

Form 3160-3
(March 2012)

OCD 19CD
HOBBS
JUN 27 2018
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UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

FORM APPROVED
OMB No. 1004-0137
Expires October 31, 2014

5. Lease Serial No.
NMNM019452

6. If Indian, Allottee or Tribe Name

1a. Type of work: ☒ DRILL ☐ REENTER

1b. Type of Well: ☒ Oil Well ☐ Gas Well ☐ Other ☐ Single Zone ☒ Multiple Zone

2. Name of Operator
EOG RESOURCES INCORPORATED (7377)

3a. Address
1111 Bagby Sky Lobby2 Houston TX 77002

3b. Phone No. (include area code)
(713)651-7000

7. If Unit or CA Agreement, Name and No.

8. Lease Name and Well No.
STONEWALL 28 FED COM 709H (327477)

9. API Well No.
30-025-44926

10. Field and Pool, or Exploratory
RED HILLS / WC-025 S2433361 UPPER (98092)

4. Location of Well (Report location clearly and in accordance with any State requirements.)*

At surface NWNE / 200 FNL / 2601 FEL / LAT 32.1952467 / LONG -103.4747784

At proposed prod. zone SWSE / 230 FSL / 2310 FEL / LAT 32.1674071 / LONG -103.4737883

11. Sec., T. R. M. or Blk. and Survey or Area
SEC 28 / T24S / R34E / NMP

14. Distance in miles and direction from nearest town or post office*
17 miles

12. County or Parish
LEA

13. State
NM

15. Distance from proposed*
location to nearest 200 feet
property or lease line, ft.
(Also to nearest drig. unit line, if any)

16. No. of acres in lease
280

17. Spacing Unit dedicated to this well
320

18. Distance from proposed location*
to nearest well, drilling, completed, 279 feet
applied for, on this lease, ft.

19. Proposed Depth
12239 feet / 22314 feet

20. BLM/BIA Bond No. on file
FED: NM2308

21. Elevations (Show whether DF, KDB, RT, GL, etc.)
3497 feet

22. Approximate date work will start*
06/01/2018

23. Estimated duration
25 days

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No.1, must be attached to this form:

1. Well plat certified by a registered surveyor.
2. A Drilling Plan.
3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO must be filed with the appropriate Forest Service Office).
4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
5. Operator certification
6. Such other site specific information and/or plans as may be required by the BLM.

25. Signature
(Electronic Submission)

Name (Printed/Typed)
Stan Wagner / Ph: (432)686-3689

Date
01/31/2018

Title

Regulatory Specialist

Approved by (Signature)
(Electronic Submission)

Name (Printed/Typed)
Christopher Walls / Ph: (575)234-2234

Date
05/07/2018

Title

Petroleum Engineer

Office
CARLSBAD

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.
Conditions of approval, if any, are attached.

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.

(Continued on page 2)

OCP Rec 06/27/18

APPROVED WITH CONDITIONS

Approval Date: 05/07/2018

KZ
06/28/18
*(Instructions on page 2)

INSTRUCTIONS

GENERAL: This form is designed for submitting proposals to perform certain well operations, as indicated on Federal and Indian lands and leases for action by appropriate Federal agencies, pursuant to applicable Federal laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from local Federal offices.

ITEM 1: If the proposal is to redrill to the same reservoir at a different subsurface location or to a new reservoir, use this form with appropriate notations. Consult applicable Federal regulations concerning subsequent work proposals or reports on the well.

ITEM 4: Locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local Federal offices for specific instructions.

ITEM 14: Needed only when location of well cannot readily be found by road from the land or lease description. A plat, or plats, separate or on the reverse side, showing the roads to, and the surveyed location of, the well, and any other required information, should be furnished when required by Federal agency offices.

ITEMS 15 AND 18: If well is to be, or has been directionally drilled, give distances for subsurface location of hole in any present or objective productive zone.

ITEM 22: Consult applicable Federal regulations, or appropriate officials, concerning approval of the proposal before operations are started.

NOTICES

The Privacy Act of 1974 and regulation in 43 CFR 2.48(d) provide that you be furnished the following information in connection with information required by this application.

AUTHORITY: 30 U.S.C. 181 et seq., 25 U.S.C. 396; 43 CFR 3160

PRINCIPAL PURPOSES: The information will be used to: (1) process and evaluate your application for a permit to drill a new oil, gas, or service well or to reenter a plugged and abandoned well; and (2) document, for administrative use, information for the management, disposal and use of National Resource Lands and resources including (a) analyzing your proposal to discover and extract the Federal or Indian resources encountered; (b) reviewing procedures and equipment and the projected impact on the land involved; and (c) evaluating the effects of the proposed operation on the surface and subsurface water and other environmental impacts.

ROUTINE USE: Information from the record and/or the record will be transferred to appropriate Federal, State, and local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecution, in connection with congressional inquiries and for regulatory responsibilities.

EFFECT OF NOT PROVIDING INFORMATION: Filing of this application and disclosure of the information is mandatory only if you elect to initiate a drilling or reentry operation on an oil and gas lease.

The Paperwork Reduction Act of 1995 requires us to inform you that:

The BLM collects this information to allow evaluation of the technical, safety, and environmental factors involved with drilling for oil and/or gas on Federal and Indian oil and gas leases. This information will be used to analyze and approve applications. Response to this request is mandatory only if the operator elects to initiate drilling or reentry operations on an oil and gas lease. The BLM would like you to know that you do not have to respond to this or any other Federal agency-sponsored information collection unless it displays a currently valid OMB control number.

BURDEN HOURS STATEMENT: Public reporting burden for this form is estimated to average 8 hours per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to U.S. Department of the Interior, Bureau of Land Management (1004-0137), Bureau Information Collection Clearance Officer (WO-630), 1849 C Street, N.W., Mail Stop 401 LS, Washington, D.C. 20240.

Additional Operator Remarks

Location of Well

1. SHL: NWNE / 200 FNL / 2601 FEL / TWSP: 24S / RANGE: 34E / SECTION: 28 / LAT: 32.1952467 / LONG: -103.4747784 (TVD: 0 feet, MD: 0 feet)

PPP: SWSE / 1220 FSL / 2309 FEL / TWSP: 24S / RANGE: 34E / SECTION: 28 / LAT: 32.1846 / LONG: -103.4738 (TVD: 12239 feet, MD: 16041 feet)

PPP: NWNE / 330 FNL / 2307 FEL / TWSP: 24S / RANGE: 34E / SECTION: 28 / LAT: 32.1948885 / LONG: -103.4738287 (TVD: 12195 feet, MD: 12311 feet)

BHL: SWSE / 230 FSL / 2310 FEL / TWSP: 24S / RANGE: 34E / SECTION: 33 / LAT: 32.1674071 / LONG: -103.4737883 (TVD: 12239 feet, MD: 22314 feet)

BLM Point of Contact

Name: Katrina Ponder

Title: Geologist

Phone: 5752345969

Email: kponder@blm.gov

Review and Appeal Rights

A person contesting a decision shall request a State Director review. This request must be filed within 20 working days of receipt of the Notice with the appropriate State Director (see 43 CFR 3165.3). The State Director review decision may be appealed to the Interior Board of Land Appeals, 801 North Quincy Street, Suite 300, Arlington, VA 22203 (see 43 CFR 3165.4). Contact the above listed Bureau of Land Management office for further information.



U.S. Department of the Interior
BUREAU OF LAND MANAGEMENT

Application Data Report

05/18/2018

APD ID: 10400026542

Submission Date: 01/31/2018

Operator Name: EOG RESOURCES INCORPORATED

Well Name: STONEWALL 28 FED COM

Well Number: 709H

Well Type: OIL WELL

Well Work Type: Drill



[Show Final Text](#)

Section 1 - General

APD ID: 10400026542

Tie to previous NOS?

Submission Date: 01/31/2018

BLM Office: CARLSBAD

User: Stan Wagner

Title: Regulatory Specialist

Federal/Indian APD: FED

Is the first lease penetrated for production Federal or Indian? FED

Lease number: NMNM019452

Lease Acres: 280

Surface access agreement in place?

Allotted?

Reservation:

Agreement in place? NO

Federal or Indian agreement:

Agreement number:

Agreement name:

Keep application confidential? NO

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: STONEWALL 28 FED COM

Well Number: 709H

Well API Number:

Field/Pool or Exploratory? Field and Pool

Field Name: RED HILLS

Pool Name: WC-025 S2433361
UPPER WOLFCAMP

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

Operator Name: EOG RESOURCES INCORPORATED

Well Name: STONEWALL 28 FED COM

Well Number: 709H

Describe other minerals:

Is the proposed well in a Helium production area? N **Use Existing Well Pad?** NO **New surface disturbance?**

Type of Well Pad: MULTIPLE WELL

Multiple Well Pad Name:
STONEWALL 28 FED COM

Number: 707H/708H/709H

Well Class: HORIZONTAL

Number of Legs: 1

Well Work Type: Drill

Well Type: OIL WELL

Describe Well Type:

Well sub-Type: INFILL

Describe sub-type:

Distance to town: 17 Miles

Distance to nearest well: 279 FT

Distance to lease line: 200 FT

Reservoir well spacing assigned acres Measurement: 320 Acres

Well plat: Stonewall_28_FC_709H_signed_C_102_20180131091345.pdf

Well work start Date: 06/01/2018

Duration: 25 DAYS

Section 3 - Well Location Table

Survey Type: RECTANGULAR

Describe Survey Type:

Datum: NAD83

Vertical Datum: NAVD88

Survey number:

	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
SHL Leg #1	200	FNL	260 1	FEL	24S	34E	28	Aliquot NWNE	32.19524 67	- 103.4747 784	LEA	NEW MEXI CO	NEW MEXI CO	F	NMNM 019452	349 7	0	0
KOP Leg #1	50	FNL	232 4	FEL	24S	34E	28	Aliquot NWNE	32.19564 96	- 103.4738 8	LEA	NEW MEXI CO	NEW MEXI CO	F	NMNM 019452	- 825 6	117 59	117 53
PPP Leg #1	330	FNL	230 7	FEL	24S	34E	28	Aliquot NWNE	32.19488 85	- 103.4738 287	LEA	NEW MEXI CO	NEW MEXI CO	F	NMNM 019452	- 869 8	123 11	121 95



U.S. Department of the Interior
BUREAU OF LAND MANAGEMENT

Drilling Plan Data Report

05/18/2018

APD ID: 10400026542

Submission Date: 01/31/2018

Operator Name: EOG RESOURCES INCORPORATED

Well Name: STONEWALL 28 FED COM

Well Number: 709H

Well Type: OIL WELL

Well Work Type: Drill



[Show Final Text](#)

Section 1 - Geologic Formations

Formation ID	Formation Name	Elevation	True Vertical Depth	Measured Depth	Lithologies	Mineral Resources	Producing Formation
1	PERMIAN	3497	0	0	ALLUVIUM	NONE	No
2	RUSTLER	2376	1121	1121	ANHYDRITE	NONE	No
3	TOP OF SALT	2129	1368	1368	SALT	NONE	No
4	BASE OF SALT	-1571	5068	5068	SALT	NONE	No
5	LAMAR	-1839	5336	5336	LIMESTONE	NONE	No
6	BELL CANYON	-1881	5378	5378	SANDSTONE	NATURAL GAS,OIL	Yes
7	CHERRY CANYON	-2814	6311	6311	SANDSTONE	NATURAL GAS,OIL	Yes
8	BRUSHY CANYON	-4307	7804	7804	SANDSTONE	NATURAL GAS,OIL	Yes
9	BONE SPRING LIME	-5669	9166	9166	LIMESTONE	NONE	No
10	BONE SPRING 1ST	-6679	10176	10176	SANDSTONE	NATURAL GAS,OIL	Yes
11	BONE SPRING 2ND	-7159	10656	10656	SANDSTONE	NATURAL GAS,OIL	Yes
12	BONE SPRING 3RD	-8196	11693	11693	SANDSTONE	NATURAL GAS,OIL	No
13	WOLFCAMP	-8608	12105	12105		NATURAL GAS,OIL	Yes

Section 2 - Blowout Prevention

Operator Name: EOG RESOURCES INCORPORATED

Well Name: STONEWALL 28 FED COM

Well Number: 709H

Pressure Rating (PSI): 10M

Rating Depth: 12239

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 (10000-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.

Requesting Variance? YES

Variance request: Variance is requested to use a 5000 psi annular BOP with the 10000 psi BOP stack. 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 wave the centralizer requirements for the 7-5/8" 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. Centralizers will be placed in the 9-7/8" hole interval at least one every third joint. Variance is also requested to wave any centralizer requirements for the 5-1/2" FJ casing in the 6-3/4" hole size. An expansion additive will be utilized, in the cement slurry, for the entire length of the 6-3/4" hole interval to maximize cement bond and zonal isolation.

Testing Procedure: Before drilling out of the surface casing, the ram-type BOP and accessory equipment will be tested to 10000/ 250 psig and the annular preventer to 5000/ 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 10000/ 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.

Choke Diagram Attachment:

Stonewall_28_Fed_Com_709H_10_M_Choke_Manifold_20180131084509.pdf

Stonewall_28_Fed_Com_709H_Co_Flex_Hose_Certification_20180131084510.PDF

Stonewall_28_Fed_Com_709H_Co_Flex_Hose_Test_Chart_20180131084510.pdf

BOP Diagram Attachment:

Stonewall_28_Fed_Com_709H_10_M_BOP_Diagram_20180131084532.pdf

Stonewall_28_Fed_Com_709H_EOG_BLM_10M_Annular_Variance__4_String_20180131084533.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	Body SF
1	SURFACE	17.5	13.375	NEW	API	N	0	1150	0	1150	3497	2347	1150	J-55	54.5	STC	1.125	1.25	BUOY	1.6	BUOY	1.6
2	INTERMEDIATE	12.25	9.625	NEW	API	N	0	4000	0	4000	3497	-503	4000	J-55	40	LTC	1.125	1.25	BUOY	1.6	BUOY	1.6
3	INTERMEDIATE	12.25	9.625	NEW	API	N	4000	5100	4000	5100	-503	-1603	1100	HCK-55	40	LTC	1.125	1.25	BUOY	1.6	BUOY	1.6

Operator Name: EOG RESOURCES INCORPORATED

Well Name: STONEWALL 28 FED COM

Well Number: 709H

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	Body SF
4	PRODUCTI ON	6.75	5.5	NEW	API	N	0	10800	0	10800	3497	-7303	10800	OT H E R	20	OTHER - DWC/C-IS MS	1.12 5	1.25	BUOY	1.6	BUOY	1.6
5	INTERMED IATE	8.75	7.625	NEW	API	N	0	11300	0	11300	3497	-7803	11300	HCP -110	29.7	OTHER - FXL	1.12 5	1.25	BUOY	1.6	BUOY	1.6
6	PRODUCTI ON	6.75	5.5	NEW	API	N	10800	22315	10800	12239	-7303		11515	OT H E R	20	OTHER - VAM SFC	1.12 5	1.25	BUOY	1.6	BUOY	1.6

Casing Attachments

Casing ID: 1 **String Type:** SURFACE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Stonewall_28_Fed_Com_709H_BLM_Plan_20180131085423.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_20180131085438.pdf

Operator Name: EOG RESOURCES INCORPORATED

Well Name: STONEWALL 28 FED COM

Well Number: 709H

Casing Attachments

Casing ID: 3 **String Type:** INTERMEDIATE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

See_previously_attached_Drill_Plan_20180131085453.pdf

Casing ID: 4 **String Type:** PRODUCTION

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

See_previously_attached_Drill_Plan_20180131085515.pdf

Stonewall_28_Fed_Com_709H_5.500in_20.00_VST_P110EC_DWC_C_IS_MS_20180131085515.pdf

Casing ID: 5 **String Type:** INTERMEDIATE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Stonewall_28_Fed_Com_709H_7.625in_29.70_P110HC_FXL_20180131085536.pdf

See_previously_attached_Drill_Plan_20180131085535.pdf

Operator Name: EOG RESOURCES INCORPORATED

Well Name: STONEWALL 28 FED COM

Well Number: 709H

Casing Attachments

Casing ID: 6

String Type: PRODUCTION

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

See_previously_attached_Drill_Plan_20180131085551.pdf

Stonewall_28_Fed_Com_709H_5.500in_20.00_VST_P110EC_VAM_SFC_20180131085551.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
PRODUCTION	Lead		0	0	0	0	0	0	0	0	0

INTERMEDIATE	Lead		0	0	0	0	0	0	0	0	0
--------------	------	--	---	---	---	---	---	---	---	---	---

SURFACE	Lead		0	1150	600	1.73	13.5	1038	25	Class C	Lead: Class C + 4.0% Bentonite + 0.6% CD-32 + 0.5% CaCl2 + 0.25 lb/sk Cello-Flake (TOC @ Surface)
SURFACE	Tail		1150	1150	200	1.34	14.8	268	25	Class C	Tail: Class C + 0.6% FL-62 + 0.25 lb/sk Cello-Flake + 0.2% Sodium Metasilicate
INTERMEDIATE	Lead		0	5100	1780	2.2	12.7	3916	25	Class C	Lead: Class C + 0.15% C-20 + 11.63 pps Salt + 0.1% C-51 + 0.75% C-41P (TOC @ Surface)
INTERMEDIATE	Tail		5100	5100	200	1.12	16	224	25	Class C	Tail: Class C + 0.13% C-20

Operator Name: EOG RESOURCES INCORPORATED**Well Name:** STONEWALL 28 FED COM**Well Number:** 709H

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
INTERMEDIATE	Lead		4600	1130 0	340	2.72	11.5	924	25	Class C	Lead: Class C + 0.40% D013 + 0.20% D046 + 0.10% D065 + 0.20% D167 (TOC @ 4,600')
INTERMEDIATE	Tail		1130 0	1130 0	210	1.12	16	235	25	Class H	Tail: Class H + 94.0 pps D909 + 0.25% D065 + 0.30% D167 + 0.02% D208 + 0.15% D800
PRODUCTION	Lead		1080 0	2231 5	950	1.26	14.1	1197	25	Class H	Class H + 0.1% C-20 + 0.05% CSA-1000 + 0.20% C-49 + 0.40% C-17 (TOC @ 10,800')

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

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
1130 0	1223 9	OIL-BASED MUD	10	14							
1150	5100	SALT SATURATED	10	10.2							

Operator Name: EOG RESOURCES INCORPORATED

Well Name: STONEWALL 28 FED COM

Well Number: 709H

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
5100	11300	OIL-BASED MUD	8.7	9.4							
0	1150	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:

DS

Coring operation description for the well:

None

Section 7 - Pressure

Anticipated Bottom Hole Pressure: 8909

Anticipated Surface Pressure: 6216.42

Anticipated Bottom Hole Temperature(F): 181

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

Describe:

Contingency Plans geohazards description:

Contingency Plans geohazards attachment:

Hydrogen Sulfide drilling operations plan required? YES

Hydrogen sulfide drilling operations plan:

Stonewall_28_Fed_Com_709H_H2S_Plan_Summary_20180131085730.pdf

Operator Name: EOG RESOURCES INCORPORATED

Well Name: STONEWALL 28 FED COM

Well Number: 709H

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

Stonewall_28_Fed_Com_709H_Planning_Report_20180131085812.pdf

Stonewall_28_Fed_Com_709H_Wall_Plot_20180131085812.pdf

Other proposed operations facets description:

Other proposed operations facets attachment:

Stonewall_28_Fed_Com_709H_Proposed_Wellbore_20180131085837.pdf

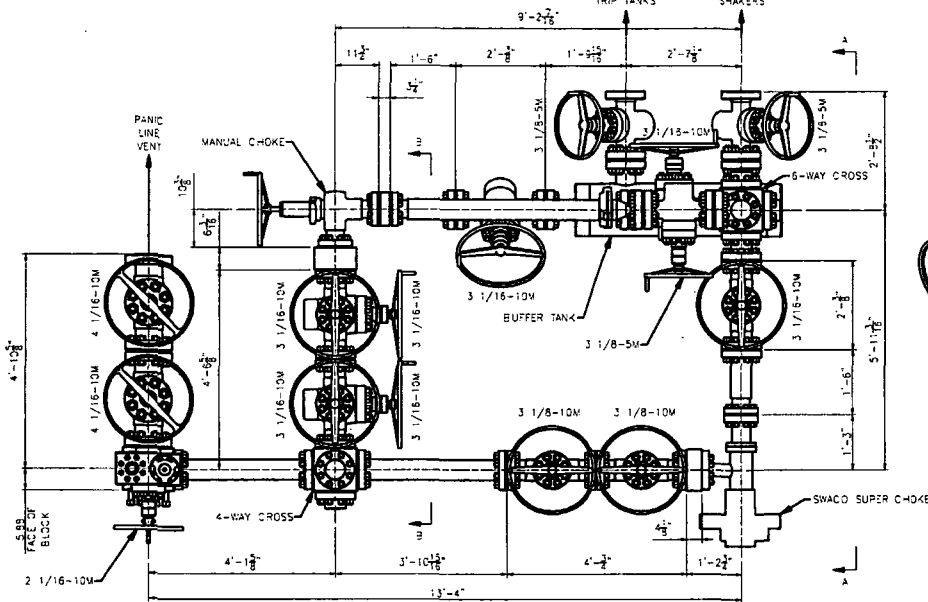
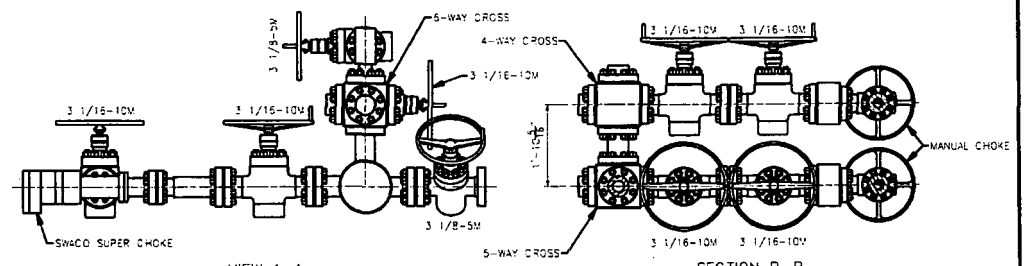
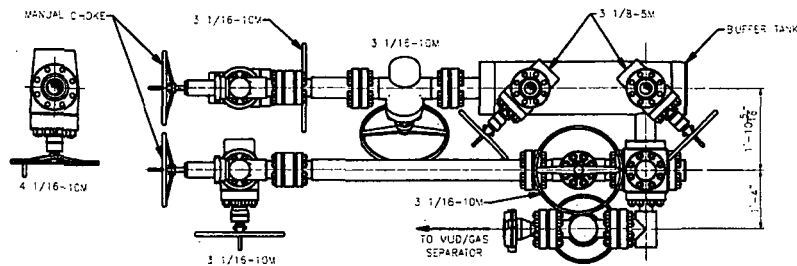
Stonewall_28_Fed_Com_709H_Rig_Layout_20180131085837.pdf

Stonewall_28_Fed_Com_709H_Wellhead_Cap_20180131085837.pdf

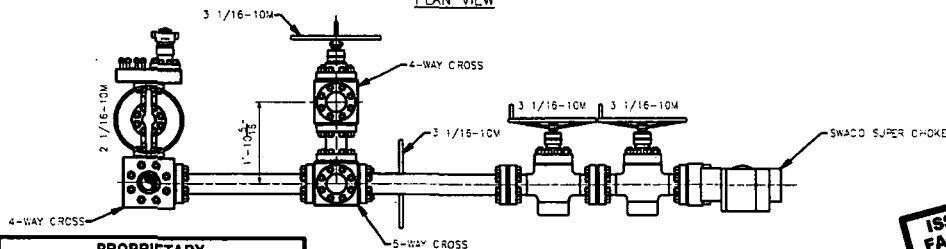
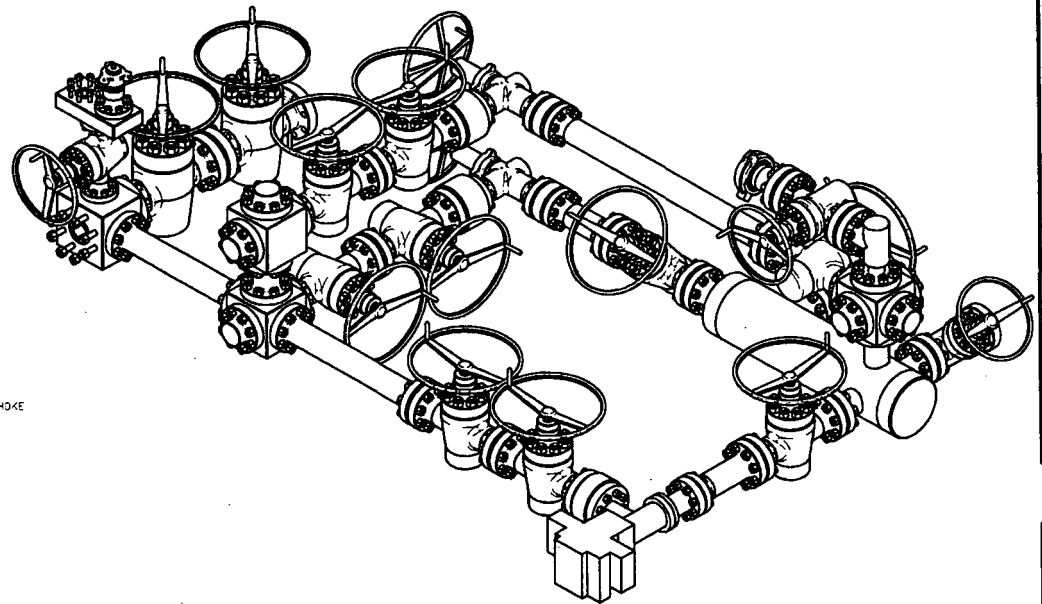
Stonewall28FC_GCP_20180131090705.pdf

Other Variance attachment:

Stonewall_28_Fed_Com_709H_EOG_BLM_10M_Annular_Variance___4_String_20180131085847.pdf



PLAN VIEW



PROPRIETARY

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ISSUED FOR FABRICATION
February-10-2014
DRAFTSMAN *[Signature]*
ENGINEER *[Signature]*

STANDARD TOLERANCES			
FABRICATION DIMENSIONS			
A-4" TO 12"		± 1/16"	
B-12" TO 120"		± 1/8"	
C-OVER 120"		± 1/4"	
MACHINED DIMENSIONS			
A-ALL DIMENSIONS		± .005	
B-ALL DIMENSIONS		± .010	
C-ALL DIMENSIONS		± .015	
D-ALL DIMENSIONS		± .020	
E-ALL DIMENSIONS		± .025	
F-ALL DIMENSIONS		± .030	
G-ALL DIMENSIONS		± .035	
H-ALL DIMENSIONS		± .040	
I-ALL DIMENSIONS		± .045	
J-ALL DIMENSIONS		± .050	
K-ALL DIMENSIONS		± .055	
L-ALL DIMENSIONS		± .060	
M-ALL DIMENSIONS		± .065	
N-ALL DIMENSIONS		± .070	
O-ALL DIMENSIONS		± .075	
P-ALL DIMENSIONS		± .080	
Q-ALL DIMENSIONS		± .085	
R-ALL DIMENSIONS		± .090	
S-ALL DIMENSIONS		± .095	
T-ALL DIMENSIONS		± .100	
U-ALL DIMENSIONS		± .105	
V-ALL DIMENSIONS		± .110	
W-ALL DIMENSIONS		± .115	
X-ALL DIMENSIONS		± .120	
Y-ALL DIMENSIONS		± .125	
Z-ALL DIMENSIONS		± .130	
AA-ALL DIMENSIONS		± .135	
AB-ALL DIMENSIONS		± .140	
AC-ALL DIMENSIONS		± .145	
AD-ALL DIMENSIONS		± .150	
AE-ALL DIMENSIONS		± .155	
AF-ALL DIMENSIONS		± .160	
AG-ALL DIMENSIONS		± .165	
AH-ALL DIMENSIONS		± .170	
AI-ALL DIMENSIONS		± .175	
AJ-ALL DIMENSIONS		± .180	
AK-ALL DIMENSIONS		± .185	
AL-ALL DIMENSIONS		± .190	
AM-ALL DIMENSIONS		± .195	
AN-ALL DIMENSIONS		± .200	
AO-ALL DIMENSIONS		± .205	
AP-ALL DIMENSIONS		± .210	
AQ-ALL DIMENSIONS		± .215	
AR-ALL DIMENSIONS		± .220	
AS-ALL DIMENSIONS		± .225	
AT-ALL DIMENSIONS		± .230	
AU-ALL DIMENSIONS		± .235	
AV-ALL DIMENSIONS		± .240	
AW-ALL DIMENSIONS		± .245	
AX-ALL DIMENSIONS		± .250	
AY-ALL DIMENSIONS		± .255	
AZ-ALL DIMENSIONS		± .260	
BA-ALL DIMENSIONS		± .265	
BB-ALL DIMENSIONS		± .270	
BC-ALL DIMENSIONS		± .275	
BD-ALL DIMENSIONS		± .280	
BE-ALL DIMENSIONS		± .285	
BF-ALL DIMENSIONS		± .290	
BG-ALL DIMENSIONS		± .295	
BH-ALL DIMENSIONS		± .300	
BI-ALL DIMENSIONS		± .305	
BJ-ALL DIMENSIONS		± .310	
BK-ALL DIMENSIONS		± .315	
BL-ALL DIMENSIONS		± .320	
BM-ALL DIMENSIONS		± .325	
BN-ALL DIMENSIONS		± .330	
BO-ALL DIMENSIONS		± .335	
BP-ALL DIMENSIONS		± .340	
BQ-ALL DIMENSIONS		± .345	
BR-ALL DIMENSIONS		± .350	
BS-ALL DIMENSIONS		± .355	
BT-ALL DIMENSIONS		± .360	
BU-ALL DIMENSIONS		± .365	
BV-ALL DIMENSIONS		± .370	
BW-ALL DIMENSIONS		± .375	
BX-ALL DIMENSIONS		± .380	
BY-ALL DIMENSIONS		± .385	
BZ-ALL DIMENSIONS		± .390	
CA-ALL DIMENSIONS		± .395	
CB-ALL DIMENSIONS		± .400	
CC-ALL DIMENSIONS		± .405	
CD-ALL DIMENSIONS		± .410	
CE-ALL DIMENSIONS		± .415	
CF-ALL DIMENSIONS		± .420	
CG-ALL DIMENSIONS		± .425	
CH-ALL DIMENSIONS		± .430	
CI-ALL DIMENSIONS		± .435	
CJ-ALL DIMENSIONS		± .440	
CK-ALL DIMENSIONS		± .445	
CL-ALL DIMENSIONS		± .450	
CM-ALL DIMENSIONS		± .455	
CN-ALL DIMENSIONS		± .460	
CO-ALL DIMENSIONS		± .465	
CP-ALL DIMENSIONS		± .470	
CQ-ALL DIMENSIONS		± .475	
CR-ALL DIMENSIONS		± .480	
CS-ALL DIMENSIONS		± .485	
CT-ALL DIMENSIONS		± .490	
CU-ALL DIMENSIONS		± .495	
CV-ALL DIMENSIONS		± .500	
CW-ALL DIMENSIONS		± .505	
CX-ALL DIMENSIONS		± .510	
CY-ALL DIMENSIONS		± .515	
CZ-ALL DIMENSIONS		± .520	
DA-ALL DIMENSIONS		± .525	
DB-ALL DIMENSIONS		± .530	
DC-ALL DIMENSIONS		± .535	
DD-ALL DIMENSIONS		± .540	
DE-ALL DIMENSIONS		± .545	
DF-ALL DIMENSIONS		± .550	
DG-ALL DIMENSIONS		± .555	
DH-ALL DIMENSIONS		± .560	
DI-ALL DIMENSIONS		± .565	
DJ-ALL DIMENSIONS		± .570	
DK-ALL DIMENSIONS		± .575	
DL-ALL DIMENSIONS		± .580	
DM-ALL DIMENSIONS		± .585	
DN-ALL DIMENSIONS		± .590	
DO-ALL DIMENSIONS		± .595	
DP-ALL DIMENSIONS		± .600	
DQ-ALL DIMENSIONS		± .605	
DR-ALL DIMENSIONS		± .610	
DS-ALL DIMENSIONS		± .615	
DT-ALL DIMENSIONS		± .620	
DU-ALL DIMENSIONS		± .625	
DV-ALL DIMENSIONS		± .630	
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DX-ALL DIMENSIONS		± .640	
DY-ALL DIMENSIONS		± .645	
DZ-ALL DIMENSIONS		± .650	
EA-ALL DIMENSIONS		± .655	
EB-ALL DIMENSIONS		± .660	
EC-ALL DIMENSIONS		± .665	
ED-ALL DIMENSIONS		± .670	
EE-ALL DIMENSIONS		± .675	
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EH-ALL DIMENSIONS		± .690	
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EJ-ALL DIMENSIONS		± .700	
EK-ALL DIMENSIONS		± .705	
EL-ALL DIMENSIONS		± .710	
EM-ALL DIMENSIONS		± .715	
EN-ALL DIMENSIONS		± .720	
EO-ALL DIMENSIONS		± .725	
EP-ALL DIMENSIONS		± .730	
EQ-ALL DIMENSIONS		± .735	
ER-ALL DIMENSIONS		± .740	
ES-ALL DIMENSIONS		± .745	
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EU-ALL DIMENSIONS		± .755	
EV-ALL DIMENSIONS		± .760	
EW-ALL DIMENSIONS		± .765	
EX-ALL DIMENSIONS		± .770	
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EZ-ALL DIMENSIONS		± .780	
FA-ALL DIMENSIONS		± .785	
FB-ALL DIMENSIONS		± .790	
FC-ALL DIMENSIONS		± .795	
FD-ALL DIMENSIONS		± .800	
FE-ALL DIMENSIONS		± .805	
FF-ALL DIMENSIONS		± .810	
FG-ALL DIMENSIONS		± .815	
FH-ALL DIMENSIONS		± .820	
FI-ALL DIMENSIONS		± .825	
FJ-ALL DIMENSIONS		± .830	
FK-ALL DIMENSIONS		± .835	
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FM-ALL DIMENSIONS		± .845	
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FP-ALL DIMENSIONS		± .860	
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FS-ALL DIMENSIONS		± .875	
FT-ALL DIMENSIONS		± .880	
FU-ALL DIMENSIONS		± .885	
FV-ALL DIMENSIONS		± .890	
FW-ALL DIMENSIONS		± .895	
FX-ALL DIMENSIONS		± .900	
FY-ALL DIMENSIONS		± .905	
FZ-ALL DIMENSIONS		± .910	
GA-ALL DIMENSIONS		± .915	
GB-ALL DIMENSIONS		± .920	
GC-ALL DIMENSIONS		± .925	
GD-ALL DIMENSIONS		± .930	
GE-ALL DIMENSIONS		± .935	
GF-ALL DIMENSIONS		± .940	
GG-ALL DIMENSIONS		± .945	
GH-ALL DIMENSIONS		± .950	
GI-ALL DIMENSIONS		± .955	
GJ-ALL DIMENSIONS		± .960	
GK-ALL DIMENSIONS		± .965	
GL-ALL DIMENSIONS		± .970	
GM-ALL DIMENSIONS		± .975	
GN-ALL DIMENSIONS		± .980	
GO-ALL DIMENSIONS		± .985	
GP-ALL DIMENSIONS		± .990	
GQ-ALL DIMENSIONS		± .995	
GR-ALL DIMENSIONS		± 1.000	
GS-ALL DIMENSIONS		± 1.005	
GT-ALL DIMENSIONS		± 1.010	
GU-ALL DIMENSIONS		± 1.015	
GV-ALL DIMENSIONS		± 1.020	
GW-ALL DIMENSIONS		± 1.025	
GX-ALL DIMENSIONS		± 1.030	
GY-ALL DIMENSIONS		± 1.035	
GZ-ALL DIMENSIONS		± 1.040	
HA-ALL DIMENSIONS		± 1.045	
HB-ALL DIMENSIONS		± 1.050	
HC-ALL DIMENSIONS		± 1.055	
HD-ALL DIMENSIONS		± 1.060	
HE-ALL DIMENSIONS		± 1.065	
HF-ALL DIMENSIONS		± 1.070	
HG-ALL DIMENSIONS		± 1.075	
HH-ALL DIMENSIONS		± 1.080	
HI-ALL DIMENSIONS		± 1.085	
HJ-ALL DIMENSIONS		± 1.090	
HK-ALL DIMENSIONS		± 1.095	
HL-ALL DIMENSIONS		± 1.100	
HM-ALL DIMENSIONS		± 1.105	
HN-ALL DIMENSIONS		± 1.110	
HO-ALL DIMENSIONS		± 1.115	
HP-ALL DIMENSIONS		± 1.120	
HQ-ALL DIMENSIONS		± 1.125	
HR-ALL DIMENSIONS		± 1.130	
HS-ALL DIMENSIONS		± 1.135	
HT-ALL DIMENSIONS		± 1.140	
HU-ALL DIMENSIONS		± 1.145	
HV-ALL DIMENSIONS		± 1.150	
HW-ALL DIMENSIONS		± 1.155	
HX-ALL DIMENSIONS		± 1.160	
HY-ALL DIMENSIONS		± 1.165	
HZ-ALL DIMENSIONS		± 1.170	
IA-ALL DIMENSIONS		± 1.175	
IB-ALL DIMENSIONS		± 1.180	
IC-ALL DIMENSIONS		± 1.185	
ID-ALL DIMENSIONS		± 1.190	
IE-ALL DIMENSIONS		± 1.195	
IF-ALL DIMENSIONS		± 1.200	
IG-ALL DIMENSIONS		± 1.205	
IH-ALL DIMENSIONS		± 1.210	
II-ALL DIMENSIONS		± 1.215	
IJ-ALL DIMENSIONS		± 1.220	
IK-ALL DIMENSIONS		± 1.225	
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IT-ALL DIMENSIONS		± 1.270	
IU-ALL DIMENSIONS		± 1.275	
IV-ALL DIMENSIONS		± 1.280	
IW-ALL DIMENSIONS		± 1.285	
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JA-ALL DIMENSIONS		± 1.305	
JB-ALL DIMENSIONS		± 1.310	
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JE-ALL DIMENSIONS		± 1.325	
JF-ALL DIMENSIONS		± 1.330	
JG-ALL DIMENSIONS		± 1.335	
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JI-ALL DIMENSIONS		± 1.345	
JJ-ALL DIMENSIONS		± 1.350	
JK-ALL DIMENSIONS		± 1.355	
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JN-ALL DIMENSIONS		± 1.370	
JO-ALL DIMENSIONS		± 1.375	
JP-ALL DIMENSIONS		± 1.380	
JQ-ALL DIMENSIONS		± 1.385	
JR-ALL DIMENSIONS		± 1.390	
JS-ALL DIMENSIONS		± 1.395	
JT-ALL DIMENSIONS		± 1.400	
JU-ALL DIMENSIONS		± 1.405	
JV-ALL DIMENSIONS		± 1.410	
JW-ALL DIMENSIONS		± 1.415	
JX-ALL DIMENSIONS		± 1.420	
JY-ALL DIMENSIONS		± 1.425	
JZ-ALL DIMENSIONS		± 1.430	
KA-ALL DIMENSIONS		± 1.435	
KB-ALL DIMENSIONS		± 1.440	
KC-ALL DIMENSIONS		± 1.445	
KD-ALL DIMENSIONS		± 1.450	
KE-ALL DIMENSIONS		± 1.455	
KF-ALL DIMENSIONS		± 1.460	
KG-ALL DIMENSIONS		± 1.465	
KH-ALL DIMENSIONS		± 1.470	
KI-ALL DIMENSIONS		± 1.475	
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LG-ALL DIMENSIONS		± 1.595	
LH-ALL DIMENSIONS		± 1.600	
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LK-ALL DIMENSIONS		± 1.615	
LL-ALL DIMENSIONS		± 1.620	
LM-ALL DIMENSIONS		± 1.625	
LN-ALL DIMENSIONS		± 1.630	
LO-ALL DIMENSIONS		± 1.635	
LP-ALL DIMENSIONS		± 1.640	
LQ-ALL DIMENSIONS		± 1.645	
LR-ALL DIMENSIONS		± 1.650	
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LV-ALL DIMENSIONS		± 1.670	
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LX-ALL DIMENSIONS		± 1.680	
LY-ALL DIMENSIONS		± 1.685	
LZ-ALL DIMENSIONS		± 1.690	
MA-ALL DIMENSIONS		± 1.695	
MB-ALL DIMENSIONS		± 1.700	
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MD-ALL DIMENSIONS		± 1.710	
ME-ALL DIMENSIONS		± 1.715	
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MG-ALL DIMENSIONS		± 1.725	
MH-ALL DIMENSIONS		± 1.730	
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MJ-ALL DIMENSIONS		± 1.740	
MK-ALL DIMENSIONS		± 1.745	
ML-ALL DIMENSIONS		± 1.750	
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MN-ALL DIMENSIONS		± 1.760	
MO-ALL DIMENSIONS		± 1.765	
MP-ALL DIMENSIONS		± 1.770	
MQ-ALL DIMENSIONS		± 1.775	
MR-ALL DIMENSIONS		± 1.780	
MS-ALL DIMENSIONS		± 1.785	
MT-ALL DIMENSIONS		± 1.790	
MU-ALL DIMENSIONS		± 1.795	
MV-ALL DIMENSIONS		± 1.800	
MW-ALL DIMENSIONS		± 1.805	
MX-ALL DIMENSIONS		± 1.810	
MY-ALL DIMENSIONS		± 1.815	
MZ-ALL DIMENSIONS		± 1.820	
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NB-ALL DIMENSIONS		± 1.830	
NC-ALL DIMENSIONS		± 1.835	
ND-ALL DIMENSIONS		± 1.840	
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NF-ALL DIMENSIONS		± 1.850	
NG-ALL DIMENSIONS		± 1.855	
NH-ALL DIMENSIONS		± 1.860	
NI-ALL DIMENSIONS		± 1.865	
NJ-ALL DIMENSIONS		± 1.870	
NK-ALL DIMENSIONS		± 1.875	
NL-ALL DIMENSIONS		± 1.880	
NM-ALL DIMENSIONS		± 1.885	
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NQ-ALL DIMENSIONS		± 1.905	
NR-ALL DIMENSIONS		± 1.910	
NS-ALL DIMENSIONS		± 1.915	
NT-ALL DIMENSIONS		± 1.920	
NU-ALL DIMENSIONS		± 1.925	
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NW-ALL DIMENSIONS		± 1.935	
NX-ALL DIMENSIONS		± 1.940	
NY-ALL DIMENSIONS		± 1.945	
NZ-ALL DIMENSIONS		± 1.950	
OA-ALL DIMENSIONS		± 1.955	
OB-ALL DIMENSIONS		± 1.960	
OC-ALL DIMENSIONS		± 1.965	
OD-ALL DIMENSIONS			

Manufacturer: Midwest Hose & Specialty

Serial Number: SN#90067

Length: 35'

Size: OD = 8" ID = 4"

Ends: Flanges Size: 4-1/16"

WP Rating: 10,000 psi Anchors required by manufacturer: No

M I D W E S T
HOSE AND SPECIALTY INC.

INTERNAL HYDROSTATIC TEST REPORT			
Customer: CACTUS		P.O. Number: RIG #123 Asset # M10761	
HOSE SPECIFICATIONS			
Type: CHOKER LINE		Length: 35'	
I.D. 4" INCHES		O.D. 8" INCHES	
WORKING PRESSURE 10,000 PSI	TEST PRESSURE 15,000 PSI		BURST PRESSURE PSI
COUPLINGS			
Type of End Fitting 4 1/16 10K FLANGE			
Type of Coupling: SWEDGED		MANUFACTURED BY MIDWEST HOSE & SPECIALTY	
PROCEDURE			
<i>Hose assembly pressure tested with water at ambient temperature.</i>			
TIME HELD AT TEST PRESSURE 1 MIN.		ACTUAL BURST PRESSURE: 0 PSI	
COMMENTS: SN#90067 M10761 Hose is covered with stainless steel armour cover and wrapped with fire resistant vermiculite coated fiberglass insulation rated for 1500 degrees complete with lifting eyes			
Date: 6/6/2011	Tested By: BOBBY FINK		Approved: MENDI JACKSON



Midwest Hose
& Specialty, Inc.

Internal Hydrostatic Test Graph

Customer: CACTUS

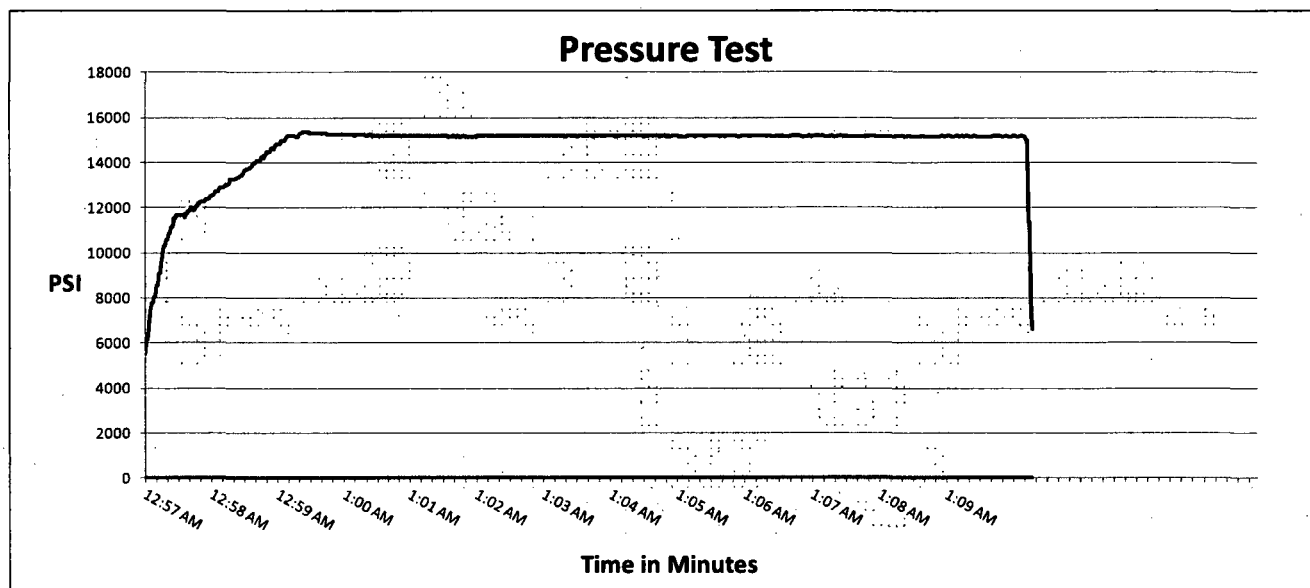
SALES ORDER# 90067

Hose Specifications

<u>Hose Type</u>	<u>Length</u>
C & K	35'
<u>I.D.</u>	<u>O.D.</u>
4"	8"
<u>Working Pressure</u>	<u>Burst Pressure</u>
10000 PSI	Standard Safety Multiplier Applies

Verification

<u>Type of Fitting</u>	<u>Coupling Method</u>
4 1/16 10K	Swage
<u>Die Size</u>	<u>Final O.D.</u>
6.62"	6.68"
<u>Hose Serial #</u>	<u>Hose Assembly Serial #</u>
	90067



Test Pressure
15000 PSI

Time Held at Test Pressure
11 1/4 Minutes

Actual Burst Pressure

Peak Pressure
15439 PSI

Comments: Hose assembly pressure tested with water at ambient temperature.

Tested By: Bobby Fink

Approved By: Mendi Jackson

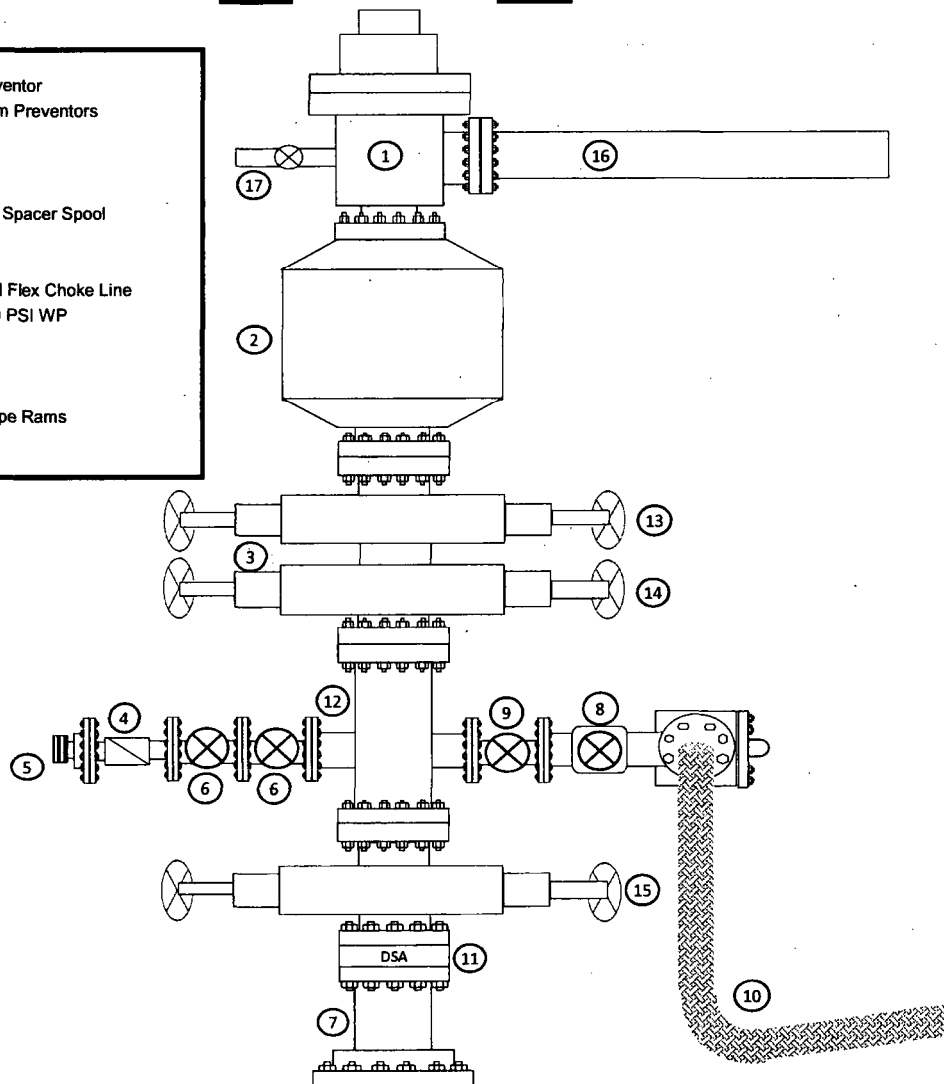
Exhibit 1

EOG Resources

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
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
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
16. Flow Line
17. 2" Fill Line



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	-	-

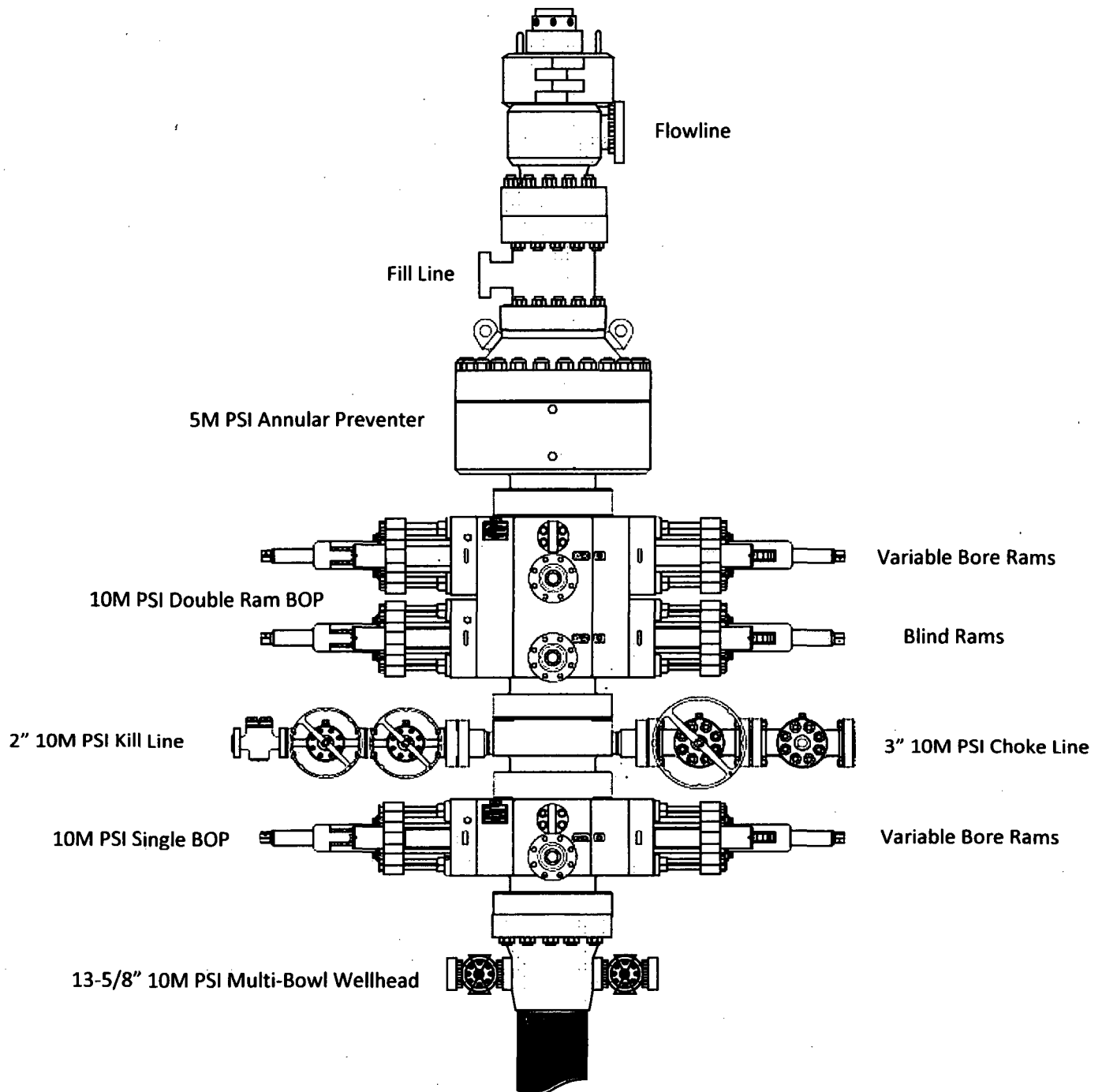
8-3/4" Intermediate Hole Section					
10M psi requirement					
Component	OD	Primary Preventer	RWP	Alternate Preventer(s)	RWP
Drillpipe	5.000" or 4.500"	Annular	5M	Upper 3.5 - 5.5" VBR Lower 3.5 - 5.5" VBR	10M 10M
HWDP	5.000" or 4.500"	Annular	5M	Upper 3.5 - 5.5" VBR Lower 3.5 - 5.5" VBR	10M 10M
Jars	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	-	-

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.)
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 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)

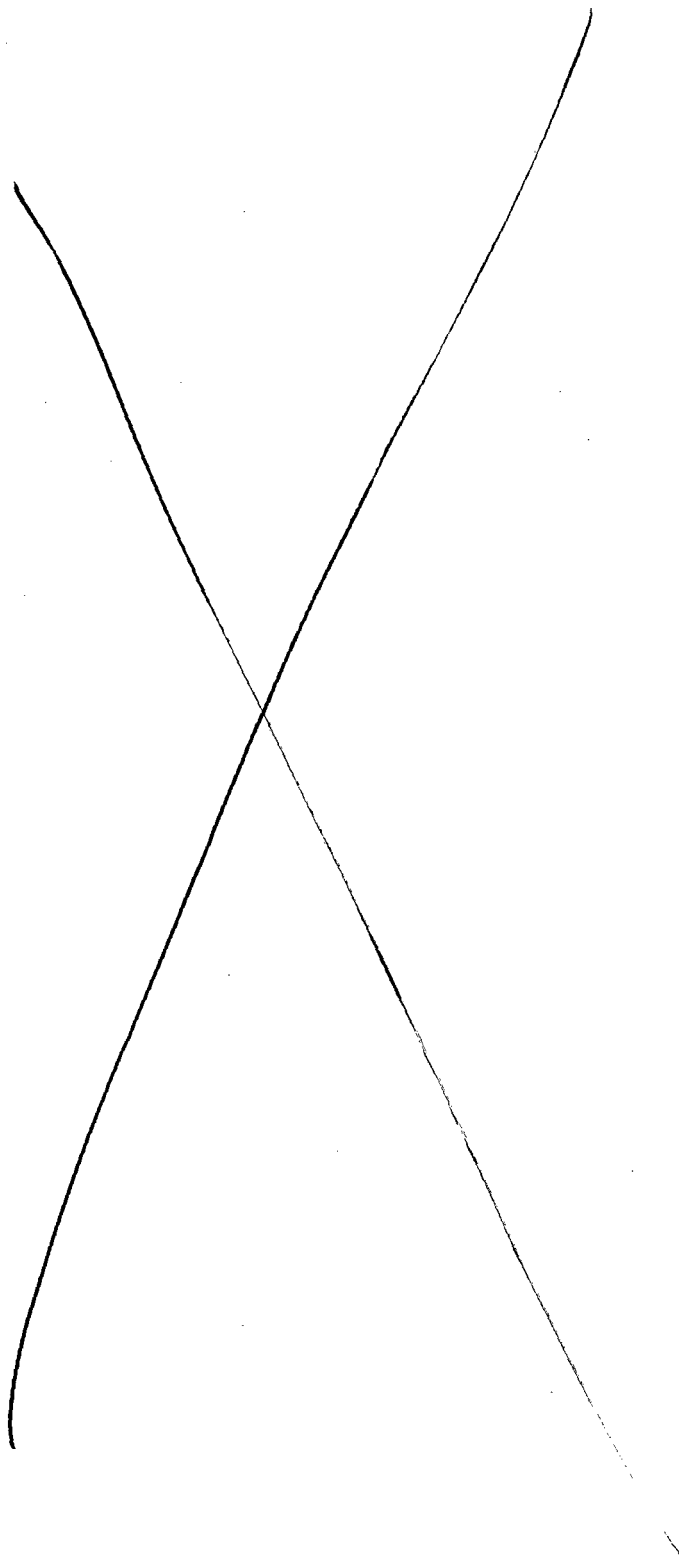
1. Sound alarm (alert crew)
2. Shut-in with blind rams. (HCR and choke will already be in the closed position.)
3. Confirm shut-in
4. Notify toolpusher/company representative
5. Read and record the following:
 - a. SICP
 - b. Pit gain
 - c. Time
6. Regroup and identify forward plan

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. Time
 - i. Regroup and identify forward plan
2. 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
 - h. Regroup and identify forward plan
3. With BHA in the stack and NO compatible ram preventer and pipe combo immediately available.
- a. Sound alarm (alert crew)
 - b. If possible to pick up high enough, pull string clear of the stack and follow "Open Hole" scenario.
 - c. 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
 - e. 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
 - i. Read and record the following:
 - i. SIDPP and SICP
 - ii. Pit gain
 - iii. Time
 - j. Regroup and identify forward plan

See previously attached Drill Plan



Metal One Corp. Metal One	MO-FXL Connection Data Sheet	Page	MCTP
		Date	3-Nov-16
		Rev.	0

Geometry

Imperial

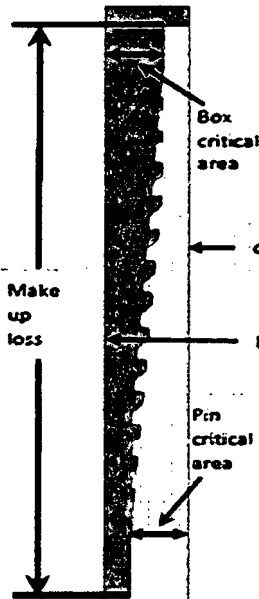
S.I.

Pipe Body

Grade	P110HC		P110HC	
Pipe OD (D)	7 5/8	in	193.68	mm
Weight	29.70	lb/ft	44.25	kg/m
Actual weight	29.04		43.26	kg/m
Wall thickness (t)	0.375	in	9.53	mm
Pipe ID (d)	6.875	in	174.63	mm
Pipe body cross section	13.537	in ²	85.508	mm ²
Drift Dia.	6.750	in	171.45	mm

Connection

Box OD (BW)	7.625	in	193.68	mm
PIN ID	6.875	in	174.63	mm
Makeup loss	0.219	in	5.56	mm
Box Critical Area	6.714	in ²	3686	mm ²
Joint load efficiency	70	%	70	%
Thread Taper	1 / 10 (1.2" per ft)			
Number of Threads	16			



Performance Properties for Pipe Body

M.I.Y.P. *1	10,760	psi	74.21	MPa
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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 VSB P110HC (YS=125~140ksi)

Performance Properties for Connection

Min. Compression Yield	747	kips (70% of S.M.Y.S.)
External Pressure	100%	of Collapse Strength

Recommended Torque

Opti.	17,200	ft-lb	23,300	N-m
Operational Max.	23,600	ft-lb	32,000	N-m

Note : Operational Max. torque can be applied for high torque application

See previously attached Drill Plan

EOG RESOURCES, INC.
STONEWALL 28 FED COM NO. 709H

1. GEOLOGIC NAME OF SURFACE FORMATION:

Permian

2. ESTIMATED TOPS OF IMPORTANT GEOLOGICAL MARKERS:

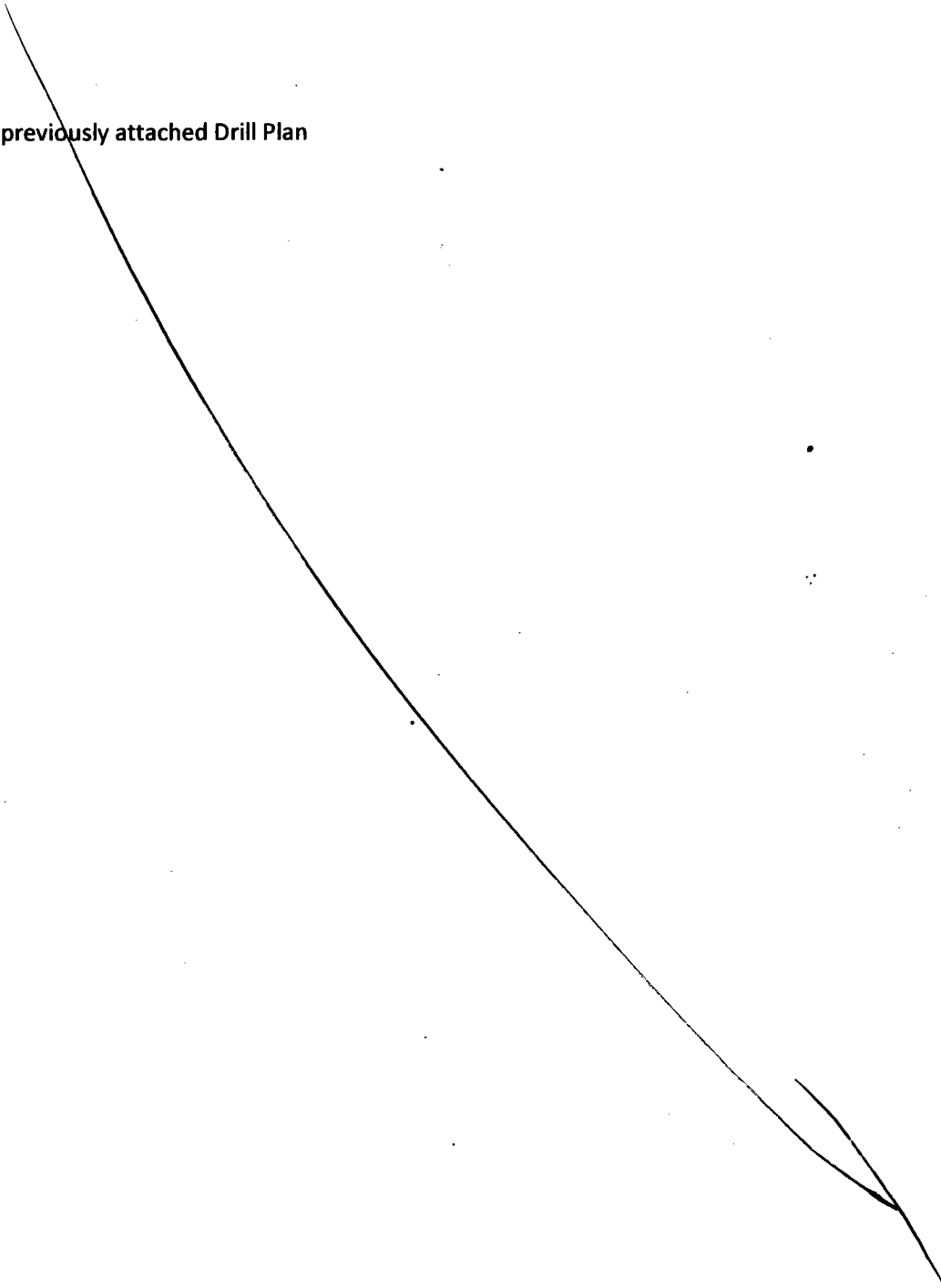
Rustler	1,121'
Top of Salt	1,368'
Base of Salt	5,068'
Base Anhydrite	5,336'
Lamar	5,336'
Bell Canyon	5,378'
Cherry Canyon	6,311'
Brushy Canyon	7,804'
Bone Spring Lime	9,166'
1 st Bone Spring Sand	10,176'
2 nd Bone Spring Shale	10,394'
2 nd Bone Spring Sand	10,656'
3 rd Bone Spring Carb	11,188'
3 rd Bone Spring Sand	11,693'
Wolfcamp	12,105'
TD	12,239'

3. ESTIMATED DEPTHS OF ANTICIPATED FRESH WATER, OIL OR GAS:

Upper Permian Sands	0- 400'	Fresh Water
Cherry Canyon	6,311'	Oil
Brushy Canyon	7,804'	Oil
1 st Bone Spring Sand	10,176'	Oil
2 nd Bone Spring Shale	10,394'	Oil
2 nd Bone Spring Sand	10,656'	Oil
3 rd Bone Spring Carb	11,188'	Oil
3 rd Bone Spring Sand	11,693'	Oil
Wolfcamp	12,105'	Oil

No other Formations are expected to give up oil, gas or fresh water in measurable quantities. Surface fresh water sands will be protected by setting 13.375" casing at 1,150' and circulating cement back to surface.

See previously attached Drill Plan



EOG RESOURCES, INC.
STONEWALL 28 FED COM NO. 709H

4. CASING PROGRAM - NEW

Hole Size	Interval	Csg OD	Weight	Grade	Conn	DF _{min} Collapse	DF _{min} Burst	DF _{min} Tension
17.5"	0 – 1,150'	13.375"	54.5#	J55	LTC	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 – 11,300'	7.625"	29.7#	HCP-110	FXL	1.125	1.25	1.60
6.75"	0' – 10,800'	5.5"	20#	P-110EC	DWC/C-IS MS	1.125	1.25	1.60
6.75"	10,800'-22,315'	5.5"	20#	P-110EC	VAM SFC	1.125	1.25	1.60

Variance is requested to wave the centralizer requirements for the 7-5/8" 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 also requested to wave any centralizer requirements for the 5-1/2" FJ casing in the 6-3/4" hole size. An expansion additive will be utilized, in the cement slurry, for the entire length of the 6-3/4" hole interval to maximize cement bond and zonal isolation.

Variance is also requested to waive the annular clearance requirements for the 5-1/2" casing by 7-5/8" casing annulus to the proposed top of cement.

Cementing Program:

Depth	No. Sacks	Wt. ppg	Yld Ft ³ /ft	Mix Water Gal/sk	Slurry Description
13-3/8" 1,150'	600	13.5	1.73	9.13	Lead: Class C + 4.0% Bentonite + 0.6% CD-32 + 0.5% CaCl ₂ + 0.25 lb/sk Cello-Flake (TOC @ Surface)
	200	14.8	1.34	6.34	Tail: Class C + 0.6% FL-62 + 0.25 lb/sk Cello-Flake + 0.2% Sodium Metasilicate
9-5/8" 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
7-5/8" 11,300'	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
5-1/2" 22,315'	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 @ 10,800')

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.

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STONEWALL 28 FED COM NO. 709H

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 – 1,150'	Fresh - Gel	8.6-8.8	28-34	N/c
1,150' – 5,100'	Brine	10.0-10.2	28-34	N/c
5,100' – 11,300'	Oil Base	8.7-9.4	58-68	N/c - 6
11,300' – 22,315' Lateral	Oil Base	10.0-14.0	58-68	3 - 6

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.

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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-CCL 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 8,909 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.

10. ANTICIPATED STARTING DATE AND DURATION OF OPERATIONS:

EOG RESOURCES, INC.
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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 13-3/8" 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 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 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.

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	-	-

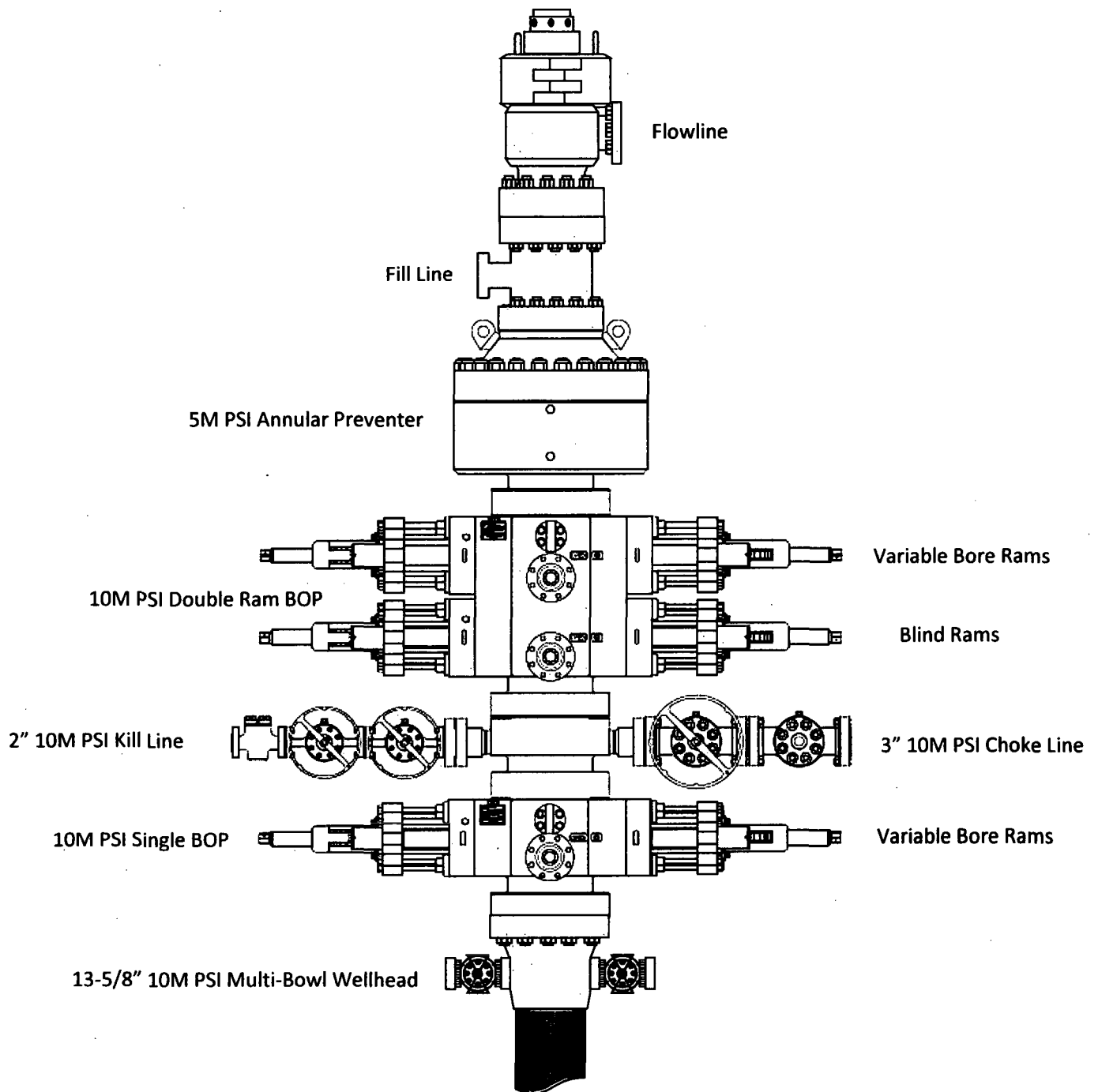
8-3/4" Intermediate Hole Section 10M psi requirement					
Component	OD	Primary Preventer	RWP	Alternate Preventer(s)	RWP
Drillpipe	5.000" or 4.500"	Annular	5M	Upper 3.5 - 5.5" VBR Lower 3.5 - 5.5" VBR	10M 10M
HWDP	5.000" or 4.500"	Annular	5M	Upper 3.5 - 5.5" VBR Lower 3.5 - 5.5" VBR	10M 10M
Jars	6.500"	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	-	-

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.)
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 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
 - c. 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. Time
 - i. Regroup and identify forward plan
2. 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
 - h. Regroup and identify forward plan
- 3. With BHA in the stack and NO compatible ram preventer and pipe combo immediately available.
 - a. Sound alarm (alert crew)
 - b. If possible to pick up high enough, pull string clear of the stack and follow "Open Hole" scenario.
 - c. 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
 - e. 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
 - i. Read and record the following:
 - i. SIDPP and SICP
 - ii. Pit gain
 - iii. Time
 - j. Regroup and identify forward plan



U.S. Department of the Interior
BUREAU OF LAND MANAGEMENT

SUPO Data Report

05/18/2018

APD ID: 10400026542

Submission Date: 01/31/2018

Operator Name: EOG RESOURCES INCORPORATED

Well Name: STONEWALL 28 FED COM

Well Number: 709H

Well Type: OIL WELL

Well Work Type: Drill



[Show Final Text](#)

Section 1 - Existing Roads

Will existing roads be used? YES

Existing Road Map:

STONEWALL28FC709H_vicinity_20180131085945.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:

Stonewall28FC_infrastructure_20180131090022.pdf

STONEWALL28FC709H_padsite_20180131090023.pdf

STONEWALL28FC709H_wellsite_20180131090024.pdf

New road type: RESOURCE

Length: 1833

Feet

Width (ft.): 24

Max slope (%): 2

Max grade (%): 20

Army Corp of Engineers (ACOE) permit required? NO

ACOE Permit Number(s):

New road travel width: 24

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? NO

Operator Name: EOG RESOURCES INCORPORATED

Well Name: STONEWALL 28 FED COM

Well Number: 709H

New road access plan attachment:

Access road engineering design? NO

Access road engineering design attachment:

Access surfacing type: OTHER

Access topsoil source: ONSITE

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: OTHER

Drainage Control comments: No drainage crossings

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

Road Drainage Control Structures (DCS) attachment:

Access Additional Attachments

Additional Attachment(s):

Section 3 - Location of Existing Wells

Existing Wells Map? YES

Attach Well map:

STONEWALL28FC709H_radius_20180131090036.pdf

Existing Wells description:

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

Submit or defer a Proposed Production Facilities plan? SUBMIT

Production Facilities description: Stonewall 28 Fed Com central tank battery is located in the NE/4 of section 28-24S-34E

Production Facilities map:

Operator Name: EOG RESOURCES INCORPORATED

Well Name: STONEWALL 28 FED COM

Well Number: 709H

Stonewall28FC_infrastructure_20180131090047.pdf

Section 5 - Location and Types of Water Supply

Water Source Table

Water source use type: OTHER

Water source type: RECYCLED

Describe type:

Source latitude:

Source longitude:

Source datum:

Water source permit type: WATER RIGHT

Source land ownership: STATE

Water source transport method: PIPELINE,TRUCKING

Source transportation land ownership: STATE

Water source volume (barrels): 720000

Source volume (acre-feet): 92.80303

Source volume (gal): 30240000

Water source and transportation map:

Stonewall_28_FC_Caliche_and_Water_Map_20180131090208.pdf

Water source comments:

New water well? NO

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:

Water well additional information:

Operator Name: EOG RESOURCES INCORPORATED

Well Name: STONEWALL 28 FED COM

Well Number: 709H

State appropriation permit:

Additional information attachment:

Section 6 - Construction Materials

Construction Materials description: 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.

Construction Materials source location attachment:

Stonewall_28_FC_Caliche_and_Water_Map_20180131090224.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? NO

Temporary disposal of produced water into reserve pit?

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?

Reserve pit liner

Reserve pit liner specifications and installation description

Cuttings Area

Operator Name: EOG RESOURCES INCORPORATED

Well Name: STONEWALL 28 FED COM

Well Number: 709H

Cuttings Area being used? NO

Are you storing cuttings on location? YES

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?: NO

Ancillary Facilities attachment:

Comments:

Section 9 - Well Site Layout

Well Site Layout Diagram:

Stonewall_28_Fed_Com_709H_Rig_Layout_20180131085905.pdf

STONEWALL28FC709H_padsite_20180131090244.pdf

STONEWALL28FC709H_wellsite_20180131090244.pdf

Comments: Wellsite, Padsite, Rig Layout

Section 10 - Plans for Surface Reclamation

Type of disturbance: New Surface Disturbance

Multiple Well Pad Name: STONEWALL 28 FED COM

Multiple Well Pad Number: 707H/708H/709H

Recontouring attachment:

STONEWALL28FC709H_reclamation_20180131090256.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.

Operator Name: EOG RESOURCES INCORPORATED

Well Name: STONEWALL 28 FED COM

Well Number: 709H

Well pad proposed disturbance (acres): 4.46281	Well pad interim reclamation (acres): 1.35124	Well pad long term disturbance (acres): 3.11157
Road proposed disturbance (acres): 1.009917	Road interim reclamation (acres): 0	Road long term disturbance (acres): 1.009917
Powerline proposed disturbance (acres): 0	Powerline interim reclamation (acres): 0	Powerline long term disturbance (acres): 0
Pipeline proposed disturbance (acres): 1.52663	Pipeline interim reclamation (acres): 0.610652	Pipeline long term disturbance (acres): 0.915978
Other proposed disturbance (acres): 0	Other interim reclamation (acres): 0	Other long term disturbance (acres): 0
Total proposed disturbance: 6.999357	Total interim reclamation: 1.961892	Total long term disturbance: 5.037465

Disturbance Comments: All Interim and Final reclamation is planned to be completed within 6 months. Interim 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:

Operator Name: EOG RESOURCES INCORPORATED

Well Name: STONEWALL 28 FED COM

Well Number: 709H

Non native seed used? NO

Non native seed description:

Seedling transplant description:

Will seedlings be transplanted for this project? NO

Seedling transplant description attachment:

Will seed be harvested for use in site reclamation? NO

Seed harvest description:

Seed harvest description attachment:

Seed Management

Seed Table

Seed type:

Seed source:

Seed name:

Source name:

Source address:

Source phone:

Seed cultivar:

Seed use location:

PLS pounds per acre:

Proposed seeding season:

Seed Summary	
Seed Type	Pounds/Acre

Total pounds/Acre:

Seed reclamation attachment:

Operator Contact/Responsible Official Contact Info

First Name: Stan

Last Name: Wagner

Phone: (432)686-3689

Email: stan_wagner@eogresources.com

Seedbed prep:

Seed BMP:

Seed method:

Existing invasive species? NO

Operator Name: EOG RESOURCES INCORPORATED

Well Name: STONEWALL 28 FED COM

Well Number: 709H

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

Disturbance type: WELL PAD

Describe:

Surface Owner: PRIVATE OWNERSHIP

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:

Operator Name: EOG RESOURCES INCORPORATED

Well Name: STONEWALL 28 FED COM

Well Number: 709H

Fee Owner: Bert Madera

Fee Owner Address:

Phone: (575)631-4444

Email:

Surface use plan certification: NO

Surface use plan certification document:

Surface access agreement or bond: Agreement

Surface Access Agreement Need description:

Surface Access Bond BLM or Forest Service:

BLM Surface Access Bond number:

USFS Surface access bond number:

Section 12 - Other Information

Right of Way needed? NO

Use APD as ROW?

ROW Type(s):

ROW Applications

SUPO Additional Information: OnSite meeting conducted 11/14/17

Use a previously conducted onsite? NO

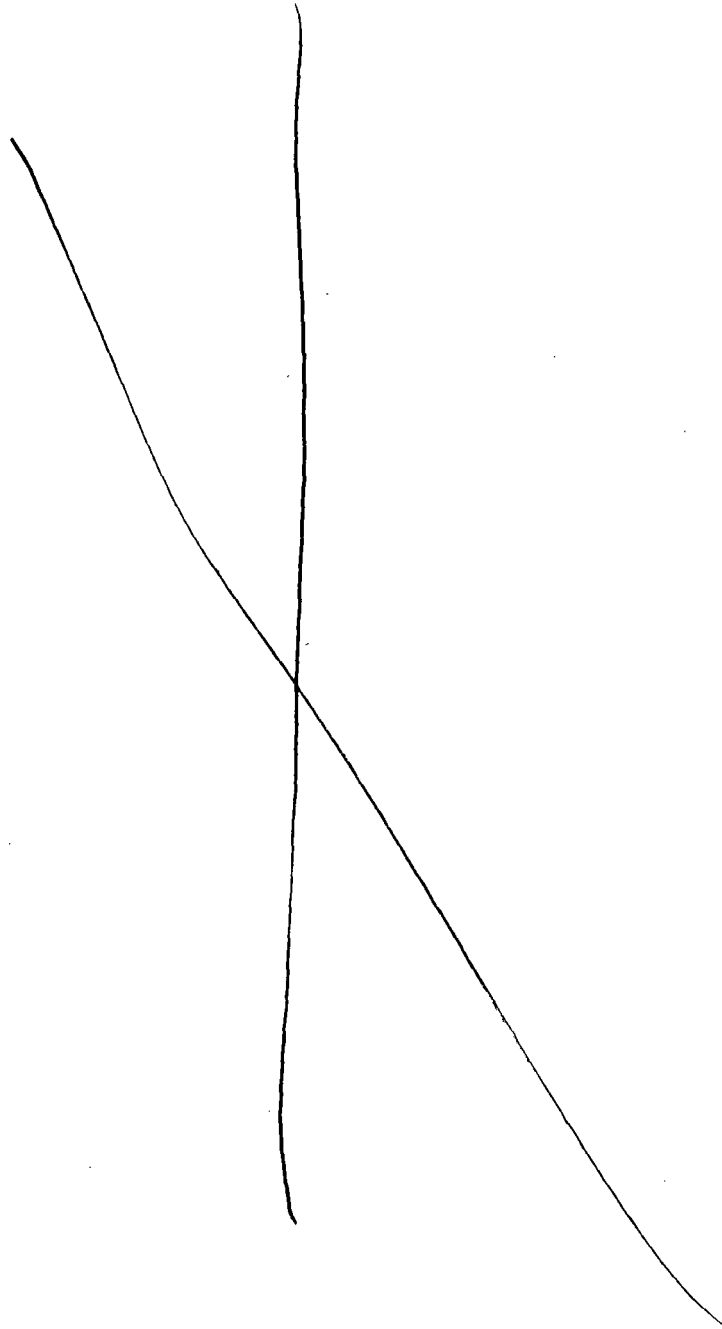
Previous Onsite information:

Other SUPO Attachment

Stonewall28FC_GCP_20180131090524.pdf

STONEWALL28FC709H_location_20180131090525.pdf

SUPO_Stonewall_28_Fed_Com_709H_20180131090633.pdf



Section 3 - Unlined Pits

Would you like to utilize Unlined Pit PWD options? NO

Produced Water Disposal (PWD) Location:

PWD surface owner:

PWD disturbance (acres):

Unlined pit PWD on or off channel:

Unlined pit PWD discharge volume (bbl/day):

Unlined pit specifications:

Precipitated solids disposal:

Describe 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? NO

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? NO

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? NO

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:



**U.S. Department of the Interior
BUREAU OF LAND MANAGEMENT**

Bond Info Data Report

05/18/2018

Bond Information

Federal/Indian APD: FED

BLM Bond number: NM2308

BIA Bond number:

Do you have a reclamation bond? NO

Is the reclamation bond a rider under the BLM bond?

Is the reclamation bond BLM or Forest Service?

BLM reclamation bond number:

Forest Service reclamation bond number:

Forest Service reclamation bond attachment:

Reclamation bond number:

Reclamation bond amount:

Reclamation bond rider amount:

Additional reclamation bond information attachment:

Operator Name: EOG RESOURCES INCORPORATED

Well Name: STONEWALL 28 FED COM

Well Number: 709H

	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
PPP Leg #1	122 0	FSL	230 9	FEL	24S	34E	28	Aliquot SWSE	32.1846	- 103.4738	LEA	NEW MEXI CO	NEW MEXI CO	F	NMNM 015684	- 874 2	160 41	122 39
EXIT Leg #1	330	FSL	230 9	FEL	24S	34E	33	Aliquot SWSE	32.16768 1	- 103.4737 887	LEA	NEW MEXI CO	NEW MEXI CO	F	NMNM 120363	- 874 2	222 14	122 39
BHL Leg #1	230	FSL	231 0	FEL	24S	34E	33	Aliquot SWSE	32.16740 71	- 103.4737 883	LEA	NEW MEXI CO	NEW MEXI CO	F	NMNM 120363	- 874 2	223 14	122 39



U.S. Department of the Interior
BUREAU OF LAND MANAGEMENT

PWD Data Report

05/18/2018

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? NO

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:

Describe 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:



U.S. Department of the Interior
BUREAU OF LAND MANAGEMENT

Operator Certification Data Report

05/18/2018

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: Stan Wagner

Signed on: 01/31/2018

Title: Regulatory Specialsit

Street Address: 5509 Champions Drive

City: Midland

State: TX

Zip: 79702

Phone: (432)686-3689

Email address: Stan_Wagner@eogresources.com

Field Representative

Representative Name: James Barwis

Street Address: 5509 Champions Drive

City: Midland

State: TX

Zip: 79706

Phone: (432)425-1204

Email address: james_barwis@eogresources.com