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DEPARTMENT OF THE INTERIOR BURCAU OF LAND MANAGEMENT APPLICATION FOR PERMIT TO DRILL OR REENTER APPLICATION FOR PERMIT TO TORILL OR RECOMPOSITION FOR PORTATION FOR PERMIT TO TORILL OR RECOMPOSITION FOR PERMIT TO TORILL OR RECOMPOSITION FOR PERMIT TO TORILL OR RECOMPOSITION FOR PERMIT TO TORICLE OR RECOMPOSITION FOR PERMITTION FOR PERMITTION FOR PERMIT TO THE PERMIT TO TORICLE OR RECOMPOSITION FOR PERMITTION FOR PERMITICATION FOR PERMITTION FOR PERMITICATION FOR PERMITAL OR REPORTED FO	March 2012)		JAN 03	3 201 8	FORM API OMB No. 10 Expires Octob	04-0137
APPLICATION FOR PERMIT TO DRILL OR REENTER 6. If Indian, Albree or Tribe Name 1a. Type of work: DRILL REENTER 7. If Unit or CA Agreement, Name and Na. 1a. Type of Well: On Well Gas Well Other Single Zone Multiple Zone PISTOLERO 15 FED COM 703H 2. Name of Operator EOG RESOURCES INCORPORATED TTTD TTTD PISTOLERO 15 FED COM 703H 3a. Addess H111 Bagby Sky Lobby2 Houston TX 77002 TD, Field and Food or Exploratory POSE 25 Stad22N UPPEr 4. Location of Well (Report location Cearly and in accordings with any State reparement ? No. Field and Food or Exploratory POSE 25 Stad22N UPPEr 4. Location of Well (Report location from bearest town or past office II. Sec. 71 R. M. or Bit and Survey or Area SEC 15 / T25S / R34E / NMP A proposed prod And ceremin from proposed* II. Soci file Role II. Soci file Role II. Soci file Role 15. Distance from proposed* II. Soci file Role II. Soci file Role II. Soci file Role II. Soci file Role 16. No. of file role in the Role II. Soci file Role II. Soci file Role II. Soci file Role II. Soci file Role 17. State from proposed* I. Soci file Role II. Soci file Role II. Soci file Role II. So	DEPARTMENT OF THE I		RECEI	VED	5. Lease Serial No. NMNM113420	
is. Type of work: []] DRLL	APPLICATION FOR PERMIT TO I	DRILL OR	REENTER		6. If Indian, Allotee or 7	Fřibe Name
1b. Type of Well: Use of Operator GG RESOURCES INCORPORATED VISTING 2006 9. API Well No. 9. API Well No. 2 Name of Operator GG RESOURCES INCORPORATED VISTING 9. API Well No. 9. API Well No. 3a Address 1111 Bagby Sky Lobby2 Houston TX 77002 7737 9. API Well No. 9. API Well No. 9. API Well No. 4 Location of Well Report Iscalar clearly and In accordance with any Sume reparaments.* 10. Secial and Pool, or Explorator (707 Kell Number of Parish II) Seci.71. K. M. of Bik and Survey or Area 4. Distance in miles and direction from nearest town or poso office* 11. Seci.71. K. M. of Bik and Survey or Area SEC 15 / T255 / R34E / NMP 4. Distance from proposed ford, zone SWSW / 230 FSL / 990 FWL / LAT 32.123982 / LONG 403.4627694 12. County or Parish II) 13. State 13. Distance from proposed ford, zone SWSW / 230 FSL / 990 FWL / LAT 32.1386773 / LONG 403.4627694 12. County or Parish II) 13. State 14. Distance from proposed ford, zone SWSW / 230 FSL / 990 FWL / LAT 32.1386773 / LONG 403.4627694 10. FED NML308 12. County or Parish II) 15. Distance from proposed ford, zone SWSW / 230 FSL / 990 FWL / LAT 32.1386773 / LONG 403.4627694 10. ELAT 10. ELAT 16. Distance from proposed ford, dire, conjected and the state of the secondance with the requicate of the secondance direcate to this wel	la. Type of work: DRILL REENTE	ER .				1
EOG RESOURCES INCORPORATED Image: Image: Image: Incomposed Incon		✔ Sin	gle Zone 🔲 Multip	le Zone	PISTOLERO 15 FED	No. (72033 COM 703H
11111 Bagby Sky Lobby2 Houston TX 77002 (713)651-7000 RED HILLS / WC-025 S253402N UPPEF 4. Location of Well (Report location clearly and in accendance with any Sume requirements.*) 11. Sec; J. R. M. or Blk and Survey or Area At surface NWNW / 363 FNL / 1104 FWL / LAT 32.1367773 / LONG -103.4627694 SEC 15 / T25S / R34E / NMP 14. Distance in miles and direction from nearest town or post office* 12. County or Parish 13. State 15. Distance from proposed* 20 feet NM 16. No. of acres in tesse 17. Spacing Unit dedicate to this well 16. Indication for nearest 20 feet 10. No. of acres in tesse 17. Spacing Unit dedicate to this well 18. Distance from proposed* fog, init line, if any) 19. Proposed Depth 20. BLM/BIA Bord No. on file 12. County or Parish 18. Distance from proposed fog, init line, if any) 19. Proposed Depth 20. BLM/BIA Bord No. on file 12. State 18. Distance from proposed location* 22. Approximate date work will start* 23. Estimated duration 23. State 21. Elevations (Show whether DF, KDB, RT, GL, ecc.) 23. Approximate date work will start* 23. State 24. Attachments 14. Bend to correct the operations unless covered by an existing bond on file (sec the 20 dave). 24. Attachments 16. Such other site specific information and/or plans as may be required	EOG RESOURCES INCORPORATED		/	A	30-025-	44739
At surface NWNW / 363 FNL / 1104 FWL / LAT 32.1367773 / LONG -103.4627694 At proposed prod. zone SWSW / 230 FSL / 990 FWL / LAT 32.1238982 / LONG -103.4631631 14. Distance in miles and direction from nearest town or post office* 15. Distance from proposed to cannot set ine, ft. (Abs to nearest with and line, if any) (Distance from proposed reaction * to nearest with and line, if any) (Distance from proposed reaction * to nearest with and line, if any) (Distance from proposed reaction * to nearest with and line, if any) (Distance from proposed reaction * to nearest with an line, if any) (Distance from proposed reaction * to nearest with an line, if any) (Distance from proposed reaction * to nearest with drilling, completed, 330 feet applied for, on this lease, ft. 22. Approximate date work will start* 23. Estimated duration 23. Assimated duration 24. Attachments The following, completed in accordance with the requirements of Onshore Oil and Gas Order No I, must be attached to this form: 1. Well plat certified by a registered surveyor 24. Attachments The following, completed in accordance with the requirements of Onshore Oil and Gas Order No I, must be attached to this form: 1. Well plat certified by a registered surveyor 2. A Dolling Plan. 3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO must be field with the appropriate Forest Service Office) 25. Signature (Electronic Submission) Title Regulatory Specialist Approved by <i>(Signative</i>) (Electronic Submission) Title Ratyria Resource Specialist Approved by <i>(Signative</i>) (Electronic Submission) Title Ratyria Resource Specialist Approved by <i>(Signative</i>) (Electronic Submission) (Date CARLSBAD Approved by <i>(Signative</i>) (Electronic, Seetion 1001 and file 43 USC. Section 1212, make it a crime for any person knowingly and wilffully to make to any department or agency of the United Takes any false, fictitious on fraudulent statements or representations as to any matter within its junisdict					A 5.	
14. Distance in miles and direction from nearest town or post office* 12. Country or Parish LEA 13. State NM 15. Distance from proposed* (alcount) on nearest drg, unit line, if any) 16. No, of acres in lease 17. Spacing Unit dedicated to this well 16. No, of acres in lease 16. No, of acres in lease 17. Spacing Unit dedicated to this well 17. Distance from proposed* (alcount) 10. But/BIA Bond No. on file 10. But/BIA Bond No. on file 18. Distance from proposed location* to nearest, applied for, on this lease, ft. 11. 2538 feet / 17342 feet 12. But/BIA Bond No. on file 18. Distance from proposed location* to nearest, applied for, on this lease, ft. 12. Approximate date work will start* 23. Estimated duration 2333 feet 125. Approximate date work will start* 24. Attachments The following, completed in accordance with the requirements of Onshore OI and Gas Order No. I, must be attached to this form. 14. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above). 19. Well plat certified by a registered surveyor. 4. Bond to cover the operation and/or plans as may be required by the BLM. 25. Signature Name (Printed/Typed) Surveyor (Frinted/Typed) 25. Signature Name (Printed/Typed) Date 27. Vignative/ (Electroptic Submission) Name (Printed/Typed) Date	At surface NWNW / 363 FNL / 1104 FWL / LAT 32.1367	773 / LONG	-103.4627694	1631 ····		·
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3333 feet 12/01/2017/ 25 days 24. Attachments 24. Attachments The following, completed in accordance with the requirements of Onshore Oil and Gas Order No.1, must be attached to this form: 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above). 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). 25. Signature 0. Operator certification 6. Such other site specific information and/or plans as may be required by the BLM. 25. Signature Name (Printed/Typed) Date (Electronic Submission) Name (Printed/Typed) Date 7/17/2017 Office CARLSBAD Natural Resource Specialist CARLSBAD CARLSBAD Approval does hot 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 of approval, if any, are attached. The for any person knowingly and willfully to make to any department or agency of the United interes any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction. (Continued on page 2)	to nearest well, drilling, completed, 330 feet		(N - N)			
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(Continued on page 2) *(Instructions on page 2)	conduct operations thereon.	s legalor equit	able title to those righ	ts in the sul	bject lease which would entit	e the applicant to
	Fitle 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a cr States any false, fictitious or fraudulent statements or representations as t	rime for any pe to any matter w	rson knowingly and within its jurisdiction.	villfully to r	nake to any department or ag	gency of the United
APPROVED WITH CONDITIONS		<u></u> .			*(Instruc	tions on page 2)

Approval Date: 12/21/2017

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miss. B. C. M.	
m. A. III	

VAFMSS

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

Drilling Plan Data Report

12/21/2017

APD ID: 10400015519

Submission Date: 07/17/2017

Highlighted data reflects the most recent changes

Show Final Text

Well Name: PISTOLERO 15 FED COM

Well Number: 703H

Well Work Type: Drill

Well Type: OIL WELL

Section 1 - Geologic Formations

Operator Name: EOG RESOURCES INCORPORATED

Formation			True Vertical				Producing
ID	Formation Name	Elevation	Depth	Depth	Lithologies	Mineral Resources	
1	PERMIAN	3333	0	0	ALLUVIUM	NONE	No
2	RUSTLER	2432	901	901	ANHYDRITE	NONE	No
3	TOP SALT	2301	1032	1032	SALT	NONE	, No
4	BASE OF SALT	-1747	5080	5080	SALT	NONE	No
5	LAMAR	-2001	5334	5334 •	LIMESTONE	NONE	No
6	BELL CANYON	-2043	5376	5376	SANDSTONE	NATURAL GAS,OIL	No
7	CHERRY CANYON	-2999	6332	6332	SANDSTONE	NATURAL GAS, OIL	No
8	BRUSHY CANYON	-4639	7972	7972	SANDSTOŅE	NATURAL GAS,OIL	No
9	BONE SPRING LIME	-5977	9310	9310	LIMESTONE	NONE	No
10	FIRST BONE SPRING SAND	-10315	10315	10315	SANDSTONE	NATURAL GAS,OIL	No
11	BONE SPRING 2ND	-7510	10843	10843	SANDSTONE	NATURAL GAS,OIL	No
12	BONE SPRING 3RD	-8583	11916	11916	SANDSTONE	NATURAL GAS,OIL	No
13	WOLFCAMP	-9055	12388	12388	SHALE	NATURAL GAS,OIL	Yes

Section 2 - Blowout Prevention

Well Name: PISTOLERO 15 FED COM

Well Number: 703H

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
5	INTERMED IATE	8.75	7.625	NEW	API	N	3000	11500	3000	11500	333	-8167	8500	HCP -110		OTHER - Flushmax III	1.12 5	1.25	BUOY	1.6	BUOY	1.6
6	PRODUCTI ON	6.75	5.5	NEW	API	N	11000	17342	11000	12538	-7667	-9205		OTH ER		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):

Pistolero_15_Fed_Com_703H_BLM_Plan_07-17-2017.pdf

Casing ID: 2 String Type: INTERMEDIATE

Inspection Document:

Spec Document:

Tapered String Spec:

Pistolero_15_Fed_Com_703H_7.625in_29.70_P_110_FlushMax_III_07-17-2017.pdf See_previously_attached_Drill_Plan_07-17-2017.pdf Pistolero_15_Fed_Com_703H_7.625in_29.7_P110EC_VAM_SLIJ_II_07-17-2017.pdf

Casing Design Assumptions and Worksheet(s):

See_previously_attached_Drill_Plan_07-17-2017.pdf

Well Name: PISTOLERO 15 FED COM

Well Number: 703H

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_20171003130118.pdf

Section	4 - Ce	emen	t								• •
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
· · · ·		<u> </u>		<u> </u>	<u>.</u>	L,,		1		1	
INTERMEDIATE	Lead		0	0	0	0	0	0	0	0	0
		L I		<u>i</u>	L	<u> </u>	L	L		· ·	
INTERMEDIATE	Lead		0	0	0	0	0	0	0	0	0
L			í		I	<u>I</u>	L	L			
SURFACE	Lead		0	925	325	1.73	13.5	562	25	Class C	Class C + 4.0% Bentonite + 0.6% CD- 32 + 0.5% CaCl2 + 0.25 Ib/sk Cello-Flake (TOC @ Surface)
SURFACE	Tait		925	925	200	1.34	14.8	268	25	Class C	Class C + 0.6% FL-62 + 0.25 lb/sk Cello-Flake + 0.2% Sodium Metasilicate
INTERMEDIATE	Lead		0	1150 0	2250	1.38	14.8	3105	25	Class C	Class C + 5% Gypsum + 3% CaCl2 pumped via bradenhead (TOC@surface)

Page 5 of 8

Additional Operator Remarks

Location of Well

1. SHL: NWNW / 363 FNL / 1104 FWL / TWSP: 25S / RANGE: 34E / SECTION: 15 / LAT: 32.1367773 / LONG: -103.4631443 (TVD: 0 feet, MD: 0 feet) PPP: NWNW / 330 FNL / 988 FWL / TWSP: 25S / RANGE: 34E / SECTION: 15 / LAT: 32.1368696 / LONG: -103.4631443 (TVD: 12496 feet, MD: 12617 feet) BHL: SWSW / 230 FSL / 990 FWL / TWSP: 25S / RANGE: 34E / SECTION: 15 / LAT: 32.1238982 / LONG: -103.4631631 (TVD: 12538 feet, MD: 17342 feet)

BLM Point of Contact

Name: Tenille Ortiz Title: Legal Instruments Examiner Phone: 5752342224 Email: tortiz@blm.gov

VAFMSS

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

Application Data Report

12/21/201/

APD ID: 10400015519

Operator Name: EOG RESOURCES INCORPORATED

Well Name: PISTOLERO 15 FED COM

Well Type: OIL WELL

Well Number: 703H

Submission Date: 07/17/2017

Zip: 77002

Well Work Type: Drill

Highlighted data reflects the most recent changes

Show Final Text

Section 1 - General		
APD ID: 10400015519	 Tie to previous NOS?	Submission Date: 07/17/2017
BLM Office: CARLSBAD	User: Stan Wagner	Title: Regulatory Specialsit
Federal/Indian APD: FED	Is the first lease penetrated	for production Federal or Indian? FED
Lease number: NMNM113420	Lease Acres: 320	
Surface access agreement in place?	Allotted? F	Reservation:
Agreement in place? NO	Federal or Indian agreemen	it:
Agreement number:		
Agreement name:	· · · · · · · · · · · · · · · · · · ·	
Keep application confidential? YES	•	
Permitting Agent? NO	APD Operator: EOG RESOL	JRCES INCORPORATED
Operator letter of designation:		

Operator Info

Operator Organization Name: EOG RESOURCES INCORPORATED

Operator Address: 1111 Bagby Sky Lobby2

Operator PO Box:

۰.

Operator City: Houston State: TX

Operator Phone: (713)651-7000

Operator Internet Address:

Section 2 - Well Information

Well in Master Development Plan? NO	Mater Development Plan na	me:
Well in Master SUPO? NO	Master SUPO name:	
Well in Master Drilling Plan? NO	Master Drilling Plan name:	
Well Name: PISTOLERO 15 FED COM	Well Number: 703H	Well API Number:
Field/Pool or Exploratory? Field and Pool	Field Name: RED HILLS	Pool Name: WC-025 S253402N UPPER WC

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

Page 1 of 3

Well Number: 703H

Well Name: PISTOLERO 15 FED COM

<u> </u>									*									
	NS-Foot	NS Indicator	EW-Foot	EW Indicator	Twsp	Range	Section	Aliquot/Lot/Tract	Latitude	Longitude	County	State	Meridian	Lease Type	Lease Number	Elevation	DW	TVD
EXIT	330	FSL	990	FWL	25S	34E	15	Aliquot	32.12417	-	LEA	NEW	NEW	F	NMNM	-	172	125
Leg			1			·		sws	31	103.4631		MEXI	MEXI		113420	920	42	38
#1				j				w		624		со	со			5		
BHL	230	FSL	990	FWL	25S	34E	15	Aliquot	32.12389	-	LEA	NEW	NEW	F	NMNM	-	173	125
Leg								sws	82	103.4631		MEXI	6		113420	920	42	38
#1						1		W		631		co	co			5		

Well Name: PISTOLERO 15 FED COM

Well Number: 703H

Top Depth	Bottom Depth	Mud Type	Min Weight (Ibs/gal)	Max Weight (Ibs/gal)	Density (lbs/cu ft)	Gel Strength (lbs/100 sqft)	На	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
											14.0 ppg may be utilized.
0	925	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: 9127

Anticipated Surface Pressure: 6368.64

Anticipated Bottom Hole Temperature(F): 181

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

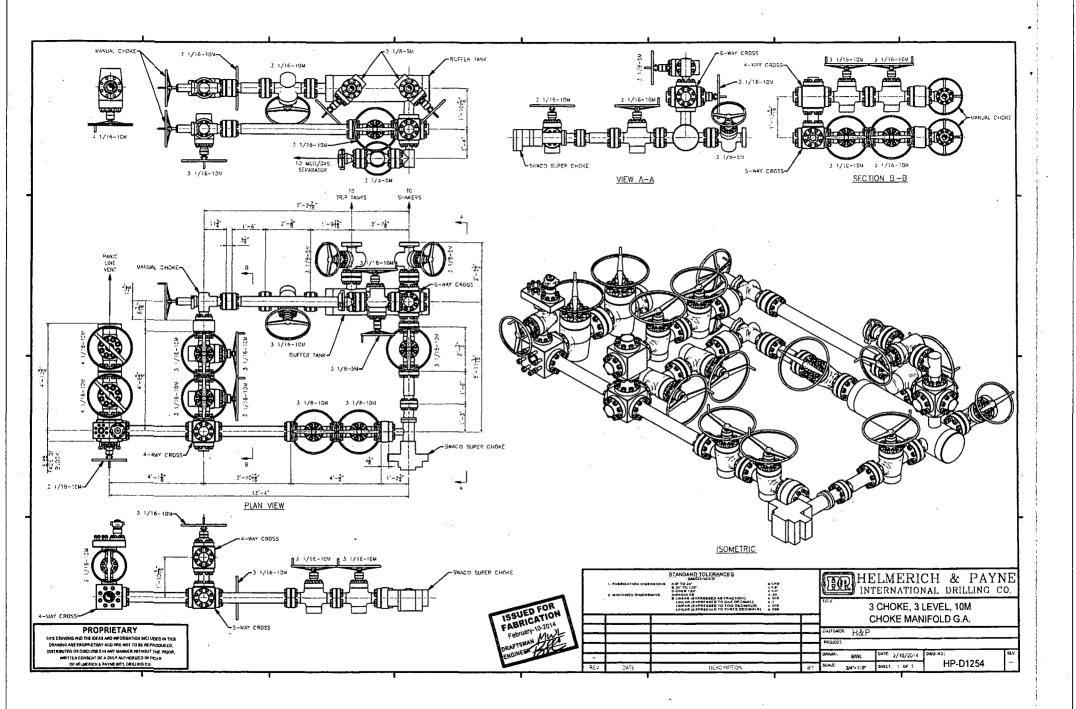
Describe:

Contingency Plans geoharzards description:

Contingency Plans geohazards attachment:

Hydrogen Sulfide drilling operations plan required? YES Hydrogen sulfide drilling operations plan:

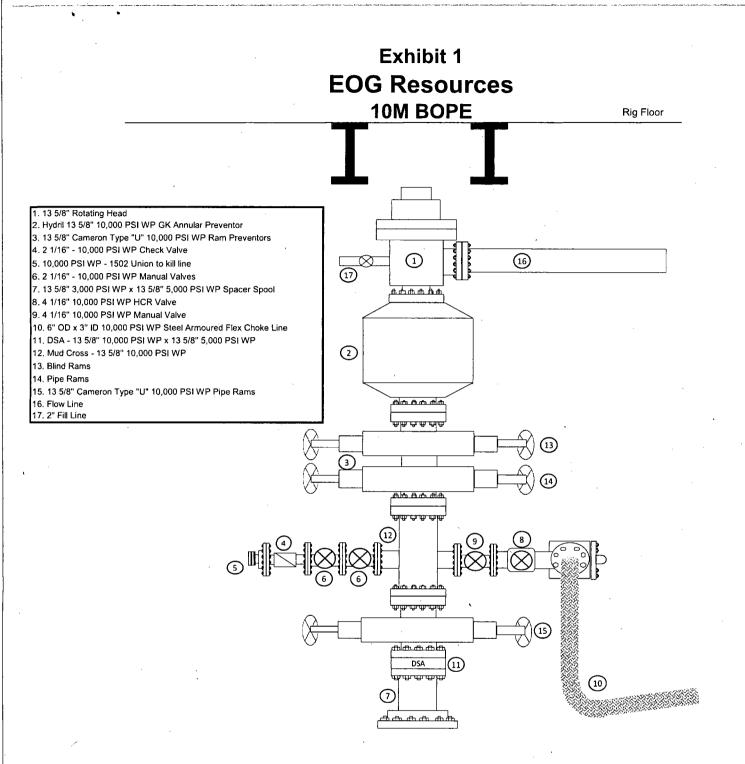
Pistolero_15_Fed_Com_703H_H2S_Plan_Summary_07-17-2017.pdf



I.D.	4"	INCHES	O.D.	8"
WORKING PRESS	URE	TEST PRESSUR	Ē	BURST PRE
10,000	PSI	15,000	PSI	
		COUP	LINGS	
Type of End Fi 4 1/16	itting 5 10K Fi	LANGE		
Type of Coupli SWE	ng: DGED		MANUFACT	
		pressure tested w		
TIME H	ELD AT	TEST PRESSURE	ACTUAL	BURST PRESS
Hose wrape	ed with		ermiculite coa	ted fiberglas
Date: 6/6/20	ľ	Tested By: BOBBY FINK		Approved: MENDI

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	Issued on: 24 Jan. 2017	•	J.		
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	OD Weight W	all Th.	Grade	API Drift	Connection
	7 5/8 in. 29.70 lb/ft 0.	375 in. 🛛 🕅	/M 110 HC	6.750 in.	VAM® SLIJ-II
	and a second			•=	······
	PIPE PROPERNIES		•	CONNECTION PR	OPERNES
	Nominal OD	7.625 in.	Connection Ty		Premium integral semi-flush
	Nominal ID	6.875 in.	Connection OE) (nom)	7.711 in.
	Nominal Cross Section Area	8.541 sqin.	Connection ID	(nom)	6.820 in.
	I consider the second sec	h Collapse		9 m. m	4.822 in.
	Min. Yield Strength	110 ksi 140 ksi	Critical Cross S		5.912 sqin.
- 靜	Max, Yield Strength	140 ksi 125 ksi		ncy	
	Min, Ultimate Tensile Strength		Compression E	Efficiency	48.5 % of pipe
			Internal Pressu	re Efficiency	100 % of pipe
			External Press		100 % of pipe 100 % of pipe
	GONNECTION PERFORMANC	889	[FIELD TORQUE	WALNES
	Tensile Yield Strength	651 klb	Min, Make-up t	·	11300 ft.lb
	Compression Resistance	455 klb	Opti. Make-up	سردارهم المرجر بعاهم فتعادر بارتم المناه	12600 ft.lb
	Internal Yield Pressure	9470 psi	Max. Make-up	a se an anna a sa a sa a sa a sa a sa a	13900 ft.lb
	Uniaxial Collapse Pressure	7890 psi	ļ		······································
	Max. Bending Capacity	TDB			
	Max Bending with Sealability	20 °/100 ft			
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1.2.2		•		VAM S Performance	
	VAM® SLIJ-II is a semi-flush integral premi		100% V		
	all casing applications. It combines a near high performances in tension, compr		5 100		Connection
	sealability.	<u>-</u>	8 50		
	VAM® SLIJ-II has been validated accor		soort and state		
	stringent tests protocols, and has an excel history in the world's most prolific HPHT we		5 -50	1	Crs
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, . , .	canada@vamfieldservice.com		dservice.com dservice.com	- · · · -	vamfieldservice.com
	usa@vamfieldservice.com mexico@vamfieldservice.com		eldservice.com		e@vamfieldservice.com @vamfieldservice.com
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	Vallourec Group			\bigvee	

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EOG RESOURCES, INC. PISTOLERO 15 FED COM NO. 703H

Hole Size	Interval	Csg OD	Weight	Grade	Conn	DF _{min} Collapse	DF _{min} Burst	DF _{min} Tension
14.75"	0 - 925'	10.75"	40.5#	J55	STC	1.125	1.25	1.60
9.875"	0 1,000'	. 7.625"	29.7#	HCP- 110	LTC	1.125	1.25	1.60
9.875"	1,000' - 3,000'	7.625"	29.7#	P-110EC	SLIJ II	1.125	1.25	1.60
8.75"	3,000' - 11,500'	7.625"	29.7#	HCP- 110	FlushMax III	1.125	1.25	1.60
6.75"	0' - 11,000'	5.5"	20#	P-110EC	DWC/C-IS MS	1.125	1.25	1.60
6.75"	11,000'-17,342'	5.5"	20#	P-110EC	VAM SFC	1.125	1.25	1.60

4. CASING PROGRAM - NEW

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.

Depth	No. Sacks	Wt. ppg	Yld Ft³/ft	Mix Water Gal/sk	Slurry Description
10-3/4" 925'	325	13.5	1.73	9.13	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	Class C + 0.6% FL-62 + 0.25 lb/sk Cello-Flake + 0.2% Sodium Metasilicate
7-5/8" 11,500'	250	14.8	1.38	6.48	Class C + 5% Gypsum + 3% CaCl2 pumped via Bradenhead (TOC @ Surface)
	2000	14.8	1.38	6.48	Class C + 5% Gypsum + 3% CaCl2 pumped via Bradenhead
·	550	14.4	1.20	4.81	50:50 Class H:Poz + 0.25% CPT20A + 0.40% CPT49 + 0.20% CPT35 + 0.80% CPT16A + 0.25% CPT503P pumped Conventionally
5-1/2" 17,342'	850	14.1	1.26	5.80	Class H + 0.1% C-20 + 0.05% CSA-1000 + 0.20% C-49 + 0.40% C-17 (TOC @ 11,000')

Cementing Program:

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.

EOG RESOURCES, INC. PISTOLERO 15 FED COM NO. 703H

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 7497 psig (based on 11.5 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:

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. 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.

EOG RESOURCES, INC. PISTOLERO 15 FED COM #703H

■ Mud program:

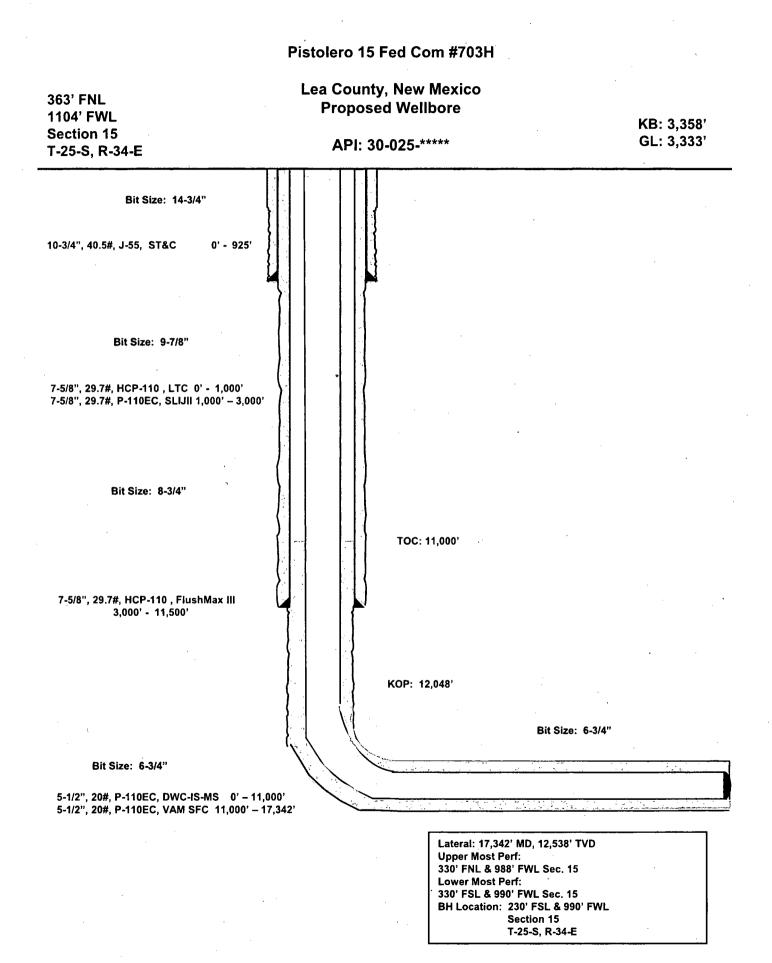
The mud program has been designed to minimize the volume of H2S circulated to surface. The operator will have the necessary mud products to minimize hazards while drilling in H2S bearing zones.

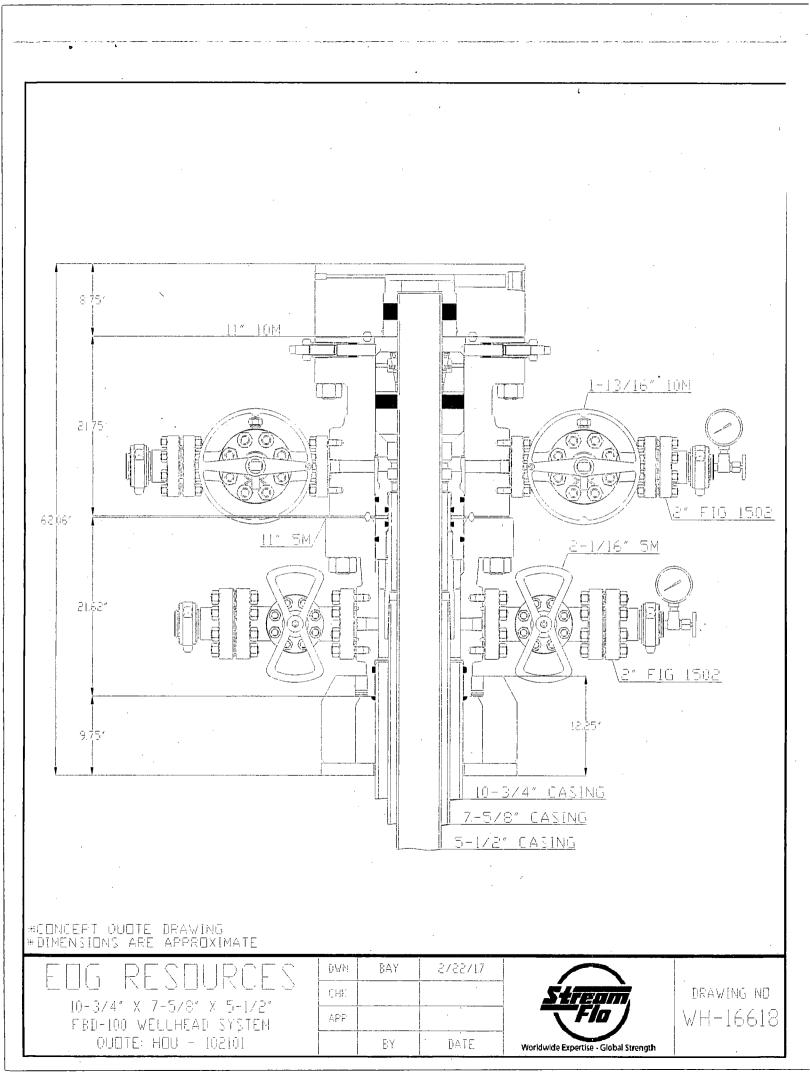
■ Metallurgy:

All drill strings, casings, tubing, wellhead, blowout preventer, drilling spool, kill lines, choke manifold and lines, and valves shall be suitable for H2S service.

Communication:

Communication will be via cell phones and land lines where available.







United States Department of the Interior

BUREAU OF LAND MANAGEMENT CARLSBAD FIELD OFFICE 620 E. GREENE ST. CARLSBAD, NM 88220 BLM NM CFO_APD@BLM.GOV



In Reply To: 3160 (Office Code) [NMNM113420]

09/26/2017

Attn: STAN WAGNER EOG RESOURCES INCORPORATED 1111 BAGBY SKY LOBBY2 HOUSTON, TX 77002

Re: Receipt and Acceptability of Application for Permit to Drill (APD)

FEDERAL - NMNM113420Well Name / Number:PLegal Description:TCounty, State:LDate APD Received:01

PISTOLERO 15 FED COM / 703H T25S, R34E, SEC 15, NWNW LEA, NM 07/17/2017

Dear Operator:

The .BLM received your Application for Permit to Drill (APD), for the referenced well, on 07/17/2017. The BLM reviewed the APD package pursuant to part III.D of Onshore Oil and Gas Order No.1 and it is:

1. Incomplete/Deficient (*The BLM cannot process the APD until you submit the identified items within 45 calendar days of the date of this notice or the BLM will return your APD.*)

Well Plat

Drilling Plan

Surface Use Plan of Operations (SUPO)

Certification of Private Surface Owner Access Agreement

Bonding

Onsite (The BLM has scheduled the onsite to be on

This requirement is exempt of the 45-day timeframe to submit

deficiencies. This requirement will be satisfied on the date of the onsite.

Other

[Please See Addendum for further clarification of deficiencies]

NOTE: The BLM will return your APD package to you, unless you correct all deficiencies identified above (item 1) within 45 calendar days.

• The BLM will not refund an APD processing fee or apply it to another APD for any returned APD.

Extension Requests:

- If you know you will not be able to meet the 45-day timeframe for reasons beyond your control, you must submit a written request through email/standard mail for extension prior to the 45th calendar day from this notice, 11/10/2017.
- The BLM will consider the extension request if you can demonstrate your diligence (providing reasons and examples of why the delay is occurring beyond your control) in attempting to correct the deficiencies and can provide a date by which you will correct the deficiencies. If the BLM determines that the request does not warrant an extension, the BLM will return the APD as incomplete after the 45 calendar days have elapsed.
 - The BLM will determine whether to grant an extension beyond the required 45 calendar days and will document this request in the well file. If you fail to submit deficiencies by the date defined in the extension request, the BLM will return the ΛPD.

APDs remaining Incomplete:

- If the APD is still not complete, the BLM will notify you and allow 10 additional business days to submit a written request to the BLM for an extension. The request must describe how you will address all outstanding deficiencies and the timeframe you request to complete the deficiencies.
 - The BLM will consider the extension request if you can prove your diligence (providing reasons and examples of why the delay is occurring) in attempting to correct the deficiencies and you can provide a date by which you will correct the deficiencies. If the BLM determines that the request does not warrant an additional extension, the BLM will return the APD as incomplete.

If you have any questions, please contact Tenille Ortiz at (575) 234-5983.

Sincerely,

Cody Layton Assistant Field Manager

cc: Official File

EOG RESOURCES, INC. PISTOLERO 15 FED COM NO. 703H

5. 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:

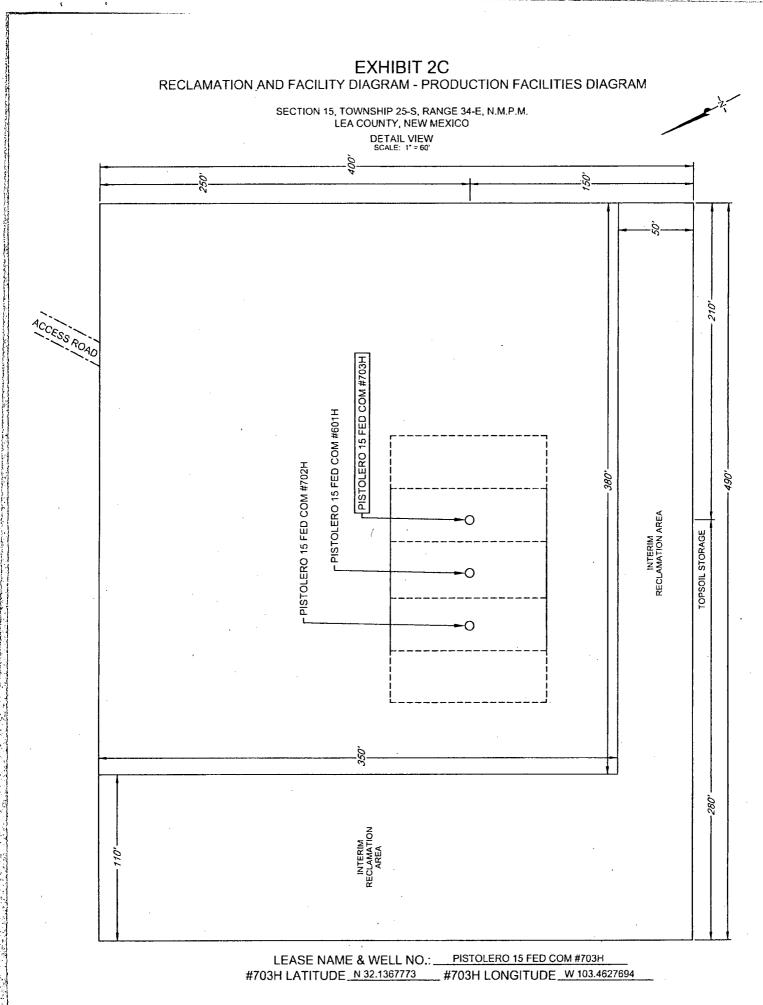
The estimated bottom-hole temperature (BHT) at TD is 181 degrees F with an estimated maximum bottom-hole pressure (BHP) at TD of 9127 psig (based on 14.0 ppg MW). No hydrogen sulfide or other hazardous gases or fluids have been encountered, reported or are known to exist at this depth in this area. Severe loss circulation is expected from 7,300' to Intermediate casing point.

10. ANTICIPATED STARTING DATE AND DURATION OF OPERATIONS:

1.

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. 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.



SJSURVEYEOG_MIDLAND/PISTOLERO_15_FED/FINAL_PRODUCTS'LO_PISTOLERO_15_FED_COM_703H_REV1.DWG 10/11/2017 2:29.14 PM carrients

2. Missing Necessary Information (*The BLM can start, but cannot complete the analysis until you submit the identified items. This is an early notice and the BLM will restate this in a 30-day deferral letter, if you have not submitted the information at that time. You will have two (2) years from the date of the deferral to submit this information or the BLM will deny your APD.*)

[Please See Addendum for further clarification of deficiencies]

ADDENDUM - Incomplete/Deficient

Clarifications

ADDENDUM - Deficient

Surface Comments

- New and Reconstructed Roads Deficiency: Access road needs to be on the NE side of pad not the NW. Please update plat to reflect the road coming in on the side closest to Battle Axe road. Previously submitted 10/12/17
- Plans for Surface Reclamation Deficiency: Move the road or change the 110' Interim reclamation to the east side.

Engineering Comments

- Casing design information is inadequate and/or incomplete Submit Production Casing grade in section 3.
- Submit correct casing program because casing program in APD do not match drilling plan casing program.

Submit correct hole sizes because hole sizes in APD do not match drilling plan casing program.

- Cementing design information is inadequate and/or incomplete

Submit the correct depth for the each casing depth of the cement in the APD. Production joint type do not match the drilling plan.

Corrected in Afmass

Well Name: PISTOLERO 15 FED COM

Well Number: 703H

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:

PISTOLERO_15_FC_703H_radius_06-29-2017.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: Central Tank Battery located in NW/4 of section 15.

Production Facilities map:

Well Name: PISTOLERO 15 FED COM

Well Number: 703H

State appropriation permit:

Additional information attachment:

Section 6 - Construction Materials

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 permit will be acquired prior to obtaining any mineral material from BLM pits or federal land.

Construction Materials source location attachment:

Pistolero_15_FC_water_source_and_caliche_map_06-29-2017.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 Disposal location ownership: COMMERCIAL FACILITY

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.)

Well Name: PISTOLERO 15 FED COM

Well Number: 703H

Section 10 - Plans for Surface Reclamation

Type of disturbance: New Surface Disturbance

Multiple Well Pad Name: PISTOLERO 15 FED COM 601H

Multiple Well Pad Number: 702H/601H/703H

Recontouring attachment:

PISTOLERO_15_FC_703H_reclamation_06-29-2017.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.

Wellpad long term disturbance (acres): 3.05326	Wellpad short term disturbance (acres): 4.499541
Access road long term disturbance (acres): 0.113499	Access road short term disturbance (acres): 0.113499
Pipeline long term disturbance (acres): 0.8140496	Pipeline short term disturbance (acres): 1.3567493
Other long term disturbance (acres): 0	Other short term disturbance (acres): 0
Total long term disturbance: 3.9808085	Total short term disturbance: 5.9697895

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 respreading. 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:**

Well Name: PISTOLERO 15 FED COM

Well Number: 703H

Operator Contact/Responsible Official Contact Info

First Name: Stan

Phone: (432)686-3689

Last Name: Wagner

Email: stan_wagner@eogresources.com

Seedbed prep:

Seed BMP:

Seed method:

Existing invasive species? NO

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: STATE GOVERNMENT

Other surface owner description:

BIA Local Office:

BOR Local Office:

COE Local Office:

DOD Local Office:

NPS Local Office:

State Local Office: STATE OF NEW MEXICO

Military Local Office:

USFWS Local Office:

Other Local Office:

USFS Region:

2. Missing Necessary Information (*The BLM can start, but cannot complete the analysis until you submit the identified items. This is an early notice and the BLM will restate this in a 30-day deferral letter, if you have not submitted the information at that time. You will have two (2) years from the date of the deferral to submit this information or the BLM will deny your APD.*)

[Please See Addendum for further clarification of deficiencies]

ADDENDUM - Incomplete/Deficient

Clarifications

ADDENDUM - Deficient

Surface Comments

- New and Reconstructed Roads Deficiency: Access road needs to be on the NE side of pad not the NW. Please update plat to reflect the road coming in on the side closest to Battle Axe road.

- Plans for Surface Reclamation Deficiency:

Move the road or change the 110' Interim reclamation to the east side. Reclamation will remain 110' on NW side.

per VW 10/6/17

Engineering Comments

Casing design information is inadequate and/or incomplete
 Submit Production Casing grade in section 3.
 Submit correct casing program because casing program in APD do not match drilling plan casing

program.

Submit correct hole sizes because hole sizes in APD do not match drilling plan casing program.

- Cementing design information is inadequate and/or incomplete Submit the correct depth for the each casing depth of the cement in the APD.
- Bottom hole pressures and hazards inadequate and/or incomplete Submit correct hole sizes because hole sizes in APD do not match drilling plan casing program. ABHP in section 7 is not sufficient for the Max MW in section 5.

Corrected in

Afriass.

New plats attached

AFMSS

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

Section 1 - General

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

PWD Data Report

PWD disturbance (acres):

Section 2 - Lined Pits

Would you like to utilize Lined Pit PWD options? NO

Produced Water Disposal (PWD) Location:

PWD surface owner:

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:

Injection well type:

Injection well number: Assigned 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):

Injection well name:

Injection well API number:

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: Other PWD discharge volume (bbl/day): Other PWD type description: Other PWD type attachment: Have other regulatory requirements been met? Other regulatory requirements attachment:

PWD disturbance (acres):



United States Department of the Interior Bureau of Land Management Carlsbad Field Office



Refer to: 3160-3	
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To: From:	AFM, Lands & Minerals, CFO Geologist, CFO	COPY
Subject:	Geologic Review of Application for Permit t	o Drill
Operator	EOG Resources Inc	
Well Nan	ne and Number: PISTOLERO 15 FED COM-703H	
Potash:	No	

Locati	on: SHL:363'/N.&	1104'/W. SI	EC015 T025S, I	R034E.(NWNW)		
Count	y Lea]	Lease Number:	. <u>NMNM113420</u>	APD Received:	7-17-2017
Groun	d Level Elevation:	3333		Surface Geology:	Qe-Eolian deposits	
TVD:	12538	MD:	17342		BH Mud Weight: 14	
BHP:	9128	MASP:	6369			

1. Geologic Marker Tops (from reports on surrounding wells):

					Proposed Well
					PISTOLERO 15 FED
	SMITH 1	FAIRVIEW 14 FEE #001	PRE-ONGARD WELL #002	PRE-ONGARD WELL #001	<u>COM-703H</u>
	3002520906	3002527083	3002528558	3002529127	T025S, R034E.(NWNWSEC015
	T25S R34E Sec 10	T25S R34E Sec 14	T25S R34E Sec 16	T25S R34E Sec 10	363'/N.& 1104'/W
	660 FSL 660 FWL	1980FNL 1980FEL	1980FNL 1980FEL	990FNL 1980FEL	Unit
	Elevation	Elevation	Elevation	Elevation	Elevation
Geologic Marker	Depth	Depth	Depth	Depth	Estimated Depth
Rustler	870	900	900	934	901
Top of Salt	-	-	1260	-	1032
Castile	-	-	•	-	3155
Castile	-	-	-	-	5080
Lamar	5308	5408	5338	5320	5334
Bell Canyon	5350	5440	5378	5355	5376
Cherry Canyon	-	6414	6345	6321	6332
Brushy Canyon	•	8053	7966	7972	7972
Bone Spring Lime	-	9330	9340	9252	9310
1st BS Sand	-	10386	10350	10314	10315
2nd BS Sand	-	10990	10960	10900	10843
3rd BS Sand	-	12063	11970	11910	11916
Wolfcamp	-	12463	12416	12203	12388
Strawn	-	14312	13970	13850	13915
Atoka	-	14544	14165	14070	14168
Morrow	-	15275	14932	14823	15050

2. Fresh Water Information

a. Fresh Water:

946

b. Fresh Water Remarks:

According to well data from the New Mexico Office of the State Engineer's Water Rights Reporting System, there are 27 water wells within a six-mile radius of the proposed project. Depth to water ranges from 30' to 430' with the deepest well drilled to 600'. BLM identified groundwater may also be encountered in the Magenta Dolomite Member of the Rustler Formation down to a depth of approximately 946'.

c. Water Basin:	Capitan Water Basin
3. Recommended Casing Setting Dep	oth
a. Surface Casing Depth:	976
b. Intermediate Casing Depth:	11500

c. 2nd Interm. Casing Depth

d. Casing Depth Remarks:

The operator proposes to set surface casing at 925':BLM proposes 976', adequately protect BLM identified groundwater. If salt is encountered set casing at least 25' above the salt. The operator proposes to set intermediate casing at 11,500' BLM accepts 3 Bone Springs Carbonate formation depth set point.

4. Geologic Hazards

a. Cave/Karst Occurance:	Low
b. Potential Cave/Karst Depth:	
c. Possible Water Flows:	Castile, Salado,
d. Possible Lost Circulation:	Rustler, Red Beds, Delaware,
e. Possible Abnormal Pressure:	NO
f. H2S within 1 mile:	NO
g. H2S Remarks:	
Wells do NOT have recordings	s of elevated H2S above action levels for safety.

5. Additional Remarks

D NWNW WC

Geologist: Mark Lewis

Sign Off Date: 9-25-2017



United States Department of the Interior Bureau of Land Management Carlsbad Field Office



Refer to: 3160-3

To: AFM, Lands & Minerals, CFOFrom: Geologist, CFOSubject: Geologic Review of Application for Permit to Drill

Operat	tor: EOG Resour	ces Inc				<u></u>
Well N	ame and Number:	PISTOLE	RO 15 FED CO	DM-703H		
Potash	: <u>No</u>					
Locatio	on: SHL:363'/N.&	1104'/W. SI	EC015 T025S, I	R034E.(NWNW)	· ·	
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1. Geologic Marker Tops (from reports on surrounding wells):

	SMITH 1 3002520906 T25S R34E Sec 10 660 FSL 660 FWL Elevation	FAIRVIEW 14 FEE #001 3002527083 T25S R34E Sec 14 1980FNL 1980FEL Elevation	PRE-ONGARD WELL #002 3002528558 T25S R34E Sec 16 1980FNL 1980FEL Elevation	PRE-ONGARD WELL #001 3002529127 T25S R34E Sec 10 990FNL 1980FEL Elevation	Proposed Well PISTOLERO 15 FED COM-703H T025S, R034E.(NWNWSEC015 363'/N.& 1104'/W Unit Elevation
Geologic Marker	Depth	Depth	Depth	Depth	Estimated Depth
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