

Well Name: FALCON 36 FED COM	Well Location: T24S / R33E / SEC 36 / NENW / 32.1813062 / -103.5292857	County or Parish/State: LEA / NM
Well Number: 721H	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMNM19858	Unit or CA Name:	Unit or CA Number:
US Well Number: 300254824600X1	Well Status: Approved Application for Permit to Drill	Operator: EOG RESOURCES INCORPORATED

Notice of Intent

Type of Submission: Notice of Intent	Type of Action APD Change
Date Sundry Submitted: 02/01/2021	Time Sundry Submitted: 08:59
Date proposed operation will begin: 02/01/2021	

Procedure Description: EOG respectfully requests an amendment to our approved APD for this well to reflect the following changes: Change surface casing to 10-3/4 inches and intermediate casing to 8-5/8 inches Revise hole sizes to accommodate increased casing sizes The well number on this was changed from 403H to the 721H on a approved sundry dated 12-30-2020 approved by Jeremy Porter on 1-14-2021 See attached

Application

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Section 1 - General

APD ID: 10400046128	Tie to previous NOS? N	Submission Date: 08/20/2019
BLM Office: CARLSBAD	User: Star Harrell	Title: Regulatory Specialist
Federal/Indian APD: FED	Is the first lease penetrated for production Federal or Indian? FED	
Lease number: NMNM19858	Lease Acres:	
Surface access agreement in place?	Allotted?	Reservation:
Agreement in place? NO	Federal or Indian agreement:	
Agreement number:		
Agreement name:		
Keep application confidential? N		
Permitting Agent? NO	APD Operator: EOG RESOURCES INCORPORATED	
Operator letter of designation:		

Operator Info

Operator Organization Name: EOG RESOURCES INCORPORATED		
Operator Address: 1111 BAGBY SKY LOBBY2		Zip: 77002
Operator PO Box:		
Operator City: HOUSTON	State: TX	
Operator Phone: (713)651-7000		
Operator Internet Address:		

Section 2 - Well Information

Well in Master Development Plan? NO	Master Development Plan name:	
Well in Master SUPO? NO	Master SUPO name:	
Well in Master Drilling Plan? NO	Master Drilling Plan name:	
Well Name: FALCON 36 FED COM	Well Number: 403H	Well API Number: 3002548246
Field/Pool or Exploratory? Field and Pool	Field Name: WC025 G09 S253309P;UPPER WOLFCAMP	Pool Name: WC-025 G-09 S253309P; UPPER WOLFCAMP
Is the proposed well in an area containing other mineral resources? NATURAL GAS,OIL		
Is the proposed well in a Helium production area? N	Use Existing Well Pad? N	New surface disturbance?
Type of Well Pad: MULTIPLE WELL	Multiple Well Pad Name: FALCON 36 FED COM	Number: 401H/402H/403H
Well Class: HORIZONTAL	Number of Legs: 1	
Well Work Type: Drill		
Well Type: OIL WELL		

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Is the proposed well in an area containing other mineral resources? NATURAL GAS,OIL

Describe Well Type:

Well sub-Type: INFILL

Describe sub-type:

Distance to town:Distance to nearest well: 33 FTDistance to lease line: 6 FT

Reservoir well spacing assigned acres Measurement: 640 Acres

Well plat: FALCON_36_FED_COM_403H_C_102_20190820070035.pdf

Well work start Date: 03/30/2020Duration: 25 DAYS

Section 3 - Well Location Table

Survey Type: RECTANGULAR

Describe Survey Type:

Datum: NAD83Vertical Datum: NAVD88

Survey number:Reference Datum: KELLY BUSHING

Wellbore	NS-Foot	NS Indicator	EW-Foot	EW Indicator	Twsp	Range	Section	Aliquot/Lot/Tract	Latitude	Longitude	County	State	Meridian	Lease Type	Lease Number	Elevation	MD	TVD	Will this well produce from this lease?
SHL Leg #1	6	FNL	1638	FWL	24S	33E	36	Aliquot NENW	32.1813062	-103.5292857	LEA	NEW MEXICO	NEW MEXICO	S	STATE	3531	0	0	Y
KOP Leg #1	50	FSL	660	FWL	24S	33E	25	Aliquot SWSW	32.1814677	-103.5324503	LEA	NEW MEXICO	NEW MEXICO	F	NMNM019858	-6612	10221	10143	Y
PPP Leg #1-1	100	FSL	660	FWL	24S	33E	25	Aliquot SWSW	32.1816039	-103.5324479	LEA	NEW MEXICO	NEW MEXICO	F	NMNM019858	-6812	10361	10343	Y
EXIT Leg #1	100	FNL	660	FWL	24S	33E	24	Aliquot NWNW	32.2100845	-103.5324601	LEA	NEW MEXICO	NEW MEXICO	F	NMLC0063798	-7089	20905	10620	Y

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Wellbore	NS-Foot	NS Indicator	EW-Foot	EW Indicator	Twsp	Range	Section	Aliquot/Lot/Tract	Latitude	Longitude	County	State	Meridian	Lease Type	Lease Number	Elevation	MD	TVD	Will this well produce from this lease?
BHL Leg #1	100	FNL	660	FW L	24S	33E	24	Aliquot NWN W	32.2100845	-103.5324601	LEA	NEW MEXICO	NEW MEXICO	F	NMLC0063798	-7089	20905	10620	Y

Drilling Plan

Section 1 - Geologic Formations

Formation ID	Formation Name	Elevation	True Vertical Depth	Measured Depth	Lithologies	Mineral Resources	Producing Formation
1532923	PERMIAN	3531	0	0	ALLUVIUM	NONE	N
1532924	RUSTLER	2305	1226	1226	ANHYDRITE	NONE	N
1532925	TOP SALT	1755	1776	1776	SALT	NONE	N
1532927	BASE OF SALT	-1501	5032	5032	SALT	NONE	N
1532928	LAMAR	-1758	5289	5289	LIMESTONE	NONE	N
1532929	BELL CANYON	-1777	5308	5308	SANDSTONE	NATURAL GAS, OIL	N
1532930	CHERRY CANYON	-2782	6313	6313	SANDSTONE	NATURAL GAS, OIL	N
1532931	BRUSHY CANYON	-4261	7792	7792	SANDSTONE	NATURAL GAS, OIL	N
1532926	BONE SPRING LIME	-5715	9246	9246	LIMESTONE	NONE	N
1532932	FIRST BONE SPRING SAND	-6714	10245	10245	SANDSTONE	NATURAL GAS, OIL	N
1532933	BONE SPRING 2ND	-7364	10895	10895	SANDSTONE	NATURAL GAS, OIL	Y

Section 2 - Blowout Prevention

Pressure Rating (PSI): 10M

Rating Depth: 10620

Equipment: 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 (5,000-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. A multi-bowl wellhead system will be utilized. After running the 13-3/8 surface casing, a 13-3/8 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 vendors representative(s). A copy of the installation instructions for the

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Cameron Multi-Bowl WH 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 vendors 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. Casing strings will be tested as per Onshore Order No. 2 to at least 0.22 psi/ft or 1500 psi, whichever is greater.

Requesting Variance? YES

Variance request: Variance is requested to waive the centralizer requirements for the 9-5/8” FJ casing in the 12-1/4” hole size. An expansion additive will be utilized, in the cement slurry, for the entire length of the 12-1/4” hole interval to maximize cement bond and zonal isolation. Variance is also requested to waive any centralizer requirements for the 5-1/2” FJ casing in the 8-3/4” hole size. An expansion additive will be utilized, in the cement slurry, for the entire length of the 8-3/4” hole interval to maximize cement bond and zonal isolation. Variance is requested to use a co-flex line between the BOP and choke manifold (instead of using a 4” OD steel line). Variance is requested to use a 5,000 psi annular BOP with the 10,000 psi BOP stack.

Testing Procedure: 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. Pipe rams and 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.

Choke Diagram Attachment:

- Co_Flex_Hose_Certification_20190806071738.pdf
- Co_Flex_Hose_Test_Chart_20190806071738.pdf
- 10_M_Choke_Manifold_20190806071739.pdf

BOP Diagram Attachment:

- 10_M_BOP_Diagram_13.375_in_20190806071748.pdf
- 10_M_BOP_Diagram_9.675_in_20190806071748.pdf
- EOG_BLM_10M_Annular_Variance___13.375_in_20190806071758.pdf
- EOG_BLM_10M_Annular_Variance___9.675_in_20190806071758.pdf

Section 3 - Casing

Casing ID	String Type	Hole Size	Csg Size	Condition	Standard	Tapered String	Top Set MD	Bottom Set MD	Top Set TVD	Bottom Set TVD	Top Set MSL	Bottom Set MSL	Calculated casing length MD	Grade	Weight	Joint Type	Collapse SF	Burst SF	Joint SF Type	Joint SF	Body SF Type
1	SURFACE	17.5	13.375	NEW	API	N	0	1360	0	1360	3531	2171	1360	J-55	54.5	ST&C	1.125	1.25	BUOY	1.6	BUOY
2	INTERMEDIATE	12.25	9.625	NEW	API	N	0	4000	0	4000	3491	-469	4000	J-55	40	LT&C	1.125	1.25	BUOY	1.6	BUOY
3	INTERMEDIATE	12.25	9.625	NEW	API	N	4000	5145	4000	5145	-469	-1614	1145	HCL-80	40	LT&C	1.125	1.25	BUOY	1.6	BUOY
4	PRODUCTION	8.75	5.5	NEW	API	N	0	20905	0	10620	3531	-7089	20905	HCP-110	20	LT&C	1.125	1.25	BUOY	1.6	BUOY

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Casing Attachments

Casing ID: 1	String Type: SURFACE
Inspection Document:	
Spec Document:	
Tapered String Spec:	
Casing Design Assumptions and Worksheet(s):	
Falcon_36_Fed_Com_403H_Permit_Info_20200107135715.pdf	

Casing ID: 2	String Type: INTERMEDIATE
Inspection Document:	
Spec Document:	
Tapered String Spec:	
Casing Design Assumptions and Worksheet(s):	
See_previously_attached_Drill_Plan_20190820071417.pdf	

Casing ID: 3	String Type: INTERMEDIATE
Inspection Document:	
Spec Document:	
Tapered String Spec:	
Casing Design Assumptions and Worksheet(s):	
See_previously_attached_Drill_Plan_20190820071459.pdf	

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Casing Attachments

Casing ID: 4String Type:PRODUCTION

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

See_previously_attached_Drill_Plan_20190806071856.pdf

Section 4 - Cement

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
INTERMEDIATE	Lead		0	0	0	0	0	0	0	n/a	n/a
SURFACE	Lead		0	1160	850	1.73	13.5	1471	25	Class C	Class C + 4.0% Bentonite Gel + 0.5% CaCl2 + 0.25 lb/sk Cello-Flake (TOC @ Surface)
SURFACE	Tail		1160	1360	160	1.34	14.8	214	25	Class C	Class C + 0.6% FL-62 + 0.25 lb/sk Cello-Flake + 0.2% Sodium Metasilicate (TOC @ 1,160')
INTERMEDIATE	Lead		0	4110	520	3.5	9	1820	25	Class C	Class C + 10% NaCl + 6% Bentonite Gel + 3% MagOx (TOC @ Surface)
INTERMEDIATE	Tail		4110	5145	360	1.2	14.4	432	25	Class C	Class C + 10% NaCl + 3% MagOx (TOC @ 4,110')
PRODUCTION	Lead		4645	10221	560	3.21	11	1798	25	Class C	Class C + 3% CaCl2 + 3% Microbond (TOC @ 4,645')
PRODUCTION	Tail		10221	20905	2820	1.2	14.4	3384	25	Class H	Class H + 0.4% Halad-344 + 0.35% HR-601 + 3% Microbond (TOC @ 10,221')

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Section 5 - Circulating Medium

Mud System Type: Closed

Will an air or gas system be Used? NO

Description of the equipment for the circulating system in accordance with Onshore Order #2:

Diagram of the equipment for the circulating system in accordance with Onshore Order #2:

Describe what will be on location to control well or mitigate other conditions: (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.

Describe the mud monitoring system utilized: 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. 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.

Circulating Medium Table

Top Depth	Bottom Depth	Mud Type	Min Weight (lbs/gal)	Max Weight (lbs/gal)	Density (lbs/cu ft)	Gel Strength (lbs/100 sqft)	PH	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
1360	5145	SALT SATURATED	8.6	8.8							
5145	10620	OIL-BASED MUD	8.8	9							
0	1360	WATER-BASED MUD	8.6	8.8							

Section 6 - Test, Logging, Coring

List of production tests including testing procedures, equipment and safety measures:

Open-hole logs are not planned for this well.

List of open and cased hole logs run in the well:

DIRECTIONAL SURVEY,

Coring operation description for the well:

None

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Section 7 - Pressure

Anticipated Bottom Hole Pressure: 7723	Anticipated Surface Pressure: 5386
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Anticipated Bottom Hole Temperature(F): 181

Anticipated abnormal pressures, temperatures, or potential geologic hazards? NO

Describe:

Contingency Plans geoharzards description:

Contingency Plans geohazards attachment:

Hydrogen Sulfide drilling operations plan required? YES

Hydrogen sulfide drilling operations plan:

Falcon_36_Fed_Com_403H_H2S_Plan_Summary_20200107135902.pdf

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

Falcon_36_Fed_Com_403H_Wall_Plot_20200107142810.pdf

Falcon_36_Fed_Com_403H_Planning_Report_20200107142811.pdf

Other proposed operations facets description:

Note: Cement volumes based on bit size plus at least 25% excess in the open hole plus 10% excess in the cased-hole overlap section.

(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.

Other proposed operations facets attachment:

Falcon_36_Fed_Com_403H_Rig_Layout_20200107143015.pdf

Falcon_36_Fed_Com_403H_Permit_Info_20200107143015.pdf

Other Variance attachment:

10_M_BOP_Diagram_4_String_20200107143219.pdf

Co_Flex_Hose_Certification_20200107143219.pdf

Co_Flex_Hose_Test_Chart_20200107143219.pdf

EOG_BLM_Variance_1c___10M_Annular_Variance___3_String_Large_surface_hole_20200107143219.pdf

SUPO

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Section 1 - Existing Roads

Will existing roads be used? YES

Existing Road Map:

FALCON_36_FED_COM_403H_Vicinity_20190820072304.pdf

Existing Road Purpose: ACCESS,FLUID TRANSPORT

Row(s) Exist? NO

ROW ID(s)

ID:

Do the existing roads need to be improved? NO

Existing Road Improvement Description:

Existing Road Improvement Attachment:

Section 2 - New or Reconstructed Access Roads

Will new roads be needed? YES

New Road Map:

FALCON_36_FED_COM_403H_Padsite_20190820072317.pdf

FALCON_36_FED_COM_403H_Wellsite_20190820072322.pdf

FALCON25FED_INFRA_REV2_20190806075346.pdf

New road type: RESOURCE

Length: 506 Feet

Width (ft.): 25

Max slope (%): 2

Max grade (%): 20

Army Corp of Engineers (ACOE) permit required? N

ACOE Permit Number(s):

New road travel width: 25

New road access erosion control: Newly constructed or reconstructed roads will be constructed as outlined in the BLM "Gold Book" and to meet the standards of the anticipated traffic flow and all anticipated weather requirements as needed. Construction will include ditching, draining, crowning and capping or sloping and dipping the roadbed as necessary to provide a well-constructed and safe road. We plan to grade and water twice a year.

New road access plan or profile prepared? N

New road access plan attachment:

Access road engineering design? N

Access road engineering design attachment:

Turnout? N

Access surfacing type: OTHER

Access topsoil source: ONSITE

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Access surfacing type description: 6" of Compacted Caliche

Access onsite topsoil source depth: 6

Offsite topsoil source description:

Onsite topsoil removal process: An adequate amount of topsoil/root zone will be stripped by dozer from the proposed well location and stockpiled along the side of the well location as depicted on the well site diagram / survey plat.

Access other construction information:

Access miscellaneous information:

Number of access turnouts: Access turnout map:

Drainage Control

New road drainage crossing: CULVERT

Drainage Control comments: An appropriately sized culvert will be installed where drainages cross the access road.

Road Drainage Control Structures (DCS) description: N/A

Road Drainage Control Structures (DCS) attachment:

Access Additional Attachments

Section 3 - Location of Existing Wells

Existing Wells Map? YES

Attach Well map:

FALCON_36_FED_COM_403H_Radius_20190820072337.pdf

Section 4 - Location of Existing and/or Proposed Production Facilities

Submit or defer a Proposed Production Facilities plan? SUBMIT

Production Facilities description: Falcon 25 Fed Com CTB West is located in the NE/4 of Section 25.

Production Facilities map:

- FALCON25FEDCOM_401H_403H_FL_S_20190819141728.PDF
- FALCON25FEDCOM_401H_403H_ROAD_S_20190819141739.PDF
- FALCON25FEDCOM_CTB_ROAD_S_20190806080455.PDF
- FALCON25FEDCOM_CTB_S_20190806080456.PDF
- FALCON25FEDCOM_ELEC_SEC_25_STATE_S_20190806080455.PDF
- FALCON25FEDCOM_ELEC_SEC_25_USA_S_20190806080456.PDF
- FALCON25FEDCOM_GL_SEC_25_S_20190806080506.PDF
- FALCON25FEDCOM_OIL_SEC_25_S_20190806080513.PDF
- FALCON25FEDCOM_WL_SEC_25_S_20190806080519.PDF
- FALCON25FED_INFRA_REV2_20190806080445.pdf

Section 5 - Location and Types of Water Supply

Water Source Table

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Water source type: RECYCLED

Water source use type: OTHER

Describe use type: Water will be supplied from the frac water source map. This location will be drilled using a c (outlined in the drilling program). The water will be obta in the area or recycled treated water and hauled to loca using existing and proposed roads depicted on the prop these cases where a poly pipeline is used to transport f proper authorizations will be secured by the contractor.

Source latitude:

Source longitude:

Source datum:

Water source permit type: WATER RIGHT

Water source transport method: TRUCKING
PIPELINE

Source land ownership: FEDERAL

Source transportation land ownership: FEDERAL

Water source volume (barrels): 0 Source volume (acre-feet): 0

Source volume (gal): 0

Water source and transportation map:

Falcon_25_Fed_Com_Water_and_Caliche_20190806080539.pdf

Water source comments:

New water well? N

New Water Well Info

Well latitude:	Well Longitude:	Well datum:
Well target aquifer:		
Est. depth to top of aquifer(ft):	Est thickness of aquifer:	
Aquifer comments:		
Aquifer documentation:		
Well depth (ft):	Well casing type:	
Well casing outside diameter (in.):	Well casing inside diameter (in.):	
New water well casing?	Used casing source:	
Drilling method:	Drill material:	
Grout material:	Grout depth:	
Casing length (ft.):	Casing top depth (ft.):	
Well Production type:	Completion Method:	

Well Name: FALCON 36 FED COM	Well Location: T24S / R33E / SEC 36 / NENW / 32.1813062 / -103.5292857	County or Parish/State: LEA / NM
Well Number: 721H	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMNM19858	Unit or CA Name:	Unit or CA Number:
US Well Number: 300254824600X1	Well Status: Approved Application for Permit to Drill	Operator: EOG RESOURCES INCORPORATED

Water well additional information:

State appropriation permit:

Additional information attachment:

Section 6 - Construction Materials

Using any construction materials: YES

Construction Materials description: Caliche will be supplied from pits shown on the attached caliche source map. Caliche utilized for the drilling pad will be obtained either from an existing approved mineral pit, or by benching into a hill, which will allow the pad to be level with existing caliche from the cut, or extracted by “Flipping” the well location. A mineral material permit will be obtained from BLM prior to excavating any caliche on Federal Lands. Amount will vary for each pad. The procedure for “Flipping” a well location is as follows: * -An adequate amount of topsoil/root zone (usually top 6 inches of soil) will be stripped from the proposed well location and stockpiled along the side of the well location as depicted on the well site diagram/survey plat. -An area will be used within the proposed well site dimensions to excavate caliche. Subsoil will be removed and stockpiled within the surveyed well pad dimensions. -Once caliche/surfacing mineral is found, the mineral material will be excavated and stock piled within the approved drilling pad dimensions. -Then, subsoil will be pushed back in the excavated hole and caliche will be spread accordingly across the entire well pad and road (if available). -Neither caliche, nor subsoil will be stock piled outside of the well pad dimensions. Topsoil will be stockpiled along the edge of the pad as depicted in the Well Site Layout or survey plat. * In the event that no caliche is found onsite, caliche will be hauled in from a BLM approved caliche pit or other established mineral pit. A BLM mineral material permit will be acquired prior to obtaining any mineral material from BLM pits or federal land.

Construction Materials source location attachment:

Falcon_25_Fed_Com_Water_and_Caliche_20190806080553.pdf

Section 7 - Methods for Handling Waste

Waste type: DRILLING

Waste content description: Drill fluids and produced oil and water from the well during drilling and completion operations will be stored safely and disposed of properly in an NMOCD approved disposal facility. Garbage and trash produced during drilling and completion operations will be collected in a trash container and disposed of properly. Human waste and grey water will be properly contained of and disposed of properly. After drilling and completion operations; trash, chemicals, salts, frac sand, and other waste material will be removed and disposed of properly at a state approved disposal facility.

Amount of waste: 0 barrels

Waste disposal frequency : Daily

Safe containment description: Steel Tanks

Safe containmant attachment:

Waste disposal type: HAUL TO COMMERCIAL FACILITY Disposal location ownership: COMMERCIAL

Disposal type description:

Disposal location description: Trucked to NMOCD approved disposal facility

Reserve Pit

Reserve Pit being used? N

Temporary disposal of produced water into reserve pit? NO

Reserve pit length (ft.) Reserve pit width (ft.)

Reserve pit depth (ft.) Reserve pit volume (cu. yd.)

Is at least 50% of the reserve pit in cut?

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Well Name: FALCON 36 FED COM	Well Location: T24S / R33E / SEC 36 / NENW / 32.1813062 / -103.5292857	County or Parish/State: LEA / NM
Well Number: 721H	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMNM19858	Unit or CA Name:	Unit or CA Number:
US Well Number: 300254824600X1	Well Status: Approved Application for Permit to Drill	Operator: EOG RESOURCES INCORPORATED

Reserve pit liner

Reserve pit liner specifications and installation description

Cuttings Area

Cuttings Area being used? NO

Are you storing cuttings on location? Y

Description of cuttings location Closed Loop System. Drill cuttings will be disposed of into steel tanks and taken to an NMOCD approved disposal facility.

Cuttings area length (ft.)	Cuttings area width (ft.)
Cuttings area depth (ft.)	Cuttings area volume (cu. yd.)

Is at least 50% of the cuttings area in cut?

WCuttings area liner

Cuttings area liner specifications and installation description

Section 8 - Ancillary Facilities

Are you requesting any Ancillary Facilities?: N

Ancillary Facilities attachment:

Comments:

Section 9 - Well Site Layout

Well Site Layout Diagram:

FALCON_36_FED_COM_403H_Padsite_20190820072432.pdf

FALCON_36_FED_COM_403H_Wellsite_20190820072438.pdf

Falcon_36_Fed_Com_403H_Rig_Layout_20200107143627.pdf

Comments: Exhibit 2A-Wellsite & Exhibit 2B-Padsite Rig Layout Exhibit 4

Section 10 - Plans for Surface Reclamation

Type of disturbance: New Surface Disturbance	Multiple Well Pad Name: FALCON 36 FED COM
	Multiple Well Pad Number: 401H/402H/403H

Recontouring attachment:

FALCON_36_FED_COM_403H_Reclamation_20190820072453.pdf

Drainage/Erosion control construction: Proper erosion control methods will be used on the area to control erosion, runoff, and siltation of the surrounding area.

Drainage/Erosion control reclamation: The interim reclamation will be monitored periodically to ensure that vegetation has reestablished and that erosion is controlled.

Well Name: FALCON 36 FED COM	Well Location: T24S / R33E / SEC 36 / NENW / 32.1813062 / -103.5292857	County or Parish/State: LEA / NM
Well Number: 721H	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMNM19858	Unit or CA Name:	Unit or CA Number:
US Well Number: 300254824600X1	Well Status: Approved Application for Permit to Drill	Operator: EOG RESOURCES INCORPORATED

Well pad proposed disturbance (acres): 0	Well pad interim reclamation (acres): 0	Well pad long term disturbance (acres): 0
Road proposed disturbance (acres): 0	Road interim reclamation (acres): 0	Road long term disturbance (acres): 0
Powerline proposed disturbance (acres): 0	Powerline interim reclamation (acres): 0	Powerline long term disturbance (acres): 0
Pipeline proposed disturbance (acres): 0	Pipeline interim reclamation (acres): 0	Pipeline long term disturbance (acres): 0
Other proposed disturbance (acres): 0	Other interim reclamation (acres): 0	Other long term disturbance (acres): 0
Total proposed disturbance: 0	Total interim reclamation: 0	Total long term disturbance: 0

Disturbance Comments: All Interim and Final reclamation must be within 6 months. Interim must be within 6 months of completion and final within 6 months of abandonment plugging. Dual pad operations may alter timing.

Reconstruction method: In areas planned for interim reclamation, all the surfacing material will be removed and returned to the original mineral pit or recycled to repair or build roads and well pads. Areas planned for interim reclamation will be recontoured to the original contour if feasible, or if not feasible, to an interim contour that blends with the surrounding topography as much as possible. Where applicable, the fill material of the well pad will be backfilled into the cut to bring the area back to the original contour. The interim cut and fill slopes prior to re-seeding will not be steeper than a 3:1 ratio, unless the adjacent native topography is steeper. Note: Constructed slopes may be much steeper during drilling, but will be recontoured to the above ratios during interim reclamation.

Topsoil redistribution: Topsoil will be evenly respread and aggressively revegetated over the entire disturbed area not needed for all-weather operations including cuts and fills. To seed the area, the proper BLM seed mixture, free of noxious weeds, will be used. Final seedbed preparation will consist of contour cultivating to a depth of 4 to 6 inches within 24 hours prior to seeding, dozer tracking, or other imprinting in order to break the soil crust and create seed germination micro-sites.

Soil treatment: Re-seed according to BLM standards. All reclaimed areas will be monitored periodically to ensure that revegetation occurs, that the area is not redisturbed, and that erosion is controlled.

Existing Vegetation at the well pad: Grass, forbs, and small woody vegetation, such as mesquite will be excavated as the topsoil is removed. Large woody vegetation will be stripped and stored separately and respreads evenly on the site following topsoil resspreading. Topsoil depth is defined as the top layer of soil that contains 80% of the roots. In areas to be heavily disturbed, the top 6 inches of soil material, will be stripped and stockpiled on the perimeter of the well location and along the perimeter of the access road to control run-on and run-off, to keep topsoil viable, and to make redistribution of topsoil more efficient during interim reclamation. Stockpiled topsoil should include vegetative material. Topsoil will be clearly segregated and stored separately from subsoils.

Existing Vegetation at the well pad attachment:

Existing Vegetation Community at the road: All disturbed areas, including roads, pipelines, pads, will be recontoured to the contour existing prior to the initial construction or a contour that blends indistinguishably with the surrounding landscape. Topsoil that was spread over the interim reclamation areas will be stockpiled prior to recontouring. The topsoil will be redistributed evenly over the entire disturbed site to ensure successful revegetation.

Existing Vegetation Community at the road attachment:

Existing Vegetation Community at the pipeline: All disturbed areas, including roads, pipelines, pads, will be recontoured to the contour existing prior to the initial construction or a contour that blends indistinguishably with the surrounding landscape. Topsoil that was spread over the interim reclamation areas will be stockpiled prior to recontouring. The topsoil will be redistributed evenly over the entire disturbed site to ensure successful revegetation.

Existing Vegetation Community at the pipeline attachment:

Existing Vegetation Community at other disturbances: All disturbed areas, including roads, pipelines, pads, will be recontoured to the contour existing prior to the initial construction or a contour that blends indistinguishably with the surrounding landscape. Topsoil that was spread over the interim reclamation areas will be stockpiled prior to recontouring. The topsoil will be redistributed evenly over the entire disturbed site to ensure successful revegetation.

Existing Vegetation Community at other disturbances attachment:

Non native seed used? N

Non native seed description:

Well Name: FALCON 36 FED COM	Well Location: T24S / R33E / SEC 36 / NENW / 32.1813062 / -103.5292857	County or Parish/State: LEA / NM
Well Number: 721H	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMNM19858	Unit or CA Name:	Unit or CA Number:
US Well Number: 300254824600X1	Well Status: Approved Application for Permit to Drill	Operator: EOG RESOURCES INCORPORATED

Seedling transplant description:

Will seedlings be transplanted for this project? N

Seedling transplant description attachment:

Will seed be harvested for use in site reclamation? N

Seed harvest description:

Seed harvest description attachment:

Seed Management

Seed Table

Seed Summary	
Seed Type	Pounds/Acre

Total pounds/Acre:

Seed reclamation attachment:

Operator Contact/Responsible Official Contact Info

First Name:	Last Name:
Phone:	Email:

Seedbed prep:

Seed BMP:

Seed method:

Existing invasive species? N

Existing invasive species treatment description:

Existing invasive species treatment attachment:

Weed treatment plan description: All reclaimed areas will be monitored periodically to ensure that revegetation occurs, that the area is not redisturbed, erosion is controlled, and free of noxious weeds. Weeds will be treated if found.

Weed treatment plan attachment:

Monitoring plan description: Reclamation will be completed within 6 months of well plugging. All reclaimed areas will be monitored periodically to ensure that revegetation occurs, that the area is not redisturbed, erosion is controlled, and free of noxious weeds.

Monitoring plan attachment:

Success standards: N/A

Pit closure description: NA

Pit closure attachment:

Section 11 - Surface Ownership

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Well Name: FALCON 36 FED COM	Well Location: T24S / R33E / SEC 36 / NENW / 32.1813062 / -103.5292857	County or Parish/State: LEA / NM
Well Number: 721H	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMNM19858	Unit or CA Name:	Unit or CA Number:
US Well Number: 300254824600X1	Well Status: Approved Application for Permit to Drill	Operator: EOG RESOURCES INCORPORATED

Disturbance type: WELL PAD

Describe:

Surface Owner:

Other surface owner description:

BIA Local Office:

BOR Local Office:

COE Local Office:

DOD Local Office:

NPS Local Office:

State Local Office:

Military Local Office:

USFWS Local Office:

Other Local Office:

USFS Region:

USFS Forest/Grassland:

USFS Ranger District:

Section 12 - Other Information

Right of Way needed? N

Use APD as ROW?

ROW Type(s):

ROW Applications

SUPO Additional Information: An onsite meeting was conducted 6/21//2018. See attached SUPO Plan.

Use a previously conducted onsite? N

Previous Onsite information:

Other SUPO Attachment

FALCON_36_FED_COM_403H_Location_20190820072524.pdf
SUPO_FALCON_36_FED_COM_403H_20190820072529.pdf
Gas_Capture_Lucid_Enterprise_Regency_Falcon25FedCom_401H_403H_20190819142230.pdf

Well Name: FALCON 36 FED COM	Well Location: T24S / R33E / SEC 36 / NENW / 32.1813062 / -103.5292857	County or Parish/State: LEA / NM
Well Number: 721H	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMNM19858	Unit or CA Name:	Unit or CA Number:
US Well Number: 300254824600X1	Well Status: Approved Application for Permit to Drill	Operator: EOG RESOURCES INCORPORATED

Section 1 - General

Would you like to address long-term produced water disposal? NO

Section 2 - Lined Pits

Would you like to utilize Lined Pit PWD options? N

Produced Water Disposal (PWD) Location:

PWD surface owner: PWD disturbance (acres):

Lined pit PWD on or off channel:

Lined pit PWD discharge volume (bbl/day):

Lined pit specifications:

Pit liner description:

Pit liner manufacturers information:

Precipitated solids disposal:

Decribe precipitated solids disposal:

Precipitated solids disposal permit:

Lined pit precipitated solids disposal schedule:

Lined pit precipitated solids disposal schedule attachment:

Lined pit reclamation description:

Lined pit reclamation attachment:

Leak detection system description:

Leak detection system attachment:

Lined pit Monitor description:

Lined pit Monitor attachment:

Lined pit: do you have a reclamation bond for the pit?

Is the reclamation bond a rider under the BLM bond?

Lined pit bond number:

Lined pit bond amount:

Additional bond information attachment:

Well Name: FALCON 36 FED COM	Well Location: T24S / R33E / SEC 36 / NENW / 32.1813062 / -103.5292857	County or Parish/State: LEA / NM
Well Number: 721H	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMNM19858	Unit or CA Name:	Unit or CA Number:
US Well Number: 300254824600X1	Well Status: Approved Application for Permit to Drill	Operator: EOG RESOURCES INCORPORATED

Section 3 - Unlined Pits

Would you like to utilize Unlined Pit PWD options? N

Produced Water Disposal (PWD) Location:

PWD disturbance (acres): PWD surface owner:

Unlined pit PWD on or off channel:

Unlined pit PWD discharge volume (bbl/day):

Unlined pit specifications:

Precipitated solids disposal:

Decribe precipitated solids disposal:

Precipitated solids disposal permit:

Unlined pit precipitated solids disposal schedule:

Unlined pit precipitated solids disposal schedule attachment:

Unlined pit reclamation description:

Unlined pit reclamation attachment:

Unlined pit Monitor description:

Unlined pit Monitor attachment:

Do you propose to put the produced water to beneficial use?

Beneficial use user confirmation:

Estimated depth of the shallowest aquifer (feet):

Does the produced water have an annual average Total Dissolved Solids (TDS) concentration equal to or less than that of the existing water to be protected?

TDS lab results:

Geologic and hydrologic evidence:

State authorization:

Unlined Produced Water Pit Estimated percolation:

Unlined pit: do you have a reclamation bond for the pit?

Is the reclamation bond a rider under the BLM bond?

Unlined pit bond number:

Unlined pit bond amount:

Additional bond information attachment:

Section 4 - Injection

Would you like to utilize Injection PWD options? N

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Well Name: FALCON 36 FED COM	Well Location: T24S / R33E / SEC 36 / NENW / 32.1813062 / -103.5292857	County or Parish/State: LEA / NM
Well Number: 721H	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMNM19858	Unit or CA Name:	Unit or CA Number:
US Well Number: 300254824600X1	Well Status: Approved Application for Permit to Drill	Operator: EOG RESOURCES INCORPORATED

Produced Water Disposal (PWD) Location:

PWD surface owner: PWD disturbance (acres):

Injection PWD discharge volume (bbl/day):

Injection well mineral owner:

Injection well type: Injection well number: Injection well name:

Assigned injection well API number? Injection well API number:

Injection well new surface disturbance (acres):

Minerals protection information:

Mineral protection attachment:

Underground Injection Control (UIC) Permit?

UIC Permit attachment:

Section 5 - Surface Discharge

Would you like to utilize Surface Discharge PWD options? N

Produced Water Disposal (PWD) Location:

PWD surface owner: PWD disturbance (acres):

Surface discharge PWD discharge volume (bbl/day):

Surface Discharge NPDES Permit?

Surface Discharge NPDES Permit attachment:

Surface Discharge site facilities information:

Surface discharge site facilities map:

Section 6 - Other

Would you like to utilize Other PWD options? N

Produced Water Disposal (PWD) Location:

PWD surface owner: PWD disturbance (acres):

Other PWD discharge volume (bbl/day):

Other PWD type description:

Other PWD type attachment:

Have other regulatory requirements been met?

Other regulatory requirements attachment:

Operator Certification

Well Name: FALCON 36 FED COM	Well Location: T24S / R33E / SEC 36 / NENW / 32.1813062 / -103.5292857	County or Parish/State: LEA / NM
Well Number: 721H	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMNM19858	Unit or CA Name:	Unit or CA Number:
US Well Number: 300254824600X1	Well Status: Approved Application for Permit to Drill	Operator: EOG RESOURCES INCORPORATED

Operator Certification

I hereby certify that I, or someone under my direct supervision, have inspected the drill site and access route proposed herein; that I am familiar with the conditions which currently exist; that I have full knowledge of state and Federal laws applicable to this operation; that the statements made in this APD package are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed in conformity with this APD package and the terms and conditions under which it is approved. I also certify that I, or the company I represent, am responsible for the operations conducted under this application. These statements are subject to the provisions of 18 U.S.C. 1001 for the filing of false statements.

NAME: Star Harrell	Signed on: 02/01/2021
Title: Regulatory Specialist	
Street Address: 5509 CHAMPIONS DRIVE	
City: MIDLAND	State: TX
	Zip: 79702
Phone: (432)848-9161	
Email address: Star_Harrell@eogresources.com	

Field Representative

Representative Name:	
Street Address:	
City:	State:
	Zip:
Phone:	
Email address:	

NOI Attachments

Procedure Description

- FMAXIII_8.625_32.00_BMP_P110HC_CDS_20210201085801.pdf
- Falcon_36_Fed_Com_721H_Permit_Info___Revised_casing_2.1.2021_20210201085747.pdf

Well Name: FALCON 36 FED COM	Well Location: T24S / R33E / SEC 36 / NENW / 32.1813062 / -103.5292857	County or Parish/State: LEA / NM
Well Number: 721H	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMNM19858	Unit or CA Name:	Unit or CA Number:
US Well Number: 300254824600X1	Well Status: Approved Application for Permit to Drill	Operator: EOG RESOURCES INCORPORATED

Falcon_25_Fed_Com_721H_Wall_Plot_20210201085747.pdf

Falcon_25_Fed_Com_721H_Planning_Report_20210201085747.pdf

FALCON_36_Fed_Com_721H_APS_CHANGE_BHL_SUNDRY_APPROVED_20210201085713.pdf

Operator Certification

I certify that the foregoing is true and correct. Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction. Electronic submission of Sundry Notices through this system satisfies regulations requiring a submission of Form 3160-5 or a Sundry Notice.

Operator Electronic Signature: FOLLIS	Signed on: FEB 01, 2021 08:58 AM
Name: EOG RESOURCES INCORPORATED	
Title: Sr. Regulatory Administrator	
Street Address: NOT ENTERED	
City: NOT ENTERED	State: NOT ENTERED
Phone: (303) 572-9000	
Email address: NOT ENTERED	

Field Representative

Representative Name:		
Street Address:		
City:	State:	Zip:
Phone:		
Email address:		

BLM Point of Contact

BLM POC Name: CHRISTOPHER WALLS	BLM POC Title: Petroleum Engineer
BLM POC Phone: 5752342234	BLM POC Email Address: cwalls@blm.gov
Disposition: Approved	Disposition Date: 02/23/2021
Signature: Chris Walls	

Revised Permit Information 2/1/2021:

Well Name: Falcon 36 Fed Com #721H

Location:

SHL: 804' FSL & 612' FWL, Section 7, T-25-S, R-33-E, Lea Co., N.M.

BHL: 100' FNL & 330' FWL, Section 6, T-25-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
14.75"	0' – 1,390'	10.75"	40.5#	J-55	STC	1.125	1.25	1.60
9.875"	0' – 11,480'	8.625"	32#	HCP-110	FMAXIII	1.125	1.25	1.60
7.875"	0' – 22,940'	5.5"	20#	HCP-110	DWC/C-IS MS	1.125	1.25	1.60

Variance is requested to wave the centralizer requirements for the 8-5/8" casing in the 9-7/8" hole size. An expansion additive will be utilized, in the cement slurry, for the entire length of the 9-7/8" hole interval to maximize cement bond and zonal isolation.

Variance is also requested to wave any centralizer requirements for the 5-1/2" casing in the 7-7/8" hole size. An expansion additive will be utilized, in the cement slurry, for the entire length of the 7-7/8" hole interval to maximize cement bond and zonal isolation.

Cement Program:

Depth	No. Sacks	Wt. ppg	Yld Ft ³ /sk	Slurry Description
1,390' 10-3/4"	330	13.5	1.73	Lead: Class C + 4.0% Bentonite Gel + 0.5% CaCl ₂ + 0.25 lb/sk Cello-Flake (TOC @ Surface)
	90	14.8	1.34	Tail: Class C + 0.6% FL-62 + 0.25 lb/sk Cello-Flake + 0.2% Sodium Metasilicate (TOC @ 1,190')
11,480' 8-5/8"	510	14.2	1.11	1 st Stage (Tail): Class C + 0.6% Halad-9 + 0.45% HR-601 + 3% Microbond (TOC @ 7,570')
	1,060	12.7	2.30	2 nd Stage (Bradenhead squeeze): Class C + 3% Salt + 1% PreMag-M + 6% Bentonite Gel (TOC @ surface)
22,948' 5-1/2"	1,620	14.2	1.31	Lead: Class H + 0.4% Halad-344 + 0.35% HR-601 + 3% Microbond (TOC @ 10,980')

Additive	Purpose
Bentonite Gel	Lightweight/Lost circulation prevention
Calcium Chloride	Accelerator
Cello-flake	Lost circulation prevention
Sodium Metasilicate	Accelerator
MagOx	Expansive agent
Pre-Mag-M	Expansive agent
Sodium Chloride	Accelerator
FL-62	Fluid loss control
Halad-344	Fluid loss control
Halad-9	Fluid loss control
HR-601	Retarder
Microbond	Expansive Agent

EOG requests variance from minimum standards to pump a two stage cement job on the 8-5/8" intermediate casing string with the first stage being pumped conventionally with the calculated TOC at the Brushy Canyon and the second stage performed as a bradenhead squeeze with planned cement from the Brushy Canyon to surface. If necessary a top out consisting of 1,000 sacks of Class C cement + 3% Salt + 1% PreMag-M + 6% Bentonite Gel (2.30 yld, 12.91 ppg) will be executed as a contingency. Top of cement will be verified by Echo-meter.

EOG will include the final fluid top verified by Echo-meter and the volume of displacement fluid above the cement slurry in the annulus in all post-drill sundries on wells utilizing this cement program.

EOG will report to the BLM the volume of fluid (limited to 5 bbls) used to flush intermediate casing valves following backside cementing procedures.

Mud Program:

Depth	Type	Weight (ppg)	Viscosity	Water Loss
0 – 1,390'	Fresh - Gel	8.6-8.8	28-34	N/c
1,390' – 11,480'	Brine	10.0-10.2	28-34	N/c
11,480' – 11,837'	Oil Base	8.7-9.4	58-68	N/c - 6
11,837' – 22,948' Lateral	Oil Base	10.0-14.0	58-68	3 - 6

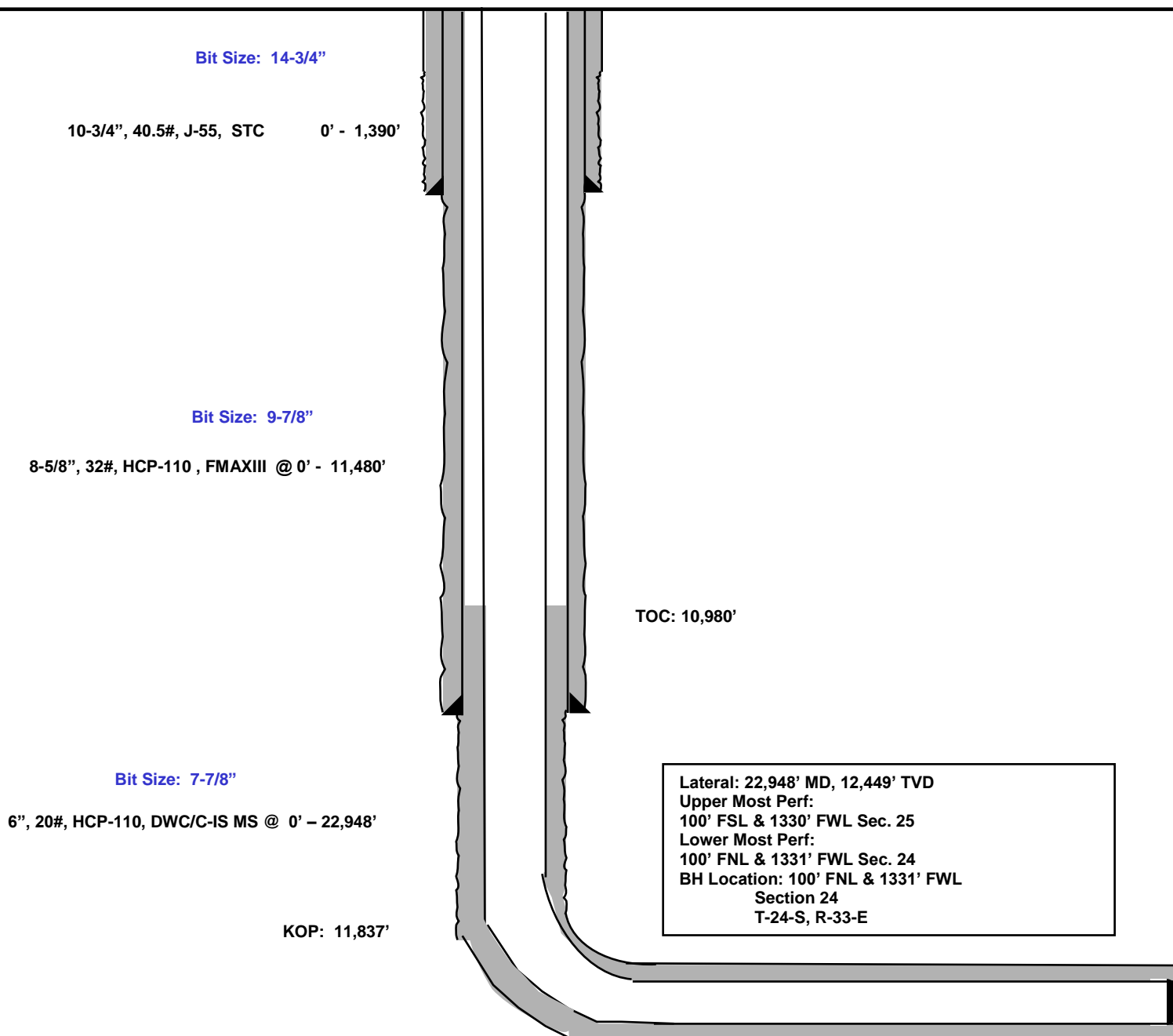
EOG respectfully requests to retain the option to drill the previously permitted casing and cementing program as an alternate design, to be referred to in subsequent reports as Design B

66' FNL
1611' FWL
Section 36
T-24-S, R-33-E

Revised Wellbore
Design A

KB: 3,554'
GL: 3,529'

API: 30-025-48246





EOG Resources - Midland

Lea County, NM (NAD 83 NME)

Falcon 36 Fed Com

#721H

OH

Plan: Plan #1

Standard Planning Report

23 December, 2020



EOG Resources

Planning Report

Database:	EDM	Local Co-ordinate Reference:	Well #721H
Company:	EOG Resources - Midland	TVD Reference:	KB = 26' @ 3555.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB = 26' @ 3555.0usft
Site:	Falcon 36 Fed Com	North Reference:	Grid
Well:	#721H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

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	Falcon 36 Fed Com					
Site Position:		Northing:	430,933.00 usft	Latitude:	32° 10' 55.716 N	
From:	Map	Easting:	790,755.00 usft	Longitude:	103° 31' 37.717 W	
Position Uncertainty:		0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.43

Well	#721H					
Well Position	+N/-S	-370.0 usft	Northing:	430,563.00 usft	Latitude:	32° 10' 52.105 N
	+E/-W	-687.0 usft	Easting:	790,068.00 usft	Longitude:	103° 31' 45.742 W
Position Uncertainty		0.0 usft	Wellhead Elevation:		Ground Level:	3,529.0 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2020	3/11/2021	6.55	59.88	47,499.31758294

Design	Plan #1			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	358.02

Plan Survey Tool Program	Date	12/23/2020		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.0	22,948.0 Plan #1 (OH)	EOG MWD+IFR1	
			MWD + IFR1	

EOG Resources

Planning Report



Database:	EDM	Local Co-ordinate Reference:	Well #721H
Company:	EOG Resources - Midland	TVD Reference:	KB = 26' @ 3555.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB = 26' @ 3555.0usft
Site:	Falcon 36 Fed Com	North Reference:	Grid
Well:	#721H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

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
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,401.2	4.02	222.12	1,401.0	-5.2	-4.7	2.00	2.00	0.00	222.12	
7,213.5	4.02	222.12	7,199.0	-307.8	-278.3	0.00	0.00	0.00	0.00	
7,414.7	0.00	0.00	7,400.0	-313.0	-283.0	2.00	-2.00	0.00	180.00	Brushy Top(Falcon 25
11,837.2	0.00	0.00	11,822.5	-313.0	-283.0	0.00	0.00	0.00	0.00	
12,587.2	90.00	359.59	12,300.0	164.4	-286.4	12.00	12.00	-0.05	359.59	
17,767.8	90.00	359.59	12,300.0	5,345.0	-323.0	0.00	0.00	0.00	0.00	Fed Perf(Falcon 25 F
18,156.2	90.00	359.56	12,300.0	5,733.4	-325.9	0.01	0.00	-0.01	-89.40	
22,948.0	90.00	359.56	12,300.0	10,525.0	-363.0	0.00	0.00	0.00	0.00	PBHL(Falcon 25 Fed



EOG Resources

Planning Report

Database:	EDM	Local Co-ordinate Reference:	Well #721H
Company:	EOG Resources - Midland	TVD Reference:	KB = 26' @ 3555.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB = 26' @ 3555.0usft
Site:	Falcon 36 Fed Com	North Reference:	Grid
Well:	#721H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

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
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	2.00	222.12	1,300.0	-1.3	-1.2	-1.3	2.00	2.00	0.00
1,401.2	4.02	222.12	1,401.0	-5.2	-4.7	-5.1	2.00	2.00	0.00
1,500.0	4.02	222.12	1,499.6	-10.4	-9.4	-10.1	0.00	0.00	0.00
1,600.0	4.02	222.12	1,599.3	-15.6	-14.1	-15.1	0.00	0.00	0.00
1,700.0	4.02	222.12	1,699.1	-20.8	-18.8	-20.1	0.00	0.00	0.00
1,800.0	4.02	222.12	1,798.9	-26.0	-23.5	-25.2	0.00	0.00	0.00
1,900.0	4.02	222.12	1,898.6	-31.2	-28.2	-30.2	0.00	0.00	0.00
2,000.0	4.02	222.12	1,998.4	-36.4	-32.9	-35.2	0.00	0.00	0.00
2,100.0	4.02	222.12	2,098.1	-41.6	-37.6	-40.3	0.00	0.00	0.00
2,200.0	4.02	222.12	2,197.9	-46.8	-42.3	-45.3	0.00	0.00	0.00
2,300.0	4.02	222.12	2,297.6	-52.0	-47.0	-50.4	0.00	0.00	0.00
2,400.0	4.02	222.12	2,397.4	-57.2	-51.7	-55.4	0.00	0.00	0.00
2,500.0	4.02	222.12	2,497.1	-62.4	-56.4	-60.4	0.00	0.00	0.00
2,600.0	4.02	222.12	2,596.9	-67.6	-61.2	-65.5	0.00	0.00	0.00
2,700.0	4.02	222.12	2,696.6	-72.8	-65.9	-70.5	0.00	0.00	0.00
2,800.0	4.02	222.12	2,796.4	-78.0	-70.6	-75.6	0.00	0.00	0.00
2,900.0	4.02	222.12	2,896.1	-83.2	-75.3	-80.6	0.00	0.00	0.00
3,000.0	4.02	222.12	2,995.9	-88.5	-80.0	-85.6	0.00	0.00	0.00
3,100.0	4.02	222.12	3,095.6	-93.7	-84.7	-90.7	0.00	0.00	0.00
3,200.0	4.02	222.12	3,195.4	-98.9	-89.4	-95.7	0.00	0.00	0.00
3,300.0	4.02	222.12	3,295.2	-104.1	-94.1	-100.8	0.00	0.00	0.00
3,400.0	4.02	222.12	3,394.9	-109.3	-98.8	-105.8	0.00	0.00	0.00
3,500.0	4.02	222.12	3,494.7	-114.5	-103.5	-110.8	0.00	0.00	0.00
3,600.0	4.02	222.12	3,594.4	-119.7	-108.2	-115.9	0.00	0.00	0.00
3,700.0	4.02	222.12	3,694.2	-124.9	-112.9	-120.9	0.00	0.00	0.00
3,800.0	4.02	222.12	3,793.9	-130.1	-117.6	-126.0	0.00	0.00	0.00
3,900.0	4.02	222.12	3,893.7	-135.3	-122.3	-131.0	0.00	0.00	0.00
4,000.0	4.02	222.12	3,993.4	-140.5	-127.0	-136.0	0.00	0.00	0.00
4,100.0	4.02	222.12	4,093.2	-145.7	-131.7	-141.1	0.00	0.00	0.00
4,200.0	4.02	222.12	4,192.9	-150.9	-136.4	-146.1	0.00	0.00	0.00
4,300.0	4.02	222.12	4,292.7	-156.1	-141.2	-151.2	0.00	0.00	0.00
4,400.0	4.02	222.12	4,392.4	-161.3	-145.9	-156.2	0.00	0.00	0.00
4,500.0	4.02	222.12	4,492.2	-166.5	-150.6	-161.2	0.00	0.00	0.00
4,600.0	4.02	222.12	4,591.9	-171.7	-155.3	-166.3	0.00	0.00	0.00
4,700.0	4.02	222.12	4,691.7	-176.9	-160.0	-171.3	0.00	0.00	0.00
4,800.0	4.02	222.12	4,791.5	-182.1	-164.7	-176.4	0.00	0.00	0.00
4,900.0	4.02	222.12	4,891.2	-187.3	-169.4	-181.4	0.00	0.00	0.00
5,000.0	4.02	222.12	4,991.0	-192.6	-174.1	-186.4	0.00	0.00	0.00
5,100.0	4.02	222.12	5,090.7	-197.8	-178.8	-191.5	0.00	0.00	0.00
5,200.0	4.02	222.12	5,190.5	-203.0	-183.5	-196.5	0.00	0.00	0.00
5,300.0	4.02	222.12	5,290.2	-208.2	-188.2	-201.6	0.00	0.00	0.00

EOG Resources

Planning Report



Database:	EDM	Local Co-ordinate Reference:	Well #721H
Company:	EOG Resources - Midland	TVD Reference:	KB = 26' @ 3555.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB = 26' @ 3555.0usft
Site:	Falcon 36 Fed Com	North Reference:	Grid
Well:	#721H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

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)
5,400.0	4.02	222.12	5,390.0	-213.4	-192.9	-206.6	0.00	0.00	0.00
5,500.0	4.02	222.12	5,489.7	-218.6	-197.6	-211.6	0.00	0.00	0.00
5,600.0	4.02	222.12	5,589.5	-223.8	-202.3	-216.7	0.00	0.00	0.00
5,700.0	4.02	222.12	5,689.2	-229.0	-207.0	-221.7	0.00	0.00	0.00
5,800.0	4.02	222.12	5,789.0	-234.2	-211.7	-226.8	0.00	0.00	0.00
5,900.0	4.02	222.12	5,888.7	-239.4	-216.5	-231.8	0.00	0.00	0.00
6,000.0	4.02	222.12	5,988.5	-244.6	-221.2	-236.8	0.00	0.00	0.00
6,100.0	4.02	222.12	6,088.3	-249.8	-225.9	-241.9	0.00	0.00	0.00
6,200.0	4.02	222.12	6,188.0	-255.0	-230.6	-246.9	0.00	0.00	0.00
6,300.0	4.02	222.12	6,287.8	-260.2	-235.3	-252.0	0.00	0.00	0.00
6,400.0	4.02	222.12	6,387.5	-265.4	-240.0	-257.0	0.00	0.00	0.00
6,500.0	4.02	222.12	6,487.3	-270.6	-244.7	-262.0	0.00	0.00	0.00
6,600.0	4.02	222.12	6,587.0	-275.8	-249.4	-267.1	0.00	0.00	0.00
6,700.0	4.02	222.12	6,686.8	-281.0	-254.1	-272.1	0.00	0.00	0.00
6,800.0	4.02	222.12	6,786.5	-286.2	-258.8	-277.2	0.00	0.00	0.00
6,900.0	4.02	222.12	6,886.3	-291.4	-263.5	-282.2	0.00	0.00	0.00
7,000.0	4.02	222.12	6,986.0	-296.7	-268.2	-287.2	0.00	0.00	0.00
7,100.0	4.02	222.12	7,085.8	-301.9	-272.9	-292.3	0.00	0.00	0.00
7,200.0	4.02	222.12	7,185.5	-307.1	-277.6	-297.3	0.00	0.00	0.00
7,213.5	4.02	222.12	7,199.0	-307.8	-278.3	-298.0	0.00	0.00	0.00
7,300.0	2.29	222.12	7,285.4	-311.3	-281.5	-301.4	2.00	-2.00	0.00
7,400.0	0.29	222.12	7,385.3	-313.0	-283.0	-303.0	2.00	-2.00	0.00
7,414.7	0.00	0.00	7,400.0	-313.0	-283.0	-303.1	2.00	-2.00	0.00
7,500.0	0.00	0.00	7,485.3	-313.0	-283.0	-303.1	0.00	0.00	0.00
7,600.0	0.00	0.00	7,585.3	-313.0	-283.0	-303.1	0.00	0.00	0.00
7,700.0	0.00	0.00	7,685.3	-313.0	-283.0	-303.1	0.00	0.00	0.00
7,800.0	0.00	0.00	7,785.3	-313.0	-283.0	-303.1	0.00	0.00	0.00
7,900.0	0.00	0.00	7,885.3	-313.0	-283.0	-303.1	0.00	0.00	0.00
8,000.0	0.00	0.00	7,985.3	-313.0	-283.0	-303.1	0.00	0.00	0.00
8,100.0	0.00	0.00	8,085.3	-313.0	-283.0	-303.1	0.00	0.00	0.00
8,200.0	0.00	0.00	8,185.3	-313.0	-283.0	-303.1	0.00	0.00	0.00
8,300.0	0.00	0.00	8,285.3	-313.0	-283.0	-303.1	0.00	0.00	0.00
8,400.0	0.00	0.00	8,385.3	-313.0	-283.0	-303.1	0.00	0.00	0.00
8,500.0	0.00	0.00	8,485.3	-313.0	-283.0	-303.1	0.00	0.00	0.00
8,600.0	0.00	0.00	8,585.3	-313.0	-283.0	-303.1	0.00	0.00	0.00
8,700.0	0.00	0.00	8,685.3	-313.0	-283.0	-303.1	0.00	0.00	0.00
8,800.0	0.00	0.00	8,785.3	-313.0	-283.0	-303.1	0.00	0.00	0.00
8,900.0	0.00	0.00	8,885.3	-313.0	-283.0	-303.1	0.00	0.00	0.00
9,000.0	0.00	0.00	8,985.3	-313.0	-283.0	-303.1	0.00	0.00	0.00
9,100.0	0.00	0.00	9,085.3	-313.0	-283.0	-303.1	0.00	0.00	0.00
9,200.0	0.00	0.00	9,185.3	-313.0	-283.0	-303.1	0.00	0.00	0.00
9,300.0	0.00	0.00	9,285.3	-313.0	-283.0	-303.1	0.00	0.00	0.00
9,400.0	0.00	0.00	9,385.3	-313.0	-283.0	-303.1	0.00	0.00	0.00
9,500.0	0.00	0.00	9,485.3	-313.0	-283.0	-303.1	0.00	0.00	0.00
9,600.0	0.00	0.00	9,585.3	-313.0	-283.0	-303.1	0.00	0.00	0.00
9,700.0	0.00	0.00	9,685.3	-313.0	-283.0	-303.1	0.00	0.00	0.00
9,800.0	0.00	0.00	9,785.3	-313.0	-283.0	-303.1	0.00	0.00	0.00
9,900.0	0.00	0.00	9,885.3	-313.0	-283.0	-303.1	0.00	0.00	0.00
10,000.0	0.00	0.00	9,985.3	-313.0	-283.0	-303.1	0.00	0.00	0.00
10,100.0	0.00	0.00	10,085.3	-313.0	-283.0	-303.1	0.00	0.00	0.00
10,200.0	0.00	0.00	10,185.3	-313.0	-283.0	-303.1	0.00	0.00	0.00
10,300.0	0.00	0.00	10,285.3	-313.0	-283.0	-303.1	0.00	0.00	0.00
10,400.0	0.00	0.00	10,385.3	-313.0	-283.0	-303.1	0.00	0.00	0.00
10,500.0	0.00	0.00	10,485.3	-313.0	-283.0	-303.1	0.00	0.00	0.00

EOG Resources

Planning Report



Database:	EDM	Local Co-ordinate Reference:	Well #721H
Company:	EOG Resources - Midland	TVD Reference:	KB = 26' @ 3555.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB = 26' @ 3555.0usft
Site:	Falcon 36 Fed Com	North Reference:	Grid
Well:	#721H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

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)
10,600.0	0.00	0.00	10,585.3	-313.0	-283.0	-303.1	0.00	0.00	0.00
10,700.0	0.00	0.00	10,685.3	-313.0	-283.0	-303.1	0.00	0.00	0.00
10,800.0	0.00	0.00	10,785.3	-313.0	-283.0	-303.1	0.00	0.00	0.00
10,900.0	0.00	0.00	10,885.3	-313.0	-283.0	-303.1	0.00	0.00	0.00
11,000.0	0.00	0.00	10,985.3	-313.0	-283.0	-303.1	0.00	0.00	0.00
11,100.0	0.00	0.00	11,085.3	-313.0	-283.0	-303.1	0.00	0.00	0.00
11,200.0	0.00	0.00	11,185.3	-313.0	-283.0	-303.1	0.00	0.00	0.00
11,300.0	0.00	0.00	11,285.3	-313.0	-283.0	-303.1	0.00	0.00	0.00
11,400.0	0.00	0.00	11,385.3	-313.0	-283.0	-303.1	0.00	0.00	0.00
11,500.0	0.00	0.00	11,485.3	-313.0	-283.0	-303.1	0.00	0.00	0.00
11,600.0	0.00	0.00	11,585.3	-313.0	-283.0	-303.1	0.00	0.00	0.00
11,700.0	0.00	0.00	11,685.3	-313.0	-283.0	-303.1	0.00	0.00	0.00
11,800.0	0.00	0.00	11,785.3	-313.0	-283.0	-303.1	0.00	0.00	0.00
11,837.2	0.00	0.00	11,822.5	-313.0	-283.0	-303.1	0.00	0.00	0.00
11,850.0	1.54	359.59	11,835.3	-312.8	-283.0	-302.9	12.00	12.00	0.00
11,875.0	4.54	359.59	11,860.3	-311.5	-283.0	-301.6	12.00	12.00	0.00
11,900.0	7.54	359.59	11,885.2	-308.9	-283.0	-298.9	12.00	12.00	0.00
11,925.0	10.54	359.59	11,909.8	-304.9	-283.1	-295.0	12.00	12.00	0.00
11,950.0	13.54	359.59	11,934.3	-299.7	-283.1	-289.8	12.00	12.00	0.00
11,975.0	16.54	359.59	11,958.4	-293.2	-283.1	-283.3	12.00	12.00	0.00
12,000.0	19.54	359.59	11,982.2	-285.5	-283.2	-275.6	12.00	12.00	0.00
12,025.0	22.54	359.59	12,005.5	-276.5	-283.3	-266.6	12.00	12.00	0.00
12,050.0	25.54	359.59	12,028.4	-266.3	-283.3	-256.4	12.00	12.00	0.00
12,075.0	28.54	359.59	12,050.6	-255.0	-283.4	-245.1	12.00	12.00	0.00
12,100.0	31.54	359.59	12,072.3	-242.5	-283.5	-232.5	12.00	12.00	0.00
12,125.0	34.54	359.59	12,093.2	-228.8	-283.6	-218.9	12.00	12.00	0.00
12,150.0	37.54	359.59	12,113.4	-214.1	-283.7	-204.2	12.00	12.00	0.00
12,175.0	40.54	359.59	12,132.8	-198.4	-283.8	-188.5	12.00	12.00	0.00
12,200.0	43.54	359.59	12,151.4	-181.6	-283.9	-171.7	12.00	12.00	0.00
12,225.0	46.54	359.59	12,169.1	-164.0	-284.1	-154.1	12.00	12.00	0.00
12,250.0	49.54	359.59	12,185.8	-145.4	-284.2	-135.5	12.00	12.00	0.00
12,275.0	52.54	359.59	12,201.5	-125.9	-284.3	-116.1	12.00	12.00	0.00
12,300.0	55.54	359.59	12,216.2	-105.7	-284.5	-95.8	12.00	12.00	0.00
12,325.0	58.54	359.59	12,229.8	-84.7	-284.6	-74.9	12.00	12.00	0.00
12,350.0	61.54	359.59	12,242.3	-63.1	-284.8	-53.2	12.00	12.00	0.00
12,375.0	64.54	359.59	12,253.6	-40.8	-284.9	-30.9	12.00	12.00	0.00
12,400.0	67.54	359.59	12,263.8	-17.9	-285.1	-8.1	12.00	12.00	0.00
12,425.0	70.54	359.59	12,272.7	5.4	-285.3	15.2	12.00	12.00	0.00
12,450.0	73.54	359.59	12,280.4	29.2	-285.4	39.0	12.00	12.00	0.00
12,475.0	76.54	359.59	12,286.9	53.3	-285.6	63.1	12.00	12.00	0.00
12,500.0	79.54	359.59	12,292.0	77.8	-285.8	87.6	12.00	12.00	0.00
12,525.0	82.54	359.59	12,295.9	102.5	-285.9	112.3	12.00	12.00	0.00
12,550.0	85.54	359.59	12,298.5	127.3	-286.1	137.1	12.00	12.00	0.00
12,575.0	88.54	359.59	12,299.8	152.3	-286.3	162.1	12.00	12.00	0.00
12,587.2	90.00	359.59	12,300.0	164.4	-286.4	174.2	12.00	12.00	0.00
12,600.0	90.00	359.59	12,300.0	177.3	-286.5	187.1	0.00	0.00	0.00
12,700.0	90.00	359.59	12,300.0	277.3	-287.2	287.0	0.00	0.00	0.00
12,800.0	90.00	359.59	12,300.0	377.3	-287.9	387.0	0.00	0.00	0.00
12,900.0	90.00	359.59	12,300.0	477.3	-288.6	487.0	0.00	0.00	0.00
13,000.0	90.00	359.59	12,300.0	577.3	-289.3	586.9	0.00	0.00	0.00
13,100.0	90.00	359.59	12,300.0	677.3	-290.0	686.9	0.00	0.00	0.00
13,200.0	90.00	359.59	12,300.0	777.3	-290.7	786.8	0.00	0.00	0.00
13,300.0	90.00	359.59	12,300.0	877.3	-291.4	886.8	0.00	0.00	0.00
13,400.0	90.00	359.59	12,300.0	977.3	-292.1	986.8	0.00	0.00	0.00

EOG Resources

Planning Report



Database:	EDM	Local Co-ordinate Reference:	Well #721H
Company:	EOG Resources - Midland	TVD Reference:	KB = 26' @ 3555.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB = 26' @ 3555.0usft
Site:	Falcon 36 Fed Com	North Reference:	Grid
Well:	#721H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

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)	
13,500.0	90.00	359.59	12,300.0	1,077.3	-292.8	1,086.7	0.00	0.00	0.00	
13,600.0	90.00	359.59	12,300.0	1,177.3	-293.5	1,186.7	0.00	0.00	0.00	
13,700.0	90.00	359.59	12,300.0	1,277.3	-294.2	1,286.7	0.00	0.00	0.00	
13,800.0	90.00	359.59	12,300.0	1,377.3	-294.9	1,386.6	0.00	0.00	0.00	
13,900.0	90.00	359.59	12,300.0	1,477.3	-295.7	1,486.6	0.00	0.00	0.00	
14,000.0	90.00	359.59	12,300.0	1,577.3	-296.4	1,586.5	0.00	0.00	0.00	
14,100.0	90.00	359.59	12,300.0	1,677.3	-297.1	1,686.5	0.00	0.00	0.00	
14,200.0	90.00	359.59	12,300.0	1,777.3	-297.8	1,786.5	0.00	0.00	0.00	
14,300.0	90.00	359.59	12,300.0	1,877.3	-298.5	1,886.4	0.00	0.00	0.00	
14,400.0	90.00	359.59	12,300.0	1,977.3	-299.2	1,986.4	0.00	0.00	0.00	
14,500.0	90.00	359.59	12,300.0	2,077.2	-299.9	2,086.4	0.00	0.00	0.00	
14,600.0	90.00	359.59	12,300.0	2,177.2	-300.6	2,186.3	0.00	0.00	0.00	
14,700.0	90.00	359.59	12,300.0	2,277.2	-301.3	2,286.3	0.00	0.00	0.00	
14,800.0	90.00	359.59	12,300.0	2,377.2	-302.0	2,386.2	0.00	0.00	0.00	
14,900.0	90.00	359.59	12,300.0	2,477.2	-302.7	2,486.2	0.00	0.00	0.00	
15,000.0	90.00	359.59	12,300.0	2,577.2	-303.4	2,586.2	0.00	0.00	0.00	
15,100.0	90.00	359.59	12,300.0	2,677.2	-304.1	2,686.1	0.00	0.00	0.00	
15,200.0	90.00	359.59	12,300.0	2,777.2	-304.8	2,786.1	0.00	0.00	0.00	
15,300.0	90.00	359.59	12,300.0	2,877.2	-305.6	2,886.0	0.00	0.00	0.00	
15,400.0	90.00	359.59	12,300.0	2,977.2	-306.3	2,986.0	0.00	0.00	0.00	
15,500.0	90.00	359.59	12,300.0	3,077.2	-307.0	3,086.0	0.00	0.00	0.00	
15,600.0	90.00	359.59	12,300.0	3,177.2	-307.7	3,185.9	0.00	0.00	0.00	
15,700.0	90.00	359.59	12,300.0	3,277.2	-308.4	3,285.9	0.00	0.00	0.00	
15,800.0	90.00	359.59	12,300.0	3,377.2	-309.1	3,385.9	0.00	0.00	0.00	
15,900.0	90.00	359.59	12,300.0	3,477.2	-309.8	3,485.8	0.00	0.00	0.00	
16,000.0	90.00	359.59	12,300.0	3,577.2	-310.5	3,585.8	0.00	0.00	0.00	
16,100.0	90.00	359.59	12,300.0	3,677.2	-311.2	3,685.7	0.00	0.00	0.00	
16,200.0	90.00	359.59	12,300.0	3,777.2	-311.9	3,785.7	0.00	0.00	0.00	
16,300.0	90.00	359.59	12,300.0	3,877.2	-312.6	3,885.7	0.00	0.00	0.00	
16,400.0	90.00	359.59	12,300.0	3,977.2	-313.3	3,985.6	0.00	0.00	0.00	
16,500.0	90.00	359.59	12,300.0	4,077.2	-314.0	4,085.6	0.00	0.00	0.00	
16,600.0	90.00	359.59	12,300.0	4,177.2	-314.7	4,185.6	0.00	0.00	0.00	
16,700.0	90.00	359.59	12,300.0	4,277.2	-315.5	4,285.5	0.00	0.00	0.00	
16,800.0	90.00	359.59	12,300.0	4,377.2	-316.2	4,385.5	0.00	0.00	0.00	
16,900.0	90.00	359.59	12,300.0	4,477.2	-316.9	4,485.4	0.00	0.00	0.00	
17,000.0	90.00	359.59	12,300.0	4,577.2	-317.6	4,585.4	0.00	0.00	0.00	
17,100.0	90.00	359.59	12,300.0	4,677.2	-318.3	4,685.4	0.00	0.00	0.00	
17,200.0	90.00	359.59	12,300.0	4,777.2	-319.0	4,785.3	0.00	0.00	0.00	
17,300.0	90.00	359.59	12,300.0	4,877.2	-319.7	4,885.3	0.00	0.00	0.00	
17,400.0	90.00	359.59	12,300.0	4,977.2	-320.4	4,985.3	0.00	0.00	0.00	
17,500.0	90.00	359.59	12,300.0	5,077.2	-321.1	5,085.2	0.00	0.00	0.00	
17,600.0	90.00	359.59	12,300.0	5,177.2	-321.8	5,185.2	0.00	0.00	0.00	
17,700.0	90.00	359.59	12,300.0	5,277.2	-322.5	5,285.1	0.00	0.00	0.00	
17,767.8	90.00	359.59	12,300.0	5,345.0	-323.0	5,353.0	0.00	0.00	0.00	
17,800.0	90.00	359.59	12,300.0	5,377.2	-323.2	5,385.1	0.01	0.00	-0.01	
17,900.0	90.00	359.58	12,300.0	5,477.2	-323.9	5,485.1	0.01	0.00	-0.01	
18,000.0	90.00	359.57	12,300.0	5,577.2	-324.7	5,585.0	0.01	0.00	-0.01	
18,100.0	90.00	359.56	12,300.0	5,677.2	-325.4	5,685.0	0.01	0.00	-0.01	
18,156.2	90.00	359.56	12,300.0	5,733.4	-325.9	5,741.2	0.01	0.00	-0.01	
18,200.0	90.00	359.56	12,300.0	5,777.2	-326.2	5,785.0	0.00	0.00	0.00	
18,300.0	90.00	359.56	12,300.0	5,877.2	-327.0	5,884.9	0.00	0.00	0.00	
18,400.0	90.00	359.56	12,300.0	5,977.1	-327.8	5,984.9	0.00	0.00	0.00	
18,500.0	90.00	359.56	12,300.0	6,077.1	-328.5	6,084.9	0.00	0.00	0.00	
18,600.0	90.00	359.56	12,300.0	6,177.1	-329.3	6,184.8	0.00	0.00	0.00	

EOG Resources

Planning Report



Database:	EDM	Local Co-ordinate Reference:	Well #721H
Company:	EOG Resources - Midland	TVD Reference:	KB = 26' @ 3555.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB = 26' @ 3555.0usft
Site:	Falcon 36 Fed Com	North Reference:	Grid
Well:	#721H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

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)
18,700.0	90.00	359.56	12,300.0	6,277.1	-330.1	6,284.8	0.00	0.00	0.00
18,800.0	90.00	359.56	12,300.0	6,377.1	-330.9	6,384.8	0.00	0.00	0.00
18,900.0	90.00	359.56	12,300.0	6,477.1	-331.6	6,484.7	0.00	0.00	0.00
19,000.0	90.00	359.56	12,300.0	6,577.1	-332.4	6,584.7	0.00	0.00	0.00
19,100.0	90.00	359.56	12,300.0	6,677.1	-333.2	6,684.6	0.00	0.00	0.00
19,200.0	90.00	359.56	12,300.0	6,777.1	-334.0	6,784.6	0.00	0.00	0.00
19,300.0	90.00	359.56	12,300.0	6,877.1	-334.7	6,884.6	0.00	0.00	0.00
19,400.0	90.00	359.56	12,300.0	6,977.1	-335.5	6,984.5	0.00	0.00	0.00
19,500.0	90.00	359.56	12,300.0	7,077.1	-336.3	7,084.5	0.00	0.00	0.00
19,600.0	90.00	359.56	12,300.0	7,177.1	-337.1	7,184.5	0.00	0.00	0.00
19,700.0	90.00	359.56	12,300.0	7,277.1	-337.8	7,284.4	0.00	0.00	0.00
19,800.0	90.00	359.56	12,300.0	7,377.1	-338.6	7,384.4	0.00	0.00	0.00
19,900.0	90.00	359.56	12,300.0	7,477.1	-339.4	7,484.4	0.00	0.00	0.00
20,000.0	90.00	359.56	12,300.0	7,577.1	-340.2	7,584.3	0.00	0.00	0.00
20,100.0	90.00	359.56	12,300.0	7,677.1	-340.9	7,684.3	0.00	0.00	0.00
20,200.0	90.00	359.56	12,300.0	7,777.1	-341.7	7,784.3	0.00	0.00	0.00
20,300.0	90.00	359.56	12,300.0	7,877.1	-342.5	7,884.2	0.00	0.00	0.00
20,400.0	90.00	359.56	12,300.0	7,977.1	-343.3	7,984.2	0.00	0.00	0.00
20,500.0	90.00	359.56	12,300.0	8,077.1	-344.0	8,084.1	0.00	0.00	0.00
20,600.0	90.00	359.56	12,300.0	8,177.1	-344.8	8,184.1	0.00	0.00	0.00
20,700.0	90.00	359.56	12,300.0	8,277.1	-345.6	8,284.1	0.00	0.00	0.00
20,800.0	90.00	359.56	12,300.0	8,377.1	-346.4	8,384.0	0.00	0.00	0.00
20,900.0	90.00	359.56	12,300.0	8,477.1	-347.1	8,484.0	0.00	0.00	0.00
21,000.0	90.00	359.56	12,300.0	8,577.1	-347.9	8,584.0	0.00	0.00	0.00
21,100.0	90.00	359.56	12,300.0	8,677.1	-348.7	8,683.9	0.00	0.00	0.00
21,200.0	90.00	359.56	12,300.0	8,777.1	-349.5	8,783.9	0.00	0.00	0.00
21,300.0	90.00	359.56	12,300.0	8,877.1	-350.2	8,883.9	0.00	0.00	0.00
21,400.0	90.00	359.56	12,300.0	8,977.1	-351.0	8,983.8	0.00	0.00	0.00
21,500.0	90.00	359.56	12,300.0	9,077.1	-351.8	9,083.8	0.00	0.00	0.00
21,600.0	90.00	359.56	12,300.0	9,177.1	-352.6	9,183.8	0.00	0.00	0.00
21,700.0	90.00	359.56	12,300.0	9,277.0	-353.3	9,283.7	0.00	0.00	0.00
21,800.0	90.00	359.56	12,300.0	9,377.0	-354.1	9,383.7	0.00	0.00	0.00
21,900.0	90.00	359.56	12,300.0	9,477.0	-354.9	9,483.6	0.00	0.00	0.00
22,000.0	90.00	359.56	12,300.0	9,577.0	-355.7	9,583.6	0.00	0.00	0.00
22,100.0	90.00	359.56	12,300.0	9,677.0	-356.4	9,683.6	0.00	0.00	0.00
22,200.0	90.00	359.56	12,300.0	9,777.0	-357.2	9,783.5	0.00	0.00	0.00
22,300.0	90.00	359.56	12,300.0	9,877.0	-358.0	9,883.5	0.00	0.00	0.00
22,400.0	90.00	359.56	12,300.0	9,977.0	-358.8	9,983.5	0.00	0.00	0.00
22,500.0	90.00	359.56	12,300.0	10,077.0	-359.5	10,083.4	0.00	0.00	0.00
22,600.0	90.00	359.56	12,300.0	10,177.0	-360.3	10,183.4	0.00	0.00	0.00
22,700.0	90.00	359.56	12,300.0	10,277.0	-361.1	10,283.4	0.00	0.00	0.00
22,800.0	90.00	359.56	12,300.0	10,377.0	-361.9	10,383.3	0.00	0.00	0.00
22,900.0	90.00	359.56	12,300.0	10,477.0	-362.6	10,483.3	0.00	0.00	0.00
22,948.0	90.00	359.56	12,300.0	10,525.0	-363.0	10,531.3	0.00	0.00	0.00

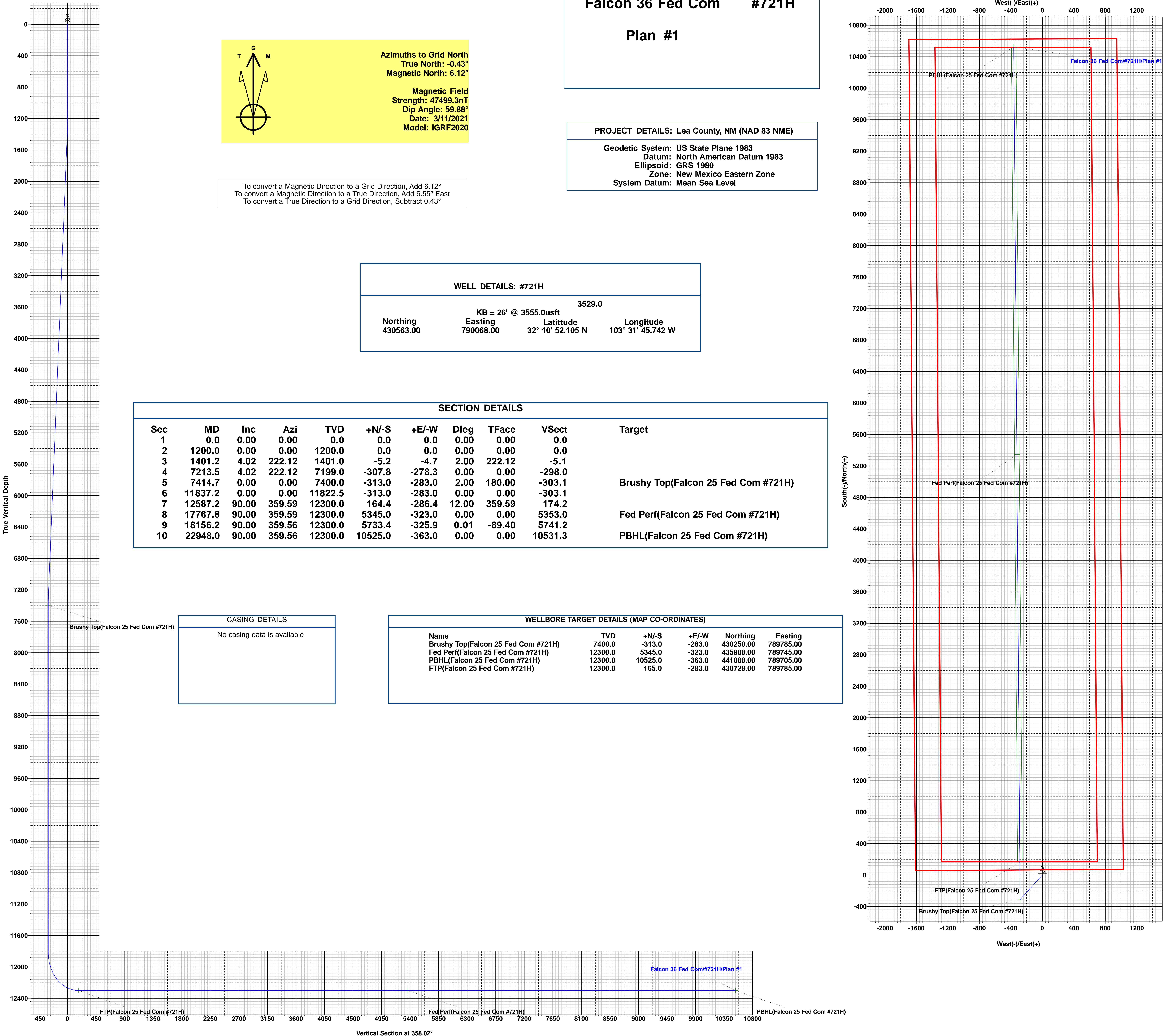
EOG Resources

Planning Report



Database:	EDM	Local Co-ordinate Reference:	Well #721H
Company:	EOG Resources - Midland	TVD Reference:	KB = 26' @ 3555.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB = 26' @ 3555.0usft
Site:	Falcon 36 Fed Cor	North Reference:	Grid
Well:	#721H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

Design Targets									
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
Brushy Top(Falcon 25 Fed Cor) - plan hits target center - Point	0.00	0.00	7,400.0	-313.0	-283.0	430,250.00	789,785.00	32° 10' 49.029 N	103° 31' 49.062 W
Fed Perf(Falcon 25 Fed Cor) - plan hits target center - Point	0.00	0.01	12,300.0	5,345.0	-323.0	435,908.00	789,745.00	32° 11' 45.019 N	103° 31' 49.036 W
FTP(Falcon 25 Fed Cor) - plan misses target center by 3.4usft at 12587.7usft MD (12300.0 TVD, 165.0 N, -286.4 E) - Point	0.00	0.00	12,300.0	165.0	-283.0	430,728.00	789,785.00	32° 10' 53.759 N	103° 31' 49.021 W
PBHL(Falcon 25 Fed Cor) - plan hits target center - Rectangle (sides W60.0 H0.0 D10,350.4)	90.00	359.56	12,300.0	10,525.0	-363.0	441,088.00	789,705.00	32° 12' 36.278 N	103° 31' 49.051 W



<div>Metal One Corp.</div> <div>Metal One</div>	<div>FLUSHMAX-III</div> <div>Connection Data Sheet</div>	Page	MAI	
		Date	10-Jan-18	
		Rev.	N-1	

FLUSHMAX-III

Geometry

Imperial

S.I.

Pipe Body

Grade *1	P110HC		P110HC	
Pipe OD (D)	8 5/8	in	219.08	mm
Weight	32.00	lb/ft	47.68	kg/m
Actual weight	31.10	lb/ft	46.34	kg/m
Wall Thickness (t)	0.352	in	8.94	mm
Pipe ID (d)	7.921	in	201.19	mm
Pipe body cross section	9.144	in ²	5,899	mm ²
Standard Drift Dia.	7.796	in	198.02	mm
Alternate Drift Dia.	7.875	in	200.03	mm

Connection

Box OD (W)	8.625	in	219.08	mm
PIN ID	7.921	in	201.19	mm
Make up Loss	2.990	in	75.95	mm
Box Critical Area	4.734	in ²	3054	mm ²
Joint load efficiency	60	%	60	%
Thread Taper	1 / 16 (3/4" per ft)			
Number of Threads	5 TPI			

Performance

Performance Properties for Pipe Body

S.M.Y.S.	1,006	kips	4,474	kN
M.I.Y.P.	7,860	psi	54.21	MPa
Collapse Strength *1	4,170	psi	28.76	MPa

Note

S.M.Y.S.= Specified Minimum YIELD Strength of Pipe body
M.I.Y.P. = Minimum Internal Yield Pressure of Pipe body
*1: Based on Borusan P110HC (Collapse = 4,170 psi)

Performance Properties for Connection

Tensile Yield load	604 kips (60% of S.M.Y.S.)			
Min. Compression Yield	604 kips (60% of S.M.Y.S.)			
Internal Pressure	6,290 psi (80% of M.I.Y.P.)			
External Pressure	100% of Collapse Strength			
Max. DLS (deg. /100ft)	21			

Recommended Torque

Min.	11,600	ft-lb	15,700	N-m
Opti.	12,900	ft-lb	17,400	N-m
Max.	14,200	ft-lb	19,200	N-m
Operational Max.	28,400	ft-lb	38,500	N-m

Note

Operational Max. torque can be applied for high torque application

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District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
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Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 18692

CONDITIONS OF APPROVAL

Operator:	EOG RESOURCES INC	P.O. Box 2267	Midland, TX79702	OGRID:	7377	Action Number:	18692	Action Type:	C-103A
OCD Reviewer									Condition
pkautz									None