

DISTRIBUTION			
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S.G.S.			
CAND OFFICE			
TRANSPORTER	OIL	1	
	GAS	1	
OPERATOR			
ORATION OFFICE			

NEW MEXICO OIL CONSERVATION COMMISSION
REQUEST FOR ALLOWABLE
AND
AUTHORIZATION TO TRANSPORT OIL AND NATURAL GAS
RECEIVED

Form C-104
Supersedes Old C-104 and
Effective 1-1-65

APR 17 1974

I. Operator
Coquina Oil Corporation ✓
Address
200 Bldg. of Southwest, Midland, Texas 79701
Reason(s) for filing (Check proper box)
New Well ☐ Change in Transporter of:
Recompletion ☐ Oil ☐ Dry Gas ☐
Change in Ownership ☐ Casinghead Gas ☐ Condensate ☒
Other (Please explain)
Change from Permitted
If change of ownership give name and address of previous owner

II. DESCRIPTION OF WELL AND LEASE

Lease Name Yates State	Well No. 1	Pool Name, Including Formation Burton Flat (Strawn)	Kind of Lease State, Federal or Fee	State State	Lease No. K-3977
Location Unit Letter K ; 1980 Feet From The West Line and 1980 Feet From The South Line of Section 10 Township 21S Range 27E , NMPM, Eddy County					

III. DESIGNATION OF TRANSPORTER OF OIL AND NATURAL GAS

Name of Authorized Transporter of Oil ☐ or Condensate ☒ Summit Gas Company	Address (Give address to which approved copy of this form is to be sent) 405 United Gas Bldg., Houston, TX. 77002					
Name of Authorized Transporter of Casinghead Gas ☐ or Dry Gas ☒ El Paso Natural Gas Co.	Address (Give address to which approved copy of this form is to be sent) P. O. Box 1492, El Paso, TX. 79978					
If well produces oil or liquids, give location of tanks.	Unit K	Sec. 10	Twp. 21S	Rge. 27E	Is gas actually connected? Yes	When 11-8-73

If this production is commingled with that from any other lease or pool, give commingling order number:

IV. COMPLETION DATA

Designate Type of Completion - (X)	Oil Well	Gas Well	New Well	Workover	Deepen	Plug Back	Same Restv.	Diff. Res
Date Spudded	Date Compl. Ready to Prod.		Total Depth		P.B.T.D.			
Elevations (DF, RKB, RT, GR, etc.)	Name of Producing Formation		Top Oil/Gas Pay		Tubing Depth			
Perforations					Depth Casing Shoe			
TUBING, CASING, AND CEMENTING RECORD								
HOLE SIZE	CASING & TUBING SIZE		DEPTH SET		SACKS CEMENT			

V. TEST DATA AND REQUEST FOR ALLOWABLE OIL WELL

(Test must be after recovery of total volume of load oil and must be equal to or exceed top allowable for this depth or be for full 24 hours)

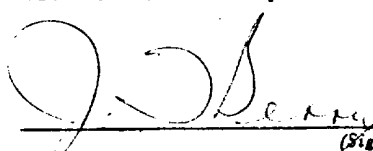
Date First New Oil Run To Tanks	Date of Test	Producing Method (Flow, pump, gas lift, etc.)	
Length of Test	Tubing Pressure	Casing Pressure	Choke Size
Actual Prod. During Test	Oil - Bbls.	Water - Bbls.	Gas - MCF

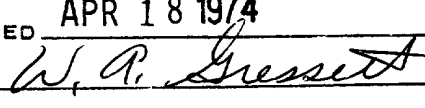
GAS WELL

Actual Prod. Test - MCF/D	Length of Test	Bbls. Condensate/MMCF	Gravity of Condensate
Testing Method (pitot, back pr.)	Tubing Pressure (shut-in)	Casing Pressure (shut-in)	Choke Size

VI. CERTIFICATE OF COMPLIANCE

I hereby certify that the rules and regulations of the Oil Conservation Commission have been complied with and that the information given above is true and complete to the best of my knowledge and belief.


(Signature)
Superintendent
(Title)
April 16, 1974
(Date)

OIL CONSERVATION COMMISSION
APPROVED APR 18 1974
BY 
TITLE OIL AND GAS INSPECTOR

This form is to be filed in compliance with RULE 1104.
If this is a request for allowable for a newly drilled or deepened well, this form must be accompanied by a tabulation of the deviation tests taken on the well in accordance with RULE 111.
All sections of this form must be filled out completely for allowable on new and recompleted wells.
Fill out only Sections I, II, III, and VI for changes of owner well name or number, or transporter, or other such change of condition.
Separate Forms C-104 must be filed for each pool in multiple

AUG 15 1973

Form C-105
Revised 1-1-65

NO. OF COPIES RECEIVED	6
DISTRIBUTION	
SANTA FE	1
FILE	1 ✓
U.S.G.S.	2
LAND OFFICE	1
OPERATOR	

O.C.C.
NEW MEXICO OIL CONSERVATION COMMISSION
WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5a. Indicate Type of Lease	
State ☒	Fee ☐
5. State Oil & Gas Lease No. K 3977	

Ben D. Gould

1a. TYPE OF WELL

OIL WELL ☐ GAS WELL ☒ DRY ☐ OTHER _____

b. TYPE OF COMPLETION

NEW WELL ☒ WORK OVER ☐ DEEPEN ☐ PLUG BACK ☐ DIFF. RESVR. ☐ OTHER _____

2. Name of Operator
Coquina Oil Corporation ✓

3. Address of Operator
200 Bldg. of the Southwest, Midland, Texas 79701

4. Location of Well

UNIT LETTER K LOCATED 1980 FEET FROM THE West LINE AND 1980 FEET FROM

THE South LINE OF SEC. 10 TWP. 21-S RGE. 27-E NMPM

12. County
Eddy

15. Date Spudded
4-27-73

16. Date T.D. Reached
6-22-73

17. Date Compl. (Ready to Prod.)
8-2-73

18. Elevations (DF, RKB, RT, GR, etc.)
G.L. 3259; K.B. 3275

19. Elev. Casinghead
--

20. Total Depth
11,614

21. Plug Back T.D.
11,604

22. If Multiple Compl., How Many
2

23. Intervals Drilled By
Rotary Tools
A11

24. Producing Interval(s), of this completion - Top, Bottom, Name
10,262-297' Strawn

25. Was Directional Survey Made
No

26. Type Electric and Other Logs Run
Comp. Densilog, Comp N-GR; Induction Electrolog

27. Was Well Cored
No

28. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT LB./FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
13 3/8"	48#	611	17 1/2"	660 sx.	None
9 5/8"	36#	2970	12 1/4"	1325 sx.	None
7"	23,26,29#	11614	8 3/4"	550 sx.	None

29. LINER RECORD

SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN
None				

30. TUBING RECORD

SIZE	DEPTH SET	PACKER SET
2 3/8"	10,232	10,213

31. Perforation Record (Interval, size and number)

10,262-297'; w/ 2 JSPF, 10211 - 221

70 - 0.32" diameter holes

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED
10,262-297'	150 gals. 15% MS acid

33. PRODUCTION

Date First Production New well	Production Method (Flowing, gas lift, pumping - Size and type pump) Flowing	Well Status (Prod. or Shut-in) S.I.
Date of Test 8-2-73	Hours Tested 8 (CAOF)	Choke Size Var.
Flow Tubing Press. 3/8" 2165	Casing Pressure Packer	Calculated 24-Hour Rate 63
	Oil - Bbl. 21	Gas - MCF 3095
	Water - Bbl.	Gas - Oil Ratio 1/500
	Oil Gravity - API (Corr.) 57.2 @ 60°	

34. Disposition of Gas (Sold, used for fuel, vented, etc.)
S.I. for connection

Test Witnessed By
A. L. Howard

35. List of Attachments

36. I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief.

SIGNED *Ben D. Gould* (Ben D. Gould) TITLE Superintendent DATE August 13, 1973

INSTRUCTIONS

This form is to be filed with the appropriate District Office of the Commission not later than 20 days after the completion of any newly-drilled or deepened well. It shall be accompanied by one copy of all electrical and radio-activity logs run on the well and a summary of all special tests conducted, including drill stem tests. All depths reported shall be measured depths. In the case of directionally drilled wells, true vertical depths shall also be reported. For multiple completions, Items 30 through 34 shall be reported for each zone. The form is to be filed in quintuplicate except on state land, where six copies are required. See Rule 1105.

INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

T. Capitan Reef 905 **Southeastern New Mexico**

Northwestern New Mexico

T. Anhy	T. Canyon	T. Ojo Alamo	T. Penn. "B"
T. Salt	T. Strawn 10,125	T. Kirtland-Fruitland	T. Penn. "C"
B. Salt	T. Atoka 10,370	T. Pictured Cliffs	T. Penn. "D"
T. Yates	T. Miss	T. Cliff House	T. Leadville
T. 7 Rivers	T. Devonian	T. Menefee	T. Madison
T. Queen	T. Silurian	T. Point Lookout	T. Elbert
T. Grayburg	T. Montoya	T. Mancos	T. McCracken
T. San Andres	T. Simpson	T. Gallup	T. Ignacio Qtzte
T. Glorieta	T. McKee	Base Greenhorn	T. Granite
T. Paddock	T. Ellenburger	T. Dakota	T.
T. Blinebry	T. Gr. Wash	T. Morrison	T.
T. Tubb	T. Granite	T. Todilto	T.
T. Drinkard	T. Delaware Sand 2,900	T. Entrada	T.
T. Abo	T. Bone Springs 5,165	T. Wingate	T.
T. Wolfcamp 8945	T. L. Morrow 11,070	T. Chinle	T.
T. Penn.	T. Barnett 11,555	T. Permian	T.
T. Cisco (Bough C)	T.	T. Penn. "A"	T.

FORMATION RECORD (Attach additional sheets if necessary)

From	To	Thickness in Feet	Formation	From	To	Thickness in Feet	Formation
0	905	905	Lime, Anhydrite				
905	2900	1995	Dolomite				
2900	5165	2265	Sand, Shale Stringers				
5165	6390	1225	Lime, Dolomite, Shale & Sand Breaks				
6390	6595	205	Sand, Shale Streaks				
6595	7280	685	Lime, Dolomite, Sand & Shale Streaks				
7280	7510	230	Sand, Shale Streaks				
7510	8040	530	Lime, Dolomite				
8040	8178	138	Sand, Lime & Shale Streaks				
8178	8965	787	Lime, Dolomite, Sand & Shale				
8965	9530	565	Lime, Dolomite				
9530	10135	605	Sand, Shale				
10135	10365	230	Lime, Shale Streaks				
10365	11555	1190	Sand, Shale, Lime Streaks				
11555	11614	59	Shale				

NEW MEXICO OIL CONSERVATION COMMISSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

RECEIVED

Type Test ☐ Initial ☐ Annual ☒ Special				Test Date 1-10-74		JAN 16 1974	
Company Coquina Oil Corporation				Connection El Paso Natural Gas Co.		O. C. C.	
Pool Burton Flat <i>Strawn</i>				Formation Strawn		AMERASIA, OFFICE	
Completion Date 8-1-73		Total Depth 11,614'		Plug Back TD 11,580'		Elevation 3275'KB	
Farm or Lease Name Yates-State							
Csq. Size 7"	Wt. 23#	Set At 11,614'	Perforations: From 10,262' To 10,297'				Well No. 1
Tqg. Size 2 3/8"	Wt. 4.8#	Set At 10,217'	Perforations: From To				Unit Sec. Twp. Rye. K 10 21S 27E
Type Well - Single - Bradenhead - G.G. or G.O. Multiple G. G. Dual				Packer Set At 10,217'		County Eddy	
Producing Thru Tubing		Reservoir Temp. °F 170 @ 10,275'		Mean Annual Temp. °F		Baro. Press. - P _a 13.2	
State New Mexico							
L 10,217	H 10,217	G _g .661	% CO ₂	% N ₂	% H ₂ S	Prover	Meter Run 4"
						Taps Flange	

FLOW DATA						TUBING DATA		CASING DATA		Duration of Flow	
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. hw	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.		Temp. °F
SI							3391				48 hrs
1.	4.026		1.75	680	4	72	3209	70			90 Min
2.	4.026		1.75	730	9	72	3057	71			90 Min
3.	4.026		1.75	740	14.5	71	2918	72			90 Min
4.	4.026		1.75	750	21.1	72	2769	72			90 Min
5.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor F _t	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	14.93	52.65	693.2	.9887	1.230	1.071	1,025
2	14.93	81.78	743.2	.9887	1.230	1.078	1,601
3	14.93	104.51	753.2	.9896	1.230	1.078	2,047
4	14.93	126.9	763.2	.9887	1.230	1.080	2,488
5.							

NO.	R _t	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	A.P.I. Gravity of Liquid Hydrocarbons	Specific Gravity Separator Gas	Specific Gravity Flowing Fluid	Critical Pressure	Critical Temperature
					27.15 to 1	57.2 @ 60°	.661	X X X X X X X X	670	378
1.	1.034	530	1.402	.871				G. Mix .899	P.S.I.A. .662	P.S.I.A. 454
2.	1.109	532	1.407	.861						
3.	1.124	531	1.404	.860						
4.	1.139	532	1.407	.857						
5.										

NO.	P _t ²	P _w	R _w ²	P _c ² - R _w ²
1		4461.2	19902	1722
2		4291.2	18414	3210
3		4120.2	16976	4648
4		3946.2	15572	6052
5				

(1) $\frac{P_c^2}{P_c^2 - R_w^2} = 3.573$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - R_w^2} \right]^n = 6160$

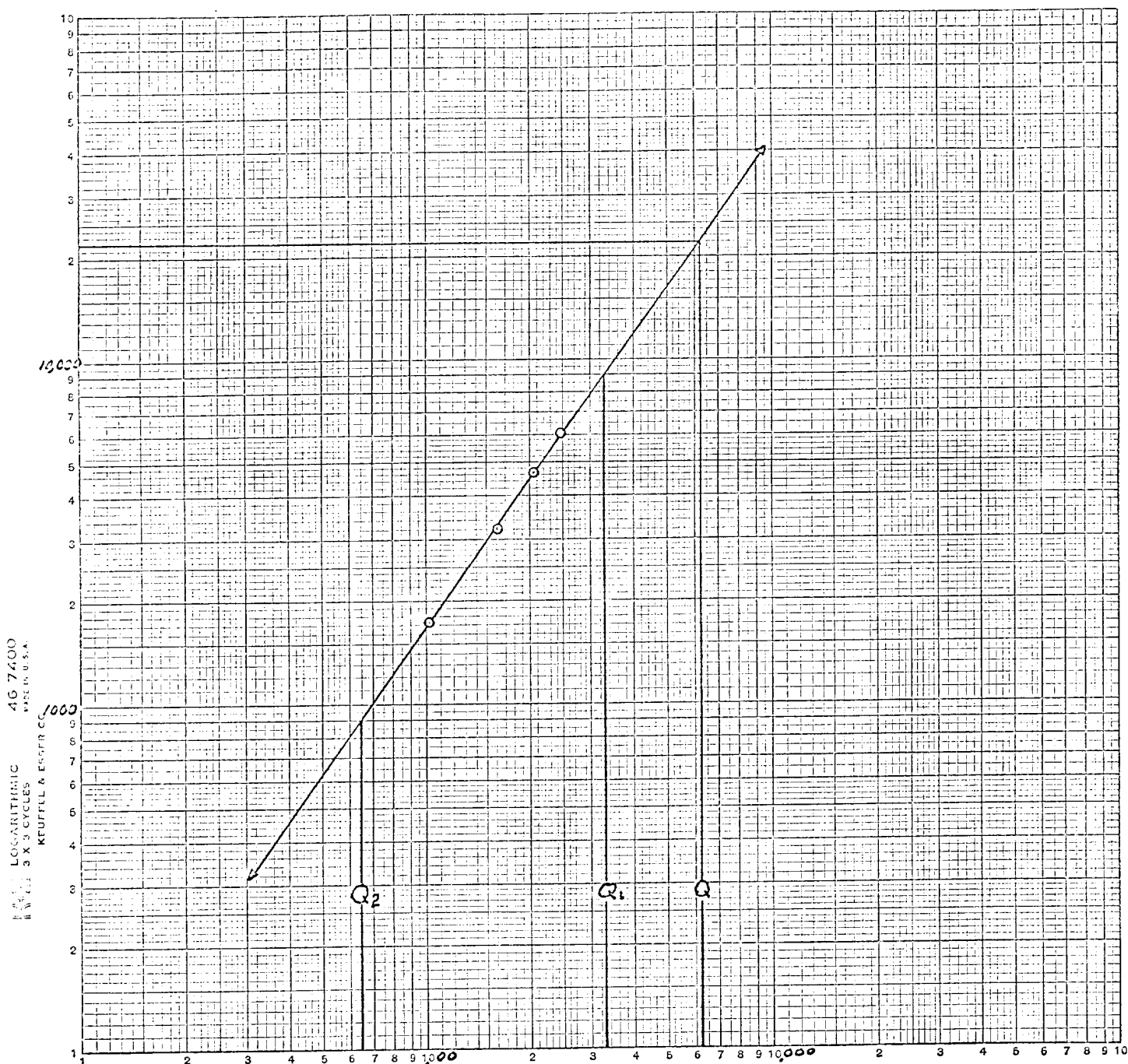
(2) $\left[\frac{P_c^2}{P_c^2 - R_w^2} \right]^n = 2.476$

Absolute Open Flow	6.160	Mcfd @ 15.025	Angle of Slope @	55	Slope, n	.709
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Remarks: PW Substituted for PT-Measured with Amerada Type RPG-3 Instrument #2981-N
0 to 4800#

Approved By Commission:	Conducted By: <i>G. Camp</i>	Calculated By: <i>J. Arnold</i>	Checked By: <i>G. Camp</i>
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Coquina Oil Corporation
 Yates State No. 1
 Open Flow Test
 Strawn
 January 10, 1974



Q₁ = 3300 Log. Q₁ = 3.51851

Q₂ = 645 Log. Q₂ = 2.80956

N = .70895

Q = 6,160