Form 3160-5 (June 2015)

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT Carlsbad Field Optice 1004-0137 Expires: January 31, 2018 Company Serial No.

SUNDRY	NOTICES AND REPO is form for proposals to	RTS ON WELLS	UNIMINION 9858	
abandoned we	II. Use form 3160-3 (API	RTS ON WELLS drill or to re-enter an D) for such proposals. tructions on page	6. If Indian, Allottee	
SUBMIT IN	TRIPLICATE - Other inst	tructions on page	7. If Unit or CA/Agree	eement, Name and/or No.
Type of Well	ner	DEC	8. Well Name and No HAWK 26 FED	bert
Name of Operator EOG RESOURCES, INC.		STAN WAGNER er@eogresources.com	9. API Well No. 30-025-42399	
3a. Address ATTN: STAN WAGNER P.O. MIDLAND, TX 79702	BOX 2267	3b. Phone No. (include area code) Ph: 432-686-3689	10. Field and Pool or	Exploratory Area 3361 UPPER WC
4. Location of Well (Footage, Sec. T	R M or Survey Description)	11. County or Parish,	State
Sec 26 T24S R33E Mer NMP	SWSE 500FSL 2434FEL	,	LEA COUNTY,	NM
12. CHECK THE AF	PPROPRIATE BOX(ES)	TO INDICATE NATURE O	F NOTICE, REPORT, OR OT	HER DATA
TYPE OF SUBMISSION		TYPE O	FACTION	
Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
	☐ Alter Casing	☐ Hydraulic Fracturing	☐ Reclamation	☐ Well Integrity
☐ Subsequent Report	☐ Casing Repair	■ New Construction	□ Recomplete	Other
☐ Final Abandonment Notice	☐ Change Plans	□ Plug and Abandon	□ Temporarily Abandon	Change to Original A
	☐ Convert to Injection	☐ Plug Back	□ Water Disposal	
Change BHL to 230' FSL & 2:	r Wolfcamp 232' FEL 35-24S-33E	CONDI	TIONS OF APPRO	VAL
14. Thereby certify that the foregoing is	Electronic Submission #3	396314 verified by the BLM We RESOURCES, INC., sent to the		
Name (Printed Typed) STAN WA			ATORY SPECIALIST	
Signature (Electronic S	Submission)	Date 11/29/2	OLI APPROVED	
	THIS SPACE FO	OR FEDERAL OR STATE		7
Approved By Mushac Conditions of approval, if any, are attached		not warrant or	TROLEUM ENGINEER?	Date 12-13-201
certify that the applicant holds legal or equ which would entitle the applicant to condu	ct operations thereon.	Office Circ	BUREAU OF LAND MANAGEN	
Title 18 U.S.C. Section 1001 and Title 43 States any false, fictitious or fraudulent s				ragency of the United
(Instructions on page 2) ** OPERAT	OR-SUBMITTED ** O	PERATOR-SUBMITTED *	* OPERATOR-SUBMITTED	** 1/2

PECOS DISTRICT CONDITIONS OF APPROVAL

OPERATOR'S NAME: | EOG Resources, Inc.

LEASE NO.: NMNM-19858

WELL NAME & NO.: Hawk 26 Fed 706H

SURFACE HOLE FOOTAGE: 0500' FSL & 2434' FEL

BOTTOM HOLE FOOTAGE | 0230' FSL & 2232' FEL Sec. 35, T. 24 S., R 33 E.

LOCATION: | Section 26, T. 24 S., R 33 E., NMPM

COUNTY: Lea County, New Mexico

All previous COAs still apply except the following:

A. DRILLING OPERATIONS REQUIREMENTS

The BLM is to be notified in advance for a representative to witness:

- a. Spudding well (minimum of 24 hours)
- b. Setting and/or Cementing of all casing strings (minimum of 4 hours)
- c. BOPE tests (minimum of 4 hours)
 - Chaves and Roosevelt Counties
 Call the Roswell Field Office, 2909 West Second St., Roswell NM 88201. During
 office hours call (575) 627-0272.
 After office hours call (575)
 - Eddy County
 Call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220, (575) 361-2822
 - ☐ Lea County
 Call the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240, (575) 393-3612
- 1. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.
 - a. In the event the operator has proposed to drill multiple wells utilizing a skid/walking rig. Operator shall secure the wellbore on the current well, after installing and testing the wellhead, by installing a blind flange of like pressure rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other well(s).
 - b. When the operator proposes to set surface casing with Spudder Rig
 - Notify the BLM when moving in and removing the Spudder Rig.
 - Notify the BLM when moving in the 2nd Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.

• BOP/BOPE test to be conducted per Onshore Oil and Gas Order No. 2 as soon as 2nd Rig is rigged up on well.

B. CASING

Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.

Centralizers required on surface casing per Onshore Order 2.III.B.1.f.

Wait on cement (WOC) for Water Basin:

After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements.

Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. Have well specific cement details onsite prior to pumping the cement for each casing string.

No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.

Risks:

Possibility of Water flows in the Castile and Salado.

Possibility of lost circulation in the Red Beds, Rustler, and Delaware.

Abnormal pressure may be encountered within the 3rd Bone Spring Sandstone and all subsequent formations. Operator may need to increase mud weight.

- 1. The 13 3/8 inch surface casing shall be set at approximately 1300 feet (in a competent bed below the Magenta Dolomite, which is a Member of the Rustler, and if salt is encountered, set casing at least 25 feet above the salt) and cemented to the surface.
 - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.

- b. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry.
- c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
- d. If cement falls back, remedial cementing will be done prior to drilling out that string.
- 2. The minimum required fill of cement behind the 9 5/8 inch first intermediate casing is:

Cement to surface.	If cement does no	ot circulate see B.1.a	, c-d above.
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Formation below the 9 5/8 inch shoe to be tested according to Onshore Order 2.III.B.1.i. Test to be done as a mud equivalency test using the mud weight necessary for the pore pressure of the formation below the shoe (not the mud weight required to prevent dissolving the salt formation) and the mud weight for the bottom of the hole. Report results to BLM office.

Second Intermediate casing must be kept fluid filled to meet BLM minimum collapse requirement.

- 3. The minimum required fill of cement behind the 7 5/8 inch second intermediate casing is:
 - Cement should tie-back at least 200 feet into previous casing string. Operator shall provide method of verification.

Formation below the 7 5/8 inch shoe to be tested according to Onshore Order 2.III.B.1.i. Test to be done as a mud equivalency test using the mud weight necessary for the pore pressure of the formation below the shoe (not the mud weight required to prevent dissolving the salt formation) and the mud weight for the bottom of the hole. Report results to BLM office.

- 4. The minimum required fill of cement behind the $5\,1/2$ inch production casing is:
 - Cement should tie-back at least 200 feet into previous casing string. Operator shall provide method of verification.
- 4. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.

C. PRESSURE CONTROL

- 1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in Onshore Oil and Gas Order No. 2 and API 53.
- 2. Variance approved to use flex line from BOP to choke manifold. Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor. If the BLM inspector questions the straightness of the hose, a BLM engineer will be contacted and will review in the field or via picture supplied by inspector to determine if changes are required (operator shall expect delays if this occurs).
- 3. Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on the surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be 10,000 (10M) psi.
 - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
 - c. Manufacturer representative shall install the test plug for the initial BOP test.
 - d. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.

10M system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.

- 4. Variance approved to use a 5M annular. The annular must be tested to full working pressure (5000 psi).
- 5. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
 - a. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after

bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead when specified), whichever is greater. However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).

- b. The tests shall be done by an independent service company utilizing a test plug **not** a **cup or J-packer**. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to Onshore Order 2 with the pressure not to exceed 70% of the burst rating for the casing. Any test against the casing must meet the WOC time for water basin (8 hours) or potash (24 hours) or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).
- c. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one hour chart. A circular chart shall have a maximum 2 hour clock. If a twelve hour or twenty-four hour chart is used, tester shall make a notation that it is run with a two hour clock.
- d. The results of the test shall be reported to the appropriate BLM office.
- e. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.
- f. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.
- g. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the **Wolfcamp** formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per Onshore Order No. 2.

D. DRILLING MUD

Mud system monitoring equipment, with derrick floor indicators and visual and audio alarms, shall be operating before drilling into the **Wolfcamp** formation, and shall be used until production casing is run and cemented.

Proposed mud weight may not be adequate for drilling through Wolfcamp.

MHH 12132017

Revised Permit Information 11/28/17:

Well Name: Hawk 26 Fed No. 706H

Location:

SL: 500° FSL & 2434° FEL, Section 26, T-24-S, R-33-E, Lea Co., N.M. BHL: 230° FSL & 2232° FEL, Section 35, T-24-S, R-33-E, Lea Co., N.M.

Casing Program:

Hole		Csg				\mathbf{DF}_{min}	DF _{min}	DFmin
Size	Interval	OD	Weight	Grade	Conn	Collapse	Burst	Tension
17.5"	0-1,240	13.375"	54.5#	J55	STC	1.125	1.25	1.60
12.25"	0-4,000'	9.625"	40#	J55	LTC	1.125	1.25	1.60
12.25"	4,000' - 5,100'	9.625"	40#	HCK55	LTC	1.125	1.25	1.60
8.75"	0 - 11,500	7.625"	29.7#	HCP-110	FlushMax III	1.125	1.25	1.60
6.75"	0'-17,829'	5.5"	20#	HCP-110	VAM SFC	1.125	1.25	1.60

Cement Program:

	No.	Wt.	Yld	Water	
Depth	Sacks	lb/gal	Ft ³ /ft	Gal/sk	Slurry Description
1,240	600	13.5	1.74	9.13	Lead: Class 'C' + 4.00% Bentonite + 2.00% CaCl2
1300'					(TOC @ Surface)
150	300	14.8	1.35	6.34	Tail: Class 'C' + 0.6% FL-62 + 0.25 lb/sk Cello-Flake +
					0.2% Sodium Metasilicate + 2.0% KCl (1.06 lb/sk)
5,100'	1780	12.7	2.20	11.64	Lead: Class C + 0.15% C-20 + 11.63 pps Salt + 0.1% C-51
					+ 0.75% C-41P (TOC @ Surface)
	200	16.0	1.12	4.75	Tail: Class C + 0.13% C-20
11,500'	340	11.5	2.72	15.70	Lead: Class C + 0.40% D013 + 0.20% D046 + 0.10% D065
					+ 0.20% D167 (TOC @ 4,600')
	210	16.0	1.12	4.74	Tail: Class H + 94.0 pps D909 + 0.25% D065 + 0.30%
					D167 + 0.02% D208 + 0.15% D800
17,829'	950	14.1	1.26	5.80	Class H + 0.1% C-20 + 0.05% CSA-1000 + 0.20% C-49 +
					0.40% C-17 (TOC @ 11,000')

Mud Program:		/	/	1
Depth	Type	Weight (ppg)	Viscosity	Water Loss
0-1,240' 136	Fresh - Gel	8.6-8.8	28-34	N/c
1,240' - 5,000	Brine	10.0-10/2	28-34	N/c
5,000'-11,800'	Oil Base	8.7-8.4	58-68	N/c - 6/
11,500'-17,829'	Oil Base	10.0-11.5	58-68	3 - 6/
Lateral				
	/	/		
		/	/	/

EOG RESOURCES, INC. HAWK 26 FED NO. 706 H

5. MINIMUM SPECIFICATIONS FOR PRESSURE CONTROL:

Variance is requested to use a co-flex line between the BOP and choke manifold (instead of using a 4" OD steel line).

The minimum blowout preventer equipment (BOPE) shown in Exhibit #1 will consist of a single ram, mud cross and double ram-type (10,000 psi WP) preventer and an annular preventer (10,000-psi WP). Both units will be hydraulically operated and the ram-type will be equipped with blind rams on bottom and drill pipe rams on top. All BOPE will be tested in accordance with Onshore Oil & Gas order No. 2.

Variance is requested to use a 5,000 psi annular BOP with the 10,000 psi BOP stack.

Before drilling out of the surface casing, the ram-type BOP and accessory equipment will be tested to 10,000/250 psig and the annular preventer to 5,000/250 psig. The surface casing will be tested to 1500 psi for 30 minutes.

Before drilling out of the intermediate casing, the ram-type BOP and accessory equipment will be tested to 10,000/250 psig and the annular preventer to 5000/250 psig. The intermediate casing will be tested to 2000 psi for 30 minutes.

Pipe rams will be operationally checked each 24-hour period. Blind rams will be operationally checked on each trip out of the hole. These checks will be noted on the daily tour sheets.

A hydraulically operated choke will be installed prior to drilling out of the intermediate casing shoe.

6. TYPES AND CHARACTERISTICS OF THE PROPOSED MUD SYSTEM:

During this procedure we plan to use a Closed-Loop System and haul contents to the required disposal.

The applicable depths and properties of the drilling fluid systems are as follows.

Depth	Type	Weight (ppg)	Viscosity	Water Loss
0-1,2401300	Fresh - Gel	8.6-8.8	28-34	N/c
1.240' - 5.100'	Brine	10.0-10.2	28-34	N/c
5,100' - 11,500'	Oil Base	8.7-9.4	58-68	N/c - 6
11,500' - 17,852'	Oil Base	10.0-14.0	58-68	3 - 6
Lateral				

The highest mud weight needed to balance formation is expected to be 11.5 ppg. In order to maintain hole stability, mud weights up to 14.0 ppg may be utilized.

EOG RESOURCES, INC. HAWK 26 FED NO. 706 H

An electronic pit volume totalizer (PVT) will be utilized on the circulating system, to monitor pit volume, flow rate, pump pressure and stroke rate.

Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements will be kept at the wellsite at all times.

7. AUXILIARY WELL CONTROL AND MONITORING EQUIPMENT:

- (A) A kelly cock will be kept in the drill string at all times.
- (B) A full opening drill pipe-stabbing valve (inside BOP) with proper drill pipe connections will be on the rig floor at all times.
- (C) H₂S monitoring and detection equipment will be utilized from surface casing point to TD.

8. LOGGING, TESTING AND CORING PROGRAM:

Open-hole logs are not planned for this well.

GR-CCI. Will be run in cased hole during completions phase of operations.

9. ABNORMAL CONDITIONS, PRESSURES, TEMPERATURES AND POTENTIAL HAZARDS:

The estimated bottom-hole temperature (BHT) at TD is 181 degrees F with an estimated maximum bottom-hole pressure (BHP) at TD of 9129 psig (based on 14.0 ppg MW). No hydrogen sulfide or other hazardous gases or fluids have been encountered, reported or are known to exist at this depth in this area. Severe loss circulation is expected from 7.300' to Intermediate casing point.

EOG RESOURCES, INC. HAWK 26 FED NO. 706H

10. ANTICIPATED STARTING DATE AND DURATION OF OPERATIONS:

The drilling operation should be finished in approximately one month. If the well is productive, an additional 60-90 days will be required for completion and testing before a decision is made to install permanent facilities.

(A) EOG Resources requests the option to contract a Surface Rig to drill, set surface casing, and cement on the subject well. After WOC 8 hours or 500 psi compressive strength (whichever is greater), the Surface Rig will move off so the wellhead can be installed. A welder will cut the casing to the proper height and weld on the wellhead (both "A" and "B" sections). The weld will be tested to 1000 psi. All valves will be closed and a wellhead cap will be installed (diagram attached). If the timing between rigs is such that EOG Resources would not be able to preset the surface, the Primary Rig will MIRU and drill the well in its entirety per the APD.

11. WELLHEAD:

A multi-bowl wellhead system will be utilized.

After running the 10-3/4" surface casing, a 13-5/8" BOP/BOPE system with a minimum working pressure of 10,000 psi will be installed on the wellhead system and will be pressure tested to 250 psi low followed by a 10,000 psi pressure test. This pressure test will be repeated at least every 30 days, as per Onshore Order No. 2

The minimum working pressure of the BOP and related BOPE required for drilling below the surface casing shoe shall be 10.000 psi.

The multi-bowl wellhead will be installed by vendor's representative(s). A copy of the installation instructions for the Stream Flo FBD100 Multi-Bowl WII system has been sent to the NM BLM office in Carlsbad, NM.

The wellhead will be installed by a third party welder while being monitored by WH vendor's representative.

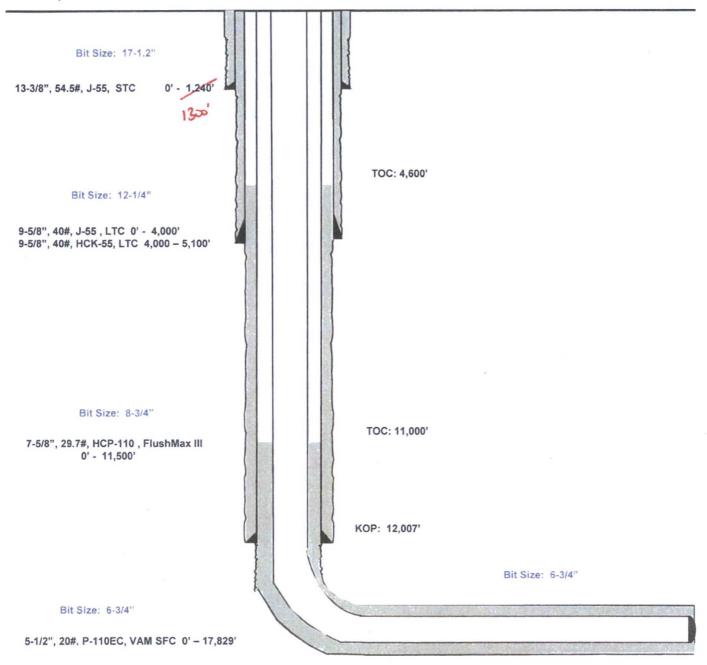
All BOP equipment will be tested utilizing a conventional test plug. Not a cup or J-packer type.

A solid steel body pack-off will be utilized after running and cementing the intermediate casing. After installation the pack-off and lower flange will be pressure tested to 5000 psi.

Both the surface and intermediate casing strings will be tested as per Onshore Order No. 2 to at least 0.22 psi/ft or 1500 psi, whichever is greater.

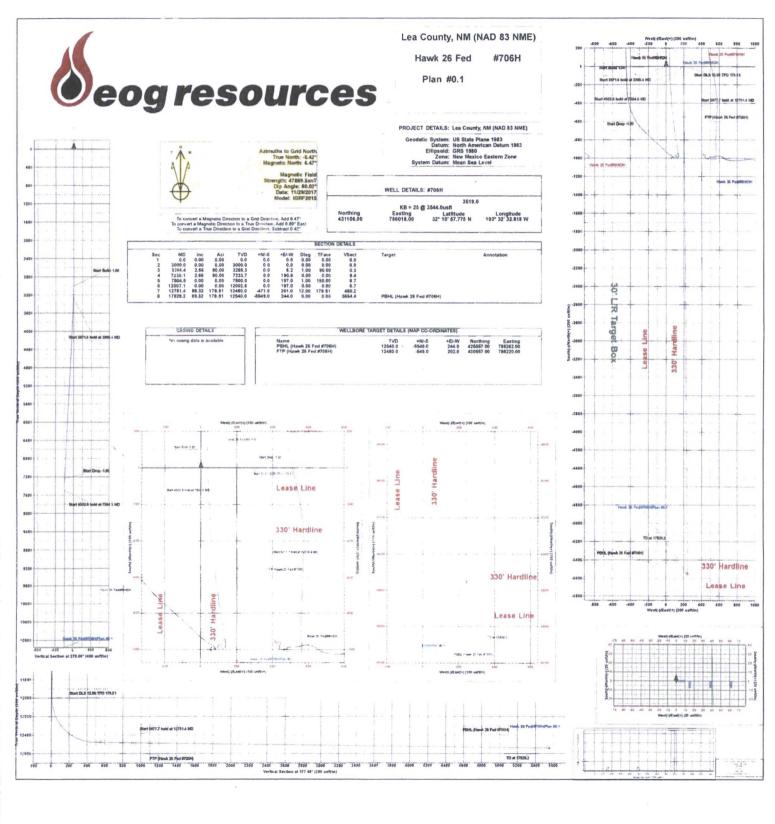
500' FSL 2434' FEL Section 26 T-24-S, R-33-E Lea County, New Mexico Proposed Wellbore Revised 11/28/17 API: 30-025-42399

KB: 3,544' GL: 3,519'



Lateral: 17,829' MD, 12,540' TVD Upper Most Perf: 50' FNL & 2237' FEL Sec. 35 Lower Most Perf: 330' FSL & 2232' FEL Sec. 35 BH Location: 230' FSL & 2232' FEL

Section 35 T-24-S, R-33-E





EOG Resources - Midland

Lea County, NM (NAD 83 NME) Hawk 26 Fed #706H

OH

Plan: Plan #0.1

Standard Planning Report

29 November, 2017



Database:

EDM 5000.14

Company

EOG Resources - Midland Lea County, NM (NAD 83 NME)

Project: Site:

Hawk 26 Fed

Well: Wellbore: Design:

ОН Plan #0.1

#706H

Local Co-ordinate Reference:

TVD Reference:

MD Reference:

Well #706H

KB = 25 @ 3544.0usft KB = 25 @ 3544.0usft

North Reference:

Survey Calculation Method:

Grid

Minimum Curvature

Project

Lea County, NM (NAD 83 NME)

Map System:

US State Plane 1983

Geo Datum: Map Zone:

North American Datum 1983 New Mexico Eastern Zone

System Datum:

Mean Sea Level

Site

Well

Hawk 26 Fed

Site Position:

Well Position

Northing:

431,092.00 usft

Latitude:

32° 10' 57.794 N

From: **Position Uncertainty:** Мар

Easting: Slot Radius: 783,852.00 usft

Longitude:

13-3/16 "

Grid Convergence:

103° 32' 58.022 W

0.42°

#706H

+N/-S +E/-W

14.0 usft

2,166.0 usft

Northing: Easting:

431.106.00 usft

Latitude:

32° 10' 57.775 N

Position Uncertainty

0.0 usft

0.0 usft

Wellhead Elevation:

786,018.00 usft

Longitude: Ground Level: 103° 32' 32.818 W

3,519.0 usft

Wellbore

OH

Magnetics

Model Name

Sample Date

Declination (°)

Dip Angle (°)

Field Strength (nT)

IGRF2015

11/29/2017

6.89

60.02

47,869.49838174

Design

Plan #0.1

Audit Notes:

Version:

Phase:

PLAN

Tie On Depth:

0.0

Vertical Section:

Depth From (TVD) (usft) 0.0

11/29/2017

+N/-S (usft) 0.0

+E/-W (usft) 0.0

Direction (°) 177.48

Plan Survey Tool Program

(usft)

Depth From

Depth To (usft)

Survey (Wellbore)

Tool Name

Remarks

0.0

17.828.8 Plan #0.1 (OH)

Date

MWD

MWD - Standard

lan Sections										
Measured		Contract.	Vertical			Dogleg	Build	Turn		A COUNTY OF THE PARTY OF THE PA
Depth (usft)	Inclination (°)	Azimuth (°)	Depth (usft)	+N/-S (usft)	+E/-W (usft)	Rate (°/100usft)	Rate (°/100usft)	Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
3.000.0	0.00	0.00	3,000.0	0.0	0.0	0.00	0.00	0.00	0.00	
3,266.4	2.66	90.00	3,266.3	0.0	6.2	1.00	1.00	0.00	90.00	
7,238.1	2.66	90.00	7.233.7	0.0	190.8	0.00	0.00	0.00	0.00	
7,504.5	0.00	0.00	7,500.0	0.0	197.0	1.00	-1.00	0.00	180.00	
12,007.1	0.00	0.00	12,002.6	0.0	197.0	0.00	0.00	0.00	0.00	
12,751.4	89.32	179.51	12.480.0	-471.8	201.0	12.00	12.00	24.12	179.51	
17,829.2	89.32	179.51	12.540.0	-5,549.0	244.0	0.00	0.00	0.00	0.00	PBHL (Hawk 26 Fed



Database: Company: EDM 5000.14

EOG Resources - Midland Lea County, NM (NAD 83 NME)

Project: Site: Well:

Hawk 26 Fed

Wellbore: Design:

#706H ОН Plan #0.1 Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well #706H

KB = 25 @ 3544.0usft KB = 25 @ 3544.0usft

Grid

Minimum Curvature

Measured			Vertical	A STATE OF THE STA		Vertical	Dogleg	Build	Turn
Depth	Inclination	Azimuth	Depth	+N/-S	+E/-W	Section	Rate	Rate	Rate
(usft)	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(°/100usft)	(°/100usft)	(°/100usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	0.00
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	0.00
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	0.00
1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	0.00	0.00
2.000.0	0.00	0.00	2.000.0	0.0	0.0	0.0	0.00	0.00	0.00
2.100.0	0.00	0.00	2,100.0	0.0	0.0	0.0	0.00	0.00	0.00
2,200.0	0.00	0.00	2,200.0	0.0	0.0	0.0	0.00		
	0.00		2,300.0	0.0				0.00	0.00
2,300.0	0.00	0.00	2,400.0	0.0	0.0	0.0	0.00	0.00	0.00
2.500.0	0.00	0.00	2,500.0	0.0	0.0	0.0	0.00		
								0.00	0.00
2,600.0	0.00	0.00	2,600.0	0.0	0.0	0.0	0.00	0.00	0.00
2,700.0	0.00	0.00	2,700.0	0.0	0.0	0.0	0.00	0.00	0.00
2.800.0	0.00	0.00	2,800.0	0.0	0.0	0.0	0.00	0.00	0.00
2.900.0	0.00	0.00	2 900.0	0.0	0.0	0.0	0.00	0.00	0.00
3.000.0	0.00	0.00	3.000.0	0.0	0.0	0.0	0.00	0.00	0.00
3.100.0	1.00	90.00	3.100.0	0.0	0.9	0.0	1.00	1.00	0.00
3.200.0	2.00	90.00	3,200.0	0.0	3.5	0.2	1.00	1.00	0.00
3,266.4	2.66	90.00	3,266.3	0.0	6.2	0.3	1.00	1.00	0.00
3,300.0	2.66	90.00	3,299.9	0 0	7.8	0.3	0.00	0.00	0.00
3,400.0	2.66	90.00	3,399.8	0.0	12.4	0.5	0.00	0.00	0.00
3,500.0	2.66	90.00	3,499.7	0.0	17.1	0.7	0.00	0.00	0.00
3,600.0	2.66	90.00	3,599.5	0.0	21.7	1.0	0.00	0.00	0.00
3.700.0	2.66	90.00	3,699.4	0.0	26.3	1.2	0.00	0.00	0.00
3,800.0	2.66	90.00	3,799.3	0.0	31.0	1.4	0.00	0.00	0.00
3,900.0	2.66	90.00	3,899.2	0.0	35.6	1.6	0.00	0.00	0.00
4,000.0	2.66	90.00	3,999.1	0.0	40.3	1.8	0.00	0.00	0.00
4.100.0	2.66	90.00	4,099.0	0.0	44.9	2.0	0.00	0.00	0.00
4.200.0	2.66	90.00	4,198.9	0.0	49.6	2.2	0.00	0.00	0.00
4.300.0	2.66	90.00	4,298.8	0.0	54.2	2.4	0.00	0.00	0.00
4.400.0	2.66	90.00	4,398.7	0.0	58.9	2.6	0.00	0.00	0.00
4,500.0	2.66	90.00	4,498.6	0.0	63.5	2.8	0.00	0.00	0.00
4.600.0	2.66	90.00	4,598.5	0.0	68.2	3.0	0.00	0.00	0.00
4.700.0	2.66	90.00	4,698.4	0.0	72.8	3.2	0.00	0.00	0.00
4,800.0	2.66	90.00	4,798.2	0.0	77.5	3.4	0.00	0.00	0.00

4,900.0

5,000.0

5,100.0

5,200.0

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4,898.1

4,998.0

5,097.9

5,197.8

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86.8

91.4

96.1

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Database: Company: EDM 5000.14

EOG Resources - Midland Lea County, NM (NAD 83 NME)

Project: Site: Well:

Wellbore:

Hawk 26 Fed

ОН

#706H

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well #706H

KB = 25 @ 3544.0usft KB = 25 @ 3544.0usft

Grid

Minimum Curvature

VALUE OF STREET						The state of the s			
anned Survey									
Measured			Vertical	Trestant in		Vertical	Dogleg	Build	Turn
Depth (usft)	Inclination (°)	Azimuth (°)	Depth (usft)	+N/-S (usft)	+E/-W (usft)	Section (usft)	Rate (°/100usft)	Rate (°/100usft)	Rate (°/100usft)
5,300.0	2.66	90.00	5,297.7	0.0	100.7	4.4	0.00	0.00	0.00
5,400.0	2.66	90.00	5,397.6	0.0	105.4	4.6	0.00	0.00	0.00
5,500.0	2.66	90.00	5,497.5	0.0	110.0	4.8	0.00	0.00	0.00
5,600.0	2.66	90.00	5,597.4	0.0	114.7	5.0	0.00	0.00	0.00
5,700.0	2.66	90.00	5.697.3	0.0	119.3	5.2	0.00	0.00	0.00
5,800.0	2.66	90.00	5,797.2	0.0	124.0	5.4	0.00	0.00	0.00
5,900.0	2.66	90.00	5,897.1	0.0	128.6	5.6	0.00	0.00	0.00
6,000.0	2.66	90.00	5,996.9	0.0	133.3	5.9	0.00	0.00	0.00
6,100.0	2.66	90.00	6,096.8	0.0	137.9	6.1	0.00	0.00	0.00
6,200.0	2.66	90.00	6,196.7	0.0	142.6	6.3	0.00	0.00	0.00
6,300.0	2.66	90.00	6,296.6	0.0	147.2	6.5	0.00	0.00	0.00
6,400.0	2.66	90.00	6,396.5	0.0	151.9	6.7	0.00	0.00	0.00
6,500.0	2,66	90.00	6,496.4	0.0	156.5	6.9	0.00	0.00	0.00
6,600.0	2.66	90.00	6,596.3	0.0	161.1	7.1	0.00	0.00	0.00
6.700.0	2.66	90.00	6,696.2	0.0	165.8	7.3	0.00	0.00	0.00
6.800.0	2.66	90.00	6,796.1	0.0	170.4	7.5	0.00	0.00	0.00
6,900.0	2.66	90.00	6,896.0	0.0	175.1	7.7	0.00	0.00	0.00
7,000.0	2.66	90.00	6,995.9	0.0	179.7	7.9	0.00	0.00	0.00
7.100.0	2.66	90.00	7,095.8	0.0	184.4	8.1	0.00	0.00	0.00
7,200.0	2.66	90.00	7,195.7	0.0	189.0	8.3	0.00	0.00	0.00
7.238.1	2.66	90.00	7,233.7	0.0	190.8	8.4	0.00	0.00	0.00
7,300.0	2.04	90.00	7,295.6	0.0	193.4	8.5	1.00	-1.00	0.00
7,400.0	1.04	90.00	7,395.5	0.0	196.0	8.6	1.00	-1.00	0.00
7,504.5	0.00	0.00	7,500.0	0.0	197.0	8.7	1.00	-1.00	0.00
7,600.0	0.00	0.00	7,595.5	0.0	197.0	8.7	0.00	0.00	0.00
7.700.0	0.00	0.00	7,695.5	0.0	197.0	8.7	0.00	0.00	0.00
7,800.0	0.00	0.00	7,795.5	0.0	197.0	8.7	0.00	0.00	0.00
7.900.0	0.00	0.00	7.895.5	0.0	197.0	8.7	0.00	0.00	0.00
8,000.0	0.00	0.00	7.995.5	0.0	197.0	8.7	0.00	0.00	0.00
8.100.0	0.00	0.00	8,095.5	0.0	197.0	8.7	0.00	0.00	0.00
8,200.0	0.00	0.00	8,195.5	0.0	197.0	8.7	0.00	0.00	0.00
0,200.0									
8.300.0	0.00	0.00	8,295.5	0.0	197.0	8.7	0.00	0.00	0.00
8,400.0	0.00	0.00	8,395.5	0.0	197.0	8.7	0.00	0.00	0.00
8.500.0	0.00	0.00	8,495.5	0.0	197.0	8.7	0.00	0.00	0.00
8,600.0	0.00	0.00	8,595.5	0.0	197.0	8.7	0.00	0.00	0.00
8.700.0	0.00	0.00	8.695.5	0.0	197.0	8.7	0.00	0.00	0.00
8,800.0	0.00	0.00	8,795.5	0.0	197.0	8.7	0.00	0.00	0.00
8.900.0	0.00	0.00	8.895.5	0.0	197.0	8.7	0.00	0.00	0.00
9.000.0	0.00	0.00	8,995.5	0.0	197.0	8.7	0.00	0.00	0.00
	0.00	0.00	9,095.5	0.0	197.0	8.7	0.00	0.00	0.00
9.100.0 9.200.0	0.00	0.00	9,195.5	0.0	197.0	8.7	0.00	0.00	0.00
9.200.0	0.00	0.00							0.00
9.300.0	0.00	0.00	9.295.5	0.0	197.0	8.7	0.00	0.00	0.00
9.400.0	0.00	0.00	9,395.5	0.0	197.0	8.7	0.00	0.00	0.00
9.500.0	0.00	0.00	9,495.5	0.0	197.0	8.7	0.00	0.00	0.00
9,600.0	0.00	0.00	9,595.5	0.0	197.0	8.7	0.00	0.00	0.00
9.700.0	0.00	0.00	9,695.5	0.0	197.0	8.7	0.00	0.00	0.00
9.800.0	0.00	0.00	9,795.5	0.0	197.0	8.7	0.00	0.00	0.00
9.900.0	0.00	0.00	9,895.5	0.0	197.0	8.7	0.00	0.00	0.00
10.000.0	0.00	0.00	9,995.5	0.0	197.0	8.7	0.00	0.00	0.00
	0.00	0.00	10,095.5	0.0	197.0	8.7	0.00	0.00	0.00
10.100.0									0.00
10,200.0	0.00	0.00	10,195.5	0.0	197.0	8.7	0.00	0.00	0.00
10,300.0	0.00	0.00	10,295.5	0.0	197.0	8.7	0.00	0.00	0.00
10,400.0	0.00	0.00	10,395.5	0.0	197.0	8.7	0.00	0.00	0.00
10,500.0	0.00	0.00	10,495.5	0.0	197.0	8.7	0.00	0.00	0.00



Database: Company: EDM 5000.14

EOG Resources - Midland

Project: Site:

Lea County, NM (NAD 83 NME) Hawk 26 Fed

Well: Wellbore: #706H OH Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well #706H

KB = 25 @ 3544.0usft KB = 25 @ 3544.0usft

Grid

Minimum Curvature

Pesign:	Plan #0.1				G-AT-VALENT-A		4		
Planned Survey							lei-lat ta aight		
Measured			Vertical			Vertical	Dogleg	Build	Turn
Depth	Inclination	Azimuth	Depth	+N/-S	+E/-W	Section	Rate	Rate	Rate
(usft)	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(°/100usft)	(°/100usft)	(°/100usft)
10,600.0	0.00	0.00	10,595.5	0.0	197.0	8.7	0.00	0.00	0.00
10,700.0	0.00	0.00	10,695.5	0.0	197.0	8.7	0.00	0.00	0.00
10,800.0	0.00	0.00	10,795.5	0.0	197.0	8.7	0.00	0.00	0.00
10,900.0	0.00	0.00	10,895.5	0.0	197.0	8.7	0.00	0.00	0.00
11,000.0	0.00	0.00	10,995.5	0.0	197.0	8.7	0.00	0.00	0.00
11,100.0	0.00	0.00	11,095.5	0.0	197.0	8.7	0.00	0.00	0.00
11,200.0	0.00	0.00	11,195.5	0.0	197.0	8.7	0.00	0.00	0.00
11,300.0	0.00	0.00	11,295.5	0.0	197.0	8.7	0.00	0.00	0.00
11,400.0	0.00	0.00	11,395.5	0.0	197.0	8.7	0.00	0.00	0.00
11,500.0	0.00	0.00	11,495.5	0.0	197.0	8.7	0.00	0.00	0.00
11,600.0	0.00	0.00	11,595.5	0.0	197.0	8.7	0.00	0.00	0.00
11,700.0	0.00	0.00	11,695.5	0.0	197.0	8.7	0.00	0.00	0.00
11,800.0	0.00	0.00	11,795.5	0.0	197.0	8.7	0.00	0.00	0.00
11,900.0	0.00	0.00	11,895.5	0.0	197.0	8.7	0.00	0.00	0.00
12,007.1	0.00	0.00	12,002.6	0.0	197.0	8.7	0.00	0.00	0.00
12,025.0	2.15	179.51	12,020.5	-0.3	197.0	9.0	12.00	12.00	0.00
12,050.0	5.15	179.51	12,045.5	-1.9	197.0	10.6	12.00	12.00	0.00
12,075.0	8.15	179.51	12,070.3	-4.8	197.0	13,5	12.00	12.00	0.00
12,100.0	11.15	179.51	12,094.9	-9.0	197.1	17.7	12.00	12.00	0.00
12,125.0	14.15	179.51	12.119.3	-14.5	197.1	23.1	12.00	12.00	0.00
12,150.0	17.15	179.51	12.143.4	-21.2	197.2	29.9	12.00	12.00	0.00
12,175.0	20.15	179.51	12,167.1	-29.2	197.2	37.9	12.00	12.00	0.00
12,200.0	23,15	179.51	12.190.3	-38.4	197.3	47.1	12.00	12.00	0.00
12,225.0	26.15	179.51	12,213.0	-48.9	197.4	57.5	12.00	12.00	0.00
12,250.0	29.15	179.51	12,235.2	-60.5	197.5	69.1	12.00	12.00	0.00
12,275.0	32.15	179.51	12,256.7	-73.2	197.6	81.8	12.00	12.00	0.00
12,300.0	35.15	179.51	12,277.5	-87.1	197.7	95.7	12.00	12.00	0.00
12,325.0	38.15	179.51	12,297.5	-102.0	197.9	110.6	12.00	12.00	0.00
12.350.0	41.15	179.51	12,316.8	-117.9	198.0	126.5	12.00	12.00	0.00
12,375.0	44.15	179.51	12,335.2	-134.9	198.1	143.4	12.00	12.00	0.00
12,400.0	47.15	179.51	12,352.6	-152.7	198.3	161.3	12.00	12.00	0.00
12,425.0	50.15	179.51	12,369.2	-171.5	198.5	180.1	12.00	12.00	0.00
12,450.0	53.15	179.51	12,384.7	-191.1	198.6	199.7	12.00	12.00	0.00
12,475.0	56.15	179.51	12,399.1	-211.5	198.8	220.0	12.00	12.00	0.00
12,500.0	59.15	179.51	12,412.5	-232.6	199.0	241.1	12.00	12.00	0.00
12,525.0	62.15	179.51	12,424.8	-254.4	199.2	262.9	12.00	12.00	0.00
12,550.0	65.15	179.51	12.435.9	-276.8	199.3	285.3	12.00	12.00	0.00
12,575.0	68.15	179.51	12,445.8	-299.8	199.5	308.2	12.00	12.00	0.00
	71.15	179.51	12,445.8	-323.2	199.5	331.6	12.00	12.00	0.00
12,600.0 12,625.0	74.15	179.51	12,454.5	-323.2 -347.0	199.7	355.5	12.00	12.00	0.00
12,625.0	77.15	179.51	12,461.9	-371.3	200.1	379.7	12.00	12.00	0.00
12,675.0	80.15	179.51	12,473.0	-395.8	200.1	404.2	12.00	12.00	0.00
									0.00
12,700.0	83.15	179.51	12.476.7	-420.5	200.6	428.9	12.00	12.00	
12.725.0	86.15	179.51	12,479.0	-445.4	200.8	453.8	12.00	12.00	0.00
12,751.4	89.32	179.51	12.480.0	-471.8	201.0	480.2	12.00	12.00	0.00
12,800.0 12,900.0	89.32 89.32	179.51 179.51	12,480.6 12,481.8	-520.4 -620.3	201.4 202.3	528.7 628.6	0.00	0.00	0.00
13,000.0	89.32	179.51	12,483.0	-720.3	203.1	728.6	0.00	0.00	0.00
13,100.0	89.32	179.51	12.484.1	-820.3	203.9	828.5	0.00	0.00	0.00
13,200.0	89.32	179.51	12,485.3	-920.3	204.8	928.4	0.00	0.00	0.00
13,300.0	89.32	179.51	12,486.5	-1,020.3	205.6	1,028.4	0.00	0.00	0.00
13,400.0	89.32	179.51	12,487.7	-1.120.3	206.5	1.128.3	0.00	0.00	0.00

13,500.0

13,600.0

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179.51

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-1.220.3

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208.2

1,228.2

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Database: Company:

Design:

EDM 5000.14

Project:

EOG Resources - Midland Lea County, NM (NAD 83 NME)

Site: Well: Hawk 26 Fed #706H OH

Wellbore:

Plan #0.1

Local Co-ordinate Reference:

TVD Reference: MD Reference:

North Reference: Survey Calculation Method: Well #706H

KB = 25 @ 3544.0usft KB = 25 @ 3544.0usft

Grid

Minimum Curvature

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ria	nn	ea	Su	rvev	•

Measured Depth Inclination Azimuth Cust) (ust) (Planned Survey				mit a tribition				la formación de la facilita de la f	
(usft)		Inclination	Azimuth		+N/-S	+F/-W				
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13,900.0 88.32 179.51 12,493.6 -1,620.2 210.7 1,627.9 0.00 0.00 0.00 14,100.0 88.32 179.51 12,494.8 -1,720.2 211.6 1,727.9 0.00 0.00 0.00 0.00 14,100.0 88.32 179.51 12,496.0 -1,820.2 212.4 1,827.8 0.00 0.00 0.00 0.00 14,200.0 88.32 179.51 12,496.0 -1,820.2 212.4 1,827.8 0.00 0.00 0.00 0.00 14,400.0 88.32 179.51 12,499.3 -2,020.2 214.1 2,027.7 0.00 0.00 0.00 0.00 14,400.0 88.32 179.51 12,499.5 -2,120.2 215.0 2,127.6 0.00 0.00 0.00 0.00 14,400.0 88.32 179.51 12,590.7 -2220.2 215.0 2,127.6 0.00 0.00 0.00 0.00 14,500.0 88.32 179.51 12,501.9 -2,320.2 216.7 2,327.4 0.00 0.00 0.00 0.00 14,500.0 88.32 179.51 12,501.9 -2,320.2 216.7 2,327.4 0.00 0.00 0.00 0.00 14,500.0 88.32 179.51 12,501.9 -2,320.2 215.0 2,127.5 0.00 0.00 0.00 0.00 14,500.0 88.32 179.51 12,501.4 2,220.1 218.3 0.00 0.00 0.00 0.00 14,500.0 88.32 179.51 12,504.2 2,520.1 218.3 2,527.3 0.00 0.00 0.00 0.00 14,500.0 88.32 179.51 12,504.2 2,520.1 218.3 2,527.3 0.00 0.00 0.00 0.00 15,000.0 88.32 179.51 12,504.2 2,520.1 218.3 2,527.3 0.00 0.00 0.00 0.00 15,000.0 88.32 179.51 12,504.2 2,520.1 218.2 2,527.2 0.00 0.00 0.00 0.00 15,000.0 88.32 179.51 12,504.2 2,520.1 220.2 2,527.2 0.00 0.00 0.00 0.00 15,000.0 88.32 179.51 12,504.2 2,520.1 220.2 2,527.2 0.00 0.00 0.00 0.00 15,000.0 88.32 179.51 12,504.9 2,220.1 220.9 2,827.1 0.00 0.00 0.00 0.00 15,000.0 88.32 179.51 12,504.9 3,200.1 220.9 2,827.1 0.00 0.00 0.00 0.00 15,000.0 88.32 179.51 12,511.3 -3,120.1 223.4 3,126.9 0.00 0.00 0.00 0.00 15,000.0 88.32 179.51 12,511.3 -3,120.1 223.4 3,126.9 0.00 0.00 0.00 0.00 15,000.0 88.32 179.51 12,511.3 -3,120.1 223.4 3,126.9 0.00 0.00 0.00 0.00 15,000.0 88.32 179.51 12,511.3 -3,120.1 223.4 3,126.9 0.00 0.00 0.00 0.00 15,000.0 88.32 179.51 12,511.3 -3,120.1 223.4 3,126.8 0.00 0.00 0.00 0.00 0.00 15,000.0 88.32 179.51 12,514.9 -3,420.1 226.0 3,428.7 0.00 0.00 0.00 0.00 0.00 15,000.0 88.32 179.51 12,514.9 -3,420.1 226.0 3,428.7 0.00 0.00 0.00 0.00 0.00 15,000.0 88.32 179.51 12,514.9 -3,420.0 23.4 3,428.6 0.00 0.00 0.00 0.00 0.00 16,000.0 88.32 179.51 12,526.5 -3,220.1 223.4 3,428.	13,800.0	89.32	179.51	12,492.4	-1,520.3	209.9	1,528,0	0.00	0.00	0.00
14.100.0 89.32 179.51 12.496.0 -1.820.2 212.4 1827.8 0.00 0.00 0.00 1.00 14.200.0 89.32 179.51 12.497.1 -1.920.2 213.3 1927.7 0.00 0.00 0.00 0.00 14.300.0 89.32 179.51 12.498.3 -2.020.2 214.1 2.027.7 0.00 0.00 0.00 0.00 14.400.0 89.32 179.51 12.498.3 -2.202.2 215.0 2.127.6 0.00 0.00 0.00 0.00 14.500.0 89.32 179.51 12.500.7 -2.220.2 215.8 2.227.5 0.00 0.00 0.00 0.00 14.500.0 89.32 179.51 12.500.3 -2.320.2 216.7 2.327.4 0.00 0.00 0.00 0.00 14.500.0 89.32 179.51 12.500.3 -2.420.2 217.5 2.427.4 0.00 0.00 0.00 0.00 14.500.0 89.32 179.51 12.500.3 -2.420.2 217.5 2.427.4 0.00 0.00 0.00 0.00 14.500.0 89.32 179.51 12.500.6 -2.520.1 219.2 2.627.3 0.00 0.00 0.00 0.00 14.500.0 89.32 179.51 12.500.6 -2.520.1 219.2 2.627.3 0.00 0.00 0.00 0.00 15.500.0 89.32 179.51 12.506.6 -2.720.1 220.0 2.727.2 0.00 0.00 0.00 0.00 15.500.0 89.32 179.51 12.506.6 -2.720.1 220.0 2.727.2 0.00 0.00 0.00 0.00 15.500.0 89.32 179.51 12.500.8 9.2.290.1 221.7 0.00 0.00 0.00 0.00 15.500.0 89.32 179.51 12.500.8 9.2.290.1 221.7 0.00 0.00 0.00 0.00 15.500.0 89.32 179.51 12.500.9 9.2.920.1 221.7 0.00 0.00 0.00 0.00 15.500.0 89.32 179.51 12.511.3 -3.120.1 222.6 3.027.0 0.00 0.00 0.00 15.500.0 89.32 179.51 12.511.3 -3.120.1 222.6 3.027.0 0.00 0.00 0.00 15.500.0 89.32 179.51 12.511.3 -3.120.1 222.6 3.027.0 0.00 0.00 0.00 0.00 15.500.0 89.32 179.51 12.511.9 -3.320.1 223.4 3.126.9 0.00 0.00 0.00 0.00 15.500.0 89.32 179.51 12.514.9 -3.420.1 225.1 3.326.7 0.00 0.00 0.00 0.00 15.500.0 89.32 179.51 12.514.9 -3.420.1 225.1 3.326.7 0.00 0.00 0.00 0.00 15.500.0 89.32 179.51 12.514.9 -3.420.1 225.1 3.326.7 0.00 0.00 0.00 0.00 15.500.0 89.32 179.51 12.514.9 -3.420.1 226.8 3.526.6 0.00 0.00 0.00 0.00 15.500.0 89.32 179.51 12.514.9 -3.420.1 226.1 3.426.5 0.00 0.00 0.00 0.00 15.500.0 89.32 179.51 12.514.9 -3.420.1 225.1 3.420.1 225.1 3.426.8 0.00 0.00 0.00 0.00 15.500.0 89.32 179.51 12.514.9 -3.420.1 225.1 3.420.0 225.5 0.00 0.00 0.00 0.00 15.500.0 89.32 179.51 12.524.9 -3.520.0 226.8 3.526.6 0.00 0.00 0.00 0.00 15.500.0 89.32 179.51 12.524.9 -3.520.0 225.4 3.426.0 0.00 0.	13,900.0	89.32	179.51							
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14300.0 89.32 179.51 12.498.3 -2.020.2 214.1 2.027.7 0.00 0.00 0.00 14.400.0 89.32 179.51 12.499.5 -2.120.2 215.0 2.127.6 0.00 0.00 0.00 0.00 14.600.0 89.32 179.51 12.501.9 -2.320.2 216.8 2.227.5 0.00 0.00 0.00 0.00 14.600.0 89.32 179.51 12.501.9 -2.320.2 216.7 2.327.4 0.00 0.00 0.00 0.00 14.600.0 89.32 179.51 12.501.9 -2.320.2 216.7 2.327.4 0.00 0.00 0.00 0.00 14.800.0 89.32 179.51 12.504.2 -2.520.1 219.2 2.627.3 0.00 0.00 0.00 0.00 14.800.0 89.32 179.51 12.504.2 -2.520.1 219.2 2.627.2 0.00 0.00 0.00 0.00 15.000 89.32 179.51 12.506.6 -2.720.1 219.2 2.627.2 0.00 0.00 0.00 0.00 15.000 89.32 179.51 12.507.8 -2.820.1 220.9 2.827.1 0.00 0.00 0.00 0.00 15.000 89.32 179.51 12.507.8 -2.820.1 220.9 2.827.1 0.00 0.00 0.00 0.00 15.300.0 89.32 179.51 12.508.9 -2.920.1 221.7 2.927.0 0.00 0.00 0.00 0.00 15.300.0 89.32 179.51 12.510.1 -3.020.1 222.6 3.027.0 0.00 0.00 0.00 0.00 15.300.0 89.32 179.51 12.510.1 -3.020.1 222.4 3.027.0 0.00 0.00 0.00 0.00 15.300.0 89.32 179.51 12.510.1 -3.020.1 222.4 3.027.0 0.00 0.00 0.00 0.00 15.300.0 89.32 179.51 12.510.1 -3.020.1 222.4 3.027.0 0.00 0.00 0.00 0.00 15.300.0 89.32 179.51 12.511.3 -3.120.1 223.4 3.126.9 0.00 0.00 0.00 0.00 15.500.0 89.32 179.51 12.516.0 3.520.0 224.3 3.226.8 0.00 0.00 0.00 0.00 15.500.0 89.32 179.51 12.516.0 3.520.0 226.8 3.526.6 0.00 0.00 0.00 0.00 15.500.0 89.32 179.51 12.518.0 3.520.0 226.8 3.526.6 0.00 0.00 0.00 0.00 15.500.0 89.32 179.51 12.518.0 3.520.0 226.8 3.526.6 0.00 0.00 0.00 0.00 15.500.0 89.32 179.51 12.518.0 3.520.0 226.8 3.526.6 0.00 0.00 0.00 0.00 15.500.0 89.32 179.51 12.518.0 3.520.0 228.8 3.526.6 0.00 0.00 0.00 0.00 15.500.0 89.32 179.51 12.518.0 3.520.0 228.8 3.526.6 0.00 0.00 0.00 0.00 15.500.0 89.32 179.51 12.518.0 3.520.0 228.8 3.526.6 0.00 0.00 0.00 0.00 15.500.0 89.32 179.51 12.521.9 4.020.0 231.0 4.026.3 0.00 0.00 0.00 0.00 16.600.0 89.32 179.51 12.521.9 4.020.0 231.0 4.026.3 0.00 0.00 0.00 0.00 16.500.0 89.32 179.51 12.521.9 4.020.0 231.0 4.026.3 0.00 0.00 0.00 0.00 16.500.0 89.32 179.51 12.525.5 4.220.0 232.7 4.226.1 0.00 0.00 0.00 0.0	14,100.0	89.32	179.51	12,496.0	-1,820.2	212.4	1,827.8	0.00	0.00	0.00
14300.0 89.32 179.51 12.498.3 -2.020.2 214.1 2.027.7 0.00 0.00 0.00 14.400.0 89.32 179.51 12.499.5 -2.120.2 215.0 2.127.6 0.00 0.00 0.00 0.00 14.600.0 89.32 179.51 12.500.7 -2.220.2 215.8 2.227.5 0.00 0.00 0.00 0.00 14.600.0 89.32 179.51 12.501.9 -2.320.2 216.7 2.327.4 0.00 0.00 0.00 0.00 14.600.0 89.32 179.51 12.501.9 -2.320.2 216.7 2.327.4 0.00 0.00 0.00 0.00 14.800.0 89.32 179.51 12.504.2 -2.520.1 218.3 2.527.3 0.00 0.00 0.00 0.00 14.900.0 89.32 179.51 12.504.2 -2.520.1 218.3 2.527.3 0.00 0.00 0.00 0.00 15.000 89.32 179.51 12.506.6 -2.720.1 219.2 2.627.2 0.00 0.00 0.00 0.00 15.000 89.32 179.51 12.507.8 -2.820.1 22.9 2.827.1 0.00 0.00 0.00 0.00 15.000 89.32 179.51 12.507.8 -2.820.1 22.9 2.827.1 0.00 0.00 0.00 0.00 15.000 89.32 179.51 12.508.6 -2.820.1 22.9 2.827.1 0.00 0.00 0.00 0.00 15.000 89.32 179.51 12.508.9 -2.920.1 22.17 2.297.0 0.00 0.00 0.00 0.00 15.000 89.32 179.51 12.511.3 -3.020.1 222.6 3.027.0 0.00 0.00 0.00 0.00 15.000 89.32 179.51 12.511.3 -3.020.1 222.6 3.027.0 0.00 0.00 0.00 0.00 15.000 89.32 179.51 12.511.3 -3.020.1 222.6 3.027.0 0.00 0.00 0.00 0.00 15.000 89.32 179.51 12.511.3 -3.020.1 223.4 3.126.9 0.00 0.00 0.00 0.00 15.000 89.32 179.51 12.511.3 -3.220.1 223.4 3.126.9 0.00 0.00 0.00 0.00 15.000 89.32 179.51 12.511.3 -3.220.1 223.4 3.226.8 0.00 0.00 0.00 0.00 15.000 89.32 179.51 12.511.7 -3.320.1 223.4 3.26.7 0.00 0.00 0.00 0.00 15.000 89.32 179.51 12.511.7 -3.320.1 225.1 3.326.7 0.00 0.00 0.00 0.00 15.000 89.32 179.51 12.518.0 -3.520.0 228.8 3.526.8 0.00 0.00 0.00 0.00 15.000 89.32 179.51 12.518.0 -3.520.0 228.8 3.526.8 0.00 0.00 0.00 0.00 15.000 89.32 179.51 12.518.0 -3.520.0 228.8 3.526.5 0.00 0.00 0.00 0.00 15.000 89.32 179.51 12.518.0 -3.520.0 228.8 3.526.5 0.00 0.00 0.00 0.00 16.000 89.32 179.51 12.521.9 4.020 231.0 4.026.3 0.00 0.00 0.00 0.00 16.000 89.32 179.51 12.521.9 4.020 231.0 4.026.3 0.00 0.00 0.00 0.00 16.000 89.32 179.51 12.521.9 4.020 231.0 4.026.3 0.00 0.00 0.00 0.00 16.000 89.32 179.51 12.525.5 4.320.0 233.6 4.326.0 0.00 0.00 0.00 0.00 16.000 89.32 179.51 12.533.4 4.819.9	14,200.0	89.32	179.51	12,497.1	-1,920.2	213.3	1,927.7	0.00	0.00	0.00
14,400.0 89.32 179.51 12,499.5 -2,120.2 215.8 2,227.5 0,00 0,00 0,00 1,4600.0 89.32 179.51 12,501.9 -2,320.2 215.8 2,227.5 0,00 0,00 0,00 0,00 1,4600.0 89.32 179.51 12,501.9 -2,320.2 216.7 2,327.4 0,00 0,00 0,00 0,00 1,4700.0 89.32 179.51 12,501.9 -2,320.2 217.5 2,427.4 0,00 0,00 0,00 0,00 1,4800.0 89.32 179.51 12,504.2 -2,520.1 218.3 2,527.3 0,00 0,00 0,00 0,00 1,4800.0 89.32 179.51 12,504.2 -2,520.1 218.3 2,527.3 0,00 0,00 0,00 0,00 1,500.0 89.32 179.51 12,505.4 -2,620.1 219.2 2,627.2 0,00 0,00 0,00 0,00 15,100.0 89.32 179.51 12,507.8 -2,820.1 220.9 2,827.1 0,00 0,00 0,00 0,00 15,500.0 89.32 179.51 12,508.9 -2,920.1 221.7 2,927.0 0,00 0,00 0,00 0,00 15,500.0 89.32 179.51 12,511.3 -3,120.1 222.6 3,027.0 0,00 0,00 0,00 0,00 15,500.0 89.32 179.51 12,511.3 -3,120.1 223.4 3,126.9 0,00 0,00 0,00 0,00 15,500.0 89.32 179.51 12,511.3 -3,120.1 223.4 3,126.9 0,00 0,00 0,00 0,00 15,500.0 89.32 179.51 12,511.3 -3,120.1 223.4 3,126.9 0,00 0,00 0,00 0,00 15,500.0 89.32 179.51 12,511.3 -3,120.1 223.4 3,126.9 0,00 0,00 0,00 0,00 15,500.0 89.32 179.51 12,513.7 -3,320.1 223.4 3,126.9 0,00 0,00 0,00 0,00 15,500.0 89.32 179.51 12,513.7 -3,320.1 225.1 3,326.7 0,00 0,00 0,00 0,00 15,500.0 89.32 179.51 12,513.7 -3,520.1 226.0 3,426.7 0,00 0,00 0,00 0,00 15,500.0 89.32 179.51 12,513.7 -3,520.0 226.8 3,526.5 0,00 0,00 0,00 0,00 15,500.0 89.32 179.51 12,513.7 -3,520.0 226.8 3,526.5 0,00 0,00 0,00 0,00 15,500.0 89.32 179.51 12,519.6 -3,520.0 226.8 3,526.5 0,00 0,00 0,00 0,00 15,500.0 89.32 179.51 12,519.6 -3,520.0 226.8 3,526.5 0,00 0,00 0,00 0,00 15,500.0 89.32 179.51 12,519.6 -3,520.0 226.8 3,526.5 0,00 0,00 0,00 0,00 15,500.0 89.32 179.51 12,519.6 -3,520.0 226.8 3,526.5 0,00 0,00 0,00 0,00 15,500.0 89.32 179.51 12,519.6 -3,520.0 230.2 3,926.3 0,00 0,00 0,00 0,00 15,500.0 89.32 179.51 12,519.6 -3,520.0 230.2 3,926.3 0,00 0,00 0,00 0,00 15,500.0 89.32 179.51 12,525.5 4,419.9 234.4 4,426.0 0,00 0,00 0,00 0,00 16,500.0 89.32 179.51 12,525.5 4,419.9 234.4 4,426.0 0,00 0,00 0,00 0,00 16,500.0 89.32 179.51 12,531.4 4,120.0 231.9 4,126.2 0,0	14,300.0	89.32	179.51	12,498.3	-2,020.2	214.1	2.027.7	0.00		
14,600,0 88,32 179,51 12,501,9 -2,320,2 216,7 2,327,4 0.00 0.00 0.00 14,700,0 89,32 179,51 12,503,0 -2,420,2 217,5 2,427,4 0.00 0.00 0.00 0.00 14,800,0 89,32 179,51 12,504,2 -2,520,1 218,3 2,527,3 0.00 0.00 0.00 0.00 14,800,0 89,32 179,51 12,504,4 -2,620,1 219,2 2,627,2 0.00 0.00 0.00 0.00 15,000,0 89,32 179,51 12,506,6 -2,720,1 220,0 2,727,2 0.00 0.00 0.00 0.00 15,000,0 89,32 179,51 12,508,6 -2,720,1 220,9 2,827,1 0.00 0.00 0.00 0.00 15,000,0 89,32 179,51 12,508,9 -2,920,1 221,7 2,927,0 0.00 0.00 0.00 0.00 15,000,0 89,32 179,51 12,510,1 3,020,1 222,4 3,126,9 0.00 0.00 0.00 0.00 15,400,0 89,32 179,51 12,511,3 -3,120,1 223,4 3,126,9 0.00 0.00 0.00 0.00 15,600,0 89,32 179,51 12,514,9 -3,420,1 226,0 3,426,7 0.00 0.00 0.00 15,600,0 89,32 179,51 12,514,9 -3,420,1 226,0 3,426,7 0.00 0.00 0.00 15,600,0 89,32 179,51 12,514,9 -3,420,1 226,0 3,426,7 0.00 0.00 0.00 15,600,0 89,32 179,51 12,514,9 -3,420,1 226,0 3,426,7 0.00 0.00 0.00 15,600,0 89,32 179,51 12,514,9 -3,420,1 226,0 3,426,7 0.00 0.00 0.00 15,600,0 89,32 179,51 12,514,9 -3,420,1 226,0 3,426,7 0.00 0.00 0.00 15,600,0 89,32 179,51 12,514,9 -3,420,1 226,0 3,426,7 0.00 0.00 0.00 0.00 15,900,0 89,32 179,51 12,514,0 -3,520,0 226,8 3,526,6 0.00 0.00 0.00 0.00 15,900,0 89,32 179,51 12,514,4 -3,720,0 228,5 3,726,5 0.00 0.00 0.00 0.00 16,000,0 89,32 179,51 12,519,6 -3,820,0 228,4 3,826,4 0.00 0.00 0.00 0.00 16,000,0 89,32 179,51 12,519,6 -3,820,0 228,4 3,826,4 0.00 0.00 0.00 0.00 16,000,0 89,32 179,51 12,524,3 420,0 231,0 4,026,3 0.00 0.00 0.00 0.00 16,000,0 89,32 179,51 12,521,9 4,020,0 231,0 4,026,3 0.00 0.00 0.00 0.00 16,000,0 89,32 179,51 12,521,9 4,020,0 231,0 4,026,3 0.00 0.00 0.00 0.00 16,000,0 89,32 179,51 12,521,9 4,020,0 231,0 4,026,3 0.00 0.00 0.00 0.00 16,000,0 89,32 179,51 12,524,3 420,0 231,0 4,026,3 0.00 0.00 0.00 0.00 16,000,0 89,32 179,51 12,524,3 420,0 231,0 4,026,3 0.00 0.00 0.00 0.00 17,000,0 89,32 179,51 12,531,4 4,819,9 237,8 4,825,7 0.00 0.00 0.00 0.00 0.00 17,000,0 89,32 179,51 12,534,5 4,19,9 235,4 4,261,0 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	14,400.0	89.32	179.51	12,499.5	-2.120.2	215.0	2,127.6			
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Database: Company: EDM 5000.14

EOG Resources - Midland

Project:

Lea County, NM (NAD 83 NME)

Site: Well:

Wellbore:

Design:

Hawk 26 Fed #706H ОН

Plan #0.1

Local Co-ordinate Reference:

TVD Reference:

MD Reference:

North Reference: Survey Calculation Method: Well #706H

KB = 25 @ 3544.0usft KB = 25 @ 3544.0usft

Grid

Minimum Curvature

Design Targets

Target Name

- hit/miss target Dip Angle Dip Dir. - Shape (°)

(usft) 0.00 0.00 12,480.0

TVD

(usft) -549.0

+N/-S

(usft) 202.0

+E/-W

(usft) 430,557.00

Northing

786,220.00

Easting

(usft)

32° 10' 52.328 N

Latitude

Longitude 103° 32' 30.515 W

plan misses target center by 1.0usft at 12828.6usft MD (12480.9 TVD, -549.0 N, 201.6 E)
 Point

PBHL (Hawk 26 Fed #70

FTP (Hawk 26 Fed #706

- plan hits target center - Point

0.00 0.00 12,540.0

-5,549.0

244.0

425,557.00

786,262.00

32° 10' 2.849 N 103° 32' 30.454 W

10,000 PSI BOP Annular Variance Request

EOG Resources request a variance to use a 5000 psi annular BOP with a 10,000 psi BOP stack. The component and compatibility tables along with the general well control plans demonstrate how the 5000 psi annular BOP will be protected from pressures that exceed its rated working pressure (RWP). The pressure at which the control of the wellbore is transferred from the annular preventer to another available preventer will not exceed 3500 psi (70% of the RWP of the 5000 psi annular BOP).

1. Component and Preventer Compatibility Tables

The tables below outlines the tubulars and the compatible preventers in use. This table, combined with the drilling fluid, documents that two barriers to flow will be maintained at all times.

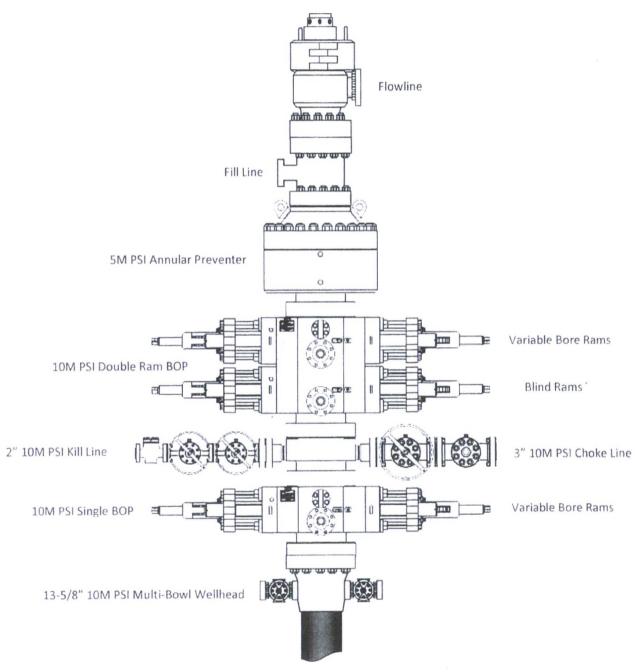
	12-1/4" Intermediate Hole Section 10M psi requirement				
Component	OD	Primary Preventer	RWP	Alternate Preventer(s)	RWP
Drillpipe	5.000" or 4.500"	Annular	5M	Upper 3.5 - 5.5" VBR Lower 3.5 - 5.5" VBR	10M 10M
HWDP	5.000" or 4.500"	Annular	5M	Upper 3.5 - 5.5" VBR Lower 3.5 - 5.5" VBR	10M 10M
Jars	6.500"	Annular	5M	Upper 3.5 - 5.5" VBR Lower 3.5 - 5.5" VBR	10M 10M
DCs and MWD tools	6.500" - 8.000"	Annular	5M		-
Mud Motor	8.000" - 9.625"	Annular	5M	-	-
1 st Intermediate casing	9.625"	Annular	5M	-	-
Open-hole	-	Blind Rams	10M		-

	8-3/4" Intermediate Hole Section 10M psi requirement				
Component	OD	Primary Preventer	RWP	Alternate Preventer(s)	RWP
Drillpipe	5.000" or 4.500"	Annular	5M	Upper 3.5 - 5.5" VBR Lower 3.5 - 5.5" VBR	10M 10M
HWDP	5.000" or 4.500"	Annular	5M	Upper 3.5 - 5.5" VBR Lower 3.5 - 5.5" VBR	10M 10M
Jars	6.500"	Annular	5M	Upper 3.5 - 5.5" VBR Lower 3.5 - 5.5" VBR	10M 10M
DCs and MWD tools	6.500" - 8.000"	Annular	5M	-	-
Mud Motor	6.750" - 8.000"	Annular	5M	-	-
2 nd Intermediate casing	7.625"	Annular	5M	-	-
Open-hole	-	Blind Rams	10M	-	-

	6-3/4" Production Hole Section 10M psi requirement				
Component	OD	Primary Preventer	RWP	Alternate Preventer(s)	RWP
Drillpipe	4.500"	Annular	5M	Upper 3.5 - 5.5" VBR Lower 3.5 - 5.5" VBR	10M 10M
HWDP	4.500"	Annular	5M	Upper 3.5 - 5.5" VBR Lower 3.5 - 5.5" VBR	10M 10M
DCs and MWD tools	4.750" - 5.500"	Annular	5M	Upper 3.5 - 5.5" VBR Lower 3.5 - 5.5" VBR	10M 10M
Mud Motor	4.750" - 5.500"	Annular	5M	Upper 3.5 - 5.5" VBR Lower 3.5 - 5.5" VBR	10M 10M
Mud Motor	5.500" - 5.750"	Annular	5M	-	-
Production casing	5.500"	Annular	5M	Upper 3.5 - 5.5" VBR Lower 3.5 - 5.5" VBR	10M 10M
Open-hole		Blind Rams	10M		1-

VBR = Variable Bore Ram

EOG Resources 13-5/8" 10M PSI BOP Stack



2. Well Control Procedures

Below are the minimal high-level tasks prescribed to assure a proper shut-in while drilling, tripping, running casing, pipe out of the hole (open hole), and moving the BHA through the BOPs. At least one well control drill will be performed weekly per crew to demonstrate compliance with the procedure and well control plan. The well control drill will be recorded in the daily drilling log. The type of drill will be determined by the ongoing operations, but reasonable attempts will be made to vary the type of drill conducted (pit, trip, open hole, choke, etc.). This well control plan will be available for review by rig personnel in the EOG Resources drilling supervisor's office on location, and on the rig floor. All BOP equipment will be tested as per Onshore O&G Order No. 2 with the exception of the 5000 psi annular which will be tested to 70% of its RWP.

General Procedure While Drilling

- 1. Sound alarm (alert crew)
- 2. Space out drill string
- 3. Shut down pumps (stop pumps and rotary)
- 4. Shut-in Well (uppermost applicable BOP, typically annular preventer first. HCR and choke will already be in the closed position.)
- Confirm shut-in
- 6. Notify toolpusher/company representative
- 7. Read and record the following:
 - a. SIDPP and SICP
 - b. Pit gain
 - c. Time
- 8. Regroup and identify forward plan
- 9. If pressure has built or is anticipated during the kill to reach 70% or greater of the RWP of the annular preventer, confirm spacing and close the upper variable bore rams.

General Procedure While Tripping

- 1. Sound alarm (alert crew)
- 2. Stab full opening safety valve and close
- 3. Space out drill string
- 4. Shut-in (uppermost applicable BOP, typically annular preventer first, HCR and choke will already be in the closed position.)
- 5. Confirm shut-in
- 6. Notify toolpusher/company representative
- 7. Read and record the following:
 - a. SIDPP and SICP
 - b. Pit gain
 - c. Time
- 8. Regroup and identify forward plan
- 9. If pressure has built or is anticipated during the kill to reach 70% or greater of the RWP of the annular preventer, confirm spacing and close the upper variable bore rams.

General Procedure While Running Production Casing

- 1. Sound alarm (alert crew)
- 2. Stab crossover and full opening safety valve and close
- 3. Space out string

- 4. Shut-in (uppermost applicable BOP, typically annular preventer first. HCR and choke will already be in the closed position.)
- 5. Confirm shut-in
- 6. Notify toolpusher/company representative
- 7. Read and record the following:
 - a. SIDPP and SICP
 - b. Pit gain
 - c. Time
- 8. Regroup and identify forward plan
- 9. If pressure has built or is anticipated during the kill to reach 70% or greater of the RWP of the annular preventer, confirm spacing and close the upper variable bore rams.

General Procedure With No Pipe In Hole (Open Hole)

- 1. Sound alarm (alert crew)
- 2. Shut-in with blind rams. (HCR and choke will already be in the closed position.)
- 3. Confirm shut-in
- 4. Notify toolpusher/company representative
- 5. Read and record the following:
 - a. SICP
 - b. Pit gain
 - e. Time
- 6. Regroup and identify forward plan

General Procedures While Pulling BHA thru Stack

- 1. PRIOR to pulling last joint of drillpipe thru the stack.
 - a. Perform flowcheck, if flowing:
 - b. Sound alarm (alert crew)
 - c. Stab full opening safety valve and close
 - d. Space out drill string with tool joint just beneath the upper variable bore rams.
 - e. Shut-in using upper variable bore rams. (HCR and choke will already be in the closed position.)
 - f. Confirm shut-in
 - g. Notify toolpusher/company representative
 - h. Read and record the following:
 - i. SIDPP and SICP
 - ii. Pit gain
 - iii. Lime
 - i. Regroup and identify forward plan
- With BHA in the stack and compatible ram preventer and pipe combo immediately available.
 - a. Sound alarm (alert crew)
 - b. Stab crossover and full opening safety valve and close
 - c. Space out drill string with upset just beneath the upper variable bore rams.
 - d. Shut-in using upper variable bore rams. (HCR and choke will already be in the closed position.)
 - e. Confirm shut-in
 - f. Notify toolpusher/company representative
 - g. Read and record the following:
 - i. SIDPP and SICP

ii. Pit gain iii. Time

a. Sound alarm (alert crew)

- h. Regroup and identify forward plan
- 3. With BHA in the stack and NO compatible ram preventer and pipe combo immediately available.
- b. If possible to pick up high enough, pull string clear of the stack and follow "Open Hole" scenario.
- If impossible to pick up high enough to pull the string clear of the stack;
 d. Stab crossover, make up one joint/stand of drillpipe, and full opening safety valve and close
- Space out drill string with tooljoint just beneath the upper variable bore ram.
- f. Shut-in using upper variable bore ram. (HCR and choke will already be in the closed
- position.)
 g. Confirm shut-in
- h. Notify toolpusher/company representative
- Read and record the following:
- Call Stopp and SICP
- it. Pit gain

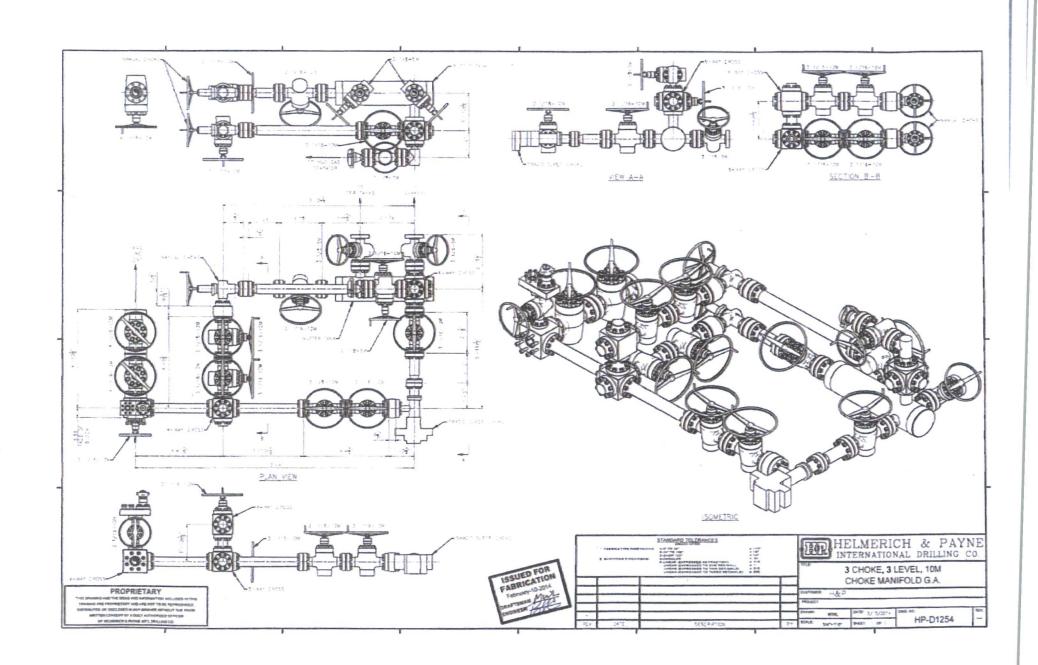
iii. Time

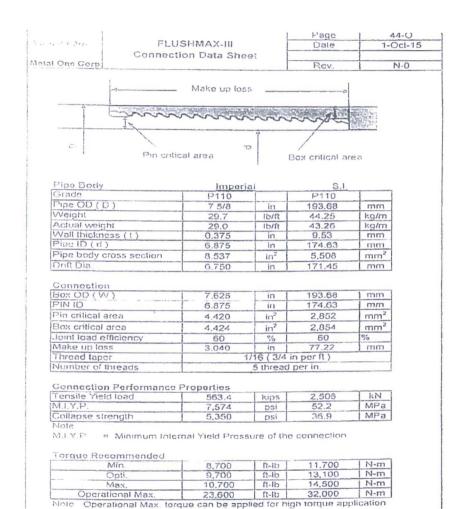
J. Regroup and identify forward plan.

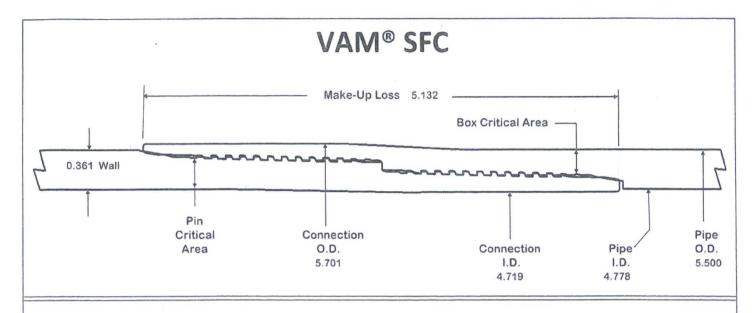
Exhibit 1 EOG Resources 10M BOPE

10M BOPE Rig Floor 1. 13 5/8" Rotating Head 2. Hydril 13 5/8" 10,000 PSI WP GK Annular Preventor 3 13 5/8" Cameron Type "U" 10,000 PSI WP Ram Preventors 4. 2 1/16" - 10,000 PSI WP Check Valve (16) 5 10,000 PSI WP - 1502 Union to kill line 6. 2 1/16" - 10,000 PSI WP Manual Valves 7 13 5/8" 3,000 PSI WP x 13 5/8" 5,000 PSI WP Spacer Spool nama ha 8. 4 1/16" 10,000 PSI WP HCR Valve 9. 4 1/16" 10,000 PSI WP Manual Valve 10. 6" OD x 3" ID 10,000 PSI WP Steel Armoured Flex Choke Line 11. DSA - 13 5/8" 10,000 PSI WP x 13 5/8" 5,000 PSI WP 12. Mud Cross - 13 5/8" 10,000 PSI WP 13. Blind Rams 14. Pipe Rams 15. 13 5/8" Cameron Type "U" 10,000 PSI WP Pipe Rams no com 16. Flow Line 17. 2" Fill Line कींक का का कोंक, **##** nin mn nin dilat at at it DSA WHI WITH HE (10)

the energial







O.D. 5.500 WEIGHT 20.00 WALL 0.361 GRADE VST P110EC DRIFT 4.653

PIPE BODY PROPERTIES

Material Grade	VST P110EC	
Min. Yield Strength	125	ksi
Min. Tensile Strength	135	ksi
Outside Diameter	5.500	in
Inside Diameter	4.778	in
Nominal Area	5.828	sq.in.

Yield Strength	729	kips
Ultimate Strength	787	kips
Min Internal Yield	14,360	psi
*High Collapse	12,090	psi

Contact: tech.support@vam-usa.com Ref. Drawing: SI-PD 100414 Rev.B

Date: Time: 14-Jun-16 2:31 PM

CONNECTION PROPERTIES

Connection OD	5.701 in
Connection ID	4.719 in
Make up Loss	5.132 in
Box Critical Area	4.083 sq.in.
%PB Section Area	70.1%
Pin Critical Area	4.123 sq.in.
%PB Section Area	70.7%
Yield Strength Parting Load Min Internal Yield *High Collapse Wk Compression	510 kips 551 kips 14,360 psi 12,090 psi 357 kips
Max Pure Bending	20 °/100 ft

TORQUE DATA ft-lb

min	opt	max
8,700	9,700	10,700



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