate Number



MWD Survey Certification

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MAR 05 2020

EMNRD-OCDARTESIA

Eddy County, NM

Client: EOG Resources

Well Name: Kirk Federal Com #2H

Intrepid Job No: ID2156

API No: 30-015-45661

Start Depth: 408' MD

End Depth: 9,250' MD

Start Date: 3/18/2019

End Date: 3/26/2019

I, Timothy Spann, certify that; I am employed by Intrepid Directional Drilling Specialists. On 3/18/2019 through 3/26/2019, we conducted or supervised the taking of the MWD surveys from a measured depth of 408 feet to a measured depth of 9,250 feet. The data is true, correct, and complete and within the limitation of the tool as set forth by Intrepid Directional Drilling Specialists. I am authorized and qualified to make this report and these surveys were conducted at the request of EOG Resources for the well Kirk Federal Com #2H, API no: 30-015-45661 in Eddy County, NM. I have reviewed this report and find that it conforms to the principals and procedures as set forth by Intrepid Directional Drilling Specialists.

Tim Spann

Tim Spann

MWD Coordinator

Intrepid Directional Drilling Specialists



EOG Resources - Midland

**Eddy County, NM (NAD 83 NME)
(Kirk) Sec12_T-17-S_R-30-E
Kirk Federal Com #2H**

OWB

Design: AWB

Standard Survey Report

27 March, 2019

The logo for INTREPID, featuring a stylized graphic of three vertical bars of increasing height to the left of the word "INTREPID" in a bold, uppercase sans-serif font.

INTREPID

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well: Kirk Federal Com #2H
Project:	Eddy County, NM (NAD 83 NME)	TVD Reference:	KB @ 3761.5usft (Trinidad 436)
Site:	(Kirk) Sec12 T-17-S R-30-E	MD Reference:	KB @ 3761.5usft (Trinidad 436)
Well:	Kirk Federal Com #2H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	AWB	Database:	EDM 10_13

Project	Eddy County, NM (NAD 83 NME)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site	(Kirk) Sec12 T-17-S R-30-E		
Site Position:		Northing:	673,435.00 usft
From:	Map	Easting:	664,546.00 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 51' 2.353 N
		Longitude:	103° 55' 55.648 W
		Grid Convergence:	0.22 °

Well	Kirk Federal Com #2H		
Well Position	+N/-S	0.0 usft	Northing: 673,435.00 usft
	+E/-W	0.0 usft	Easting: 664,546.00 usft
Position Uncertainty	0.0 usft	Wellhead Elevation:	usft
		Latitude:	32° 51' 2.353 N
		Longitude:	103° 55' 55.648 W
		Ground Level:	3,745.0 usft

Wellbore	OWB		
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Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	03/12/19	6.98	60.55	48,089.05297760

Design	AWB		
Audit Notes:			
Version:	1.0	Phase:	ACTUAL
		Tie On Depth:	0.0

Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	80.82

Survey Program	Date	03/27/19		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
107.5	407.5	Invictus MWD (OWB)	MWD	MWD - Standard
472.0	9,250.0	Intrepid MWD (OWB)	MWD	MWD - Standard

Survey	Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
	0.0	0.00	0.00	0.0	0.0		0.0	0.0	0.00	0.00
	107.5	0.30	123.81	107.5	-0.2		0.2	0.2	0.28	0.00
	120.5	0.30	125.81	120.5	-0.2		0.3	0.3	0.08	15.38
	153.5	0.50	115.81	153.5	-0.3		0.5	0.4	0.64	-30.30
	183.5	0.50	104.81	183.5	-0.4		0.7	0.7	0.32	-36.67
	215.5	0.50	154.81	215.5	-0.6		0.9	0.8	1.32	156.25
	246.5	0.40	115.81	246.5	-0.7		1.1	1.0	1.02	-125.81
	277.5	0.50	117.81	277.5	-0.8		1.3	1.1	0.33	6.45
	340.5	0.70	184.81	340.5	-1.4		1.5	1.3	1.08	106.35
	407.5	0.50	264.81	407.5	-1.8		1.2	0.9	1.17	119.40

Company:	EOG Resources - Midland	Local Co-ordinate	Reference:	Well Kirk Federal Com #2H
Project:	Eddy County NM (NAD 83 NME)	TVD Reference:		KB @ 3761.5usft (Trinidad 436)
Site:	(Kirk) Sec12 T-17 S-R-30-E	MD Reference:		KB @ 3761.5usft (Trinidad 436)
Well:	Kirk Federal Com #2H	North Reference:		Grid
Wellbore:	OWB	Survey Calculation	Method:	Minimum Curvature
Design:	AWB	Database:		EDM 10-13

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
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TIE ON

472.0	1.14	264.89	472.0	-1.9	0.3	0.0	0.99	0.99	0.12
660.0	1.63	259.89	659.9	-2.5	-4.2	-4.6	0.27	0.26	-2.66
840.0	1.01	266.56	839.9	-3.1	-8.3	-8.7	0.35	-0.34	3.71
1,028.0	0.75	292.93	1,027.9	-2.7	-11.1	-11.4	0.25	-0.14	14.03
1,217.0	0.09	195.99	1,216.9	-2.3	-12.3	-12.5	0.41	-0.35	-51.29
1,406.0	0.35	107.39	1,405.8	-2.6	-11.8	-12.1	0.19	0.14	-46.88
1,595.0	0.09	221.92	1,594.8	-2.9	-11.3	-11.7	0.21	-0.14	60.60
1,783.0	0.35	170.15	1,782.8	-3.6	-11.3	-11.8	0.16	0.14	-27.54
1,972.0	0.40	228.86	1,971.8	-4.6	-11.7	-12.3	0.20	0.03	31.06
2,161.0	0.22	207.85	2,160.8	-5.4	-12.4	-13.1	0.11	-0.10	-11.12
2,350.0	0.13	350.76	2,349.8	-5.5	-12.6	-13.3	0.18	-0.05	75.61
2,539.0	0.31	4.04	2,538.8	-4.7	-12.6	-13.2	0.10	0.10	7.03
2,602.0	0.22	1.87	2,601.8	-4.5	-12.6	-13.1	0.14	-0.14	-3.44
2,665.0	0.44	320.88	2,664.8	-4.2	-12.7	-13.2	0.49	0.35	-65.06
2,728.0	0.40	344.88	2,727.8	-3.8	-12.9	-13.4	0.28	-0.06	38.10
2,791.0	0.79	13.00	2,790.8	-3.1	-12.9	-13.2	0.76	0.62	44.63
2,855.0	1.36	18.71	2,854.8	-2.0	-12.6	-12.7	0.91	0.89	8.92
2,917.0	2.42	15.29	2,916.8	0.0	-12.0	-11.8	1.72	1.71	-5.52
2,980.0	3.25	23.46	2,979.7	2.9	-10.9	-10.3	1.46	1.32	12.97
3,043.0	3.12	21.88	3,042.6	6.1	-9.6	-8.5	0.25	-0.21	-2.51
3,106.0	3.16	21.09	3,105.5	9.4	-8.3	-6.7	0.09	0.06	-1.25
3,169.0	2.95	22.76	3,168.4	12.5	-7.1	-5.0	0.36	-0.33	2.65
3,231.0	2.86	21.97	3,230.3	15.4	-5.9	-3.3	0.16	-0.15	-1.27
3,294.0	2.68	17.13	3,293.3	18.2	-4.8	-1.9	0.47	-0.29	-7.68
3,357.0	2.81	20.30	3,356.2	21.1	-3.9	-0.5	0.32	0.21	5.03
3,441.0	2.59	24.16	3,440.1	24.8	-2.4	1.6	0.34	-0.26	4.60
3,566.0	2.24	23.90	3,565.0	29.6	-0.2	4.5	0.28	-0.28	-0.21
3,629.0	3.78	26.01	3,627.9	32.6	1.2	6.4	2.45	2.44	3.35
3,660.0	6.95	32.42	3,658.8	35.1	2.6	8.2	10.39	10.23	20.68
3,692.0	9.32	33.30	3,690.4	38.9	5.1	11.2	7.42	7.41	2.75
3,723.0	11.69	34.97	3,720.9	43.5	8.3	15.1	7.71	7.65	5.39
3,755.0	13.45	31.90	3,752.2	49.4	12.1	19.8	5.88	5.50	-9.59
3,786.0	15.21	26.18	3,782.2	56.1	15.8	24.5	7.28	5.68	-18.45
3,817.0	16.97	19.68	3,812.0	64.0	19.1	29.1	8.12	5.68	-20.97
3,848.0	19.65	14.93	3,841.4	73.3	22.0	33.4	9.89	8.65	-15.32
3,880.0	22.77	12.65	3,871.2	84.5	24.7	37.9	10.08	9.75	-7.13
3,943.0	29.32	12.12	3,927.8	111.5	30.6	48.0	10.40	10.40	-0.84
4,006.0	33.98	14.93	3,981.4	143.6	38.4	60.8	7.76	7.40	4.46
4,069.0	38.55	16.08	4,032.2	179.5	48.4	76.4	7.33	7.25	1.83
4,132.0	43.87	16.60	4,079.6	219.3	60.1	94.3	8.46	8.44	0.83
4,194.0	48.66	16.69	4,122.4	262.2	72.9	113.8	7.73	7.73	0.15
4,257.0	52.57	15.99	4,162.4	309.0	86.6	134.8	6.27	6.21	-1.11

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well Kirk Federal Com #2H
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Site:	(Kirk) Sec12 T-17-S-R-30-E	MD Reference:	KB @ 3761.5usft (Trinidad 436)
Well:	Kirk Federal Com #2H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	AWB	Database:	EDM 10-13

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
4,320.0	53.67	16.16	4,200.2	357.4	100.6	156.3	1.76	1.75	0.27	
4,383.0	54.42	16.25	4,237.2	406.4	114.8	178.1	1.20	1.19	0.14	
4,446.0	54.20	17.31	4,274.0	455.3	129.6	200.5	1.41	-0.35	1.68	
4,509.0	51.34	23.02	4,312.1	502.4	146.8	225.0	8.52	-4.54	9.06	
4,571.0	47.74	27.85	4,352.3	545.0	167.0	251.8	8.29	-5.81	7.79	
4,634.0	45.45	31.02	4,395.6	584.9	189.5	280.3	5.15	-3.63	5.03	
4,697.0	44.35	38.40	4,440.3	621.4	214.7	311.1	8.45	-1.75	11.71	
4,760.0	43.96	47.63	4,485.5	653.4	244.6	345.7	10.22	-0.62	14.65	
4,823.0	45.10	56.42	4,530.5	680.5	279.4	384.3	9.95	1.81	13.95	
4,886.0	45.14	65.38	4,575.0	702.2	318.3	426.2	10.07	0.06	14.22	
4,948.0	46.81	72.94	4,618.1	718.0	359.9	469.8	9.17	2.69	12.19	
5,011.0	50.07	79.36	4,659.9	729.2	405.6	516.7	9.21	5.17	10.19	
5,074.0	54.51	85.77	4,698.5	735.5	455.0	566.5	10.69	7.05	10.17	
5,137.0	58.55	90.61	4,733.2	737.2	507.5	618.6	9.06	6.41	7.68	
5,200.0	60.66	91.40	4,765.1	736.2	561.8	672.1	3.52	3.35	1.25	
5,263.0	64.53	92.63	4,794.1	734.2	617.7	726.9	6.38	6.14	1.95	
5,326.0	71.34	93.77	4,817.7	730.9	676.0	783.9	10.94	10.81	1.81	
5,390.0	79.25	92.98	4,834.0	727.3	737.7	844.3	12.42	12.36	-1.23	
5,452.0	87.52	92.37	4,841.1	724.4	799.2	904.5	13.37	13.34	-0.98	
5,498.5	89.30	92.56	4,842.4	722.4	845.6	950.0	3.85	3.83	0.41	
FTP @ 5498.5 MD 100' FWL 1327' FNL										
5,515.0	89.93	92.63	4,842.5	721.7	862.1	966.2	3.85	3.83	0.41	
5,578.0	90.64	89.82	4,842.2	720.4	925.1	1,028.1	4.60	1.13	-4.46	
5,641.0	90.77	87.27	4,841.4	722.0	988.1	1,090.6	4.05	0.21	-4.05	
5,704.0	91.60	86.83	4,840.1	725.2	1,051.0	1,153.2	1.49	1.32	-0.70	
5,767.0	90.99	87.18	4,838.7	728.5	1,113.9	1,215.8	1.12	-0.97	0.56	
5,830.0	90.11	87.09	4,838.1	731.6	1,176.8	1,278.4	1.40	-1.40	-0.14	
5,893.0	89.85	85.86	4,838.1	735.5	1,239.7	1,341.1	2.00	-0.41	-1.95	
5,956.0	88.88	85.95	4,838.8	740.0	1,302.5	1,403.8	1.55	-1.54	0.14	
6,019.0	88.13	87.18	4,840.5	743.8	1,365.3	1,466.5	2.29	-1.19	1.95	
6,082.0	88.88	87.71	4,842.1	746.6	1,428.3	1,529.1	1.46	1.19	0.84	
6,145.0	87.21	89.38	4,844.2	748.2	1,491.2	1,591.4	3.75	-2.65	2.65	
6,208.0	88.18	89.11	4,846.8	749.0	1,554.1	1,653.7	1.60	1.54	-0.43	
6,271.0	89.23	88.85	4,848.2	750.1	1,617.1	1,716.1	1.72	1.67	-0.41	
6,334.0	90.42	88.67	4,848.4	751.5	1,680.1	1,778.5	1.91	1.89	-0.29	
6,397.0	91.25	88.85	4,847.5	752.9	1,743.1	1,840.8	1.35	1.32	0.29	
6,459.0	90.68	89.99	4,846.4	753.5	1,805.1	1,902.1	2.06	-0.92	1.84	
6,522.0	91.03	90.78	4,845.5	753.1	1,868.1	1,964.3	1.37	0.56	1.25	
6,585.0	88.84	91.66	4,845.6	751.7	1,931.0	2,026.2	3.75	-3.48	1.40	
6,648.0	89.63	91.75	4,846.4	749.9	1,994.0	2,088.1	1.26	1.25	0.14	
6,711.0	88.35	91.84	4,847.5	747.9	2,057.0	2,149.9	2.04	-2.03	0.14	
6,773.0	88.00	90.96	4,849.5	746.4	2,118.9	2,210.8	1.53	-0.56	-1.42	
6,837.0	89.27	90.87	4,851.0	745.3	2,182.9	2,273.8	1.99	1.98	-0.14	
6,900.0	90.07	91.14	4,851.4	744.2	2,245.9	2,335.8	1.34	1.27	0.43	

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well Kirk Federal Com #2H
Project:	Eddy County, NM (NAD 83 NME)	TVD Reference:	KB @ 3761.5usft (Trinidad 436)
Site:	(Kirk) Sec12 T-17 S- R-30-E	MD Reference:	KB @ 3761.5usft (Trinidad 436)
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Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	AWB	Database:	EDM 10_13

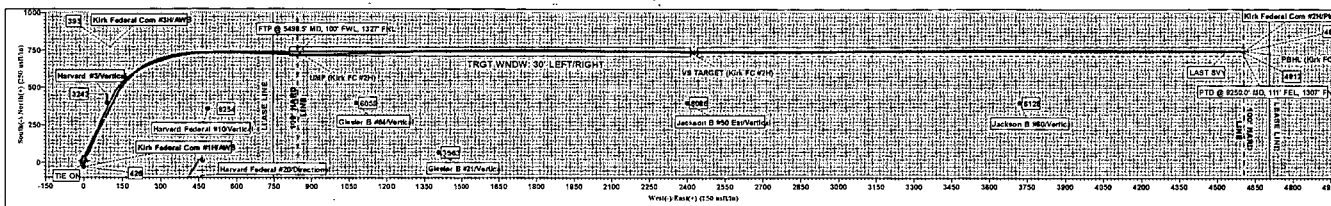
Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
6,963.0	88.18	91.49	4,852.3	742.8	2,308.8	2,397.8	3.05	-3.00	0.56	
7,026.0	89.23	91.49	4,853.8	741.2	2,371.8	2,459.7	1.67	1.67	0.00	
7,088.0	90.15	91.66	4,854.1	739.4	2,433.8	2,520.6	1.51	1.48	0.27	
7,151.0	88.84	91.05	4,854.7	738.0	2,496.8	2,582.5	2.29	-2.08	-0.97	
7,214.0	89.89	90.96	4,855.4	736.9	2,559.7	2,644.5	1.67	1.67	-0.14	
7,277.0	89.49	89.82	4,855.7	736.4	2,622.7	2,706.6	1.92	-0.63	-1.81	
7,340.0	90.24	90.08	4,855.8	736.5	2,685.7	2,768.8	1.26	1.19	0.41	
7,403.0	88.79	89.20	4,856.4	736.9	2,748.7	2,831.1	2.69	-2.30	-1.40	
7,466.0	90.20	89.38	4,856.9	737.7	2,811.7	2,893.4	2.26	2.24	0.29	
7,529.0	91.03	89.64	4,856.3	738.2	2,874.7	2,955.7	1.38	1.32	0.41	
7,592.0	88.84	88.50	4,856.3	739.2	2,937.7	3,018.0	3.92	-3.48	-1.81	
7,656.0	89.49	88.23	4,857.3	741.0	3,001.7	3,081.4	1.10	1.02	-0.42	
7,719.0	89.98	88.41	4,857.5	742.9	3,064.6	3,143.9	0.83	0.78	0.29	
7,782.0	87.38	88.50	4,859.0	744.6	3,127.6	3,206.3	4.13	-4.13	0.14	
7,845.0	88.40	88.32	4,861.3	746.3	3,190.5	3,268.7	1.64	1.62	-0.29	
7,907.0	89.27	88.67	4,862.6	748.0	3,252.5	3,330.2	1.51	1.40	0.56	
7,970.0	87.25	89.29	4,864.5	749.1	3,315.5	3,392.5	3.35	-3.21	0.98	
8,033.0	88.62	89.47	4,866.8	749.8	3,378.4	3,454.7	2.19	2.17	0.29	
8,096.0	88.40	89.20	4,868.4	750.5	3,441.4	3,517.0	0.55	-0.35	-0.43	
8,159.0	87.82	88.94	4,870.5	751.5	3,504.3	3,579.3	1.01	-0.92	-0.41	
8,222.0	87.56	89.73	4,873.0	752.3	3,567.3	3,641.6	1.32	-0.41	1.25	
8,285.0	87.60	90.70	4,875.7	752.0	3,630.2	3,703.7	1.54	0.06	1.54	
8,348.0	88.79	90.70	4,877.7	751.2	3,693.2	3,765.7	1.89	1.89	0.00	
8,411.0	90.02	90.70	4,878.3	750.5	3,756.2	3,827.8	1.95	1.95	0.00	
8,490.0	89.67	89.55	4,878.5	750.3	3,835.2	3,905.8	1.52	-0.44	-1.46	
8,553.0	87.78	90.34	4,879.9	750.4	3,898.2	3,967.9	3.25	-3.00	1.25	
8,615.0	86.29	90.61	4,883.1	749.9	3,960.1	4,029.0	2.44	-2.40	0.44	
8,678.0	86.90	90.43	4,886.9	749.3	4,023.0	4,091.0	1.01	0.97	-0.29	
8,741.0	87.65	90.26	4,889.9	748.9	4,085.9	4,153.0	1.22	1.19	-0.27	
8,804.0	88.13	90.34	4,892.2	748.6	4,148.8	4,215.1	0.77	0.76	0.13	
8,867.0	86.46	90.43	4,895.2	748.1	4,211.8	4,277.2	2.65	-2.65	0.14	
8,930.0	87.21	90.70	4,898.6	747.5	4,274.7	4,339.2	1.27	1.19	0.43	
8,993.0	88.00	90.34	4,901.3	747.0	4,337.6	4,401.2	1.38	1.25	-0.57	
9,055.0	88.75	90.26	4,903.0	746.6	4,399.6	4,462.4	1.22	1.21	-0.13	
9,118.0	86.64	90.26	4,905.6	746.3	4,462.5	4,524.4	3.35	-3.35	0.00	
9,181.0	87.38	90.34	4,908.9	746.0	4,525.4	4,586.5	1.18	1.17	0.13	
9,190.0	87.38	90.34	4,909.3	746.0	4,534.4	4,595.4	0.00	0.00	0.00	
LAST SVY										
9,250.0	87.38	90.34	4,912.0	745.6	4,594.4	4,654.5	0.00	0.00	0.00	
PTD @ 9250.0' MD, 111' FEL, 1307' FNL										

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well Kirk Federal Com #2H
Project:	Eddy County, NM (NAD 83 NME)	TVD Reference:	KB @ 3761.5usft (Trinidad 436)
Site:	(Kirk) Sec12, T-17-S, R-30-E	MD Reference:	KB @ 3761.5usft (Trinidad 436)
Well:	Kirk Federal Com #2H	North Reference:	Grid
Wellbore:	OWB	Survey/Calculation Method:	Minimum Curvature
Design:	AWB	Database:	EDM-10-13

Design Targets									
Target Name	- hit/miss target	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude Longitude
VS TARGET (Kirk FC		0.04	270.01	4,848.0	740.8	2,412.7	674,175.81	666,958.74	32° 51' 9.591 N 103° 55' 27.330 W
- actual wellpath misses target center by 6.1usft at 7066.9usft MD (4854.1 TVD, 740.1 N, 2412.7 E)									
- Rectangle (sides W60.0 H1,600.0 D20.0)									
UMP (Kirk FC #2H)		0.00	0.00	4,849.0	741.0	846.0	674,176.00	665,392.00	32° 51' 9.653 N 103° 55' 45.697 W
- actual wellpath misses target center by 19.7usft at 5498.3usft MD (4842.4 TVD, 722.5 N, 845.4 E)									
- Point									
PBHL (Kirk FC #2H)		-0.85	269.92	4,880.0	744.0	4,605.0	674,179.00	669,151.00	32° 51' 9.538 N 103° 55' 1.631 W
- actual wellpath misses target center by 33.8usft at 9250.0usft MD (4912.0 TVD, 745.6 N, 4594.4 E)									
- Rectangle (sides W60.0 H2,165.0 D20.0)									

Design Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
407.5	407.5	-1.8	1.2	TIE ON
5,498.5	4,842.4	722.4	845.6	FTP @ 5498.5' MD, 100' FWL, 1327' FNL
9,190.0	4,909.3	746.0	4,534.4	LAST SVY
9,250.0	4,912.0	745.6	4,594.4	PTD @ 9250.0' MD, 111' FEL, 1307' FNL

Checked By: _____	Approved By: _____	Date: _____
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EOG Resources - Midland
Project: Eddy County, NM (NAD 83 NME)
Site: Kirk Federal Com #2H
Well: Kirk Federal Com #2H
Wellbore: OWB
Design: AWB
Lat: 32° 51' 2.353 N
Long: 103° 55' 55.648 W
Pad GL: 3745.0
KB: KB @ 3761.5ustf (Trinidad 436)

WELL DETAILS: Kirk Federal Com #2H

	North	East	Latitude	Longitude
3745.0				
0.0	673435.00	654546.00	32° 51' 2.353 N	103° 55' 55.648 W

SECTION DETAILS

MD	Inc	Azi	TVD	+N-S	+E-W	Dleg	TFace	Vsect	Annotation
5510.0	2.40	24.03	3508.0	27.5	-1.2	0.00	0.00	4.2	EST SVY: 40.0 hold at 5510.0 MD
3550.0	2.40	24.03	3545.0	28.0	-0.6	0.00	0.00	4.2	KOP: DLS 7.32 TFO -8.89
3610.0	6.77	18.20	3608.0	33.6	1.1	7.32	-8.89	6.5	BLD: DLS 7.00 TFO -3.69
3700.0	12.06	16.41	3697.4	40.3	5.7	7.00	-3.59	13.3	BLD: DLS 7.00 TFO -1.90
3760.0	17.26	15.94	3756.3	63.4	10.0	7.00	-1.90	20.0	BLD: DLS 7.00 TFO -1.45
3820.0	21.46	15.65	3811.9	82.6	16.4	7.00	-1.45	28.4	BLD: DLS 7.00 TFO -1.19
3840.0	23.86	15.35	3820.0	132.6	23.3	7.00	-1.19	60.0	BLD: DLS 7.00 TFO -0.86
4199.8	48.04	14.94	4121.2	289.6	71.6	7.00	-0.86	116.9	HOLD: 214.5 hold at 4199.8 MD
4414.2	48.04	14.94	4264.6	443.7	112.7	0.00	0.00	182.0	BLD: DLS 8.00 TFO 104.88
4834.3	48.04	14.94	4552.4	678.8	295.1	8.00	104.88	399.6	BLD: DLS 8.00 TFO 73.69
6014.3	53.88	77.69	4665.7	727.8	426.8	8.00	73.69	536.1	BLD: DLS 8.06 TFO 62.80
6163.0	60.00	90.00	4747.0	740.6	549.0	8.06	62.80	660.1	HOLD: 76.0 hold at 6163.0 MD
6239.0	60.00	90.00	4785.0	740.6	614.8	9.00	0.00	725.1	BLD: DLS 12.00 TFO -0.01
6489.3	90.04	89.99	4849.0	740.6	853.9	12.00	-0.01	961.1	ECC: 1568.9 hold at 6489.3 MD
7049.1	90.04	89.99	4848.0	740.6	2412.7	0.00	0.00	2500.0	Start DLS 2.00 TFO -174.95
7092.3	89.18	89.92	4848.3	740.6	2456.9	2.00	-174.95	2543.7	Start 2148.3 hold at 7092.3 MD
9240.6	89.15	89.92	4880.0	744.0	4605.0	0.00	0.00	4664.7	TD at 9240.6

DESIGN TARGET DETAILS

Name	TVD	+N-S	+E-W	North	East
VS TARGET (Kirk FC #2H)	4848.0	740.6	2412.7	674175.61	665958.74
UMP (Kirk FC #2H)	4849.0	741.0	846.0	674176.00	665392.00
PBHL (Kirk FC #2H)	4880.0	744.0	4605.0	674179.00	669151.00

