<u>District 1</u> 1625 N. French Dr., Hobbs, NM 88240 Phone: (575) 393-6161. Fax: (575) 393-0720

Pistict II 811 S. First St., Artesia, NM 88210 Phone: (575) 748-1283 Fax: (575) 748-9720 Pistict III

<u>Platfirst 111</u> 1000 Rio Brazus Road, Aztec, NM 87410 Phone: (505) 334-6178 Fax: (505) 334-6170 <u>Platfirst 1V</u> 1220 S. St. Francis Dr., Santa Fe, NM 87505 Phone: (505) 476-3460 Fax: (505) 476-3462 State of New Mexico

**Energy Minerals and Natural Resources** 

**Oil Conservation Division** 

1220 South St. Francis Dr.

Santa Fe, NM 87505

## APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE

			" Operator Name	and Address	·			1	- OGRID N	umber	
			COG Operat	ing LLC					2291	37	
+ 0			2208 West Main Street Artesia, NM 88210					7.	API Number 4 2-3449		
* Property Code				э.	Property Na	пе	·····	20-	025	" Well No	117
39	678			Osp	rey 20 State	Com				<u>5</u> H	
				<sup>7.</sup> Su	rface Loc	ation					
UL-Loi	Section	Township	Range	Lot Idn Feet fr				Feet From	E/W Line		County
A	20	215	34E		190	r	North	• 710	East		Lea
UL - Lot	Section	Township	T	Lot Idn							
P	29	215	Range 34E	120(100	Feet from 330		'S Line South	Feet From 380	E/W Lin East	c	County Lea
<b>41</b>		<u></u>	·		ol Inform	ation					
WC-025 G07 S2	12 12014- 8-	ne Socia		Pool	Name						Pool Code
WC-023 G07 32	13430141, 501	ine Sparing		······································						I.,	97962
		·····		Additiona		formation					
	k Type Well		12. Well Type Oil		13. Cable/Rot	lary	14	Lease Type V State	1	<sup>13</sup> Ground Level Elevation 3754.1'	
<sup>16</sup> Multiple		17 Proposed Depth		<sup>16</sup> Formatio					<sup>20.</sup> Spud	Date	
Depth to Ground water		21771' Bone Distance from nearest fresh water		Bone Sp resh water wi			Distance to	o nearest su	12/30/	2014	
•			tem in lieu of lined								
A we will be t	ising a clos	ca-toop sys		Proposed Cas	ing and C	Cement Pro	ogram				
Туре	Hole	Size	Casing Size	Casing Wei	ght/fi	Setting	, Depth	Sacks of Co	ement	Estir	nated TOC
Surface	17	1.5	13.375	54.5		19	20'	1225	1225		_
Intrmd	12	.25	9.625	40		58	30'	1500	500		
Production 8.75		75	5.5	17		21771		3500		3400	
	<del></del>		Casir	g/Cement Pro	gram: Ad	ditional C	Comments				
								8", 54.5#, 1			
								40# J55 and to approxim			
			and cement		Tarelat	. with Ci	it brine	to approxit	nacely	21,771'	MD. Run
	L/#/ E-										
·				Proposed Blov	wout Prev	ention Pro	ogram	·····	·		
	Туре			Working Pressure		Test Pressu		3		Manufacturer	
Double Ram			3000		3000				Horn		
			on given above is t	rue and complete t	lo the		OLC	ONSERVAT		/ISION	
best of my knowledge and belief. I further certify that I have complied with J9.15.14.9 (A) NMAC 🖾 and/or			and/or								
19.15.14.9 (B Signature: (		, if appli	able. PO	<b>Q</b> /		Approved By		1/1/	uh		
Printed name:	Mayle Re	ives b	<u> </u>	5-		Title: Petroleum Engineer					
Title: Regul		-				Approved Date: 12/22/14 Expiration Date: 12/22/16					
E-mail Addres	is: mreyes l	@concho.c	om							1	
Date: 12/22/2	014		Phone: 575-74	18-6945		Conditions of Approval Attached					

# Osprey 20 State Com #5H

Hole	
Size Casing Wt Depth Cm	nt TOC
Surface 17.5 13.375 54.5 1920' 122	
Intrmd 12.25 9.625 40 5830' 150	)0 0
Prod 8.75 5.5 17 21,771' 350	3 400'

Plan to drill a 17-1/2" hole to 1920' with Fresh Water. Run 13-3/8", 54.5#, J-55 csg and cmt to surface. Drill 12-1/4" hole to 5830' with Brine, and run 9-5/8", 40# J55 and cement to surface. Drill 8-3/4" vertical & curve. Drill 8-3/4" lateral with cut brine to approximately 21,771' MD. Run 5-1/2", 17#, P-110 csg and cement to 5600'.

Well Control

Type Pressure Test Manufacture

Double Ram 3000 3000 Horn

#### CONDITIONS OF APPROVAL

API #	Operator	Well name & Number
30-025-42349	COG Operating LLC	Osprey 20 State Com # 5H

Applicable conditions of approval marked with XXXXXX

### Administrative Orders Required

XXXXXX	Will require a directional drill survey with the C-104
XXXXXXXX	If using a pit for drilling and completion operations, must have an approved pit form prior to spudding the well
Other wells	

\_\_\_\_\_

Drilling

1 1	ne operator shall drill without interruption through the fresh water zone or zones and shall immediately set in ement the water protection string
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### Casing

XXXXXXX	SURFACE & INTERNEMIATE(1) CASING - Cement must circulate to surface
XXXXXXX	PRODUCTION CASING - Cement must tie back into intermediate casing
xxxxxxx	If cement does not circulate to surface, must run temperature survey or other log to determine top of cement
XXXXXXX	Surface casing must be set 25' below top of Rustler Anhydrite in order to seal off protectable water
,,,,,,,	North Area
	Surface casing minimum setting depth of 350' and at least 50' into the red beds whichever is greater.