

Submit 1 Copy To Appropriate District Office
District I - (575) 393-6161
1625 N. French Dr., Hobbs, NM 88240
District II - (575) 748-1283
811 S. First St., Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Rd., Aztec, NM 87410
District IV - (505) 476-3460
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources

Form C-103
Revised July 18, 2013

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

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.)		WELL API NO. 30-025-45776
1. Type of Well: Oil Well ☒ Gas Well ☐ Other ☐		5. Indicate Type of Lease STATE ☒ FEE ☐
2. Name of Operator EOG Resources		6. State Oil & Gas Lease No. 321018
3. Address of Operator PO BOX 2267, MIDLAND, TX 79702		7. Lease Name or Unit Agreement Name RED RAIDER 25 STATE COM
4. Well Location Unit Letter P : 214 feet from the SOUTH line and 931 feet from the EAST line Section 25 Township 24S Range 33E NMPM County LEA		8. Well Number 503H
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3504 GL		9. OGRID Number 7377
		10. Pool name or Wildcat 88434J RED HILLS; BONE SPRING, NORTH

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

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
PERFORM REMEDIAL WORK ☐	PLUG AND ABANDON ☐	REMEDIAL WORK ☐	ALTERING CASING ☐
TEMPORARILY ABANDON ☐	CHANGE PLANS ☐	COMMENCE DRILLING OPNS. ☐	P AND A ☐
PULL OR ALTER CASING ☐	MULTIPLE COMPL ☐	CASING/CEMENT JOB ☐	
DOWNHOLE COMMINGLE ☐			
CLOSED-LOOP SYSTEM ☐			
OTHER: ☐		OTHER: BHL CHANGE	☒

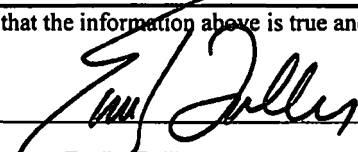
13. Describe proposed or completed operations. (Clearly state all pertinent details, including estimated date of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

EOG respectfully requests an amendment to our approved APD for this well to reflect changes in the BHL and the casing design. And a name change to State Com

Spud Date:

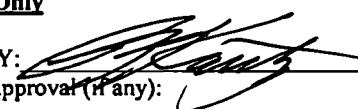
Rig Release Date:

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

SIGNATURE  TITLE Sr. Regulatory Administrator DATE 04/25/19

Type or print name Emily Follis E-mail address: emily_follis@eog.com PHONE: 432-848-9163

For State Use Only

APPROVED BY:  TITLE Petroleum Engineer DATE 05/10/19

Conditions of Approval (if any):



EOG Resources - Midland

Lea County, NM (NAD 83 NME)

Red Raider 25 State Com

#503H

OH

Plan: Plan #0.2

Standard Planning Report

23 April, 2019



Planning Report

Database:	EDM 5000.14	Local Co-ordinate Reference:	Well #503H
Company:	EOG Resources - Midland	TVD Reference:	KB = 25 @ 3529.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB = 25 @ 3529.0usft
Site:	Red Raider 25 State Com	North Reference:	Grid
Well:	#503H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.2		

Project:	Lea 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:	Red Raider 25 State Com		
Site Position:	Map	Northing:	430,866.00 usft
From:		Easting:	792,872.00 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 10' 54.895 N
		Longitude:	103° 31' 13.091 W
		Grid Convergence:	0.43 °

Well:	#503H		
Well Position	+N/-S	-8.0 usft	Northing:
	+E/-W	-66.0 usft	Easting:
Position Uncertainty	0.0 usft	Wellhead Elevation:	Ground Level:
			3,504.0 usft

Wellbore:	OH		
Magnetics	Model Name	Sample Date	Declination
			(°)
	IGRF2015	1/30/2019	6.75
			Dip Angle
			(°)
			60.01
			Field Strength
			(mT)
			47,751.12873779

Design:	Plan #0.2		
Audit Notes:			
Version:	Phase:	PLAN	Tie On Depth:
			1,293.0
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W
	(usft)	(usft)	(usft)
	0.0	0.0	0.0
			Direction
			(°)
			2.92

Plan Survey Tool Program:	Date: 4/23/2019		
Depth From	Depth To	Survey (Wellbore)	Tool Name
(usft)	(usft)		
1	173.0	1,293.0 Olebrook MWD #1 (OH)	MWD
			OWSG MWD - Standard
2	1,293.0	21,266.6 Plan #0.2 (OH)	MWD
			OWSG MWD - Standard



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Well:	#503H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.2		

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
1,293.0	0.53	316.67	1,292.9	-8.1	-2.2	0.00	0.00	0.00	0.00	
1,393.0	0.53	316.67	1,392.9	-7.4	-2.9	0.00	0.00	0.00	0.00	
1,613.0	4.00	180.00	1,612.8	-14.3	-3.6	2.00	1.58	-62.11	-141.40	
1,713.0	4.00	180.00	1,712.5	-21.3	-3.6	0.00	0.00	0.00	0.00	
2,084.3	7.04	100.63	2,082.5	-38.5	18.9	2.00	0.82	-21.38	-111.17	
7,327.1	7.04	100.63	7,285.7	-157.0	650.7	0.00	0.00	0.00	0.00	
7,679.3	0.00	0.00	7,637.0	-161.0	672.0	2.00	-2.00	0.00	180.00	
10,530.3	0.00	0.00	10,488.0	-161.0	672.0	0.00	0.00	0.00	0.00	
11,430.3	90.00	353.65	11,061.0	408.4	608.6	10.00	10.00	0.00	353.65	
11,627.1	90.00	359.55	11,061.0	604.8	597.0	3.00	0.00	3.00	90.00	
21,266.6	90.00	359.55	11,061.0	10,244.0	522.0	0.00	0.00	0.00	0.00	PBHL(RR 25 St Com)



Planning Report

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Site:	Red Raider 25 State Com	North Reference:	Grid
Well:	#503H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.2		

Planned 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	0.00
173.0	1.23	160.14	173.0	-1.7	0.6	-1.7	0.71	0.71	0.00
294.0	0.62	160.05	294.0	-3.8	1.3	-3.5	0.50	-0.50	-0.07
387.0	0.88	168.84	387.0	-4.8	1.6	-4.7	0.30	0.28	9.45
493.0	1.14	207.86	492.9	-6.5	1.3	-6.4	0.68	0.25	36.81
608.0	0.70	180.70	607.9	-8.2	0.7	-8.2	0.53	-0.38	-23.62
797.0	0.53	259.72	796.9	-9.5	-0.1	-9.5	0.42	-0.09	41.81
891.0	0.53	271.85	890.9	-9.6	-1.0	-9.6	0.12	0.00	12.90
986.0	0.18	52.29	985.9	-9.5	-1.3	-9.5	0.71	-0.37	147.83
1,081.0	0.44	311.22	1,080.9	-9.1	-1.5	-9.2	0.53	0.27	-106.39
1,206.0	0.26	348.75	1,205.9	-8.5	-1.9	-8.6	0.23	-0.14	30.02
1,293.0	0.53	316.67	1,292.9	-8.1	-2.2	-8.2	0.39	0.31	-36.87
1,300.0	0.53	316.67	1,299.9	-8.0	-2.3	-8.1	0.00	0.00	0.00
1,393.0	0.53	316.67	1,392.9	-7.4	-2.9	-7.5	0.00	0.00	0.00
1,400.0	0.43	304.94	1,399.9	-7.3	-2.9	-7.5	2.00	-1.43	-167.59
1,500.0	1.76	188.11	1,499.9	-8.7	-3.4	-8.8	2.00	1.33	-118.83
1,600.0	3.74	180.33	1,599.8	-13.4	-3.5	-13.6	2.00	1.98	-5.78
1,613.0	4.00	180.00	1,612.8	-14.3	-3.6	-14.5	2.00	1.99	-2.54
1,700.0	4.00	180.00	1,699.5	-20.4	-3.6	-20.5	0.00	0.00	0.00
1,713.0	4.00	180.00	1,712.5	-21.3	-3.6	-21.5	0.00	0.00	0.00
1,800.0	3.74	154.28	1,799.3	-26.9	-2.3	-27.0	2.00	-0.30	-29.56
1,800.0	4.38	127.17	1,899.1	-32.1	2.1	-32.0	2.00	0.64	-27.12
2,000.0	5.68	109.69	1,998.7	-36.1	9.8	-35.6	2.00	1.31	-17.48
2,084.3	7.04	100.63	2,082.5	-38.5	18.9	-37.5	2.00	1.61	-10.75
2,100.0	7.04	100.63	2,098.0	-38.8	20.7	-37.7	0.00	0.00	0.00
2,200.0	7.04	100.63	2,197.3	-41.1	32.8	-39.4	0.00	0.00	0.00
2,300.0	7.04	100.63	2,296.5	-43.3	44.8	-41.0	0.00	0.00	0.00
2,400.0	7.04	100.63	2,395.8	-45.6	56.9	-42.7	0.00	0.00	0.00
2,500.0	7.04	100.63	2,495.0	-47.9	69.0	-44.3	0.00	0.00	0.00
2,600.0	7.04	100.63	2,594.3	-50.1	81.0	-45.9	0.00	0.00	0.00
2,700.0	7.04	100.63	2,693.5	-52.4	93.1	-47.6	0.00	0.00	0.00
2,800.0	7.04	100.63	2,792.8	-54.7	105.1	-49.2	0.00	0.00	0.00
2,900.0	7.04	100.63	2,892.0	-56.9	117.2	-50.9	0.00	0.00	0.00
3,000.0	7.04	100.63	2,991.3	-59.2	129.2	-52.5	0.00	0.00	0.00
3,100.0	7.04	100.63	3,090.5	-61.4	141.3	-54.2	0.00	0.00	0.00
3,200.0	7.04	100.63	3,189.7	-63.7	153.3	-55.8	0.00	0.00	0.00
3,300.0	7.04	100.63	3,289.0	-66.0	165.4	-57.5	0.00	0.00	0.00
3,400.0	7.04	100.63	3,388.2	-68.2	177.4	-59.1	0.00	0.00	0.00
3,500.0	7.04	100.63	3,487.5	-70.5	189.5	-60.7	0.00	0.00	0.00
3,600.0	7.04	100.63	3,586.7	-72.7	201.5	-62.4	0.00	0.00	0.00
3,700.0	7.04	100.63	3,686.0	-75.0	213.6	-64.0	0.00	0.00	0.00
3,800.0	7.04	100.63	3,785.2	-77.3	225.6	-65.7	0.00	0.00	0.00
3,900.0	7.04	100.63	3,884.5	-79.5	237.7	-67.3	0.00	0.00	0.00
4,000.0	7.04	100.63	3,983.7	-81.8	249.7	-69.0	0.00	0.00	0.00
4,100.0	7.04	100.63	4,083.0	-84.0	261.8	-70.6	0.00	0.00	0.00
4,200.0	7.04	100.63	4,182.2	-86.3	273.9	-72.3	0.00	0.00	0.00
4,300.0	7.04	100.63	4,281.4	-88.6	285.9	-73.9	0.00	0.00	0.00
4,400.0	7.04	100.63	4,380.7	-90.8	298.0	-75.5	0.00	0.00	0.00
4,500.0	7.04	100.63	4,479.9	-93.1	310.0	-77.2	0.00	0.00	0.00
4,600.0	7.04	100.63	4,579.2	-95.4	322.1	-78.8	0.00	0.00	0.00
4,700.0	7.04	100.63	4,678.4	-97.6	334.1	-80.5	0.00	0.00	0.00
4,800.0	7.04	100.63	4,777.7	-99.9	346.2	-82.1	0.00	0.00	0.00
4,900.0	7.04	100.63	4,876.9	-102.1	358.2	-83.8	0.00	0.00	0.00
5,000.0	7.04	100.63	4,976.2	-104.4	370.3	-85.4	0.00	0.00	0.00



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Site:	Red Rakder 25 State Com	North Reference:	Grid
Well:	#503H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.2		

Planned 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)
5,100.0	7.04	100.63	5,075.4	-108.7	382.3	-87.1	0.00	0.00	0.00
5,200.0	7.04	100.63	5,174.7	-108.9	394.4	-88.7	0.00	0.00	0.00
5,300.0	7.04	100.63	5,273.9	-111.2	408.4	-90.4	0.00	0.00	0.00
5,400.0	7.04	100.63	5,373.1	-113.4	418.5	-92.0	0.00	0.00	0.00
5,500.0	7.04	100.63	5,472.4	-115.7	430.5	-93.6	0.00	0.00	0.00
5,600.0	7.04	100.63	5,571.6	-118.0	442.6	-95.3	0.00	0.00	0.00
5,700.0	7.04	100.63	5,670.9	-120.2	454.6	-96.9	0.00	0.00	0.00
5,800.0	7.04	100.63	5,770.1	-122.5	466.7	-98.6	0.00	0.00	0.00
5,900.0	7.04	100.63	5,869.4	-124.7	478.7	-100.2	0.00	0.00	0.00
6,000.0	7.04	100.63	5,968.6	-127.0	490.8	-101.9	0.00	0.00	0.00
6,100.0	7.04	100.63	6,067.9	-129.3	502.9	-103.5	0.00	0.00	0.00
6,200.0	7.04	100.63	6,167.1	-131.5	514.9	-105.2	0.00	0.00	0.00
6,300.0	7.04	100.63	6,266.3	-133.8	527.0	-106.8	0.00	0.00	0.00
6,400.0	7.04	100.63	6,365.6	-136.1	539.0	-108.4	0.00	0.00	0.00
6,500.0	7.04	100.63	6,464.8	-138.3	551.1	-110.1	0.00	0.00	0.00
6,600.0	7.04	100.63	6,564.1	-140.6	563.1	-111.7	0.00	0.00	0.00
6,700.0	7.04	100.63	6,663.3	-142.8	575.2	-113.4	0.00	0.00	0.00
6,800.0	7.04	100.63	6,762.6	-145.1	587.2	-115.0	0.00	0.00	0.00
6,900.0	7.04	100.63	6,861.8	-147.4	599.3	-116.7	0.00	0.00	0.00
7,000.0	7.04	100.63	6,961.1	-149.6	611.3	-118.3	0.00	0.00	0.00
7,100.0	7.04	100.63	7,060.3	-151.9	623.4	-120.0	0.00	0.00	0.00
7,200.0	7.04	100.63	7,159.6	-154.1	635.4	-121.6	0.00	0.00	0.00
7,300.0	7.04	100.63	7,258.8	-156.4	647.5	-123.2	0.00	0.00	0.00
7,327.1	7.04	100.63	7,285.7	-157.0	650.7	-123.7	0.00	0.00	0.00
7,400.0	5.59	100.63	7,358.2	-158.5	658.6	-124.8	2.00	-2.00	0.00
7,500.0	3.59	100.63	7,457.8	-160.0	666.5	-125.8	2.00	-2.00	0.00
7,600.0	1.59	100.63	7,557.7	-160.8	670.9	-126.4	2.00	-2.00	0.00
7,679.3	0.00	0.00	7,637.0	-161.0	672.0	-126.6	2.00	-2.00	0.00
7,700.0	0.00	0.00	7,657.7	-161.0	672.0	-126.6	0.00	0.00	0.00
7,800.0	0.00	0.00	7,757.7	-161.0	672.0	-126.6	0.00	0.00	0.00
7,900.0	0.00	0.00	7,857.7	-161.0	672.0	-126.6	0.00	0.00	0.00
8,000.0	0.00	0.00	7,957.7	-161.0	672.0	-126.6	0.00	0.00	0.00
8,100.0	0.00	0.00	8,057.7	-161.0	672.0	-126.6	0.00	0.00	0.00
8,200.0	0.00	0.00	8,157.7	-161.0	672.0	-126.6	0.00	0.00	0.00
8,300.0	0.00	0.00	8,257.7	-161.0	672.0	-126.6	0.00	0.00	0.00
8,400.0	0.00	0.00	8,357.7	-161.0	672.0	-126.6	0.00	0.00	0.00
8,500.0	0.00	0.00	8,457.7	-161.0	672.0	-126.6	0.00	0.00	0.00
8,600.0	0.00	0.00	8,557.7	-161.0	672.0	-126.6	0.00	0.00	0.00
8,700.0	0.00	0.00	8,657.7	-161.0	672.0	-126.6	0.00	0.00	0.00
8,800.0	0.00	0.00	8,757.7	-161.0	672.0	-126.6	0.00	0.00	0.00
8,900.0	0.00	0.00	8,857.7	-161.0	672.0	-126.6	0.00	0.00	0.00
9,000.0	0.00	0.00	8,957.7	-161.0	672.0	-126.6	0.00	0.00	0.00
9,100.0	0.00	0.00	9,057.7	-161.0	672.0	-126.6	0.00	0.00	0.00
9,200.0	0.00	0.00	9,157.7	-161.0	672.0	-126.6	0.00	0.00	0.00
9,300.0	0.00	0.00	9,257.7	-161.0	672.0	-126.6	0.00	0.00	0.00
9,400.0	0.00	0.00	9,357.7	-161.0	672.0	-126.6	0.00	0.00	0.00
9,500.0	0.00	0.00	9,457.7	-161.0	672.0	-126.6	0.00	0.00	0.00
9,600.0	0.00	0.00	9,557.7	-161.0	672.0	-126.6	0.00	0.00	0.00
9,700.0	0.00	0.00	9,657.7	-161.0	672.0	-126.6	0.00	0.00	0.00
9,800.0	0.00	0.00	9,757.7	-161.0	672.0	-126.6	0.00	0.00	0.00
9,900.0	0.00	0.00	9,857.7	-161.0	672.0	-126.6	0.00	0.00	0.00
10,000.0	0.00	0.00	9,957.7	-161.0	672.0	-126.6	0.00	0.00	0.00
10,100.0	0.00	0.00	10,057.7	-161.0	672.0	-126.6	0.00	0.00	0.00
10,200.0	0.00	0.00	10,157.7	-161.0	672.0	-126.6	0.00	0.00	0.00



Planning Report

Database:	EDM 5000.14	Local Co-ordinate Reference:	Well #503H
Company:	EOG Resources - Midland	TVD Reference:	KB = 25 @ 3529.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB = 25 @ 3529.0usft
Site:	Red Raider 25 State Com	North Reference:	Grid
Well:	#503H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.2		

Planned 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)
10,300.0	0.00	0.00	10,257.7	-161.0	672.0	-126.6	0.00	0.00	0.00
10,400.0	0.00	0.00	10,357.7	-161.0	672.0	-126.6	0.00	0.00	0.00
10,500.0	0.00	0.00	10,457.7	-161.0	672.0	-126.6	0.00	0.00	0.00
10,530.3	0.00	0.00	10,488.0	-161.0	672.0	-126.6	0.00	0.00	0.00
10,530.4	0.00	353.65	10,488.1	-161.0	672.0	-126.6	0.00	0.00	0.00
KOP(RR 25 St Com #503H)									
10,550.0	1.97	353.65	10,507.7	-160.7	672.0	-126.3	10.07	10.07	0.00
10,600.0	6.97	353.65	10,557.5	-156.8	671.5	-122.4	10.00	10.00	0.00
10,650.0	11.97	353.65	10,606.8	-148.6	670.6	-114.3	10.00	10.00	0.00
10,700.0	16.97	353.65	10,655.2	-136.2	669.2	-102.0	10.00	10.00	0.00
10,750.0	21.97	353.65	10,702.4	-119.6	667.4	-85.5	10.00	10.00	0.00
10,800.0	26.97	353.65	10,747.9	-99.1	665.1	-65.1	10.00	10.00	0.00
10,850.0	31.97	353.65	10,791.4	-74.6	662.4	-40.8	10.00	10.00	0.00
10,900.0	36.97	353.65	10,832.6	-46.5	659.3	-12.9	10.00	10.00	0.00
10,950.0	41.97	353.65	10,871.2	-14.9	655.7	18.5	10.00	10.00	0.00
11,000.0	46.97	353.65	10,908.8	19.9	651.9	53.0	10.00	10.00	0.00
11,005.6	47.52	353.65	10,910.6	23.9	651.4	57.0	10.00	10.00	0.00
FTP(RR 25 St Com #503H)									
11,050.0	51.97	353.65	10,939.3	57.6	647.7	90.5	10.00	10.00	0.00
11,100.0	56.97	353.65	10,968.4	98.1	643.2	130.7	10.00	10.00	0.00
11,150.0	61.97	353.65	10,993.8	140.9	638.4	173.2	10.00	10.00	0.00
11,200.0	66.97	353.65	11,015.3	185.7	633.4	217.7	10.00	10.00	0.00
11,250.0	71.97	353.65	11,032.8	232.2	628.2	263.9	10.00	10.00	0.00
11,300.0	76.97	353.65	11,046.2	280.1	622.9	311.4	10.00	10.00	0.00
11,350.0	81.97	353.65	11,055.3	328.9	617.5	359.9	10.00	10.00	0.00
11,400.0	86.97	353.65	11,060.2	378.4	612.0	409.0	10.00	10.00	0.00
11,430.3	90.00	353.65	11,061.0	408.4	608.6	438.9	10.00	10.00	0.00
11,500.0	90.00	355.74	11,061.0	477.9	602.2	507.9	3.00	0.00	3.00
11,600.0	90.00	358.74	11,061.0	577.7	597.4	607.4	3.00	0.00	3.00
11,627.1	90.00	359.55	11,061.0	604.8	597.0	634.4	3.00	0.00	3.00
11,700.0	90.00	359.55	11,061.0	677.7	596.4	707.2	0.00	0.00	0.00
11,800.0	90.00	359.55	11,061.0	777.7	595.6	807.0	0.00	0.00	0.00
11,900.0	90.00	359.55	11,061.0	877.7	594.8	908.8	0.00	0.00	0.00
12,000.0	90.00	359.55	11,061.0	977.7	594.1	1,006.7	0.00	0.00	0.00
12,100.0	90.00	359.55	11,061.0	1,077.7	593.3	1,106.5	0.00	0.00	0.00
12,200.0	90.00	359.55	11,061.0	1,177.7	592.5	1,206.3	0.00	0.00	0.00
12,300.0	90.00	359.55	11,061.0	1,277.7	591.7	1,306.2	0.00	0.00	0.00
12,400.0	90.00	359.55	11,061.0	1,377.7	591.0	1,406.0	0.00	0.00	0.00
12,500.0	90.00	359.55	11,061.0	1,477.7	590.2	1,505.8	0.00	0.00	0.00
12,600.0	90.00	359.55	11,061.0	1,577.7	589.4	1,605.6	0.00	0.00	0.00
12,700.0	90.00	359.55	11,061.0	1,677.7	588.6	1,705.5	0.00	0.00	0.00
12,800.0	90.00	359.55	11,061.0	1,777.7	587.8	1,805.3	0.00	0.00	0.00
12,900.0	90.00	359.55	11,061.0	1,877.7	587.1	1,905.1	0.00	0.00	0.00
13,000.0	90.00	359.55	11,061.0	1,977.7	586.3	2,005.0	0.00	0.00	0.00
13,100.0	90.00	359.55	11,061.0	2,077.7	585.5	2,104.8	0.00	0.00	0.00
13,200.0	90.00	359.55	11,061.0	2,177.7	584.7	2,204.6	0.00	0.00	0.00
13,300.0	90.00	359.55	11,061.0	2,277.7	584.0	2,304.4	0.00	0.00	0.00
13,400.0	90.00	359.55	11,061.0	2,377.7	583.2	2,404.3	0.00	0.00	0.00
13,500.0	90.00	359.55	11,061.0	2,477.7	582.4	2,504.1	0.00	0.00	0.00
13,600.0	90.00	359.55	11,061.0	2,577.7	581.6	2,603.9	0.00	0.00	0.00
13,700.0	90.00	359.55	11,061.0	2,677.7	580.8	2,703.7	0.00	0.00	0.00
13,800.0	90.00	359.55	11,061.0	2,777.7	580.1	2,803.6	0.00	0.00	0.00
13,900.0	90.00	359.55	11,061.0	2,877.7	579.3	2,903.4	0.00	0.00	0.00
14,000.0	90.00	359.55	11,061.0	2,977.6	578.5	3,003.2	0.00	0.00	0.00



Planning Report

Database:	EDM 5000.14	Local Co-ordinate Reference:	Well #503H
Company:	EOG Resources - Midland	TVD Reference:	KB = 25 @ 3529.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB = 25 @ 3529.0usft
Site:	Red Raider 25 State Com	North Reference:	Grid
Well:	#503H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.2		

Planned 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)
14,100.0	90.00	359.55	11,061.0	3,077.6	577.7	3,103.1	0.00	0.00	0.00
14,200.0	90.00	359.55	11,061.0	3,177.6	577.0	3,202.9	0.00	0.00	0.00
14,300.0	90.00	359.55	11,061.0	3,277.6	576.2	3,302.7	0.00	0.00	0.00
14,400.0	90.00	359.55	11,061.0	3,377.6	575.4	3,402.5	0.00	0.00	0.00
14,500.0	90.00	359.55	11,061.0	3,477.6	574.6	3,502.4	0.00	0.00	0.00
14,600.0	90.00	359.55	11,061.0	3,577.6	573.8	3,602.2	0.00	0.00	0.00
14,700.0	90.00	359.55	11,061.0	3,677.6	573.1	3,702.0	0.00	0.00	0.00
14,800.0	90.00	359.55	11,061.0	3,777.6	572.3	3,801.9	0.00	0.00	0.00
14,900.0	90.00	359.55	11,061.0	3,877.6	571.5	3,901.7	0.00	0.00	0.00
15,000.0	90.00	359.55	11,061.0	3,977.6	570.7	4,001.5	0.00	0.00	0.00
15,100.0	90.00	359.55	11,061.0	4,077.6	570.0	4,101.3	0.00	0.00	0.00
15,200.0	90.00	359.55	11,061.0	4,177.6	569.2	4,201.2	0.00	0.00	0.00
15,300.0	90.00	359.55	11,061.0	4,277.6	568.4	4,301.0	0.00	0.00	0.00
15,400.0	90.00	359.55	11,061.0	4,377.6	567.6	4,400.8	0.00	0.00	0.00
15,500.0	90.00	359.55	11,061.0	4,477.6	566.8	4,500.6	0.00	0.00	0.00
15,600.0	90.00	359.55	11,061.0	4,577.6	566.1	4,600.5	0.00	0.00	0.00
15,700.0	90.00	359.55	11,061.0	4,677.6	565.3	4,700.3	0.00	0.00	0.00
15,800.0	90.00	359.55	11,061.0	4,777.6	564.5	4,800.1	0.00	0.00	0.00
15,900.0	90.00	359.55	11,061.0	4,877.6	563.7	4,900.0	0.00	0.00	0.00
15,989.4	90.00	359.55	11,061.0	4,967.0	563.0	4,989.2	0.00	0.00	0.00
PBHL(RR 25 St Com #503H) (copy)									
16,000.0	90.00	359.55	11,061.0	4,977.6	563.0	4,999.8	0.00	0.00	0.00
16,100.0	90.00	359.55	11,061.0	5,077.6	562.2	5,099.6	0.00	0.00	0.00
16,200.0	90.00	359.55	11,061.0	5,177.6	561.4	5,199.4	0.00	0.00	0.00
16,300.0	90.00	359.55	11,061.0	5,277.6	560.6	5,299.3	0.00	0.00	0.00
16,400.0	90.00	359.55	11,061.0	5,377.6	559.8	5,399.1	0.00	0.00	0.00
16,500.0	90.00	359.55	11,061.0	5,477.6	559.1	5,498.9	0.00	0.00	0.00
16,600.0	90.00	359.55	11,061.0	5,577.6	558.3	5,598.8	0.00	0.00	0.00
16,700.0	90.00	359.55	11,061.0	5,677.6	557.5	5,698.6	0.00	0.00	0.00
16,800.0	90.00	359.55	11,061.0	5,777.6	556.7	5,798.4	0.00	0.00	0.00
16,900.0	90.00	359.55	11,061.0	5,877.6	556.0	5,898.2	0.00	0.00	0.00
17,000.0	90.00	359.55	11,061.0	5,977.6	555.2	5,998.1	0.00	0.00	0.00
17,100.0	90.00	359.55	11,061.0	6,077.6	554.4	6,097.9	0.00	0.00	0.00
17,200.0	90.00	359.55	11,061.0	6,177.6	553.6	6,197.7	0.00	0.00	0.00
17,300.0	90.00	359.55	11,061.0	6,277.5	552.8	6,297.5	0.00	0.00	0.00
17,400.0	90.00	359.55	11,061.0	6,377.5	552.1	6,397.4	0.00	0.00	0.00
17,500.0	90.00	359.55	11,061.0	6,477.5	551.3	6,497.2	0.00	0.00	0.00
17,600.0	90.00	359.55	11,061.0	6,577.5	550.5	6,597.0	0.00	0.00	0.00
17,700.0	90.00	359.55	11,061.0	6,677.5	549.7	6,696.9	0.00	0.00	0.00
17,800.0	90.00	359.55	11,061.0	6,777.5	549.0	6,796.7	0.00	0.00	0.00
17,900.0	90.00	359.55	11,061.0	6,877.5	548.2	6,896.5	0.00	0.00	0.00
18,000.0	90.00	359.55	11,061.0	6,977.5	547.4	6,996.3	0.00	0.00	0.00
18,100.0	90.00	359.55	11,061.0	7,077.5	546.6	7,096.2	0.00	0.00	0.00
18,200.0	90.00	359.55	11,061.0	7,177.5	545.9	7,196.0	0.00	0.00	0.00
18,300.0	90.00	359.55	11,061.0	7,277.5	545.1	7,295.8	0.00	0.00	0.00
18,400.0	90.00	359.55	11,061.0	7,377.5	544.3	7,395.7	0.00	0.00	0.00
18,500.0	90.00	359.55	11,061.0	7,477.5	543.5	7,495.5	0.00	0.00	0.00
18,600.0	90.00	359.55	11,061.0	7,577.5	542.7	7,595.3	0.00	0.00	0.00
18,700.0	90.00	359.55	11,061.0	7,677.5	542.0	7,695.1	0.00	0.00	0.00
18,800.0	90.00	359.55	11,061.0	7,777.5	541.2	7,795.0	0.00	0.00	0.00
18,900.0	90.00	359.55	11,061.0	7,877.5	540.4	7,894.8	0.00	0.00	0.00
19,000.0	90.00	359.55	11,061.0	7,977.5	539.6	7,994.6	0.00	0.00	0.00
19,100.0	90.00	359.55	11,061.0	8,077.5	538.9	8,094.4	0.00	0.00	0.00



Planning Report

Database:	EDM 5000.14	Local Co-ordinate Reference:	Well #503H
Company:	EOG Resources - Midland	TVD Reference:	KB = 25 @ 3529.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB = 25 @ 3529.0usft
Site:	Red Raider 25 State Com	North Reference:	Grid
Well:	#503H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.2		

Planned 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)	
19,200.0	90.00	359.55	11,061.0	8,177.5	538.1	8,194.3	0.00	0.00	0.00	
19,300.0	90.00	359.55	11,061.0	8,277.5	537.3	8,294.1	0.00	0.00	0.00	
19,400.0	90.00	359.55	11,061.0	8,377.5	536.5	8,393.9	0.00	0.00	0.00	
19,500.0	90.00	359.55	11,061.0	8,477.5	535.7	8,493.8	0.00	0.00	0.00	
19,600.0	90.00	359.55	11,061.0	8,577.5	535.0	8,593.6	0.00	0.00	0.00	
19,700.0	90.00	359.55	11,061.0	8,677.5	534.2	8,693.4	0.00	0.00	0.00	
19,800.0	90.00	359.55	11,061.0	8,777.5	533.4	8,793.2	0.00	0.00	0.00	
19,900.0	90.00	359.55	11,061.0	8,877.5	532.6	8,893.1	0.00	0.00	0.00	
20,000.0	90.00	359.55	11,061.0	8,977.5	531.8	8,992.9	0.00	0.00	0.00	
20,100.0	90.00	359.55	11,061.0	9,077.5	531.1	9,092.7	0.00	0.00	0.00	
20,200.0	90.00	359.55	11,061.0	9,177.5	530.3	9,192.6	0.00	0.00	0.00	
20,300.0	90.00	359.55	11,061.0	9,277.5	529.5	9,292.4	0.00	0.00	0.00	
20,400.0	90.00	359.55	11,061.0	9,377.5	528.7	9,392.2	0.00	0.00	0.00	
20,500.0	90.00	359.55	11,061.0	9,477.5	528.0	9,492.0	0.00	0.00	0.00	
20,600.0	90.00	359.55	11,061.0	9,577.4	527.2	9,591.8	0.00	0.00	0.00	
20,700.0	90.00	359.55	11,061.0	9,677.4	526.4	9,691.7	0.00	0.00	0.00	
20,800.0	90.00	359.55	11,061.0	9,777.4	525.6	9,791.5	0.00	0.00	0.00	
20,900.0	90.00	359.55	11,061.0	9,877.4	524.9	9,891.4	0.00	0.00	0.00	
21,000.0	90.00	359.55	11,061.0	9,977.4	524.1	9,991.2	0.00	0.00	0.00	
21,100.0	90.00	359.55	11,061.0	10,077.4	523.3	10,091.0	0.00	0.00	0.00	
21,200.0	90.00	359.55	11,061.0	10,177.4	522.5	10,190.8	0.00	0.00	0.00	
21,266.6	90.00	359.55	11,061.0	10,244.0	522.0	10,257.3	0.00	0.00	0.00	
PBHL(RR 25 St Com #503H)										

Design Targets										
Target Name	Dip Angle (°)	Dip Dir (°)	TVD (usft)	+N-S (usft)	+E-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude	
KOP(RR 25 St Com #50 - hit/miss target - Shape	0.00	0.00	10,488.0	-161.0	602.0	430,697.00	793,408.00	32° 10' 53.183 N	103° 31' 6.869 W	
- plan misses target center by 70.0usft at 10530.3usft MD (10488.0 TVD, -161.0 N, 672.0 E)										
- Point										
FTP(RR 25 St Com #50: - plan misses target center by 208.0usft at 11005.5usft MD (10910.6 TVD, 23.9 N, 651.4 E)	0.00	0.00	11,061.0	-111.0	602.0	430,747.00	793,408.00	32° 10' 53.877 N	103° 31' 6.865 W	
- Point										
PBHL(RR 25 St Com #5 - plan hits target center - Rectangle (sides W60.0 H0.0 D10,354.9)	90.00	359.57	11,061.0	10,244.0	522.0	441,102.00	793,328.00	32° 12' 36.147 N	103° 31' 6.883 W	



Lea County, NM (NAD 83 NME)

Red Raider 25 State Com #503H

Plan #0.2

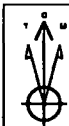
PROJECT DETAILS: Lea County, NM (NAD 83 NME)

Geodetic System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone: New Mexico Eastern Zone
System Datum: Mean Sea Level

WELL DETAILS: 6503H

3504.0

KB = 28 @ 3329.0ush
Northing 430858.00 Easting 792804.50 Lat/Long 32° 10' 54.921 N 103° 31' 13.893 W



Azimuth to Grid North:
True North: 0.00°
Magnetic North: 6.32°
Magnetic Field
Strength: 47791.15nT
Dip Angle: 60.01°
Date: 1/20/2018
Model: IGRF2015

To convert a Magnetic Direction to a Grid Direction, Add 6.32°
To convert a Magnetic Direction to a True Direction, Add 6.76° East
To convert a True Direction to a Grid Direction, Subtract 6.32°

SECTION DETAILS

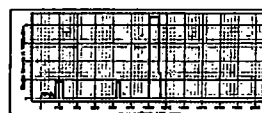
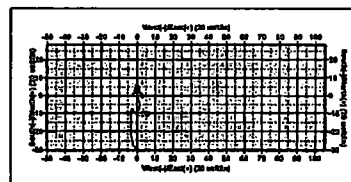
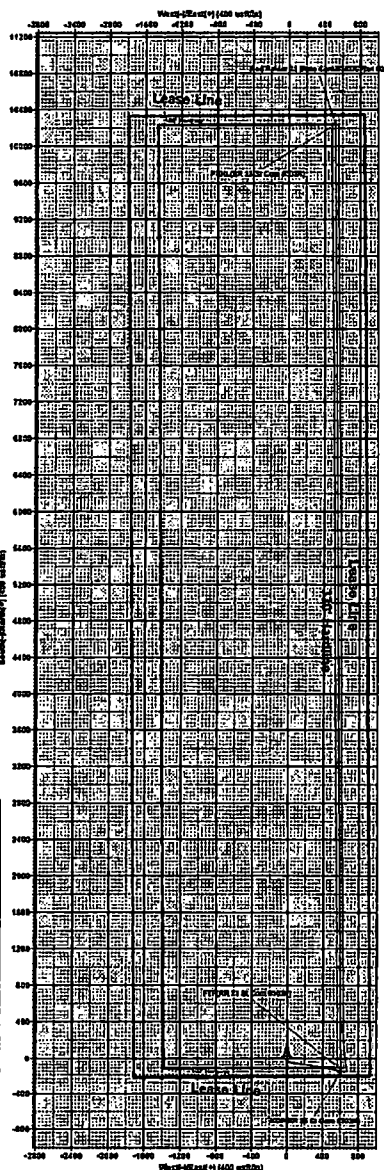
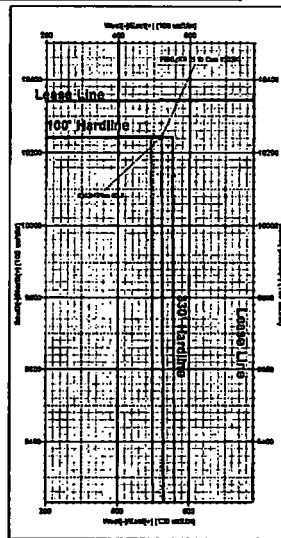
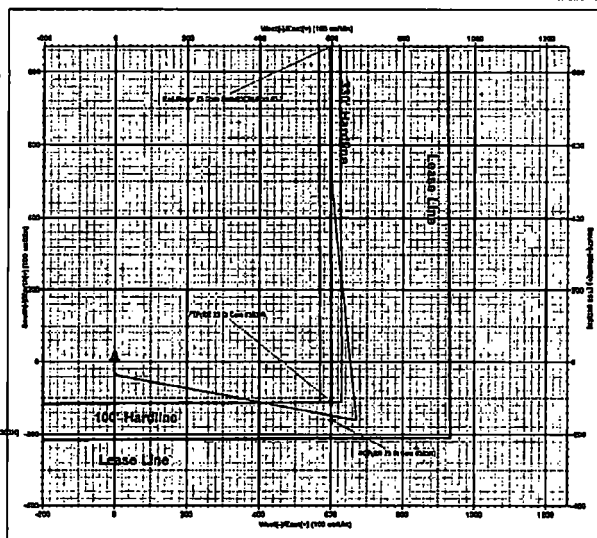
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Diag	TFace	VSecl	Target
1	1293.0	0.53	316.67	1292.9	-8.1	-2.2	0.00	0.00	-8.2	
2	1393.0	0.53	316.67	1392.9	-7.4	-2.9	0.00	0.00	-7.5	
3	1613.0	4.00	180.00	1612.6	-14.3	-3.6	2.00	-141.40	-14.5	
4	1713.0	4.00	180.00	1712.5	-21.3	-3.6	0.00	0.00	-21.6	
5	2084.3	7.04	100.63	2082.5	-38.5	18.9	2.00	-111.17	-37.5	
6	7327.1	7.04	100.63	7285.7	-157.0	650.7	2.00	0.00	-123.7	
7	7679.3	0.00	0.00	7637.0	-161.0	672.0	2.00	180.00	-126.6	
8	10530.3	0.00	0.00	10488.0	-161.0	672.0	0.00	0.00	-126.6	
9	11430.3	90.00	353.65	11061.0	408.4	908.6	10.00	353.65	438.9	
10	11617.1	90.00	359.55	11061.0	604.8	597.0	3.00	90.00	634.4	
11	21266.6	90.00	359.55	11061.0	10244.0	322.0	0.00	0.00	10257.3	PBHL(RR 25 St Com #503H)

CASING DETAILS

No casing data is available

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/-S	+E/-W	Northing	Easting
KOPRR 25 St Com #503D	10488.0	-161.0	602.0	430857.00	792802.00
PTPRR 25 St Com #502H	11061.0	-111.0	602.0	430747.00	793408.00
PBHL(RR 25 St Com #503H)	11061.0	10344.0	322.0	441102.00	793378.00
PBHL(RR 25 St Com #503H) (copy)	11061.0	4367.0	64.0	435816.00	793376.00



Scale: 1 inch = 100 feet

Red Raider 25 State Com #503H
Lea County, New Mexico

214' FSL
931' FEL
Section 25
T-24-S, R-33-E

Proposed Wellbore
Revised 4/23/19
API: 30-025-45776

KB: 3,529'
GL: 3,504'

Bit Size: 17-1/2"
13-3/8", 54.5#, J-55, STC 0' - 1,250'

Bit Size: 12-1/4"

9-5/8", 40#, J-55, LTC 0' - 4000'
9-5/8", 40#, HCL-80, LTC 4000' - 5,432'

Bit Size: 8-3/4"

TOC: 4,932'

KOP: 10,530'

Bit Size: 8-1/2"

5-1/2", 17#, P-110 or HCP110, LTC @ 0' - 21,267'

Lateral: 21,267' MD, 11,061' TVD
BH Location: 100' FNL & 330' FEL
Section 24
T-24-S, R-33-E

EOG RESOURCES, INC.
Red Raider 25 State Com #503H

Permit Information:

Well Name: Red Raider 25 State Com No. 503H

Location:

SHL: 214' FSL & 931' FEL, Section 25, T-24-S, R-33-E, Lea Co., N.M.

BHL: 100' FNL & 330' FEL, Section 24, T-24-S, R-33-E, Lea Co., N.M.

Casing Program:

Hole Size	Interval	Csg OD	Weight	Grade	Conn	DF _{min} Collapse	DF _{min} Burst	DF _{min} Tension
17.5"	0' - 1,250'	13.375"	54.5#	J-55	STC	1.125	1.25	1.60
12.25"	0' - 4,000'	9.625"	40#	J-55	LTC	1.125	1.25	1.60
12.25"	4000' - 5432'	9.625"	40#	HCL-80	LTC	1.125	1.25	1.60
8.75"	0' - 21,267'	5.5"	17#	HCP-110	LTC	1.125	1.25	1.60

Cement Program:

Depth	No. Sacks	Wt. ppg	Yld Ft ³ /ft	Slurry Description
1,250'	600	13.5	1.73	Class C + 4.0% Bentonite + 0.6% CD-32 + 0.5% CaCl ₂ + 0.25 lb/sk Cello-Flake (TOC @ Surface)
	300	14.8	1.34	Class C + 0.6% FL-62 + 0.25 lb/sk Cello-Flake + 0.2% Sodium Metasilicate
5,432'	900	12.7	2.22	Class 'C' + 1.50% R-3 + 0.25 lb/sk Cello-Flake + 2.0% Sodium Metasilicate + 10% Salt + 0.005 lb/sk Static Free (TOC @ Surface)
	225	14.8	1.32	Tail: Class 'C' + 0.25 lb/sk Cello Flake + 0.005 lb/sk Static Free
21,267'	375	10.8	3.67	60:40:0 Class C + 15.0 pps BA-90 + 4% MPA-5 + 3.0% SMS + 5.0% A-10 + 1.0% BA-10A + 0.80% ASA-301 + 2.55% R-21 + 8.0 pps LCM-1 (TOC @ 4,932')
	400	11.8	2.38	50:50:10 Class H + 0.80% FL-52 + 0.30% ASA-301 + 0.40% SMS + 2.0% Salt + 0.30% R-21 + 3.0 pps LCM-1 + 0.25 pps Celloflake
	1300	14.2	1.28	50:50:2 Class H + 0.65% FL-52 + 0.45% CD-32 + 0.10% SMS + 2.0% Salt

Mud Program:

Depth	Type	Weight (ppg)	Viscosity	Water Loss
0' - 1,250'	Fresh - Gel	8.6-8.8	28-34	N/c
1,250' - 5,432'	Brine	10.0-10.2	28-34	N/c
5,432' - 10,530'	Cut Brine	8.4-9.0	28-34	N/c
10,530' - 21,267' Lateral	Cut Brine	9.0-9.5	40-42	8-10

EOG RESOURCES, INC.
Red Raider 25 State Com #503H
Hydrogen Sulfide Plan Summary

- A. All personnel shall receive proper H₂S training in accordance with Onshore Order III.C.3.a.
- B. Briefing Area: two perpendicular areas will be designated by signs and readily accessible.
- C. Required Emergency Equipment:

- Well control equipment
 - a. Flare line 150' from wellhead to be ignited by flare gun.
 - b. Choke manifold with a remotely operated choke.
 - c. Mud/gas separator

- Protective equipment for essential personnel.

Breathing apparatus:

- a. Rescue Packs (SCBA) — 1 unit shall be placed at each breathing area, 2 shall be stored in the safety trailer.
- b. Work/Escapes packs — 4 packs shall be stored on the rig floor with sufficient air hose not to restrict work activity.
- c. Emergency Escape Packs — 4 packs shall be stored in the doghouse for emergency evacuation.

Auxiliary Rescue Equipment:

- a. Stretcher
- b. Two OSHA full body harness
- c. 100 ft 5/8 inch OSHA approved rope
- d. 1-20# class ABC fire extinguisher

- H₂S detection and monitoring equipment:

The stationary detector with three sensors will be placed in the upper dog house if equipped, set to visually alarm @ 10 ppm and audible @ 14 ppm. Calibrate a minimum of every 30 days or as needed. The sensors will be placed in the following places: Rig floor / Bell nipple / End of flow line or where well bore fluid is being discharged.

(Gas sample tubes will be stored in the safety trailer)

- Visual warning systems.
 - a. One color code condition sign will be placed at the entrance to the site reflecting the possible conditions at the site.
 - b. A colored condition flag will be on display, reflecting the current condition at the site at the time.
 - c. Two wind socks will be placed in strategic locations, visible from all angles.

- Mud program:

EOG RESOURCES, INC.
Red Raider 25 State Com #503H

The mud program has been designed to minimize the volume of H₂S circulated to surface. The operator will have the necessary mud products to minimize hazards while drilling in H₂S bearing zones.

- **Metallurgy:**
All drill strings, casings, tubing, wellhead, blowout preventer, drilling spool, kill lines, choke manifold and lines, and valves shall be suitable for H₂S service.
- **Communication:**
Communication will be via cell phones and land lines where available.

Emergency Assistance Telephone List

PUBLIC SAFETY:

911 or

EOG RESOURCES, INC.
Red Raider 25 State Com #503H

Lea County Sheriff's Department	(575) 396-3611
Rod Coffman	
Fire Department:	
Carlsbad	(575) 885-3125
Artesia	(575) 746-5050
Hospitals:	
Carlsbad	(575) 887-4121
Artesia	(575) 748-3333
Hobbs	(575) 392-1979
Dept. of Public Safety/Carlsbad	(575) 748-9718
Highway Department	(575) 885-3281
New Mexico Oil Conservation	(575) 476-3440
U.S. Dept. of Labor	(575) 887-1174

EOG Resources, Inc.

EOG / Midland	Office (432) 686-3600
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Company Drilling Consultants:

David Dominque	Cell (985) 518-5839
Mike Vann	Cell (817) 980-5507

Drilling Engineer

Steve Munsell	Office (432) 686-3609
	Cell (432) 894-1256

Drilling Manager

Aj Dach	Office (432) 686-3751
	Cell (817) 480-1167

Drilling Superintendent

Domingo Lopez	Office (432) 686-3702
	Cell (432) 215-9452

H&P Drilling

H&P Drilling	Office (432) 563-5757
H&P 651 Drilling Rig	Rig (903) 509-7131

Tool Pusher:

Johnathan Craig	Cell (817) 760-6374
Brad Garrett	

Safety

Brian Chandler (HSE Manager)	Office (432) 686-3695
	Cell (817) 239-0251