-

separate tubing strings with isolating packers as shown on the attached well bore sketch. Based on reservoir and paleontological data from the nearby Superior State "K" and "D" wells, the completions described in this application constitute separate sources of supply; and, we respectfully submit Form C-107 with accompanying exhibits to support our request for a dual completion in the State "L" COM No. 1.

Yours very truly,

THE SUPERIOR OIL COMPANY

1 see

T. D. Clay Petroleum Engineer

TDC/js

cc: Mr. Joe Ramey (2) P. O. Box 1980 Hobbs, New Mexico

NEW *** XICO OIL CONSERVATION COMMISSION SANTA FE, NEW MEXICO APPLICATION FOR MULTIPLE COMPLETION

Form C+107

5-1-61

dog to

erator	· · · · · · · · · · · · · · · · · · ·	County		Date	. 8, 1968	•
The Superior Oil Company	/	Lease		Well No		
P. O. Box 1900, Midland	Texas 79701	Stat	te "L" COM		1	
cation Unit Se	ection 33	Township 13-8		Range 34 •1	5	
Well P Has the New Mexico Oil Conservat			multiple completion	n of a well i	n these same po	ols or in the same
zones within one mile of the subject	ct well? YES	NO_ X	_			
If a series is use identify one such	instance: Order No.		_; Operator Lease,			
Approval of first dual	completion in fie	ald at Super	rior State "K"	' No. 1	is pending.	
The following facts are submitted:	Upper		Intermediate			wer
The following facts are submitted.	Zone		Zone			one
a. Name of Pool and Formation	Lover Wolfcamp				Upper Penns	ylvanian
b. Top and Bottom of					10 448.88	
Pay Section	10,360-65				10,449-55	
(Perforations)					011	
c. Type of production (Oil or Gas)	011					
d. Method of Production (Flowing or Artificial Lift)	Viewing				Flowing	· / .
The following are attached. (Pleas		, <u></u> , <u> </u>				
diameters and sett b. Plat showing the l	ing depth, location and t ocation of all wells on a	applicant's lease.	nd side door chokes, a e, all offset wells o	n offset lea	er information a ses, and the na	s may be pertinen mes and addresse
 izers and/or turbol diameters and sett b. Plat showing the l of operators of all c. Waivers consenting tors have been fur 	lizers and location there ing depth, location and t ocation of all wells on a leases offsetting applica g to such multiple compl mished copies of the ap	sype of packers an applicant's lease ant's lease. letion from each plication.*	offset operator, or i	and such oth n offset lea n lieu there	er information a uses, and the na of, evidence tha	s may be pertinent mes and addresse t said offset oper s of perforation i
 izers and/or turbol diameters and sett b. Plat showing the l of operators of all c. Waivers consenting tors have been fur d. Electrical log of t dicated thereon. (I List all offset operators to the left 	lizers and location there ing depth, location and t occation of all wells on a leases offsetting applica g to such multiple compl mished copies of the appliche well or other accepta f such log is not availab ase on which this well is	of, qualifies as sype of packers ar applicant's lease. letion from each plication.* able log with top le at the time ap	of side door chokes, a e, all offset wells o offset operator, or i ps and bottoms of pr plication is filed it r with their correct of Terman 79701	and such oth n offset lea n lieu there oducing zon shall be su	er information a ses, and the na of, evidence tha nes and interval bmitted as provi	s may be pertinent mes and addresse t said offset opera s of perforation in
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*Should waivers from all offset operators not accompany an application for administrative approval, the New Mexico Oil Conservation Commis-sion will hold the application for a period of twenty (20) days from date of receipt by the Commission's Santa Fe office. If, after said twenty-day period, no protest nor request for hearing is received by the Santa Fe office, the application will then be processed.

Signatu

NOTE: If the proposed multiple completion will result in an unorthodox well location and/or a non-standard proration unit in one or/more of the producing zones, then separate application for approval of the same should be filed simultaneously with this application.





- Lower Wolfcamp
- Permo Penn
- O Upper Penn
- Middle Penn
- Lower Penn

THE SUPERIOR OIL COMPANY ENGINEERING MIDLAND CERCA FIELD AREA Lea County, New Mexico SCALE:1"= 2000'

NOV 11 1968

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THE SUPERIOR OIL COMPANY

P. 0. BOX 1900 MIDLAND, TEXAS 7970[

November 11, 1968

Sun Oil Company P. O. Box 1861 Midland, Texas 79701 Attention: Mr. George Zimmerman

Tenneco Oil Company P. O. Box 1031 Midland, Texas 79701 Attention: Mr. J. J. Lacey

Union Oil Company Union Oil Building Midland, Texas 79701 Attention: Mr. C. H. Glidden

> Re: Dual Completion Lower Wolfcamp and Upper Pennsylvanian Zones Superior State "L" COM No. 1 510' FSL & 660' FEL Section 33, T-13-S, R-34-E Cerca (Upper Penn) Field Lea County, New Mexico

Gentlemen:

Attached is an Application For Multiple Completion (Form C-107) for your review. An application along with appropriate exhibits has been submitted to the New Mexico Oil Conservation Commission for approval to dual complete the above captioned well. The Upper Penn Zone in the State "L" COM Well was completed October 31, 1968, through perforations 10,449-55 (OA), and on initial potential, this well flowed 184 BOPD through 3/4" choke, FTP = 75 psig., GOR = 1043, 43.2° API. The Lower Wolfcamp in this well was completed October 31, 1968, through perforations 10,360-65. On initial potential, the Lower Wolfcamp flowed 238 BOPD through 3/4" choke, FTP = 75 psig., GOR = 1270, 44.5° API.

Based on reservoir pressure and paleontological data from the nearby Superior State "K" and "D" wells, the completions as described in this application constitute separate sources of supply. Therefore, the State "L" COM well was completed in the Lower Wolfcamp and Upper Pennsylvanian Zones through separate tubing strings with isolating packers. This is the second dual completed well in the Cerca (Upper Penn) Field. Approval of the first dual completion at Superior State "K" No. 1 Well is pending the outcome of a Commission hearing.

Yours very truly,

THE SUPERIOR QIL COMPANY T. D. Clay

Petroleum Engineer

	·						R	evised 1-	1-65	
DISTRIBUTION							5a. In	dicate Ty	pe of Lease	
SANTA FE		NEW ME		ONSERVATION				ate 📕		ee
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								/////		7111
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2. Name of Operator							9. "			
The Superior	011 Company	y						ield and	Pool, or Wildo	at
7. O. Box 190	M. Midland	- Texas 797	01					ndesig		
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28. Casing Size 13-3/8* 9-5/8*	WEIGHT LB. 48 36	CAS /FT. DEPTH	ING RECORD (SET 19	Report all strings HOLE SIZE 17-1/2 ¹¹ 12-1/4 ¹¹	s set in we	II) CEMENTIN COCLO COCLO			Noas Noas Noas	PULLE
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28. CASING SIZE 13-3/8* 9-5/8* 7* 29. SIZE None	WEIGHT LB. 48 36 23 & 25 L TOP	CAS /FT. DEPTH 45 10,5 INER RECORD BOTTOM d number)	ING RECORD (SET 77 10 10 10 10 10 10 10 10 10 10 10 10 10	Report all strings HOLE SIZE 17-1/27 12-1/4 8-3/4 NT SCREEN 32.	s set in we 450 665 300 30. 2-3 2-3 ACID, SH	II) CEMENTIN COCLO	TUBIN DEPTH 10,420 10,310 TURE, CEM	SET	None None Bone RD Packe 10,420 10,316 EEZE, ETC.	RSET
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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

Southeastern New Mexico

Northwestern New Mexico



FORMATION RECORD (Attach additional sheets if necessary)

From	То	Thickness in Feet	Formation	From	To	Thickness in Feet	Formation
0420 0445 0470 0475	400 1270 2300 4500 9800 10398 10398 10420 10445 10475 10475 10502 10550	400 870 1030 2200 5300 598 22 25 25 5 27 48	Red beds & anhydrite Anhydrite & delemite Delemite & limestone				

DRILL STEM TEST DATA SUPERIOR STATE "L" COM MG. 1 510' FSL & 660' FEL SECTION 33, T-13-S, R-34-E CERCA (UPPER PENN) FIELD LEA COUNTY, NEW MEXICO

DST No. 1: 10,160-10,225

Ran Halliburton test tool on 4-1/2" dry drill pipe with packer at 10,159'. Tool open for 20 minute preflow w/very weak blow air and dead in 12 min. Closed tool for 1 hr ISIP, opened tool for 1 hr final flow w/no blow. Closed tool for 1 hr final shut in. Recovered 25' drlg mud w/no shows. IHYP = 4659, 1 hr ISIP = 69, Final Flow Press. = 46, 1 hr FSIP = 46, FHYP = 4659, BHT = 143°F.

DST No. 2: 10,435-10,486

Ran Halliburton DST tool on 4-1/2" dry drill pipe w/packer set at 10,435'. Tool open for 10 min preflow w/strong blow air. Closed tool for 1 hour ISIP w/gas to surface in 25 min. Tool open for 4 hr & 20 min final flow thru 1/4" chk w/oil to surface in 2 hours & 10 min, & flowed est. 8 BOPH w/max TP = 190 psig. Closed tool in for 2-1/2 hrs final shut in. Pulled packer loose & reversed out est. 65 BO w/no water plus 90' mud cut oil. IHYP = 5147, 1 hr ISIP = 3143, Final Flow = 600-2106, 2-1/2 hr FSIP = 3098, FHYP = 5103, BHT = 154°F.

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SANTA FE	REQUEST	FOR ALLOWABLE	Supersedes Old C-104 and C-110 Effective 1-1-65
FILE		AND	· · ·
U.S.G.S.	AUTHORIZATION TO TR	ANSPORT OIL AND NATURAL GA	AS
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TRANSPORTER OIL			
GAS OPERATOR			
I. PRORATION OFFICE			
The Superior Oil Co	mpany		
Address			
P. C. Box 1900, Mid	land, Texas 79701		
Reason(s) for filing (Check proper		Other (Please explain)	
New Well	Change in Transporter of:		
Recompletion	Oil Dry G		
Change in Ownership	Casinghead Gas Conde	nsate	
If change of ownership give nar			
and address of previous owner		the former	
		the second second	1 160 1
I. DESCRIPTION OF WELL A		ame, Including Formation	Kind of Lease
State "L" COM		, ,	State, Federal or Fee State
		rca-Upper Pennsylvanian	
Location	510 0-mbh		
Unit Letter ; ;;	510 Feet From The South Li	ne and 660 Feet From Ti	
Line of Section 33	Township 13-8 Range 3	4-1 , NMPM, Les	County
Line of Section	Township 200 Runge	, ividirioi,	County
DESIGNATION OF TRANSP	ORTER OF OIL AND NATURAL G	15	
Name of Authorized Transporter o		Address (Give address to which approve	ed copy of this form is to be sent)
Pan American Petrol	eum Corp. (Trucks)	P. O. Box 1725, Midland	. Texas 79701
Name of Authorized Transporter o	f Casinghead Gas 🔟 or Dry Gas 📋	Address (Give address to which approve	ed copy of this form is to be sent)
Varren Patroleum		P. O. Box 67, Monument,	New Mexico 88264
	Unit Sec. Twp. Rge.	Is gas actually connected? When	
If well produces oil or liquids, give location of tanks.	P 33 13-8 34-R	No	
V. COMPLETION DATA	d with that from any other lease or pool,	give comminging order number.	
	Oil Well Gas Well	New Well Workover Deepen	Plug Back Same Res'v. Diff. Res'v.
Designate Type of Comp	letion – (X) 🗶	X	
Date Spudded	Date Compl. Ready to Prod.	Total Depth	P.B.T.D.
August 30, 1968	October 20, 1968	10,550	10,494
Elevations (DF, RKB, RT, GR, et	c.; Name of Producing Formation	Top Oil/Gas Pay	Tubing Depth
KB 4151; GL 4136	Upper Penn.	10,445 (-6294)	10,469
Perforations			Depth Casing Shoe
10,449-55			10,550
	TUBING, CASING, AN	D CEMENTING RECORD	
HOLE SIZE	CASING & TUBING SIZE	DEPTH SET	SACKS CEMENT
17-1/2	<u>13-3/8"</u>	409	450
12-1/4	<u>9-5/8"</u>	4500	665
8-3/4	7**	10,550	300
			·····
V. TEST DATA AND REQUES	T FOR ALLOWABLE (Test must be a	after recovery of total volume of load oil a epth or be for full 24 hours)	nd must be equal to or exceed top allow-
OIL WELL Date First New Oil Run To Tanks		Producing Method (Flow, pump, gas lift	ptc.)
			,,
October 20, 1968 Length of Test	October 31, 1968 Tubing Pressure	Casing Pressure	Choke Size
· · ·		-	3/4"
24 hrs. Actual Prod. During Test	75 psig	Prod. below pkrs Water-Bbls.	Gas - MCF
-	184	0	192
184	104	V	176
GAS WELL			
Actual Prod. Test-MCF/D	Length of Test	Bbls, Condensate/MMCF	Gravity of Condensate
Testing Method (pitot, back pr.)	Tubing Pressure	Casing Pressure	Choke Size
Testing Method (pitot, back pr.)	Tubing Pressure	Casing Pressure	Choke Size
			Choke Size
VI. CERTIFICATE OF COMPL	IANCE	OIL CONSERVA	
VI. CERTIFICATE OF COMPL	IANCE and regulations of the Oil Conservation	OIL CONSERVA	TION COMMISSION
VI. CERTIFICATE OF COMPL I hereby certify that the rules Commission have been compli	IANCE	OIL CONSERVA	TION COMMISSION
/I. CERTIFICATE OF COMPL I hereby certify that the rules Commission have been compli	IANCE and regulations of the Oil Conservation ed with and that the information given	OIL CONSERVA	TION COMMISSION
/I. CERTIFICATE OF COMPL I hereby certify that the rules Commission have been compli	IANCE and regulations of the Oil Conservation ed with and that the information given	OIL CONSERVA APPROVED BY John in Run TITLE Geologia	TION COMMISSION , 19
71. CERTIFICATE OF COMPL I hereby certify that the rules Commission have been compli- above is true and complete to	IANCE and regulations of the Oil Conservation ed with and that the information given the best of my knowledge and belief.	OIL CONSERVA APPROVED BY TITLE <u>Geologics</u> This form is to be filed in c	TION COMMISSION
VI. CERTIFICATE OF COMPL I hereby certify that the rules Commission have been compli	IANCE and regulations of the Oil Conservation ed with and that the information given the best of my knowledge and belief.	OIL CONSERVA APPROVED BY TITLE <u>Geologica</u> This form is to be filed in c. If this is a request for allow	TION COMMISSION , 19

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 allow-able 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 multiply completed wells.

November 6, 1968

Production Engineer

(Date)

(Title

THE SUPERIOR OIL COMPANY

STATE "L" COM #1

TABULATION OF DEVIATION SURVEYS

LOCATION: 510' FSL & 660' FEL Section 33, T-13-S, R-34-E Cerca (Upper Penn) Field, Lea County, New Mexico

Depth <u>(</u> Feet)	Deviation (Degrees)	Depth (Feet)	Deviation (Degrees)	Depth (Feet)	Deviation (Degrees)
110	1/4	3034	1-1/2	7609	1/2
2 50	1/4	3314	1-1/4	8009	3/4
405	3/4	-3652	1	8167	1/2
600	3/4	4062	1-1/4	8573	2
800	1/4	4330	.3/4	8622	2-1/4
9 95	1/2	4500	1-1/4	× 8700	$\frac{2-1}{4}$ 1-3/4
1195	3/4	4900	1-1/4	8983	1-1/2
1397	1-1/4	5297	3/4	9413	2-3/4
1604	1-1/2	5705	3/4	9657	0 1/0
1980	3/4	5909	1/2	10,071	· 2-1/2 1-1/4
23 70	2	6333	3/4	10,225	3/4
2 537	2	6736	3/4	10,225	3/4
2724	1-3/4	6799	1/2	10,486	1-1/4
2 822	2	7198	3/4	10,550	1-1/4

I certify that the above information is true and complete to the best of my knowledge.

D. Jela

SUBSCRIBED and sworn to before me this 6th day of NOVEMBER . 19 68

My Commission Expires June 1, 1969

1.

Notary Public in and for Midland County, Texas