and the second secon	N Marine	
Form 3160-3	lobbs	FORM APPROVED
(March 2012)	HOBBS OC	OMB No. 1004-0137 Expires October 31, 2014
UNITED STATES DEPARTMENT OF THE IN BUREAU OF LAND MANA	NTERIOR NOT 2018	5. Lease Serial No. NMNM088163
APPLICATION FOR PERMIT TO D		6. If Indian, Allotee or Tribe Name
la. Type of work: DRILL REENTER	B Charles	7 If Unit or CA Agreement, Name and No.
Ib. Type of Well: Oil Well Gas Well Other	Single Zone Multiple Zone	(8. Lease Name and Well No. AVION FEDERAL 301H
2. Name of Operator COG OPERATING LLC	37) / <	9. API Well No. 7 30-025-44736
	36. Phonc No. (include area code) (// (432)683-7443	10. Field and Pool, or Exploratory WILDCAT / BONE SPRING
4. Location of Well (Report location clearly and in accordance with any		11. Sec., T. R. M. or Blk. and Survey or Area
At surface NENE / 480 FNL / 330 FEL / LAT 32,2960922 /		SEC 22 / T23S / R32E / NMP
At proposed prod. zone SESE / 200 FSL / 330 FEL / LAT 32	2.2834445 / LONG -103;6550253	12. County or Parish 13. State
<ol> <li>Distance in miles and direction from nearest town or post office*</li> <li>22 miles</li> </ol>		LEA NM
location to nearest 200 foot	16. No. of acres in lease 480 160	ing Unit dedicated to this well
18. Distance from proposed location* to nearest well, drilling, completed, 942 feet applied for, on this lease, ft.		/BIA Bond No. on file NMB000215
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3699 feet	22 Approximate date work will start* 03/01/2017	23. Estimated duration 30 days
	24. Attachments	
<ol> <li>Fhe following, completed in accordance with the requirements of Onshore</li> <li>Well plat certified by a registered surveyor.</li> <li>A Drilling Plan.</li> <li>A Surface Use Plan (if the location is on National Forest System L SUPO must be filed with the appropriate Forest Service Office).</li> </ol>	4. Bond to cover the operati Item 20 above). ands, the 5. Operator certification	this form: ions unless covered by an existing bond on file (see formation and/or plans as may be required by the
25. Signature (Electronic Submission)	Name (Printed/Typed) Mayte Reyes / Ph: (575)748-694	5 Date 5 11/17/2017
Tille Regulatory Analyst		
Approved by (Signature) (Electronic Submission)	Name (Printed/Typed) Cody Layton / Ph: (575)234-5959	Date 04/23/2018
Fitle	Office CARLSBAD	
Supervisor Multiple Resources Application approval does not warrant or certify that the applicant holds conduct operations thereon. Conditions of approval, if any, are attached.		ibject lease which would entitle the applicant to
Title 18 U.S.C." Section 1001 and Title 43 U.S.C. Section 1212, make it a crimitates any false, fictitious or fraudulent statements or representations as to	ime for any person knowingly and willfully to o any matter within its jurisdiction.	make to any department or agency of the United
(Continued on page 2) GCP Rec 5/7/18	ED WITH CONDITIONS	*(Instructions on page 2) K = 06/09/18
188	al Date: 04/23/2018	

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	• • •	SSIM	Dayes
X	U(Y)	22177	1
		1	

# **Additional Operator Remarks**

### Location of Well

SHL: NENE / 480 FNL / 330 FEL / TWSP: 23S / RANGE: 32E / SECTION: 22 / LAT: 32.2960922 / LONG: -103.6550313 (TVD: 0 feet, MD: 0 feet)
 PPP: NENE / 330 FNL / 330 FEL / TWSP: 23S / RANGE: 32E / SECTION: 22 / LAT: 32.2965045 / LONG: -103.6550313 (TVD: 5930 feet)
 BHL: SESE / 200 FSL / 330 FEL / TWSP: 23S / RANGE: 32E / SECTION: 22 / LAT: 32.2834445 / LONG: -103.6550253 (TVD: 5930 feet)

# **BLM Point of Contact**

Name: Sipra Dahal Title: Legal Instruments Examiner Phone: 5752345983 Email: sdahal@blm.gov

(Form 3160-3, page 3)

# Ø AFMSS

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

# **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: Mayte Reyes

Signed on: 11/15/2017

**Certification Data Repor** 

Title: Regulatory Analyst

Street Address: 2208 W Main Street

City: Artesia

Phone: (575)748-6945

Email address: Mreyes1@concho.com

State: NM

State: NM

### **Field Representative**

Representative Name: Rand French

Street Address: 2208 West Main Street

City: Artesia

Phone: (575)748-6940

Email address: rfrench@concho.com

Zip: 88210

Zip: 88210

### Well Number: 301H

Describe other minerals:				
Is the proposed well in a Helium produ	uction area? N	Use Existing Well Pad?	NO	New surface disturbance?
Type of Well Pad: SINGLE WELL		Multiple Well Pad Name	:	Number:
Well Class: HORIZONTAL		Number of Legs:		
Well Work Type: Drill				
Well Type: OIL WELL				
Describe Well Type:				
Well sub-Type: EXPLORATORY (WILD	CAT)			
Describe sub-type:				
Distance to town: 22 Miles	Distance to ne	arest well: 942 FT	Distanc	ce to lease line: 200 FT
Reservoir well spacing assigned acres	s Measurement	: 160 Acres		
Well plat: COG_Avion_301H_C102_	_2017111516252	1.pdf		
Well work start Date: 03/01/2017		Duration: 30 DAYS		

# **Section 3 - Well Location Table**

Survey	Type:	RECTANGULAR
<b>Our</b> toy	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	

**Describe Survey Type:** 

Datum: NAD83

Survey number:

#### Aliquot/Lot/Tract Lease Number **EW Indicator** NS Indicator Longitude Elevation Lease Type EW-Foot Meridian NS-Foot Latitude County Range Section State Twsp 2 Z D QW Ī SHL FEL 235 32E 22 Aliquot 32.29609 NEW NEW 480 FNL 330 LEA NMNM 369 0 0 103.6550 MEXI MEXI 088163 22 9 Leg NENE CO 313 CO #1 KOP 480 FNL FEL 23S 32E 22 Aliquot 32.29609 LEA NEW NEW F NMNM 369 0 330 0 + 22 103.6550 MEXI MEXI 088163 9 Leg NENE CO CO 313 #1 FNL PPP 330 330 FEL 23S 32E 22 Aliquot 32.29650 LEA NEW NEW F NMNM 593 593 -MEXI MEXI 088163 223 45 103.6550 0 0 NENE Leg CO 313 СО 1 #1

Vertical Datum: NAVD88

### **Operator Name: COG OPERATING LLC**

Well Name: AVION FEDERAL

Well Number: 301H

tested. 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.

### Choke Diagram Attachment:

COG\_Avion\_301H\_2M\_Choke\_20171116160506.pdf

### **BOP Diagram Attachment:**

COG\_Avion\_301H\_2M\_BOP\_20171116160519.pdf

COG\_Avion\_301H\_Flex\_Hose\_20171116160730.pdf

### Pressure Rating (PSI): 3M

Rating Depth: 8690

Equipment: Annular, Blind Ram, Pipe Ram. Other accessories to the BOP equipment will include a Kelly cock and floor safety valve (inside BOP) and choke lines and choke manifold Reguesting Variance? YES

Variance request: A variance is requested for the use of a flexible choke line from the BOP to the choke manifold. See attached for specs and hydrostatic test chart.

**Testing Procedure:** BOP/BOPE will be tested by an independent service company to 250 psi low and the high pressure indicated above per Onshore Order 2 requirements. The System may be upgraded to a higher pressure but still tested to the working pressure listed in the table above. If the system is upgraded all the components installed will be functional and tested. 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.

### **Choke Diagram Attachment:**

COG\_Avion\_301H\_3M\_Choke\_20171116160809.pdf

### **BOP Diagram Attachment:**

COG\_Avion\_301H\_3M\_BOP\_20171116160817.pdf

COG\_Avion\_301H\_Flex\_Hose\_20171116160827.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	1240	0	1240	-9411	- 10581	1240	J-55	54.5	STC	1.99	1.26	DRY	7.61	DRY	7.61
	INTERMED IATE	12.2 5	9.625	NEW	ΑΡΙ	Y	0	4900	0	4900	-9411	- 21491	4900	L-80	40	LTC	1.2	1.72	DRY	5.73	DRY	5.73
-	PRODUCTI ON	8.75	5.5	NEW	API	N	0	14543	0	14543		- 29318	14543	P- 110	17	LTC	1.78	3.19	DRY	3.01	DRY	3.01

# **Operator Name: COG OPERATING LLC**

Well Name: AVION FEDERAL

### Well Number: 301H

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
SURFACE	Lead		0	1240	550	1.75	13.5	962	50	Class C	4% Gel + 1% CaCl2
SURFACE	Tail		0	1240	250	1.34	14.8	335	50	Class C	2% CaCl2
INTERMEDIATE	Lead		0	4900	920	2	12.7	1840	50	Lead: 35:65:6 C Blend	As needed
INTERMEDIATE	Tail		0	4900	250	1.34	14.8	335	50	Tail: Class C + 2% CaCl	As needed
PRODUCTION	Lead		0	1454 3	530	2.5	11.9	1325	25	50:50:10 H Blend	As needed
PRODUCTION	Tail		0	1454 3	1620	1.24	14.4	2008	25	50:50:2 Class H Blend	As needed

# **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:** Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements will be kept on location at all times.

Describe the mud monitoring system utilized: PVT/Pason/Visual Monitoring

# **Circulating Medium Table**

Top Depth	Bottom Depth	Mud Type	Min Weight (Ibs/gal)	Max Weight (Ibs/gal)	Density (Ibs/cu ft)	Gel Strength (lbs/100 sqft)	На	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
4900	1454 3	OTHER : Cut Brine	8.6	9.3							Cut Brine
0	1240	OTHER : FW Gel	8.6	8.8							FW Gel
1240	4900	OTHER : Saturated Brine	10	10.1							Saturated Brine

Page 4 of 6



lata	& Speci	st Hose ialty, Inc.		
	rnal Hydrosta Hatof	The state of the state of the second	a state in	
Customer	Odessa	Hose Assembly T	Alight Enders and the second second	Choke & Kill
MWH Sales Representative	Charles Ash	Certification		API 7K/FSL LEVEL2
Date Assembled	11/11/2016	Hose Grade		Mud
Location Assembled	ОКС	Hose Working Pr	essure	100000
Sales Order #	308747	Hose Lot # and D		12354-09/15
Customer Purchase Order #	345144	Hose I.D. (Inches)		3.5"
Assembly Serial # (Pick Ticket #)	371501	Hose O.D. (Inches)		5.87"
Hose Assembly Length	35 Feet	Armor (yes/no)		No
End A		ne i	End B	
Stem (Part and Revision #)	R3 5X64WB	Stem (Port and Revis		R3.5X64WB
Stem (Heat, #)	A112669	Stem (Heat #)		A112669
Ferrule (Part and Revision #)	RF3.5X5750	Ferrule (Part and Re	vision #1	RF3.5X5750
Ferrule (Heat #)	41632	Ferrule (Heat #)		41632
Connection Flange Hommer Union Par		Connection (Part #		4-1/16 10K
Connection (Heat #)	NEX THE LEVEL & STORE STORE	Connection (Heat #		
NUT (Part #)	1 a. 2002 - 2005 - 2012 - 2012 - 2013 - 2013 - 2013 - 2013 - 2013 - 2013 - 2013 - 2013 - 2013 - 2013 - 2013 - 2	Nut (Port #)	512 - 22 - 22 - 22 - 22 - 22 - 22 - 22 -	944
Nut (Heat#)		NUT (Heat #)		<u> </u>
Dies Used	5.80"	Dies Used		5.80"
	e folle suis is	<b>Repaireme</b>		
Test Pressure (psi)	15,000			with ambient water
Test Pressure Hold Time (minutes)	24 1/2	1	temperatu	
		denme		
Date Tested	Tested	Ву	A	pproved By
11/11/2016	Rich	eta) Deis	Cland	to Ach

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MHSI-008 Rev. 0.0 Proprietary





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Tested By: Richard Davis

Approved By: **Charles** Ash

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		est Hose		
	&r Spec	ialty, Inc.		
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11/1-01-01-01-01-01-01-01-01-01-01-01-01-01	nal Hydrosta	S. August Theory and The P. Roll	TOTAL THE DEAD STOTE STORE	
Contraction of the second second				(1) تا ذكار الألي الذي المسجد بمكتب الله التلاح الله عند الماد الماد اليها (1).
Customer	Odessa	Hose Assembly T	ype	Choke & Kill
MWH Sales Representative	Charles Ash	Certification		API 7K/FSL LEVEL2
Date Assembled	11/11/2016	Hose Grade		Mud
Location Assembled	OKC	Hose Working Pr		100000
Sales Order #	308747	Hose Lot # and D	ate Code	12354-09/15
Customer Purchase Order #	345144	Hose I.D. (Inches)		<u> </u>
Assembly Serial # (Pick Ticket #)	371501	Hose O.D. (Inches)		
Hose Assembly Length	35 Feet	Armor (yes/no)		INO NO
End A	anne an an an ann an an Anna an	an matuliness an an an att	End B	
Stern (Part and Revision #)	R3.5X64WB	Stem (Part and Revis	on #); 🖕 💷	R3.5X64WB
Stem (Heat #)	A112669	Stem (Heat #)		A112669
Ferrule (Part and Revision #)	RF3.5X5750	Ferrule (Part and Rev	vision #)	RF3.5X5750
Ferrule (Heo: #)	41632	Ferrule (Heat #)	1999 1999 1999 1997 1997 1997 1997 1997	41632
Connection Flange Hammer Union Part	4-1/16 10K	Connection (Part #		4-1/16 10K
Connection (Heat #)		Connection (Heat #		
NUt (Part #)	~ 	Nut (Port #)		
Nut (Heat#)		NUT (Heat #)		
Dies Used	5.80"	Dies Used		5.80"
	NEMILES EN JAST			
Test Pressure (psi)	15,000	Hose assembly		vith ambient water
Test Pressure Hold Time (minutes)	24 1/2	1	temperatu	re
	a se se a caracterizado de 1977 de se caracterizado de caracterizado de como de caracterizado de caracterizado			
Date Tested	Testec	l By	A	oproved By
11/11/2016	R.	$\langle \cap \cdot$	Cland	bath

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MHSI-008 Rev. 0.0 Proprietary



November 11, 2016

Approved By: Charles Ash

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### **Casing Program**

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	Ca	asing	Csg. Si		Weight	Grado	Conn	SF Collapse	SF Burst	SF
Hole Size	From	То	Cag. O	20	(lbs)	Giaue	Comi.	Collapse		Tension
17.5"	0	1240	13.375	5"	54.5	J55	STC	1.99	1.26	7.61
12.25"	0	4000	9.625	,"	40	J55	LTC	1.22	1.18	3.25
12.25"	4000	4900	9.625	,"	40	L80	LTC	1.20	1.72	5.73
8.75"	0	14,543	5.5"		17	P110	LTC	1.78	3.19	3.01
				BLM	Minimun	n Safety	/ Factor	1.125	1	1.6 Dry 1.8 Wet

Intermediate casing will be kept at least 1/3 full while running casing to mitigate collapse. Intermediate burst based on 0.7 frac gradient at the shoe with Gas Gradient 0.1 psi/ft to surface. All casing strings will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.h

### **Casing Program**

Hole Size		asing	Csg. Size	Weight	Grade	Conn	SF	SF Burst	SF
	From	То	oog. oire	(lbs)	<b>U</b> uuo		Collapse		Tension
17.5"	0	1240	13.375"	54.5	_ J55	STC	1.99	1.26	7.61
12.25"	0	4000	9.625"	40	J55	LTC	1.22	1.18	3.25
12.25"	4000	4900	9.625"	40	L80	LTC	1.20	1.72	5.73
8.75"	0	14,543	5.5"	17	P110	LTC	1.78	3.19	3.01
, ,			BLN	1 Minimur	n Safety	/ Factor	1.125	1	1.6 Dry 1.8 Wet

Intermediate casing will be kept at least 1/3 full while running casing.to mitigate collapse. Intermediate burst based on 0.7 frac gradient at the shoe with Gas Gradient 0.1 psi/ft to surface. All casing strings will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.h

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# COG Operating, LLC - Avion Federal #301H

# 1. Geologic Formations

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TVD of target	8,690' EOL	Pilot hole depth	NA
MD at TD:	14,543'	Deepest expected fresh water:	584'

Formation	Depth (TVD) from KB	Water/Mineral Bearing/ Target Zone?	Hazards*
Quaternary Fill	Surface	Water	
Rustler	1213	Water	
Top of Salt	1629	Salt	
Base of Salt	4625	Salt	
Lamar	4872	Salt Water	
Bell Canyon	4916	Salt Water	
Cherry Canyon	5777	Oil/Gas	
Brushy Canyon	7080	Oil/Gas	
Bone Spring Lime	8748	Oil/Gas	
U. Avalon Shale	9178	Oil/Gas	
L. Avalon Shale	9348	Oil/Gas	
1st Bone Spring Sand	9912	Not Penetrated	
2nd Bone Spring Sand	Х	Not Penetrated	
3rd Bone Spring Sand	Х	Not Penetrated	
Wolfcamp	Х	Not Penetrated	

## 2. Casing Program

	Casing From To		Csg. Size	Weight	Conn	SF	SF Burst	SF	
Hole Size				(lbs)	Grade Coni	Conn.	Collapse	SF BUISL	Tension
17.5"	0	1240	13.375"	54.5	J55	STC	1.99	1.26	7.61
12.25"	0	4000	9.625"	40	J55	LTC	1.22	1.18	3.25
12.25"	4000	4900	9.625"	40	L80	LTC	1.20	1.72	5.73
8.75"	0	14,543	5.5"	17	P110	LTC	1.78	3.19	3.01
			BLN	Minimur	n Safety	/ Factor	1.125	1	1.6 Dry 1.8 Wet

Intermediate casing will be kept at least 1/3 full while running casing to mitigate collapse. Intermediate burst based on 0.7 frac gradient at the shoe with Gas Gradient 0.1 psi/ft to surface.

All casing strings will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.h

# COG Operating, LLC - Avion Federal #301H

# 3. Cementing Program

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Casing	# Sks	Wt. Ib/ gal	YId ft3/ sack	H <sub>2</sub> 0 gal/sk	500# Comp. Strength (hours)	Slurry Description
Surf.	550	13.5	1.75	9	12	Lead: Class C + 4% Gel + 1% CaCl2
Sun.	250	14.8	1.34	6.34	8	Tail: Class C + 2% CaCl2
Intor	920	12.7	2.0	9.6	16	Lead: 35:65:6 C Blend
Inter.	250	14.8	1.34	6.34	8	Tail: Class C + 2% CaCl
5.5 Prod	530	11.9	2.5	19	72	Lead: 50:50:10 H Blend
	1620	14.4	1.24	5.7	19	Tail: 50:50:2 Class H Blend

Volumes Subject to Observed Hole Conditions and/or Fluid Caliper Results Lab reports with the 500 psi compressive strength time for the cement will be onsite for review.

Casing String	тос	% Excess
Surface	0'	50%
1 <sup>st</sup> Intermediate	0'	50%
Production	3,500'	25% OH in Lateral (KOP to EOL) – 40% OH in Vertical

November 16, 2017

# COG Operating, LLC - Avion Federal #301H

# 5. Mud Program

N

	Depth	Туре	Weight	Viceosity	Water Loss
From	То	i yhe	(ppg)	VISCOSILY	Waler LOSS
0	Surf. Shoe	FW Gel	8.6 - 8.8	28-34	N/C
Surf csg	9-5/8" Int shoe	Saturated Brine	10 - 10.1	28-34	N/C
9-5/8" Int shoe	Lateral TD	Cut Brine	8.6 - 9.3	28-34	N/C

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

What will be used to	monitor the loss or gain of fluid?	D)/T/Dasan/ (isual Manitaring
Intervention of the second	monitor the loss of gain of huld?	PVT/Pason/Visual Monitoring

# 6. Logging and Testing Procedures

Logging, Coring and Testing.	
Y	Will run GR/CNL from TD to surface (horizontal well – vertical portion of hole). Stated logs run will be in the Completion Report and submitted to the BLM.
Y	No Logs are planned based on well control or offset log information.
N	Drill stem test? If yes, explain.
N	Coring? If yes, explain.

Add	ditional logs planned	Interval	
N	Resistivity	Pilot Hole TD to ICP	
Ν	Density	Pilot Hole TD to ICP	
Y	CBL	Production casing (If cement not circulated to surface)	
Υ	Mud log	Intermediate shoe to TD	
Ν	PEX		

# VAFMSS

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

# SUPO Data Repo

14/24/2018

APD ID: 10400024688

**Operator Name: COG OPERATING LLC** 

Well Name: AVION FEDERAL

Well Type: OIL WELL

### Submission Date: 11/17/2017

Well Number: 301H Well Work Type: Drill Highlighted data reflects the most recent changes

Show Final Text

# Section 1 - Existing Roads

Will existing roads be used? YES

Existing Road Map:

COG\_Avion\_301H\_Exist\_Rd\_20171115163152.pdf

Existing Road Purpose: ACCESS

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:

COG\_Avion\_301H\_Roads\_20171115163216.pdf

New road type: TWO-TRACK

Length: 496

Width (ft.): 30

Max slope (%): 33

Max grade (%): 1

Army Corp of Engineers (ACOE) permit required? NO

Feet

ACOE Permit Number(s):

New road travel width: 14

**New road access erosion control:** Water will be diverted where necessary to avoid ponding, prevent erosion, maintain good drainage, and to be consistent with local drainage patterns. **New road access plan or profile prepared?** NO

New road access plan attachment:

Access road engineering design? NO

Access road engineering design attachment:

Operator Name: COG OPERATING LLC	
Well Name: AVION FEDERAL Wel	I Number: 301H
Water source use type: INTERMEDIATE/PRODUCTION CASI	NG Water source type: OTHER
<b>Describe type:</b> Brine water will be obtained from the Malaga II E station located in Section 12. T23S. R28E. <b>Source latitude:</b>	Brine Source longitude:
Source datum:	
Water source permit type: PRIVATE CONTRACT	
Source land ownership: COMMERCIAL	
Water source transport method: TRUCKING	
Source transportation land ownership: COMMERCIAL	
Water source volume (barrels): 15000	Source volume (acre-feet): 1.9333965
Source volume (gal): 630000	
Water source use type: STIMULATION, SURFACE CASING	Water source type: OTHER
<b>Describe type:</b> Fresh water will be obtained from C-02520 GWV water well located in Section 15, T23S, R325E. <b>Source latitude:</b>	WS Source longitude:
Source datum:	× •
Water source permit type: PRIVATE CONTRACT	
Source land ownership: PRIVATE	
Water source transport method: PIPELINE	
Source transportation land ownership: PRIVATE	
Water source volume (barrels): 225000	Source volume (acre-feet): 29.000946
Source volume (gal): 9450000	
Vater source and transportation map:	
OG_Avion_301H_Fresh_H2O_20171115163400.pdf	
:OG_Avion_301H_Brine_H2O_20171115163411.pdf	

New water well? NO

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# 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 Name: AVION FEDERAL

Well Number: 301H

Disposal location description: Trucked to an approved disposal facility

Waste type: GARBAGE

Waste content description: Garbage and trash produced during drilling and completion operations

Amount of waste: 125 pounds

Waste disposal frequency : Weekly

Safe containment description: Garbage and trash produced during drilling and completion operations will be collected in a trash container and disposed of properly at a state approved disposal facility Safe containmant attachment:

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

Disposal location description: Trucked to an 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**

Cuttings Area being used? NO

Are you storing cuttings on location? YES

Description of cuttings location Roll off cuttings containers on tracks

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

### Well Number: 301H

Existing Vegetation Community at the road attachment: Existing Vegetation Community at the pipeline: Shinnery Oak/Mesquite grassland Existing Vegetation Community at the pipeline attachment:

Existing Vegetation Community at other disturbances: N/A Existing Vegetation Community at other disturbances attachment:

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 name:

Source name:

Source phone:

Seed cultivar:

Seed use location:

PLS pounds per acre:

Proposed seeding season:

Seed Summary

Total pounds/Acre:

Seed source:

Source address:

Seed Type

Pounds/Acre

Seed reclamation attachment:

**Operator Contact/Responsible Official Contact Info** 

First Name: Rand

Last Name: French

Well Number: 301H

# **Section 12 - Other Information**

Right of Way needed? NO ROW Type(s): Use APD as ROW?

**ROW Applications** 

SUPO Additional Information:

Use a previously conducted onsite? YES

Previous Onsite information: Onsite completed on 10/26/2017 by Gerald Herrera (COG) and Jeff Robertson (BLM).

## Other SUPO Attachment

COG\_Avion\_301H\_Certif\_20171115163308.pdf





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

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: 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:

PWD disturbance (acres):

PWD Data l

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:

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: Injection well name:

#### Injection well API number:

PWD disturbance (acres):

### PWD disturbance (acres):