Form 3160-4 (August 2007)			DEPAR BUREA	TMEN	ΓOF	TATES THE INT MANAG		R RE		D-O(): 7/1/			SIA		OM	B No. 1	PROVED 004-0137 7 31, 2010	
WELL COMPLETION OR RECOMPLETION REPORT AND LOG											5. Lease Serial No. NMNM54398							
1a. Type of	Well	Oil Well	🛛 Gas	Well	🗖 Dr	/ D C	Other							6. If	Indian, All	ottee of	Tribe Name	
b. Type of	Completion	Othe	ew Well r	U Wor	k Over		eepen	D P	Plug B	Back	DD	iff. Re	esvr.	7. U	nit or CA A	Agreem	ent Name and	No.
2. Name of	2. Name of Operator Contact: AMANDA AVERY 8. Lease Name and Well No.																	
COG OPERATING LLC E-Mail: aavery@concho.com HOWITZER FEDERAL COM 603 3. Address 600 W ILLINOIS AVENUE 3a. Phone No. (include area code) 9. API Well No.											603H							
MIDLAND, TX 79701 Ph: 575-748-6940 30-015-45832-00											-S1							
4. Location of Well (Report location clearly and in accordance with Federal requirements)* Sec 12 T24S R28E Mer NMP													10. Field and Pool, or Exploratory PURPLE SAGE-WOLFCAMP (GAS)					
	At surface NENE 1044FNL 620FEL 32.236791 N Lat, 104.034304 Sec 12 T24S R28E Mer NMP								ot 10	1 0 2 4	204 \	(1.00		11. Sec., T., R., M., or Block and Survey or Area Sec 12 T24S R28E Mer NMP				
	Sec	: 11 T24S	SR28E Mer	NMP					Lat, 104.034304 W Lon					12. County or Parish 13. State				
At total depth NWNW 1205FNL 201FWL 32.236496 N Lat, 104.0 14. Date Spudded 15. Date T.D. Reached 04/22/2019 07/18/2019								14.066274 W Lon 16. Date Completed □ D & A ⊠ Ready to Prod. 11/25/2019					EDDY NM 17. Elevations (DF, KB, RT, GL)* 2974 GL					
18. Total De	epth:	MD TVD	1988 ⁻ 9299		19. Pl	ug Back T	.D.:	MD)	19	650		20. Dep	th Bri	dge Plug So		MD 1979 TVD 9299	
21. Type Ele	nit cop	y of each)		1 V L					ell cored			☐ Yes (Submit analysis		lysis)				
2974 GL	-											Was D Direct	ST run? ional Sur	vey?	⊠ No □ No		(Submit ana (Submit ana	
23. Casing an	d Liner Reco	ord (Repo	ort all strings			_		~	-				~					
Hole Size	Size/G	rade	Wt. (#/ft.)	Top (MD		Bottom (MD)	1 Ŭ	Cemen Depth	nter	No. o Type o	of Sks. of Cem		Slurry (BB)		Cement	Top*	Amount F	ulled
26.000		.000 J55	94.0		0	315	-					650				0		
17.500 12.250		.375 J55 625 L80	61.0 47.0		0	<u>2777</u> 9110	-		+	1500 1550				0				
8.500		020 <u>L00</u> 00 P110	20.0		0	19866	-			4400					0			
24. Tubing l	Record																	
Size I	Depth Set (M		acker Depth	(MD)	Size	Dept	h Set (1	MD)	Pac	ker De	pth (M	D)	Size	De	pth Set (M	D)	Packer Depth	ı (MD)
2.875 25. Producin		9167		9157		26	. Perfor	ation R	lecord	1								
For	Тор	Top Bottom			Perforated Interval Size						Size	No. Holes Perf. Status						
A) WOLFCAMP		1	10105 19767		9767	7 10				0105 TO 19767			1568 OPE		OPE	EN		
<u>B)</u> C)												+						
D)																		
27. Acid, Fra	acture, Treat Depth Interva		nent Squeeze	e, Etc.					Amo	ount and	d Type	of M	aterial					
			767 SEE AT	TACHED	INFO	RMATION			7 1110	Juint un	a rype	01 101	ateriai					
28. Productio				01		1	av .					-		0.1.2	Mala			
Produced	Test Date 01/17/2020	Hours Tested 24	Test Production	Oil BBL 456.0	Ga MC		Water BBL 2270	Corr. AF				Jas Gravity		Production Method		GAS L	GAS LIFT	
	Tbg. Press. Flwg. 2400	Csg. Press.	24 Hr. Rate	Oil BBL	Ga MC		Vater Gas:Oil BBL Ratio					itus						
	SI	1500.0		456		1096	2270	0				P	GW					
	Test	Hours	Test	Oil	Ga		Water		il Gravi			Gas	I	Producti	on Method			
Produced	Date	Tested	Production	BBL	М	CF :	BBL	Corr. API		PI Gravity		Gravity						
Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Ga MC		Water BBL		Gas:Oil Ratio		,	Well Status						
(See Instruction			litional data				ELL I	NFOR	MAT	TION S	YSTE	м						

BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED

28b. Produ	ction - Interva	al C												
Date First Produced			Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Grav		Production Method				
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Wel	l Status					
28c. Produ	ction - Interva	ıl D			· · · · · ·	•	•							
Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Grav		Production Method				
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Wel	Well Status					
29. Dispos SOLD	ition of Gas(S	old, usea	l for fuel, vente	ed, etc.)	-									
30. Summa Show a tests, ir	ll important z	ones of p	nclude Aquifer porosity and co tested, cushio	ontents there	eof: Cored i e tool open,	intervals and a flowing and s	ll drill-stem hut-in pressures	5	31. For	mation (Log) Markers				
]	Formation		Тор	Bottom	ttom Descriptions, Contents, etc.					Name Meas				
RUSTLER TOP SALT BASE OF SALT LAMAR BELL CANYON CHERRY CANYON BRUSHY CANYON BONE SPRING LIME			480 987 2523 2716 2750 3632 4874 6455	dure):					RU TO BA LAN BEI CH BR BO	480 987 2523 2716 2750 3632 4874 6455				
SECO	DN BONE SPR ND BONE S BONE SPF	PRING	8225											
33. Circle	enclosed attac	hments:												
		-	gs (1 full set re g and cement			 Geologic F Core Analy 	-	3. DST Report7 Other:			ectional Survey			
	y certify that please print)		Electr	onic Submi For	ission #503 COG OP	673 Verified ERATING LI	by the BLM W LC,sent to the ETA BURKE	ell Infor Carlsba on 06/09	mation Sys d	/B0283SE)	ructions):			
Signature (Electronic Submission) Date 02/18/2020														
Title 18 U.	S.C. Section	1001 and	Title 43 U.S.O	C. Section 1	212, make	it a crime for a	ny person know	vingly and	d willfullv	to make to any departmen	t or agency			
of the Unit	ed States any	false, fic	titious or fradu	ulent statem	ents or repr	resentations as	to any matter w	rithin its j	urisdiction					

Revisions to Operator-Submitted EC Data for Well Completion #503673

	Operator Submitted	BLM Revised (AFMSS)
	•	
Lease:	NMNM54398	NMNM54398
Agreement:		
Operator:	COG OPERATING LLC 2208 W MAIN STREET ARTESIA, NM 88210 Ph: 575-748-6840	COG OPERATING LLC 600 W ILLINOIS AVENUE MIDLAND, TX 79701 Ph: 432.685.4385
Admin Contact:	AMANDA AVERY REGULATORY ANALYST E-Mail: aavery@concho.com	AMANDA AVERY REGULATORY ANALYST E-Mail: aavery@concho.com
	Ph: 575-748-6940	Ph: 575-748-6940
Tech Contact:	AMANDA AVERY REGULATORY ANALYST E-Mail: aavery@concho.com	AMANDA AVERY REGULATORY ANALYST E-Mail: aavery@concho.com
	Ph: 575-748-6940	Ph: 575-748-6940
Well Name: Number:	HOWITZER FEDERAL COM 603H	HOWITZER FEDERAL COM 603H
Location: State: County: S/T/R: Surf Loc:	NM EDDY Sec 12 T24S R28E Mer NMP NENE Lot A 1044FNL 620FEL 32.236791 N Lat, 104.0	NM EDDY Sec 12 T24S R28E Mer NMP)3 4555ME VI D64 FNL 620FEL 32.236791 N Lat, 104.034304 W Lon
Field/Pool:	PURPLE SAGE; WOLFCAMP	PURPLE SAGE-WOLFCAMP (GAS)
Logs Run:		2974 GL
Producing Intervals	- Formations: WOLFCAMP	WOLFCAMP
Porous Zones:	RUSTLER LAMAR TOP OF SALT BOTTOM OF SALT BELL CANYON CHERRY CANYON BRUSHY CANYON BONE SPRING LIMESTONE	RUSTLER TOP SALT BASE OF SALT LAMAR BELL CANYON CHERRY CANYON BRUSHY CANYON BONE SPRING LIME
Markers:	RUSTLER LAMAR TOP OF SALT BOTTOM OF SALT BELL CANYON CHERRY CANYON BRUSHY CANYON BONE SPRING LIMESTONE	RUSTLER TOP SALT BASE OF SALT LAMAR BELL CANYON CHERRY CANYON BRUSHY CANYON BONE SPRING LIME