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District II
811 S. First St., Artesia, NM 88210
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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

HOBBES OCD

APR 15 2013

RECEIVED

State of New Mexico
Energy, Minerals & Natural Resources
Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

FORM C-102

Revised August 1, 2011

Submit one copy to appropriate

District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-025- 41114	² Pool Code 97900	³ Pool Name Red Hills; Bone Spring Upper Shale
⁴ Property Code 39814	⁵ Property Name OPHELIA 27	⁶ Well Number #1H
⁷ GRID No. 7377	⁸ Operator Name EOG RESOURCES, INC.	⁹ Elevation 3307'

¹⁰Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
H	27	26-S	33-E	-	2490'	NORTH	380'	EAST	LEA

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
I	22	26-S	33-E	-	2410'	SOUTH	380'	EAST	LEA

¹² Dedicated Acres 160	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.

¹⁶ 22 27	BOTTOM HOLE LOCATION NEW MEXICO EAST NAD 1927 X=742014 Y=374858 LAT.: N 32.0281949 LONG.: W 103.5524015 LOWER MOST PERF. NEW MEXICO EAST NAD 1927 X=742015 Y=374758 LAT.: N 32.0279200 LONG.: W 103.5524014 UPPER MOST PERF. NEW MEXICO EAST NAD 1927 X=742049 Y=370139 LAT.: N 32.0152207 LONG.: W 103.5523987 SURFACE LOCATION NEW MEXICO EAST NAD 1927 X=742050 Y=369958 LAT.: N 32.0147247 LONG.: W 103.5523986		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 unleased 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. <i>Stan Wagner</i> 4/11/13 Signature Date Stan Wagner Printed Name 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. 3/6/2013 Date of Survey Signature and Seal of Professional Surveyor MICHAEL BROWN NEW MEXICO 18329 PROFESSIONAL SURVEYOR Certificate Number
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APR 17 2013

Permit Information:

Well Name: Ophelia 27 No. 1H

Location:

SL: 2490' FNL & 380' FEL, Section 27, T-26-S, R-33-E, Lea Co., N.M.

BHL: 2410' FSL & 380' FEL, Section 22, T-26-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 – 900'	13.375"	54.5#	J55	STC	1.125	1.25	1.60
12.25"	0-4000'	9.625"	40#	J55	LTC	1.125	1.25	1.60
12.25"	4000' – 5100'	9.625"	40#	HCK-55	LTC	1.125	1.25	1.60
8.75"	0'-14,295'	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
900'	300	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)
	200	14.8	1.34	Class C + 0.6% FL-62 + 0.25 lb/sk Cello-Flake + 0.2% Sodium Metasilicate
5,100'	800	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
	200	14.8	1.32	Tail: Class 'C' + 0.25 lb/sk Cello Flake + 0.005 lb/sk Static Free
14,295'	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
	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
	1350	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 – 900'	Fresh - Gel	8.6-8.8	28-34	N/c
900' – 5,100'	Brine	10.0-10.2	28-34	N/c
5,100' – 9,122'	Cut Brine	8.4-9.0	28-34	N/c
9,122' – 14,118' Lateral	Cut Brine	9.0-9.5	40-42	8-10

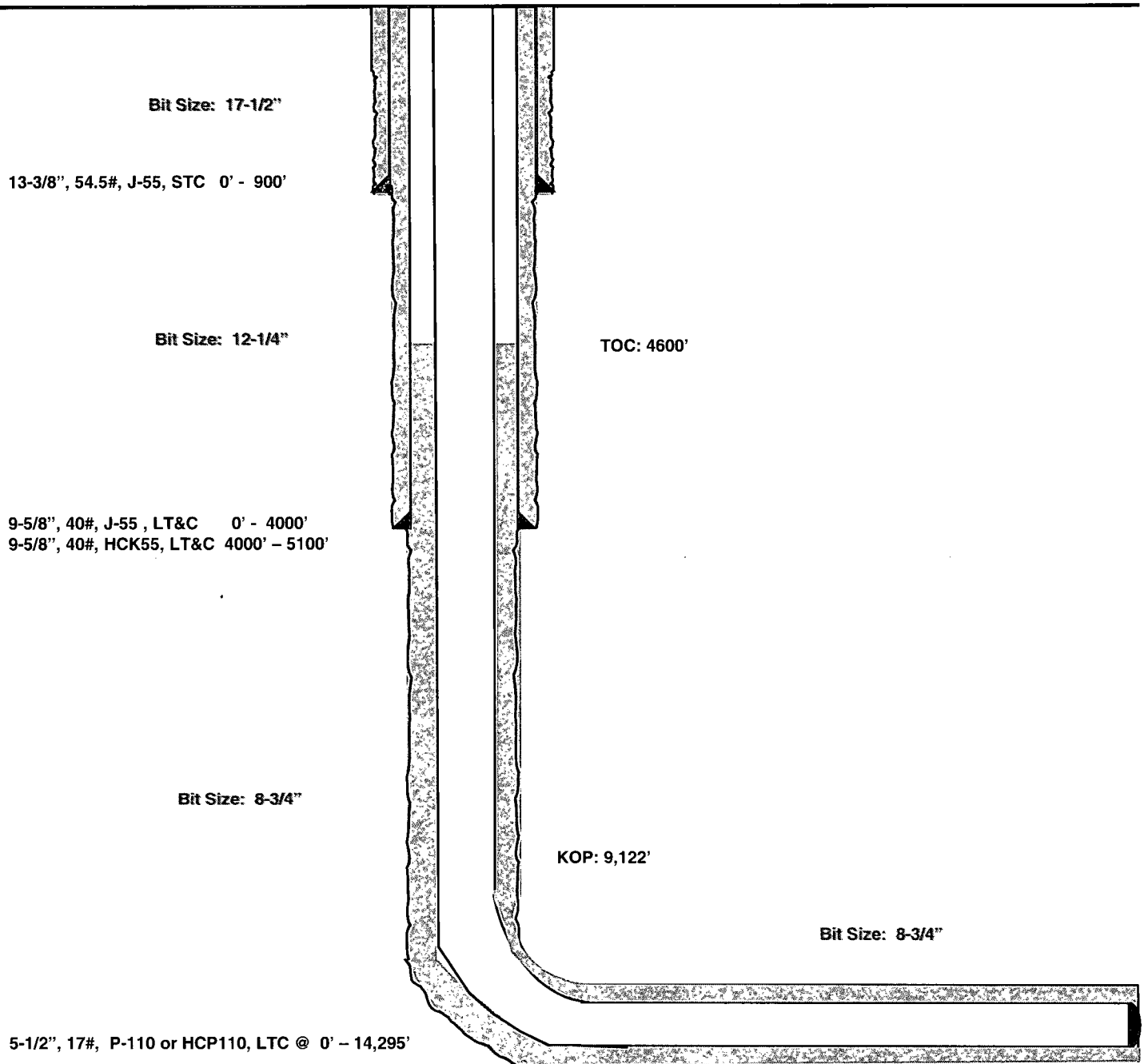
Ophelia 27 #1H
Lea County, New Mexico

2490' FNL
380' FEL
Section 27
T-26-S, R-33-E

Proposed Wellbore

API: 30-025-

KB: 3,537'
GL: 3,307'



Lateral: 14,295' MD, 9,561' TVD

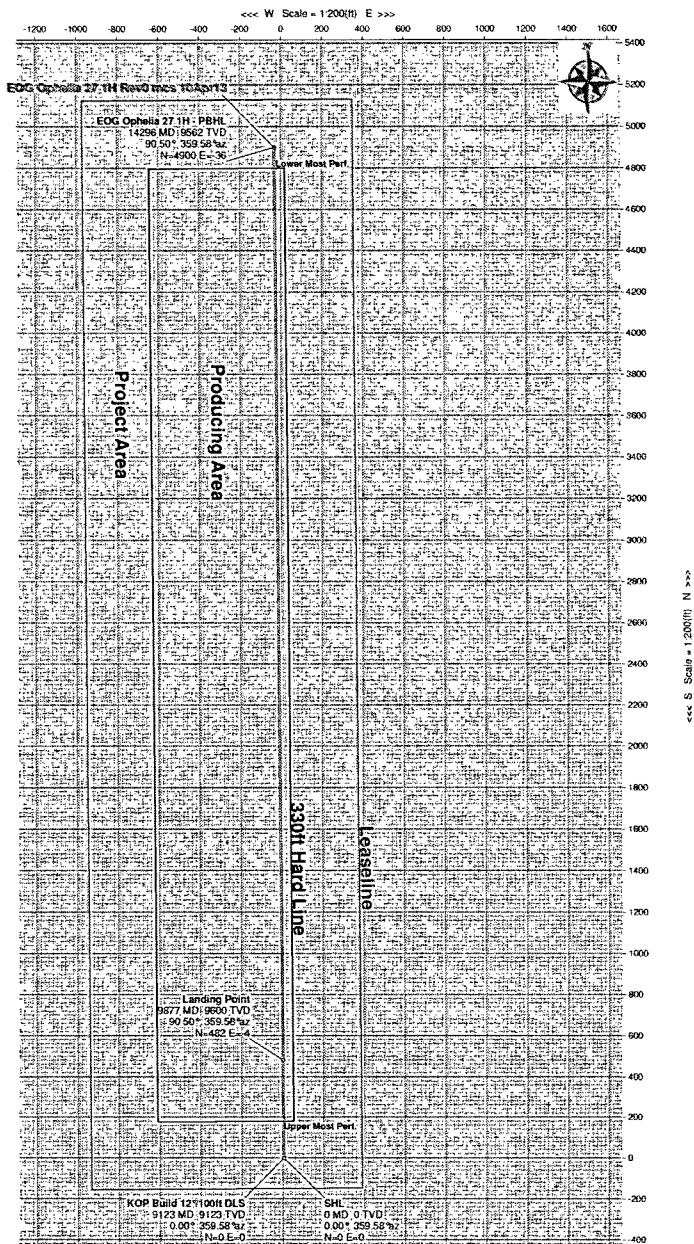
BH Location: 2410' FSL & 380' FEL
Section 22
T-26-S, R-33-E

WELL	Ophelia 27 1H	FIELD	Lea County, NM (NAD 27)	STRUTTING	Cactus 123
Map/Plot Parameters	Model: BCGM2012 Dip: 20.940° Mag Dec: 7.442°	Date: April 10, 2013 4/10/2013 10:17	Surface Location Lat: N 32 0 53.008 Lon: W 103 33 8.638	NAD27 New Mexico State Plane, Eastern Zone, US Feet Datum: NAD83 Datum: 7420050.00 Scale Factor: 0.99999928	Miscellaneous Plot: Ophelia 27 1H Rev: 0 Rev Date: April 10, 2013

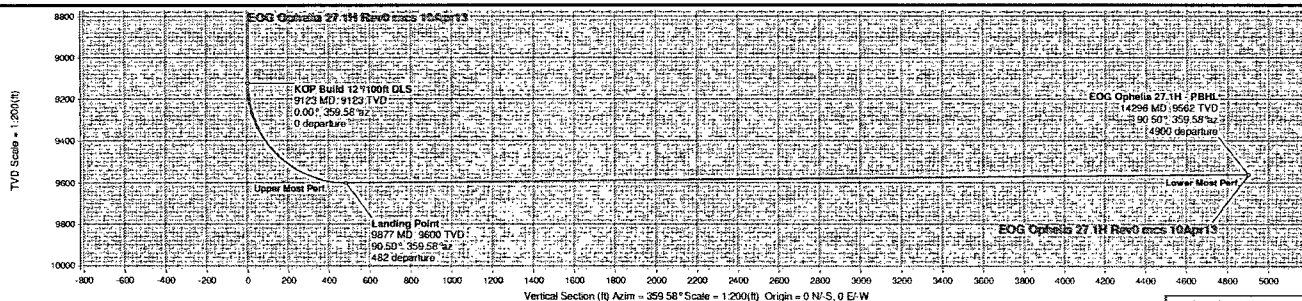
Legend

EOG Ophelia 27 1H - 1000' MDL PBL
EOG Ophelia 27 1H - 1000' MDL PBL
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EOG Ophelia 27 1H - 1000' MDL PBL
EOG Ophelia 27 1H - 1000' MDL PBL
EOG Ophelia 27 1H - 1000' MDL PBL

Grid North
Tot Corr (M->G 7.0275°)
Mag Dec (7.442°)
Grid Conv (0.414°)



Comments	Survey MD	Inc	Azim	TVD	SSTVD	VS	NS	EW	Longitude	Latitude	Easting	Northing	DLS	Tool Face
SHL	0.00	0.00	359.58	0.00	-3337.00	0.00	0.00	0.00	N 32 0 53.008 W 103 33 8.638	8.638	742050.00	369958.00		359.58
KOP Build 12*100ft DLS	9122.55	0.00	359.58	9122.55	5785.55	0.00	0.00	0.00	N 32 0 53.008 W 103 33 8.638	8.638	742050.00	369958.00	0.00	359.58
Landing Point	9876.72	90.50	359.58	9600.00	6263.00	481.63	481.62	-3.53	N 32 0 57.774 W 103 33 8.638	8.638	742046.47	370439.61	12.00	-128.55
PBHL	14295.51	90.50	359.58	9561.50	6224.50	4900.26	4900.13	-36.00	N 32 1 41.500 W 103 33 8.644	8.644	742014.00	374858.00	0.00	



Drawn By: JNChen
Date Created: April 10, 2013 11:05 AM
Checked By: JNChen
Checked Date: April 10, 2013 11:05 AM
Approved By: JNChen
Approved Date: April 10, 2013 11:05 AM



EOG Ophelia 27 1H Rev0 mcs 10Apr13 Proposal Geodetic Report

(Def Plan)



Report Date: April 10, 2013 - 11:03 AM
Client: Eog Resources
Field: NM Lea County (NAD 27)
Structure / Slot: EOG Ophelia 27 1H / EOG Ophelia 27 1H
Well: EOG Ophelia 27 1H
Borehole: Original Borehole
UWI / API#: Cactus 123 / Unknown
Survey Name: EOG Ophelia 27 1H Rev0 mcs 10Apr13
Survey Date: April 10, 2013
Tori / AHD / DDI / ERD Ratio: 90.503 ° / 4900.259 ft / 5.820 / 0.510
Coordinate Reference System: NAD27 New Mexico State Plane, Eastern Zone, US Feet
Location Lat / Long: N 32° 0' 53.00788", W 103° 33' 8.63758"
Location Grid N/E Y/X: N 369958.000 ftUS, E 742050.000 ftUS
CRS Grid Convergence Angle: 0.4140 °
Grid Scale Factor: 0.9999762

Survey / DLS Computation: Minimum Curvature / Lubinski
Vertical Section Azimuth: 358.579 ° (Grid North)
Vertical Section Origin: 0.000 ft, 0.000 ft
TVD Reference Datum: RKB
TVD Reference Elevation: 3337.000 ft above
Seabed / Ground Elevation: 3307.000 ft above
Magnetic Declination: 7.442 °
Total Gravity Field Strength: 998.4783mgn (9.80665 Based)
Total Magnetic Field Strength: 48286.099 nT
Magnetic Dip Angle: 59.905 °
Declination Date: April 10, 2013
Magnetic Declination Model: BGM 2012
North Reference: Grid North
Grid Convergence Used: 0.4140 °
Total Corr Mag North->Grid North: 7.0275 °
Local Coord Referenced To: Structure Reference Point

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	TVDSS (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS ("/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")
SHL	0.00	0.00	359.58	0.00	-3337.00	0.00	0.00	0.00	N/A	369958.00	742050.00	N 32 0 53.01	W 103 33 8.64
	100.00	0.00	359.58	100.00	-3237.00	0.00	0.00	0.00	0.00	369958.00	742050.00	N 32 0 53.01	W 103 33 8.64
	200.00	0.00	359.58	200.00	-3137.00	0.00	0.00	0.00	0.00	369958.00	742050.00	N 32 0 53.01	W 103 33 8.64
	300.00	0.00	359.58	300.00	-3037.00	0.00	0.00	0.00	0.00	369958.00	742050.00	N 32 0 53.01	W 103 33 8.64
	400.00	0.00	359.58	400.00	-2937.00	0.00	0.00	0.00	0.00	369958.00	742050.00	N 32 0 53.01	W 103 33 8.64
	500.00	0.00	359.58	500.00	-2837.00	0.00	0.00	0.00	0.00	369958.00	742050.00	N 32 0 53.01	W 103 33 8.64
	600.00	0.00	359.58	600.00	-2737.00	0.00	0.00	0.00	0.00	369958.00	742050.00	N 32 0 53.01	W 103 33 8.64
	700.00	0.00	359.58	700.00	-2637.00	0.00	0.00	0.00	0.00	369958.00	742050.00	N 32 0 53.01	W 103 33 8.64
	800.00	0.00	359.58	800.00	-2537.00	0.00	0.00	0.00	0.00	369958.00	742050.00	N 32 0 53.01	W 103 33 8.64
	900.00	0.00	359.58	900.00	-2437.00	0.00	0.00	0.00	0.00	369958.00	742050.00	N 32 0 53.01	W 103 33 8.64
	1000.00	0.00	359.58	1000.00	-2337.00	0.00	0.00	0.00	0.00	369958.00	742050.00	N 32 0 53.01	W 103 33 8.64
	1100.00	0.00	359.58	1100.00	-2237.00	0.00	0.00	0.00	0.00	369958.00	742050.00	N 32 0 53.01	W 103 33 8.64
	1200.00	0.00	359.58	1200.00	-2137.00	0.00	0.00	0.00	0.00	369958.00	742050.00	N 32 0 53.01	W 103 33 8.64
	1300.00	0.00	359.58	1300.00	-2037.00	0.00	0.00	0.00	0.00	369958.00	742050.00	N 32 0 53.01	W 103 33 8.64
	1400.00	0.00	359.58	1400.00	-1937.00	0.00	0.00	0.00	0.00	369958.00	742050.00	N 32 0 53.01	W 103 33 8.64
	1500.00	0.00	359.58	1500.00	-1837.00	0.00	0.00	0.00	0.00	369958.00	742050.00	N 32 0 53.01	W 103 33 8.64
	1600.00	0.00	359.58	1600.00	-1737.00	0.00	0.00	0.00	0.00	369958.00	742050.00	N 32 0 53.01	W 103 33 8.64
	1700.00	0.00	359.58	1700.00	-1637.00	0.00	0.00	0.00	0.00	369958.00	742050.00	N 32 0 53.01	W 103 33 8.64
	1800.00	0.00	359.58	1800.00	-1537.00	0.00	0.00	0.00	0.00	369958.00	742050.00	N 32 0 53.01	W 103 33 8.64
	1900.00	0.00	359.58	1900.00	-1437.00	0.00	0.00	0.00	0.00	369958.00	742050.00	N 32 0 53.01	W 103 33 8.64
	2000.00	0.00	359.58	2000.00	-1337.00	0.00	0.00	0.00	0.00	369958.00	742050.00	N 32 0 53.01	W 103 33 8.64
	2100.00	0.00	359.58	2100.00	-1237.00	0.00	0.00	0.00	0.00	369958.00	742050.00	N 32 0 53.01	W 103 33 8.64
	2200.00	0.00	359.58	2200.00	-1137.00	0.00	0.00	0.00	0.00	369958.00	742050.00	N 32 0 53.01	W 103 33 8.64
	2300.00	0.00	359.58	2300.00	-1037.00	0.00	0.00	0.00	0.00	369958.00	742050.00	N 32 0 53.01	W 103 33 8.64
	2400.00	0.00	359.58	2400.00	-937.00	0.00	0.00	0.00	0.00	369958.00	742050.00	N 32 0 53.01	W 103 33 8.64
	2500.00	0.00	359.58	2500.00	-837.00	0.00	0.00	0.00	0.00	369958.00	742050.00	N 32 0 53.01	W 103 33 8.64
	2600.00	0.00	359.58	2600.00	-737.00	0.00	0.00	0.00	0.00	369958.00	742050.00	N 32 0 53.01	W 103 33 8.64
	2700.00	0.00	359.58	2700.00	-637.00	0.00	0.00	0.00	0.00	369958.00	742050.00	N 32 0 53.01	W 103 33 8.64
	2800.00	0.00	359.58	2800.00	-537.00	0.00	0.00	0.00	0.00	369958.00	742050.00	N 32 0 53.01	W 103 33 8.64
	2900.00	0.00	359.58	2900.00	-437.00	0.00	0.00	0.00	0.00	369958.00	742050.00	N 32 0 53.01	W 103 33 8.64
	3000.00	0.00	359.58	3000.00	-337.00	0.00	0.00	0.00	0.00	369958.00	742050.00	N 32 0 53.01	W 103 33 8.64
	3100.00	0.00	359.58	3100.00	-237.00	0.00	0.00	0.00	0.00	369958.00	742050.00	N 32 0 53.01	W 103 33 8.64
	3200.00	0.00	359.58	3200.00	-137.00	0.00	0.00	0.00	0.00	369958.00	742050.00	N 32 0 53.01	W 103 33 8.64
	3300.00	0.00	359.58	3300.00	-37.00	0.00	0.00	0.00	0.00	369958.00	742050.00	N 32 0 53.01	W 103 33 8.64
	3400.00	0.00	359.58	3400.00	63.00	0.00	0.00	0.00	0.00	369958.00	742050.00	N 32 0 53.01	W 103 33 8.64
	3500.00	0.00	359.58	3500.00	163.00	0.00	0.00	0.00	0.00	369958.00	742050.00	N 32 0 53.01	W 103 33 8.64
	3600.00	0.00	359.58	3600.00	263.00	0.00	0.00	0.00	0.00	369958.00	742050.00	N 32 0 53.01	W 103 33 8.64
	3700.00	0.00	359.58	3700.00	363.00	0.00	0.00	0.00	0.00	369958.00	742050.00	N 32 0 53.01	W 103 33 8.64
	3800.00	0.00	359.58	3800.00	463.00	0.00	0.00	0.00	0.00	369958.00	742050.00	N 32 0 53.01	W 103 33 8.64
	3900.00	0.00	359.58	3900.00	563.00	0.00	0.00	0.00	0.00	369958.00	742050.00	N 32 0 53.01	W 103 33 8.64
	4000.00	0.00	359.58	4000.00	663.00	0.00	0.00	0.00	0.00	369958.00	742050.00	N 32 0 53.01	W 103 33 8.64
	4100.00	0.00	359.58	4100.00	763.00	0.00	0.00	0.00	0.00	369958.00	742050.00	N 32 0 53.01	W 103 33 8.64
	4200.00	0.00	359.58	4200.00	863.00	0.00	0.00	0.00	0.00	369958.00	742050.00	N 32 0 53.01	W 103 33 8.64
	4300.00	0.00	359.58	4300.00	963.00	0.00	0.00	0.00	0.00	369958.00	742050.00	N 32 0 53.01	W 103 33 8.64
	4400.00	0.00	359.58	4400.00	1063.00	0.00	0.00	0.00	0.00	369958.00	742050.00	N 32 0 53.01	W 103 33 8.64
	4500.00	0.00	359.58	4500.00	1163.00	0.00	0.00	0.00	0.00	369958.00	742050.00	N 32 0 53.01	W 103 33 8.64
	4600.00	0.00	359.58	4600.00	1263.00	0.00	0.00	0.00	0.00	369958.00	742050.00	N 32 0 53.01	W 103 33 8.64
	4700.00	0.00	359.58	4700.00	1363.00	0.00	0.00	0.00	0.00	369958.00	742050.00	N 32 0 53.01	W 103 33 8.64
	4800.00	0.00	359.58	4800.00	1463.00	0.00	0.00	0.00	0.00	369958.00	742050.00	N 32 0 53.01	W 103 33 8.64
	4900.00	0.00	359.58	4900.00	1563.00	0.00	0.00	0.00	0.00	369958.00	742050.00	N 32 0 53.01	W 103 33 8.64
	5000.00	0.00	359.58	5000.00	1663.00	0.00	0.00	0.00	0.00	369958.00	742050.00	N 32 0 53.01	W 103 33 8.64
	5100.00	0.00	359.58	5100.00	1763.00	0.00	0.00	0.00	0.00	369958.00	742050.00	N 32 0 53.01	W 103 33 8.64
	5200.00	0.00	359.58	5200.00	1863.00	0.00	0.00	0.00	0.00	369958.00	742050.00	N 32 0 53.01	W 103 33 8.64
	5300.00	0.00	359.58	5300.00	1963.00	0.00	0.00	0.00	0.00	369958.00	742050.00	N 32 0 53.01	W 103 33 8.64
	5400.00	0.00	359.58	5400.00	2063.00	0.00	0.00	0.00	0.00	369958.00	742050.00	N 32 0 53.01	W 103 33 8.64
	5500.00	0.00	359.58	5500.00	2163.00	0.00	0.00	0.00	0.00	369958.00	742050.00	N 32 0 53.01	W 103 33 8.64
	5600.00	0.00	359.58	5600.00	2263.00	0.00	0.00	0.00	0.00	369958.00	742050.00	N 32 0 53.01	W 103 33 8.64
	5700.00	0.00	359.58	5700.00	2363.00	0.00	0.00	0.00	0.00	369958.00	742050.00	N 32 0 53.01	W 103 33 8.64
	5800.00	0.00	359.58	5800.00	2463.00	0.00	0.00	0.00	0.00	369958.00	742050.00	N 32 0 53.01	W 103 33 8.64
	5900.00	0.00	359.58	5900.00	2563.00	0.00	0.00	0.00	0.00	369958.00	742050.00	N 32 0 53.01	W 103 33 8.64
	6000.00	0.00	359.58	6000.00	2663.00	0.00	0.00	0.00	0.00	369958.00	742050.00	N 32 0 53.01	W 103 33 8.64
	6100.00	0.00	359.58	6100.00	2763.00	0.00	0.00	0.00	0.00	369958.00	742050.00	N 32 0 53.01	W 103 33 8.64
	6200.00	0.00	359.58	6200.00	2863.00	0.00	0.00	0.00	0.00	369958.00	742050.00	N 32 0 53.01	W 103 33 8.64
	6300.00	0.00	359.58	6300.00	2963.00	0.00	0.00	0.00	0.00	369958.00	742050.00	N 32 0 53.01	W 103 33 8.64
	6400.00	0.00	359.58	6400.00	3063.00	0.00	0.00	0.00	0.00	369958.00	742050.00	N 32 0 53.01	W 103 33 8.64
	6500.00	0.00	359.58	6500.00	3163.00	0.00	0.00	0.00	0.00	369958.00	742050.00	N 32 0 53.01	W 103 33 8.64
	6600.00	0.00	359.58	6600.00	3263.00	0.00	0.00	0.00	0.00	369958.00	742050.00	N 32 0 53.01	W 103 33 8.64
	670.												

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	TVDSS (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS ("/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")
	7400.00	0.00	359.58	7400.00	4063.00	0.00	0.00	0.00	0.00	369958.00	742050.00	N 32 0 53.01	W 103 33 8.64
	7500.00	0.00	359.58	7500.00	4163.00	0.00	0.00	0.00	0.00	369958.00	742050.00	N 32 0 53.01	W 103 33 8.64
	7600.00	0.00	359.58	7600.00	4263.00	0.00	0.00	0.00	0.00	369958.00	742050.00	N 32 0 53.01	W 103 33 8.64
	7700.00	0.00	359.58	7700.00	4363.00	0.00	0.00	0.00	0.00	369958.00	742050.00	N 32 0 53.01	W 103 33 8.64
	7800.00	0.00	359.58	7800.00	4463.00	0.00	0.00	0.00	0.00	369958.00	742050.00	N 32 0 53.01	W 103 33 8.64
	7900.00	0.00	359.58	7900.00	4563.00	0.00	0.00	0.00	0.00	369958.00	742050.00	N 32 0 53.01	W 103 33 8.64
	8000.00	0.00	359.58	8000.00	4663.00	0.00	0.00	0.00	0.00	369958.00	742050.00	N 32 0 53.01	W 103 33 8.64
	8100.00	0.00	359.58	8100.00	4763.00	0.00	0.00	0.00	0.00	369958.00	742050.00	N 32 0 53.01	W 103 33 8.64
	8200.00	0.00	359.58	8200.00	4863.00	0.00	0.00	0.00	0.00	369958.00	742050.00	N 32 0 53.01	W 103 33 8.64
	8300.00	0.00	359.58	8300.00	4963.00	0.00	0.00	0.00	0.00	369958.00	742050.00	N 32 0 53.01	W 103 33 8.64
	8400.00	0.00	359.58	8400.00	5063.00	0.00	0.00	0.00	0.00	369958.00	742050.00	N 32 0 53.01	W 103 33 8.64
	8500.00	0.00	359.58	8500.00	5163.00	0.00	0.00	0.00	0.00	369958.00	742050.00	N 32 0 53.01	W 103 33 8.64
	8600.00	0.00	359.58	8600.00	5263.00	0.00	0.00	0.00	0.00	369958.00	742050.00	N 32 0 53.01	W 103 33 8.64
	8700.00	0.00	359.58	8700.00	5363.00	0.00	0.00	0.00	0.00	369958.00	742050.00	N 32 0 53.01	W 103 33 8.64
	8800.00	0.00	359.58	8800.00	5463.00	0.00	0.00	0.00	0.00	369958.00	742050.00	N 32 0 53.01	W 103 33 8.64
	8900.00	0.00	359.58	8900.00	5563.00	0.00	0.00	0.00	0.00	369958.00	742050.00	N 32 0 53.01	W 103 33 8.64
	9000.00	0.00	359.58	9000.00	5663.00	0.00	0.00	0.00	0.00	369958.00	742050.00	N 32 0 53.01	W 103 33 8.64
	9100.00	0.00	359.58	9100.00	5763.00	0.00	0.00	0.00	0.00	369958.00	742050.00	N 32 0 53.01	W 103 33 8.64
	9122.55	0.00	359.58	9122.55	5785.55	0.00	0.00	0.00	0.00	369958.00	742050.00	N 32 0 53.01	W 103 33 8.64
	9200.00	9.29	359.58	9199.66	5862.66	6.27	6.27	-0.05	12.00	369964.27	742049.95	N 32 0 53.07	W 103 33 8.64
	9300.00	21.29	359.58	9295.94	5958.94	32.60	32.60	-0.24	12.00	369990.60	742049.76	N 32 0 53.33	W 103 33 8.64
	9400.00	33.29	359.58	9384.65	6047.65	78.37	78.37	-0.57	12.00	370036.36	742049.43	N 32 0 53.78	W 103 33 8.64
	9500.00	45.29	359.58	9461.90	6124.90	141.58	141.58	-1.04	12.00	370099.58	742048.96	N 32 0 54.41	W 103 33 8.64
	9600.00	57.29	359.58	9524.31	6187.31	219.48	219.47	-1.61	12.00	370177.47	742048.39	N 32 0 55.18	W 103 33 8.64
	9700.00	69.29	359.58	9569.17	6232.17	308.65	308.64	-2.26	12.00	370266.63	742047.74	N 32 0 56.06	W 103 33 8.64
	9800.00	81.29	359.58	9594.51	6257.51	405.19	405.18	-2.97	12.00	370363.17	742047.03	N 32 0 57.02	W 103 33 8.64
Landing Point	9876.72	90.50	359.58	9600.00	6263.00	481.63	481.62	-3.53	12.00	370439.61	742046.47	N 32 0 57.77	W 103 33 8.64
	9900.00	90.50	359.58	9599.79	6262.79	504.91	504.90	-3.70	0.00	370462.89	742046.30	N 32 0 58.00	W 103 33 8.64
	10000.00	90.50	359.58	9598.92	6261.92	604.91	604.89	-4.43	0.00	370562.88	742045.57	N 32 0 58.99	W 103 33 8.64
	10100.00	90.50	359.58	9598.05	6261.05	704.91	704.89	-5.17	0.00	370662.87	742044.83	N 32 0 59.98	W 103 33 8.64
	10200.00	90.50	359.58	9597.18	6260.18	804.90	804.88	-5.90	0.00	370762.86	742044.10	N 32 1 0 0.97	W 103 33 8.64
	10300.00	90.50	359.58	9596.30	6259.30	904.90	904.87	-6.63	0.00	370862.85	742043.37	N 32 1 1 9.96	W 103 33 8.64
	10400.00	90.50	359.58	9595.43	6258.43	1004.89	1004.87	-7.37	0.00	370962.84	742042.63	N 32 1 2 9.95	W 103 33 8.64
	10500.00	90.50	359.58	9594.56	6257.56	1104.89	1104.86	-8.10	0.00	371062.83	742041.90	N 32 1 3 9.94	W 103 33 8.64
	10600.00	90.50	359.58	9593.69	6256.69	1204.89	1204.85	-8.83	0.00	371162.82	742041.17	N 32 1 4 9.93	W 103 33 8.64
	10700.00	90.50	359.58	9592.81	6255.81	1304.88	1304.85	-9.57	0.00	371262.81	742040.43	N 32 1 5 9.92	W 103 33 8.64
	10800.00	90.50	359.58	9591.94	6254.94	1404.88	1404.84	-10.30	0.00	371362.81	742039.70	N 32 1 6 9.91	W 103 33 8.64
	10900.00	90.50	359.58	9591.07	6254.07	1504.88	1504.84	-11.04	0.00	371462.80	742038.96	N 32 1 7 9.90	W 103 33 8.64
	11000.00	90.50	359.58	9590.20	6253.20	1604.87	1604.83	-11.77	0.00	371562.79	742038.23	N 32 1 8 9.89	W 103 33 8.64
	11100.00	90.50	359.58	9589.33	6252.33	1704.87	1704.82	-12.50	0.00	371662.78	742037.50	N 32 1 9 9.88	W 103 33 8.64
	11200.00	90.50	359.58	9588.45	6251.45	1804.86	1804.82	-13.24	0.00	371762.77	742036.76	N 32 1 10 9.87	W 103 33 8.64
	11300.00	90.50	359.58	9587.58	6250.58	1904.86	1904.81	-13.97	0.00	371862.76	742036.03	N 32 1 11 9.86	W 103 33 8.64
	11400.00	90.50	359.58	9586.71	6249.71	2004.86	2004.80	-14.71	0.00	371962.75	742035.29	N 32 1 12 9.85	W 103 33 8.64
	11500.00	90.50	359.58	9585.84	6248.84	2104.85	2104.80	-15.44	0.00	372062.74	742034.56	N 32 1 13 9.84	W 103 33 8.64
	11600.00	90.50	359.58	9584.97	6247.97	2204.85	2204.79	-16.17	0.00	372162.73	742033.83	N 32 1 14 9.83	W 103 33 8.64
	11700.00	90.50	359.58	9584.10	6247.10	2304.85	2304.78	-16.91	0.00	372262.72	742033.09	N 32 1 15 9.82	W 103 33 8.64
	11800.00	90.50	359.58	9583.23	6246.23	2404.84	2404.78	-17.64	0.00	372362.71	742032.36	N 32 1 16 9.81	W 103 33 8.64
	11900.00	90.50	359.58	9582.35	6245.35	2504.84	2504.77	-18.38	0.00	372462.71	742031.62	N 32 1 17 9.80	W 103 33 8.64
	12000.00	90.50	359.58	9581.48	6244.48	2604.83	2604.76	-19.11	0.00	372562.70	742030.89	N 32 1 18 9.79	W 103 33 8.64
	12100.00	90.50	359.58	9580.61	6243.61	2704.83	2704.76	-19.85	0.00	372662.69	742030.15	N 32 1 19 9.78	W 103 33 8.64
	12200.00	90.50	359.58	9579.74	6242.74	2804.83	2804.75	-20.58	0.00	372762.68	742029.42	N 32 1 20 9.77	W 103 33 8.64
	12300.00	90.50	359.58	9578.87	6241.87	2904.82	2904.74	-21.32	0.00	372862.67	742028.68	N 32 1 21 9.76	W 103 33 8.64
	12400.00	90.50	359.58	9578.00	6241.00	3004.82	3004.74	-22.05	0.00	372962.66	742027.95	N 32 1 22 9.75	W 103 33 8.64
	12500.00	90.50	359.58	9577.13	6240.13	3104.82	3104.73	-22.79	0.00	373062.65	742027.21	N 32 1 23 9.74	W 103 33 8.64
	12600.00	90.50	359.58	9576.26	6239.26	3204.81	3204.72	-23.52	0.00	373162.64	742026.48	N 32 1 24 9.73	W 103 33 8.64
	12700.00	90.50	359.58	9575.39	6238.39	3304.81	3304.72	-24.26	0.00	373262.63	742025.74	N 32 1 25 9.72	W 103 33 8.64
	12800.00	90.50	359.58	9574.51	6237.51	3404.80	3404.71	-24.99	0.00	373362.62	742025.01	N 32 1 26 9.71	W 103 33 8.64
	12900.00	90.50	359.58	9573.64	6236.64	3504.80	3504.71	-25.73	0.00	373462.62	742024.27	N 32 1 27 9.70	W 103 33 8.64
	13000.00	90.50	359.58	9572.77	6235.77	3604.80	3604.70	-26.46	0.00	373562.61	742023.54	N 32 1 28 9.69	W 103 33 8.64
	13100.00	90.50	359.58	9571.90	6234.90	3704.79	3704.69	-27.20	0.00	373662.60	742022.80	N 32 1 29 9.68	W 103 33 8.64
	13200.00	90.50	359.58	9571.03	6234.03	3804.79	3804.69	-27.94	0.00	373762.59	742022.06	N 32 1 30 9.67	W 103 33 8.64
	13300.00	90.50	359.58	9570.16	6233.16	3904.78	3904.68	-28.67	0.00	373862.58	742021.33	N 32 1 31 9.66	W 103 33 8.64
	13400.00	90.50	359.58	9569.29	6232.29	4004.78	4004.67	-29.41	0.00	373962.57	742020.59	N 32 1 32 9.65	W 103 33 8.64
	13500.00	90.50	359.58	9568.42	6231.42	4104.78	4104.67	-30.14	0.00	374062.56	742019.86	N 32 1 33 9.64	W 103 33 8.64
	13600.00	90.50	359.58	9567.55	6230.55	4204.77	4204.66	-30.88	0.00	374162.55	742019.12	N 32 1 34 9.63	W 103 33 8.64
	13700.00	90.50	359.58	9566.68	6229.68	4304.77	4304.65	-31.62	0.00	374262.54	742018.39	N 32 1 35 9.62	W 103 33 8.64
	13800.00	90.50	359.58	9565.81	6228.81	4404.77	4404.65	-32.35	0.00	374362.53	742017.65	N 32 1 36 9.61	W 103 33 8.64
	13900.00	90.50	359.58	9564.94	6227.94	4504.76	4504.64	-33.09	0.00	374462.52	742016.91	N 32 1 37 9.60	W 103 33 8.64
	14000.00	90.50	359.58	9564.07	6227.07	4604.76	4604.63	-33.82	0.00	374562.52	742016.18	N 32 1 38 9.59	W 103 33 8.64
	14100.00	90.50	359.58	9563.20	6226.20	4704.75	4704.63	-34.56	0.00	374662.51	742015.44	N 32 1 39 9.58	W 103 33 8.64
	14200.00	90.50	359.58	9562.33	6225.33	4804.75	4804.62	-35.30	0.00	374762.50	742014.70	N 32 1 40 9.57	W 103 33 8.64
EOG Ophelia 27 1H - PBHL	14295.51	90.50	359.58	9561.									

EOG RESOURCES, INC.
OPHELIA 27 #1H

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.

EOG RESOURCES, INC.
OPHELIA 27 #1H

■ **Mud program:**

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:**

- a. 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.

EOG RESOURCES, INC.
OPHELIA 27 #1H

Emergency Assistance Telephone List

PUBLIC SAFETY: **911 or**

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:

Danny Kiser Will Henderson	Cell (432) 894-3417
Larry King	

Drilling Engineer

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

Operations Manager

Travis Lain	Office (432) 686-3740
	Cell (432) 254-3521

Drilling Superintendents

Ron Welch	Office (432) 686-3695
	Cell (432) 386-0592
Barney Thompson	Office (432) 686-3678
	Cell (432) 254-9056

Cactus Drilling

Cactus Drilling	Office (580) 799-2752
Cactus 123 Drilling Rig	Rig (432) 894-3417

Tool Pusher:

Jack Herndon	Cell (405) 519-6552
Larry Slife	Cell (405) 250-6368

Safety

James Fischer (HSE Manager)	Office (432) 686-3747
	Cell (817) 253-3725
Brian Chandler	Cell (806) 777-8814
Terry Maxwell (Consultant)	Cell (432) 349-6926