

API No. <u>42-461-40393</u> Drilling Permit # <u>817016</u> SWR Exception Case/Docket No. <u>0301163</u> (R37)		RAILROAD COMMISSION OF TEXAS OIL & GAS DIVISION APPLICATION FOR PERMIT TO DRILL, RECOMPLETE, OR RE-ENTER <i>This facsimile W-1 was generated electronically from data submitted to the RRC.</i> <i>A certification of the automated data is available in the RRC's Austin office.</i>				FORM W-1 07/2004 Permit Status: Approved	
1. RRC Operator No. <u>166150</u>		2. Operator's Name (as shown on form P-5, Organization Report) COG OPERATING LLC		3. Operator Address (include street, city, state, zip): ONE CONCHO CENTER 600 W ILLINOIS AVE MIDLAND, TX 79701-0000			
4. Lease Name VANESSA P1 UNIT		5. Well No. 5202BH					
GENERAL INFORMATION							
6. Purpose of filing (mark ALL appropriate boxes): <input checked="" type="checkbox"/> New Drill <input type="checkbox"/> Recompletion <input type="checkbox"/> Reclass <input type="checkbox"/> Field Transfer <input type="checkbox"/> Re-Enter <input checked="" type="checkbox"/> Amended <input type="checkbox"/> Amended as Drilled (BHL) (Also File Form W-1D)							
7. Wellbore Profile (mark ALL appropriate boxes): <input type="checkbox"/> Vertical <input checked="" type="checkbox"/> Horizontal (Also File Form W-1H) <input type="checkbox"/> Directional (Also File Form W-1D) <input type="checkbox"/> Sidetrack							
8. Total Depth 10500		9. Do you have the right to develop the minerals under any right-of-way ? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		10. Is this well subject to Statewide Rule 36 (hydrogen sulfide area)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
SURFACE LOCATION AND ACREAGE INFORMATION							
11. RRC District No. 7C		12. County UPTON		13. Surface Location <input checked="" type="checkbox"/> Land <input type="checkbox"/> Bay/Estuary <input type="checkbox"/> Inland Waterway <input type="checkbox"/> Offshore			
14. This well is to be located <u>18</u> miles in a <u>SW</u> direction from <u>MIDKIFF</u> which is the nearest town in the county of the well site.							
15. Section 51		16. Block C		17. Survey CCSD&RGNG RR CO		18. Abstract No. A-36	
				19. Distance to nearest lease line: 59 ft.		20. Number of contiguous acres in lease, pooled unit, or unitized tract: 160	
21. Lease Perpendiculars: <u>330</u> ft from the <u>NORTH</u> line and <u>2645</u> ft from the <u>EAST</u> line. 22. Survey Perpendiculars: <u>330</u> ft from the <u>NORTH</u> line and <u>2645</u> ft from the <u>EAST</u> line.							
23. Is this a pooled unit? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		24. Unitization Docket No:		25. Are you applying for Substandard Acreage Field? <input type="checkbox"/> Yes (attach Form W-1A) <input checked="" type="checkbox"/> No			
FIELD INFORMATION List all fields of anticipated completion including Wildcat. List one zone per line.							
26. RRC District No.	27. Field No.	28. Field Name (exactly as shown in RRC records)		29. Well Type	30. Completion Depth	31. Distance to Nearest Well in this Reservoir	
7C	85279200	SPRABERRY (TREND AREA)		Oil or Gas Well	10500	250.00	
BOTTOMHOLE LOCATION INFORMATION is required for DIRECTIONAL, HORIZONTAL, AND AMENDED AS DRILLED PERMIT APPLICATIONS (see W-1H attachment)							
Remarks [FILER Nov 7, 2016 2:16 PM]: Amend to move SHL.; [RRC STAFF Nov 14, 2016 1:50 PM]: Tracts 1 and 2 have unleased and non pooled undivided interests.; [RRC STAFF Nov 14, 2016 1:51 PM]: Changed distance to nearest lease line to match plat.; [RRC STAFF Nov 16, 2016 2:34 PM]: There have been problems identified with this permit (see problem letter attachment). Notification sent.; [RRC STAFF Nov 17, 2016 9:35 AM]: Problems identified with this permit are resolved.				Certificate: I certify that information stated in this application is true and complete, to the best of my knowledge. <u>Tammy Aylesworth, Regulatory Analyst</u> <u>Nov 07, 2016</u> Name of filer Date submitted <u>(432)683-7443</u> <u>taylesworth@conchoresources.com</u> Phone E-mail Address (OPTIONAL)			
RRC Use Only Data Validation Time Stamp: Nov 17, 2016 9:39 AM('As Approved' Version)							

Permit Status: Approved <i>The RRC has not approved this application. Duplication or distribution of information is at the user's own risk.</i>

**RAILROAD COMMISSION OF TEXAS
OIL & GAS DIVISION**

APPLICATION FOR PERMIT TO DRILL, RECOMPLETE, OR RE-ENTER

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Permit #	817016
Approved Date:	Nov 17, 2016

1. RRC Operator No. 166150	2. Operator's Name (exactly as shown on form P-5, Organization Report) COG OPERATING LLC	3. Lease Name VANESSA P1 UNIT	4. Well No. 5202BH
Lateral Drainhole Location Information			
5. Field as shown on Form W-1 SPRABERRY (TREND AREA) (Field # 85279200, RRC District 7C)			
6. Section 53	7. Block C	8. Survey CCSD&RGNG RR CO	9. Abstract 37
10. County of BHL UPTON			
11. Terminus Lease Line Perpendiculars 9 ft. from the NORTH line. and 59 ft. from the EAST line			
12. Terminus Survey Line Perpendiculars 10 ft. from the NORTH line. and 2446 ft. from the EAST line			
13. Penetration Point Lease Line Perpendiculars 330 ft. from the NORTH line. and 2645 ft. from the EAST line			

Block C,
C.C.S.D. & R.G.N.G. RR. Co.

See Detail "A"

59 54

COG OPERATING LLC

Tract 1
80 Acres

COG

7

#5202BH
Proposed Surface Hole Location/
Proposed Penetration Point
X:1469717.74 Latitude:31.43493957
Y:647153.94 Longitude:-102.03367083
Latitude:31°26'05.78"N Longitude:102°02'01.21"W
Survey Line: 330' FNL, 2645' FEL Section 51
Unit Line: 330' FNL, 2645' FEL

Proposed First Take Point
X:1469799.96 Latitude:31.43623125
Y:647622.56 Longitude:-102.03343021
Latitude:31°26'10.43"N Longitude:102°02'00.35"W
Survey Line: 101' FSL, 2445' FEL Section 52
Unit Line: 100' FSL, 80' FEL

Proposed Last Take Point
X:1467138.15 Latitude:31.46365264
Y:657638.38 Longitude:-102.04245739
Latitude:31°27'49.15"N Longitude:102°02'32.85"W
Survey Line: 101' FNL, 2447' FEL Section 53
Unit Line: 100' FNL, 59' FEL

Proposed Bottom Hole Location
X:1467114.78 Latitude:31.46389342
Y:657726.33 Longitude:-102.04253668
Latitude:31°27'50.02"N Longitude:102°02'33.13"W
Survey Line: 10' FNL, 2446' FEL Section 53
Unit Line: 9' FNL, 59' FEL

Tract 1: 5178.66'

N 14°52'58" W 10454.49' AZ3450702"

60 53

61 52

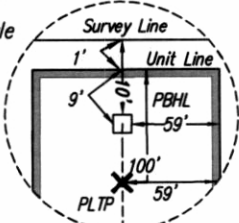
COG OPERATING LLC

L1

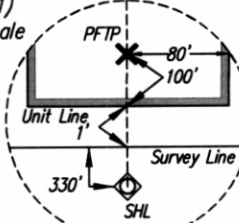
L3

Joehanks

Detail "A"
Not to Scale



Detail "B(1)"
Not to Scale



Tract 2
80 Acres

COG

6

5

Tract 2: 5184.83'

Vanessa P1 Unit
#5202BH
160 Acres

62 51

See Detail "B"

N 09°57'04" E
475.77'
AZ09°57'04"

5228AH, 5202BH
EL. 2780

COG

LINE	BEARING	DISTANCE
L1	N 15°00'00" W	10564.60'
L2	N 75°01'48" E	659.76'
L3	S 15°00'00" E	10563.13'
L4	S 74°54'09" W	659.76'

LEGEND	
(SHL/PPP)	— ◆ —
(PSHL)	— ◇ —
(PPP)	— ○ —
(PFTP)	— × —
(PLTP)	— × —
(PBHL)	— □ —
(PLTP/PBHL)	— ■ —



Jeffrey D. Suiter

September 8, 2016

160908R1-BB

Railroad Commission Drawing

COG OPERATING LLC
Vanessa P1 Unit #5202BH
80 Acres out of Section 52 &
80 Acres out of Section 53,
Block C,
C.C.S.D. & R.G.N.G. RR. Co.,
Upton County, Texas

Scale: 1" = 1200'

FINAL APPROVAL

Note: Survey Reconstruction filed in the Office of Luchini and Mertz, Land Surveying Company.
Note: All bearings and coordinates shown are based on the Texas Coordinate System of 1927, Central Zone.
Note: The above sketch represents the location as staked on the ground and is for permit purposes only.
Note: NAD 27 Coordinates & Latitude/Longitude on well location in Sections 51, 52 & 53.
Note: Well location is approximately 16 miles southwest of Midland.
Note: This does not constitute a boundary survey.
Note: Lease description provided by Client.

