CASE 3005: Appli. of AMBASSADOR OIL CORP. for a waterflood project in Pearsall (Queen) Pool, Lea Co.



Application, Transcripts, SMALL Exhibits ETC.

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11	11			IL CORPORATION EEN SAND UNIT.		
		WELL NO. 1-2	WELL NO. 3-1	WELL NO. 4-2	WELL NO. 4A-1	WELL NO. 9-1 .
		1,0511-8 5/8 50 sxs.смт.	1;1191-8 5/8" 75 sxs.смт.	1,015'-8 5/8" 100 sxs.смт.	л 1,1161-8 5/8" 75 sxs. смт.	73'- 8 5/8" 100 sxs.смт.
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		3,650'-7" 100 sxs.смт.	3,500'-7" 100 sxs.смт.	3,470'-7." 200 sxs.смт.	3,500'-7" 100 sxs. смт.	3,789'-5½" 250 sxs. смт.
BEFORE EXA OIL CONSERVAT CASE NO. 30	rion	COMMISSION				•
CASE NO. <u>30</u>	04	<u>, 3005</u>		HBIT "C" LL CASING PRGRA	м	

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February 28, 1964

Mr. A. L. Porter, Jr. Secretary-Director Oil Conservation Commission Santa Fe, New Moxico

Dear Mr. Portor:

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Reference is made to the application of Ambabsador Oil Corporation which seeks approval of the Boussell Gueen Sand Unit and Waterflood Project, which was submitted on February 11, 1964.

In view of the statement end in the letter to me which accompanied the application of the second will be injected through tubing and packer set intend of by the pay zone within the production casing," it appears that no threat of contamination to the fresh waters which may which in the area will occur. Therefore, this office offices to objection to the granting of this application, provided to are furnished with an accurate description of the source of the water to be injected when the selection has been at a and further provided that we are supplied with an analysis of the source water.

Very truly yours,

S. E. Reynolds State Engineer

FEI/ma cc-Mr. E. A. Rikoy Mr. James T. Jenniggs F. H. Kennigheusen By: Frank 2. Irby Chief Water Rights Div.

BEFORE EXAMINER NUTTER
OIL CONSERVATION COMMISSION
CASE 10. 3004, 3005

		CO OIL AND GAS CO				
FIELD PEARS	5A	co	UNTY	LEA		
OPERATOR AN	MBASSADOR OIL CORPO	ORATION			DATE	2-11-64
LEASE	PEARSALL QUE	EEN SAND UNIT				
RESERVOIR	QUEEN		{	ISCOVERY	DATE	JANUARY, 194
. RESERVOIR	AND FLUID CHARACTE	ERISTICS				
A. INF	FORMATION ON ENTIRE	E RESERVOIR				
2. 3. 4. 5.	NAME OF FORMATION ESTIMATED PRODUCT COMPOSITION (SAND) JYPE OF STRUCTURE TYPE DRIVE DURING ORIGINAL RESERVOID WAS GAS CAP PRESERVOID	VE AREA OF ENTIR LIMESTONE, DOLO STRATIGRAPHI (INCLUD PRIMARY PRODUCTI R PRESSURE ESTIMA	DMITE, ETC. C DE CROSS-SI ON <u>Solut</u> ATED 850 PS	,) <u>San</u> Ection and Ion Gas	D	URF. MAPS)
B. IN	FORMATION ON PROPOS	SED PROJECT AREA				
	NCLUDE PLAT OF LEA NJECTION WELLS, AN		DED, SHOW	ING PRODUC	ING WELI	LS, PROPOSED
	NUMBER OF PRODUCT				041	
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IV. INJECTION

- 1. Source of injected water (Formation, Depths) Commercial water company 2. FRESH OR SALT WATER FRESH 3. FLOOD PATTERN AND SPACING 5 SPOT - 80 ACRES 4. INITIAL INJECTION PRESSURE TO BE USED (PSI) 700 5. ESTIMATED INITIAL PER WELL RATE OF INJECTION (BBLS.) 500 6. LIST COMPLETE INJECTION WELL DATA ON REVERSE SIDE OF THIS SHEET.

	WELL NO.	1-2	3-1	4-2	4A-1	9-1
Sùr. csg,	Size Length Sxs. Cement	18 5/8" 1,051 50	8 5/8" 1,119 75	8 5/8" 1,015 100	8 5/8" 1,116 . 75	8 5/8" 73 100
PROD. CSG.	Size Length Sxs. Cement	7" 3,650 100	7" 3,500 100	7" 3,470 200	7" 3,500 100	5±" 3,789 250
TUBING	LENGTH Packer Depth	3,650 3,630	3,470 3,470	3,450 3,450	3,470 3,470	3,730 3,730
° N Y	DEPTH Thru csg. or tubing?	3,700 тиві NG	3,650 тивінс	3,670 TUBING	3,750 TUBING	3,760 TUBING

INJECTION WELL DATA





	ľ	NR. HUTTER: We will call Case 3004.
		R. MRRIPT: Application of Aubussador (1) corporation
		for a unit agreemant, Lee Sounty, New Nexico.
	165	ER. FUTTER: We will also call 3005.
ΕK	243-6691	MR. DURRENT: Application of Acbassador Oil Corpora-
OV	ne 2.	tion for a waterflood project, Lea County, New Mexico.
NM	Phone	MR. NOTTER: Cases 3004 and 3005 will be consolidated
KO	0	for purposes of hearing.
id C	Mexic	MR. JENNINGS: James T. Jennings of Roswell appearing
EY, MEIER, WILKINS and CROWNOVER General Court Reporting Service	New Mexico	for Ambassador Oil Corporation, and we have one witness, Mr. Rikey
KIN, vorting		MR. MELLAHIM: If the Examiner please, Jason Kellahin,
711,1 + Rep	Albuquerque,	Kellahin and Fox, Santa Fe, representing Continental Oil Company.
R, W I Cou	Albu	Would you like to consolidate 3006 with this too?
EIE1 Jenera		NR. NUTTER: We will call Gase 3006.
W .	Building	MR. KELLAHIM: If Mr. Jennings has no objection.
Ϋ́	0	ER. JENNINGS: We have no objection.
RNI	Simm	MR. DURRETT: Application of Continental Gil Company
DEARNI	120 1	for a waterflood project, Lea County, New Mexico.
L	Suite 1120	MR. NUTTER: Case 3006 will be consolidated. We have
	S.	consolidated 3004, 5 and 6.
		MR. DURRETT: Do you have a witness, Mr. Mellahin?
••		MR. KELLAHIN: Yes.
	Ĺ	NR. DURRETT: If you will have the witnesses stand I'll



3 swear them all at the same time. (Witnessos sworn.) E. A. RILEY called as a witness, having been first duly sworn, testified as Phone 243-6691 DEARNLEY, MEIER, WILKINS and CROWNOVER follows: DIRECT FOAMIDATION BI MR. JENNIDICS: Would you state your name and occupation, please? \bigcirc New Mexico E. A. Riley, Assistant Vice President and Manager of A General Court Reporting Service Secondary Recovery Division for Ambassador Oil Company stationed in Fort Worth, Texas. Albuquerque, Mr. Riley, have you had occasion to testify before this Q Commission on many occasions in the past? Yes, I have. À Suite 1120 Simms Building MR. JENNINGS: Mr. Examiner, are the witness's qualifications acceptable? MR. NUTTER: They are. Mr. Riley, are you familiar with the application for the Q approval of the Pearsall Queen Sand Unit and the unit agreement itself? Yes, sir, I am. Α (Whereupon, Applicant's Exhibit No. 4 was marked for identification.)



PAGE

) I hand you what has been marked Exhibit 4 and ask you if you would identify that and also identify the unit area?

A Exhibit 4 is a pictorial presentation of the unit area which is included within the basharod line on the map, the area being located generally in, or partially in Section 32, Township 17 South, 32 East, and portions of Sections 4 and 5, Township 18 South, Range 32 East, Lea County, New Mexico.

Q There are approximately 960 acres in this unit?

A That is correct.

Q What types of lands are embraced therein, Mr. Riley? A Approximately 75% of United States federal lands, and the remainder is state land.

Q Under the terms of the unit agreement, who is the operator?

A Ambassador Oil Corporation has been selected as initial unit operator.

Q Do you have full authority to carry out the terms and operations and development under the unit agreement?

Suite 1120

A Yes, it was stipulated in the unit agreement.

Q Is the unit agreement substantially in the same form as has heretofore been approved by the Commissioner of Fublic Lands and the Oil Conservation Commission and the United States Geological Survey?



DEARNLEY, MEIER, WILKINS and CROWNOVER General Court Reporting Service Phone 243.6691

Mexico

New

Albuquerque,

Building

Simms

PAGE ;

		A Yes, it is.
		2 Do you that the proposed econdery vecovery opera-
		tions can be more efficiently and economically carried out under
	165	the tarms of the unit agreement?
ER	243-6691	A Tes, I do.
[AO	ne 2.	2 will this load to the maximum recovery?
CROWNOVER	Phone	A It should.
RO	0	Q What percentage of the operators of the working interest
d C.	Mexico	owners now have approved the working unit agreement?
LEY, MEIER, WILKINS and General Court Reporting Service	New A	A de have slightly in excess of 76% of the working owners
CIN orting		ratified the documents, the remainder have verbally agreed and are
TLK t Rep	Albuquerque,	in the process of sending them in to us. Approximately 75% have
Cours	Albu	ratified the unit documents. The remainder of the royalty inter-
IEK enera	`	ests are being secured at this time.
ME_{G}	Building	Q Will the interest that you have qualified or have in-
EY,		dicated their intention to qualify meet the requirements of the
SNL	Simms	unit agreement?
DEARNI		A Yes, it will.
D	Suite 1120	Q Have you requested approval by the United States Geo-
	Sw	logical Survey?
,		A Yes, we have.
		(Whereupon, Applicant's Ex hibit No. 5 was marked for identification.)
		tor identification.)



÷. I hand you here what has been marked as Exhibit 5 and ask you to idealify that. Exhibit 5 is a letter from the United States Department Α of Interior dated August 26, 1923 wherein the acting director gave Phone 243-6691 tentative approval to the unit area and designated it as one logical for unitization. \mathfrak{I} lave you made an application for approval to the Commissioner of Public Lands? Mexico Yes, we have. A Genural Court Reporting Service New Please refer to Exhibit 6, Mr. Riley, and identify that, (please. Albuquerque, (Whereupon, Applicant's Exhibit No. 6 was marked for identification.) A Exhibit 6 is a letter dated August 22, 1963 wherein the unit supervisor of the unit division approved the unit agreement Buildin as to form and content. Suite 1120 Simms Do you feel that the proposed unit will lead to a more Q efficient and orderly development of the proposed waterflood project? Yes, sir, it will. Â 0 Do you think that it is necessary to allow you to completely develop the project? A Yes, I do.

DEARNLEY, MEIER, WILKINS and CROWNOVER



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DEARNLEY, MEIER, WILKINS and CROWNOVER General Court Reporting Service

Phone 243-6691

New Mexico

Albuquerque,

Building

Suite 1120 Simms

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The configuration of the providential life to state that is will not a few a mate specific or the copy statebol or furnished with the application.

a Ketty at Gee

(whoreupon, applicant's Exhibit No. 1 was marked for identification.)

J - Theash refer to indicate and subline the proposed project and sublinease the injection relies and give the location of the wells.

A shibit 1 is an areal map about the area in excess of two-mile values of the subject unit. The unit boundary has been insurted, the red pencil, and the proposed injection well including the Continental well have been circled in red. The proposed unit injection wells would be wells identified as 9-1 located in the Northeast further of the Southerst quarter, Section 5, Tourship 16 South, Range 32 East; Well 44-1, located in the Southwest Quarter of the Forthwest Quarter, Section 4, Tourship 18 South,



Range 32 East; Well 4-2 located in the Northeast Quarter of the Northwest quarter, Section 4, Tourship 18 South, Range 32 East; Well 1-2 located in the Southwest Juarter of the Northeast Quarter, Section 5, Township 18 South, Range 32 East; and Well 3-1 243-6601 located in the Northeast Juarter of the Sortheast Quarter of Section 5, Township 18 South, Range 32 East. Phone (Whereupon, Applicant's Exhibit No. 2 was marked for identification.) New Mexico Referring to what has been marked Exhibit 2, would you 2 General Court Reporting Service outline the proposed pilot area? Exhibit 2 is also a map showing the unit boundary within Albuquerque, A the hashered line, the proposed pilot injection wells are wells encircled in a solid line and joined with a solid line. 3 Does this show the proposed plan of development? Building It shows the expanded plan of development wherein the A wells to be converted at a later date are encircled with a solid Suite 1120 Simms line and joined with a dashed line. This is also presented in Exhibit 4. Exhibit 4 being a large map? Q Being a larger map of Exhibit 2, yes. Â Q What zone do you propose to flood and what zone is covered by the unit agreement? We propose to flood the Queen zone, which is the middle A

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section of the Queen, and it is the zone unitized in the document unit agreement and is stipulated in the definition of the unitized formation.

Q Referring back to Exhibit 2, does it reflect the producing wells?

A Yes, it does. They are the wells conventionally designated with the well designation of the circle.

Q What is the general condition of the production from these wells at this time?

A Most of the wells are at or below economic limit, with the exception of two wells, the J. N. Beard Pearsall Federal 1 and the Jackson Federal No. 1. The Beard well is producing approximately ten barrels a day and the Jackson Federal is slightly below allowable. They were later-drilled wells in the reservoir and have not yet depleted that small section of the reservoir.

Q The Jackson well is located in the South Half of the Northeast Quarter of Section 4?

A That is true, and the Beard well in the Northwest of the Northeast of Section 4.

Q Mr. Riley, are there any floods in the immediate area?

A The only water injection program that to my knowledge is being conducted in the Maljamar Pool to the north some three or four miles.



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1	, now your study of the valler and your experience, do
	you feel that we terrisociting will be classified and will result in an
ł	increased withoute recovery is this area and provent waste?
71	A Mea, Muchould.
Phone 243-6691	g that type of water do you propose to inject, Mr. Ridey?
e 24	a Carplane contemptate star only to secure shallow water
Phon	production which should be collively brackish in the wit area.
	If weire unsuccessful we all purchase water from a unber company
exico	in the area.
Albuquerque, New Mexico) That quantities do you propose to inject?
ie, N	A We anticipate that the injection rate should be in the
nerqı	order of 500 barrels per well per day.
11buq	Q Did you furnish the office of the State Engineer with a
Y	copy of your application and have you heard from the State Engines
ling	concerning the application?
Building	A Yes, we did notify the State Water Orgineer and in a
smm	letter dated February 28, 1964, said letter being included in the
20 Si	exhibits as Exhibit 7, he approved our plan of operations.
Suite 1120 Simms	(Whereupon, Applicant's Exhi- bits Nos. 3 & 7 were marked for identification.)
	Q Plaasa refer to Exhibit 3 and outline your proposed cas-
	ing program.
	A Exhibit 3 is a diagrammatic sketch of the casing program

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and Wells 1-2, 3-1, 4-2 and 44-1 and 9-1 wherein it shows that the wells have approximately a thousand feet in excess of surface pipe with the exception of 9-1 and all wells have production strings to approximately 35 to 3600 feet. Our plan of injection 243-6601 is to utilize tubing and packer and to inject through these. ু Mr. Riley, please refer to what has been marked as Phone Exhibit A and identify that and state briefly what it reflects. Exhibit 8, excuse me. New Messico (Whereupon, Applicant's Exhi-General Court Reporting Service bit No. 8 was marked for identification.) Albuquerque, Exhibit 8 is a general waterflood application sheet Å carrying geological and engineering information on the proposed unit. Q What is the general depth of the area? Building A The general average depth of the top of the pay to be flooded is 3650 feet. Do you want me to give other information Simms from this exhibit or not? Suite 1120 Q You might give any reservoir characteristics that you might have. Average effective pay thickness has been estimated at Á 15 feet, with average porosity approximately 11%, average estimated horizontal permeability 15, with a range from 10 to 60; connate water content, 32% of pore space, gravity of the oil is 36 degrees



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	API and the viscosity is unknown.							
	The unit area has produced approximately 900,000 barrels of							
	oil to the date of the application and we anticipate that we will							
16	recover an equal amount under secondary recovery.							
243-6691	Q Ara there other proposed flood projects or pilot project							
e 24	in the area, Mr. Riley?							
Phone	A Continental Oil Company has tentatively entered into a							
	cooperative line agreement wherein they will convert that Pearsall							
exico	A. X. Federal Well No. 2, located in the Southwest of the Southwes							
New Mexico	of Section 33, Township 17 South, Range 32 East. This well is							
	contemplated to be as one of the six pilot injection wells.							
Albuquerque,	Q Do you have anything further that you wish to offer to							
Ibudi	the Commission concerning the ultimate recovery or the feasibility							
\boldsymbol{A}	of this project?							
ling	A No, I do not.							
Building	Q Nr. Riley, were what has been identified as Exhibits 1,							
	2, 3, 4 and 8 prepared by you or at your insistence and under your							
Suite 1120 Simms	instruction?							
e 112	A Yes, they were.							
Suit	Q Are Exhibits 5, 6 and 7 copies of letters which you							
	received?							
	A Yes, they are.							
	MR. JENNINGS: We would offer Exhibits 1 through 8.							

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Bardar and another of gradients of the second statements.
BRRATI Tes, dr.

in the project area that you have that you work work that the wolls in the project area that you have discoursed over stripper colls. I distant get the production digutes. So you have an everage production that they have been called, in the past?

A As story as arbitall 9, 3 betters the average daily of production per well to seven barrels, with the range that 3 nontioned previously of community battin browship to blightly below allowable for the one well in the southin algo of the reservoir.

12 Then good well was either this Jackson well or the Board

A gree lour work will, that is true. It was frilled approvimately four years ago and to the not, that such a subar of the reservoir her not been drained as yet.

G for you expect it to get a response from your flood?

A Counter think was



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		MR. DURRETT: I think that's all I have.
		BY MR. NUTTER:
		Q On Exhibit 8 you mentioned there were 14 producing wells
	Ibç	in the project area. Just which wells are those 147
ER	243-5691	A Referring to Exhibit 4, these would be the Yates State
CROWNOVER	те 2.	1 and 3, the Ambassador Federal AA, Tract 1-1 and 2, the Federal
NA	Phone	AA Tract No. 2, Well No. 1, the Reading and Bates Shaw Federal B-1,
RO	0	the Jackson Federal No. 1, the Beard Pearsall Federal No. 1 and
-	rvice Mexico	in Section 5, Ambassador Federal B, B-1 and 2, Federal C, C-1 and
WILKINS and	General Court Reporting Service g Albuquerque, New Me	2, D, D-1, E, E-1, F, F-2, 4-1 and the Shaw Federal No. 1. Is
KIN	portin que, 1	my count wrong there?
	l Court Report Albuquerque,	Q I had counted 17 previously and I get 17 again. I was
R, W	al Coi Albi	wondering, perhaps, if some of the wells off on the Northwest might
EY, MEIER,	Gener g	not be considered in the project area at this immediate time.
, M	G Building	A That is true.
LEY	to.	Q And was the reason they were left out.
DEARNL	Simm	A The wells I named were in the unit area, that's right, i
DEA	120	the project area there are 14.
Ţ	Suite 1120	Q What did you say the Beard Pearsall Federal
	S	A Approximately ten barrels to the best of my knowledge.
		And the Jackson is just slightly less?
		A Slightly less than allowable.
		Q How about your AA Tract 1 No. 2, that's going to be

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		15
		converted, what 's it capable of producing?
		A It's presently producing only about three barrols a day.
		Q With reference to the unit agreement, what percentage
	Ιb	of the working interest ownership did you say was committed?
5R	243-6691	A Slightly in excess of 76% , but $\%$ personally contacted
IAC	ne 24	each of the remaining working interest owners and they assured
CROWNOVER	Phone	everything was all right and it was just a matter of getting them
ROI		signed and sent back to us.
-	vice Mexico	Q So you expect to have 100% of the working interest?
an	ng Servid New M	A 100%, that is true.
WILKINS and	orting ue, N	Q Are there any foc lends in here?
ILK	t Rep Juerq	A No fae lands.
A	General Court Reporting Service g Albuquerque, New Me	2 Is injection in each instance to be down tubing over a
MEIER,	enera	packer?
ME	G suilding	A That's correct.
EY,	Щ	9 Or under a packar?
DEARNLE	Simms	A That is correct.
EAK	20 S	MR. NOTTER: Any further questions of Mr. Riley? He may
Ia	Suite 1120	be excused.
	Sui	(ditness excused.)
		MR. NUTTER: Did you have enything further, Mr. Jennings?
		BR. JEENINGS: We have nothing further.
		NR. HUTTER: Mr. Hellahin.

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MR. KELLAHIN: Yes, sir.

(Mercupon, Applicant's Exhibits Nos. 1 through 4 were marked for identification.)

VICTOR T. LYON

called as a witness, having been first duly sworn, testified as

follows:

DIRECT FRANTHATION

BY MR. KELLAHIN:

Q Would you state your name, please?

A Victor T. Lyon, L-y-o-n.

9. By whom are you employed and in what position?

A I am employed by Continental Oil Company as Senior Engineer in the Hobbs District Office, located in Hobbs, New Mexico.

Q Nave you ever testified before the Oil Conservation Commission and made your qualifications a matter of record?

A Yes, sir.

able?

MR. NUTTER: They are.

Q Are you familiar with the application of Continental Oil Company in 3006 which has been consolidated for the purposes of the hearing with Ambassador's Cases 3004 and 3005?



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A	Yes,	Ţ	an.
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Q What is proposed by Continental in this application?

A This is the application of Continental Oil Company for permission to inject water into our Pearsall A. X. Well No. 2 located 660 feet from the South line and 660 feet from the West line, Section 33, Township 17 South, Range 32 East, in Lea County, New Mexico.

Q Referring to what has been marked as Exhibit No. 1, would you identify that exhibit and discuss the information shown on it?

A Yes, sir. Exhibit No. 1 is a location and ownership plat showing the Ambassador Pearsall Queen Sand Unit which is outlined in green and Continental Oil Company's cooperative waterflood project area outlined in red. This area consists of all of Section 33 and the West Half of the Northwest Quarter of Section 34 in Township 17 South, Range 32 East. The proposed injection well, Pearsall A. X. Well No. 2 is circled in red.

Q Has the Pearsall area operated by Continental been unitized as yet?

A No, sir, this is a block of federal acreage which we have not unitized, but inasmuch as the federal government is the primary royalty owner we feel can be unitized in a short period of time when the unit is, when the project is ready to be expanded



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Now, referring to what has been marked as Exhibit No. 2, Q. would you identify that exhibit and discuss the information on it? Yes, sir. Exhibit No. 2 is a schematic diagram showing A the tubular goods employed in the woll and the cementing informa-Phone 243-6601 tion. It shows the depth of casing and the size and satting depths of the tubing and packer to be suployed. We propose to inject water into the open hole interval from 3439 to 3647 feet. Q Is that the same type of completion that will be used New Mexico by Ambassador in their portion of the injection program? Yes, sir, it is. A Will the packer be pressure tested? Q Albuquerque, A Yes, sir, it will be pressure tested before injection is commenced. Have you prepared some information sheets showing in-Q Building formation on the waterflood project? Yes, sir. Exhibit No. 3 is a data sheet showing es-A Suite 1120 Simms sentially the same information introduced by Ambassador in Case 3005. It has been modified to apply to our project area where this was necessary. I have added to this exhibit two sheets in addition to those submitted with the application which are decline curves of the pool area and of Continental project area and of the Pearsall A. X. Wells Nos. 1 and 2. At this time would you consider the area as substantially Q



DEARNLEY, MEIER, WILKINS and CROWNOVER General Court Reporting Service depleted on primary recovery?

A Yes, sir. Our proposed injection well is our best well and it has been producing approximately three barrels per day.

Q Referring now to what has been marked as Exhibit No. 4, would you discuss that exhibit, please?

A Exhibit No. 4 is a location and ownership plat showing in greater detail the project area. The proposed injection wells are shown by the red triangles and are connected by solid lines. The possible expansion of the project shows the possible injection wells by the triangles and connected by dashed lines.

0 Is that exhibit in agreement with the proposal that was submitted by Ambassador?

A It is so far as the injection wells are concerned. I'd like to point out that there are two instances where the Ambassador unit boundary is in error in that.

Q You mean in error on your exhibit or their exhibit?

A On our exhibit. On this Exhibit No. 4. The draftsman had not made this change when I came up here, but it shows, well, it should be corrected by adding the Southeast Quarter of the Northeast Quarter of Section 4 and the Southwest Quarter of the Southeast Quarter of Section 5. This would make it agree with our Exhibit No. 1 and Ambassador's exhibits.

Q Have you anything further to add to your testimony, Mr.



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Lyon? 1963.0 A ative projects of the consolidate to the state be the constraint of all of an and an and a second of a 12 4 Antoberry - 1 - E and the second second second second Achassadortr 14. plately worked an durate de-(1) Must assume that is a general sector of the sector of the sector. repard to the summation of White percenses of the recoveries of b Light be opported you't maly to your complete of the project test. vould it not? Å Yess, Str. The general sector of the sect : } permittated by the first structure care was a star for the 2013 2019 á, Yes, so the tore "Arthing Conservation", Another the procession by you as theat could share the AY. 结。 新教, 自由 (g · · · • 12. Refighter to the second could fitter as a second coavidence Schibite + these de t. 海县 走得到到 门口 计强度 外方法 $\{ (1), 7\}$ 000

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EY, MEIER, WILKINS and CROWNOVER			MR. MELLAHIN: That completes the direct examination of
			the witness.
			MR. NUTTER: Any questions of Mr. Lyon?
	č	16	MR. IRBY: Frank Irby, State Engineer's Office.
		243-0091	AR. NUTTER: Mr. Irby.
			CROSS SXALLIATION
	Ì	Phone	BY MR. IRBY:
			Q When you expand this, Nr. Lyon, will the well construc-
	9	Mexico	tion and equipment on the additional wells used for injection be
	Service	New N	the same as in this Pearsall A. X. No. 2?
INE	orting		A I think essentially they will be the same. To my
ILK	t Rep	luerq	knowledge we will inject through tubing under a packer.
A à	l Cour	Albuquerque,	Q And this, if this isn't the case, you will notify me?
IER	General Court Reporting		A Yes, sir.
ME	0	Building	Q Please. I believe that Ambassador said they were going
EY,			to use lined tubing, is this true in your case?
		Simms	A I'm not certain of that, Mr. Irby. It probably will
DEARNI			depend on the quality of water that will be available. To my
IQ		Suite 1120	knowledge we don't have any present plan of using lined tubing.
		Sui	Q You do intend to recircle any produced water, do you not
			A Yes, sir. In the event of water breakthrough and con-
			tinued operation, we will almost certainly use the produced water
			for injection purposes.
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		MR. IRBY: Thank you.						
	BY MR. NUTTER:							
243-6691	୍ଦୁ	On your data sheat you showed four wells in the project						
	area, which would those four producing wells be?							
	A	These are the total producing wells from this pool in						
e 24.	the project area and that includes the Pearsall A. X. Wells No. 1							
Phone	and 2, and the Pearsall A Numbers 9 and 10. Those wells are							
Mexico	located in Units E, F, L and M, Section 33.							
	Q	Is it your intent to reenter and examine No. 3?						
	A	Yes, sir. We anticipate that we will reenter No. 3 with						
e, New	in 60 to 90 days after the commencement of water injection in No.							
nerqu	2.							
Albuquerque,	Q	Has that well actually been pluggud?						
Suite 1120 Simms Building A	A	I don't believe so.						
	Q	Dees it have casing in it?						
	A	I believe it does. I have a report here that should						
	give me the answer.							
	Q	You might look up 16 while you are at it.						
	A	I'm not certain of the casing program in those two wells						
Suit	but I believe that the casing is still in place.							
	Q	Do you know if either one of those two wells has pro-						
	duced in	the past?						
	A	Yes. I'm not certain that this is given in here, but						

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General Court Reporting Service



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it's my understanding that Ho. 3 has produced and Ho. 16 was abandoned after testing. On complation? ୁ It was drilled at an early date and was before we had A Phone 243-6691 available stimulation methods that are available today, and it did not produce. You ultimately plan to use Ho. 16 as an injection well, 0 don t you? New Mexico Yes, sir. А General Court Reporting Service It's our pattern? Q Albuquerque, Yes, sir. Α At any rate, prior to putting No. 3 and No. 16 in opera-Q tion a casing program similar to the injection --А Excuse me. Suite 1120 Simms Building --injection Well No. A. X. 2 would be utilized, is that a Q fair assumption to make? I found the information that you requested, Mr. Nutter, A 2,612 feet of 7" casing has been pulled from Pearsall A. X. No. 3. Prior to injecting we will adequately case the well either with a full length casing string or with a casing bowl so that the casing will be adequate. Well No. 3 will be a producing well. How about No. 16, Q do you have the data on it?

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PAGE 23

PAGE 24 Yes, sir. Surface casing only was set in No. 16, and A it has been plugged with what appears to be an acceptable plugging program which we normally use with the Commission's consent. will have to be redrilled or the plugs drilled out and casing set. Phone 243-6691 DEARNLEY, MEIER, WILKINS and CROWNOVER MR. MUTTER: Thank you. Are there any other questions of Mr. Lyon? He may be excused. (Witness excused.) MR. NUTTER: Do you have anything further, Mr. Kellahin? Albuquerque, New Mexico General Court Reporting Service MR. KELLAHIN: Nothing further. MR. NUTTER: Does anyone have anything they wish to offer in Case 3004, 3005 or 3006? We will take the cases under advisement and recess the hearing until 1:30. (Whereupon, a recess was held until 1:30 P.M.) Suite 1120 Simms Building



DEARNLEY, MEIER, WILKINS and CROWNOVER General Court Reporting Service Suite 1120 Simms Building Albuquerque, New Mexico Phone 243-6691	STARE OF MEDIAGED) SS SOLLEY OF DEPENDENTED) I, ADA DEARMENT, Court Reporter, do haroby cartify that the foregoing and attached transcript of proceedings before the how Hexico Oil Conservation Commission at Sente Ce, New Mexico, is a true and correct record to the best of my knowledge, skill and ability. IN WITHERS WHEREOF I have affixed my hand and notarial seal this 3rd day of April, 1964.
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BEFORE THE OIL CONSERVATION COMMISSION

STATE OF NEW MEXICO

IN THE MATTER OF THE APPLICATION OF AMBASSADOR OIL CORPORATION FOR THE APPROVAL OF THE PEARSALL QUEEN SAND UNIT AND WATERFLOOD PROJECT, LEA COUNTY, NEW MEXICO

NO. 3005-

APPLICATION FOR APPROVAL OF

PRARSALL QUEEN SAND UNIT AND SATERFLOOD PROJECT

Comes now the applicant, Ambassador Oil Corporation, whose address is Box 9336, Fort Worth, Texas, and files herewith three copies of the proposed Unit Agreement for the development and operation of the Unit Area of the Pearsall Queen Sand Unit and hereby makes application for approval of said Unit as provided by law and for further approval of a Waterflood Project pursuant to Rule 701 of the Rules and Regulations of the Commission and in support thereof states:

1. That the Unit Area covers the following described land in Les County, New Mexico, to-wit:

Township 17 South, Range 32 East, N.M.P.M.

section 32: SEA, EASWE

Township 18 South, Range 32 Cast, N.M.P.M.

Section 4: ShNEX, Nahneh, Nah Section 5: NE4, Ehswig, Ehswig, Wisself, NE4SEh

containing 960 acres, more or less.

2. That all of the lands embraced in the Unit Area are federal lands except the SEX and the E4SW4 of Section 32, Township

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17 south, Range 32 Bast, containing 240 acres, which is State land.

3. That the applicant, Ambassador Oil Corporation, is designated as Unit Operator in the Unit Agreement and, as such, is given the authority under the terms thereof to carry on the operations for the discovery, development and production of the unitized substances.

4. That the Unit Agreement is in Substantially the same form as Unit Agreements heretofore approved by the Commissioner of Public Lands of the State of New Mexico, the New Mexico Oil Conservation Commission and the United States Geological Survey. It is believed that the secondary recovery operations can be more economically and efficiently carried on under the terms of said Agreement to the end that the maximum recovery will be obtained and that the Unit Agreement is in the interest of conservation of oil and gas and the prevention of waste as contemplated by the statutes of the State of New Mexico.

5. That application is being made to the Commissioner of Public Lands and the United States Geological Survey for the approval of the Unit Agreement.

6. That in excuss of 80% of the working interest owners have heretofore executed the Unit Agreement and the Agreement provides that any party owning rights in the unitized substance who does not commit such rights to the Unit Agreement before the effective date thereof may thereafter become a party by subscribing to such Unit Agreement or by ratifying the same as provided by the terms of the said Agreement.

- 2 -

7. That the proposed Unit will lead to a more efficient and orderly development and operation of the Waterflood Project proposed by the applicant in the Unit Area and is necessary to allow the applicant to completely develop and operate the Waterflood Project.

8. That within 30 days after the effective date of the Fearsall Queen Sand Unit Agreement, the applicant will file with the Commission an executed or original counterpart of the Agreement, and in the event of a subsequent joinder of any party or expansion or contraction of the Unit Agreement, as provided by the terms thereof, the Unit Operator will file with the Commission within 30 days thereafter counterparts of the Unit Agreement reflecting the subscription of those interests having joined or ratified.

9. Applicant desires to initiate a Waterflood Project to inject fresh water into existing wells on the following described tract within the Unit Area:

MELL NUMBER

LOCATION

\$-1	NE4684 Sec. 5, T-18-8, R-32-E
5-1 4a-1	SWANWA Sec. 4, T-18-S, R-32-E
4-2	NE-1NIA Sec. 4, T-18-3, R-32-F
1-2	stigned sec. 5, T-18-S, R-32-P
3-1	NEWNEZ SOC. 5, T-18-6, X-32-F

10. That all of the wells in the Unit Area have reached an advanced stage of depletion and are stripper wells.

11. That applicant feels that waterflooding the Queen Sand is feasible and that flooding will result in the increased ultimate recovery of oil and will, therefore, prevent waste.

- 3 -
12. That in support of said Application and in accordance with the provisions of Rule 701, applicant submits herewith the following exhibits:

> Exhibit A - a plat showing the location of the proposed injection wells and the location of all other wells and leases within a two mile radius

Exhibit B - a plat showing proposed injection wells, Unit Area, proposed Pilot Area, injection well locations and development program

Exhibit C - Injection Well Casing Program

13. Applicant proposes to inject fresh water into the Queen Sand at an approximate depth of 3650 feet and to inject approximately 500 harrels per well per day of water to be developed at the location or purchased from a public utility, which water will be commingled with produced water.

WHEREFORE, applicant requests the Commission set this down for hearing before an examiner at an early date, publish the notice required by law and, after hearing, issue its Order:

1. Approving the Pearsall Queen Sand Unit Agreement.

2. Authorizing the Waterflood Project covering the

lands embraced in the Unit Agreement.

3. Establishing rules for the operation of the flood within the area and for administrative expansion and of conversion of additional wells to water injection wells.

> Respectfully submitted, AMBASSADOR OIL CORPORATION

mn James T. Jeanings Attorney for Applicant P. O. BOX 1180

Roswell, New Mexico

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AMEASSADOR OIL CORPORATION - PEARSALL QUEEN SAND UNIT

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OIL CONSERVATION COMMISSION P. O. BOX 871 SANTA FE, NEW MEXICO



March 18, 1964

Mr. James T. Jennings Attorney at Law Post Office Box 1180 Roswell, New Maxico

Dear Sir:

Enclosed herewith is Commission Order No. R-2672, entered in Case No. 3005, approving the Ambassador Pearsall Queen Unit Waterflood Project.

According to our calculations, when all of the authorized injection wells have been placed on active injection, the maximum allowable which this project will be eligible to receive under the provisions of Rule 701-E-3 is 630 barrels per day.

Please report any error in this calculated maximum allowable immediately, both to the Santa Pe office of the Commission and the appropriate district proration office.

In order that the allowable assigned to the project may be kept current, and in order that the operator may fully benefit from the allowable provisions of Rule 701, it behooves him to promptly notify both of the aforementioned Commission offices by letter of any change in the status of wells in the project area, i.e., when active injection commences, when additional injection or producing wells are drilled, when additional wells are acquired through purchase or unitization, when wells have received a response to water injection, stc.

OIL CONSERVATION COMMISSION P. O. BOX 871 SANTA FE, NEW MEXICO

-2-Mr. James T. Jennings

Your cooperation in keeping the Commission so informed as to the status of the project and the wells therein will be approciated.

Very truly yours,

A. L. PORTER, Jr. Secretary-Director

ALP/ir

Inclosure

cc: Mr. Jason Mellahin

Oil Conservation Commission Hobbs, New Mexico

BEFORE THE OIL CONSERVATION COMMISSION OF THE STATE OF HEW MEXICO

IN THE MATTER OF THE HEARING CALLED BY THE OIL CONSERVATION COMMISSION OF NEW MEXICO FOR THE PURPOSE OF CONSIDERING:

> CASE No. 3005 Order No. R-2672

APPLICATION OF AMBASSADOR OIL CORPORATION FOR A WATERFLOOD PROJECT, LEA COUNTY, NEW MEXICO.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 o'clock a.m. on March 11, 1964, at Santa Fe, New Mexico, before Examiner Daniel S. Nutter.

NOW, on this 18th day of March, 1964, the Commission, a quorum being present, having considered the testimony, the record, and the recommendations of the Examiner, and being fully advised in the premises,

FINDS:

(1) That due public notice having been given as required by law, the commission has jurisdiction of this cause and the subject matter thereof.

(2) That the Pearsall Queen Sand Unit Agreement has been approved by the Commission by Order No. R-2669; that the Pearsall Queen Sand Unit Area comprises 960 acres, more or less, of State and Federal land in Townships 17 and 18 South, Range 32 East, NMPM, Lea County, New Mexico, as more fully described in said order.

(3) That the applicant, Ambassador Oil Corporation, seeks permission to institute a waterflood project in the Pearsall (Queen) Pool in the Pearsall Queen Sand Unit Area by the injection of water into the Queen formation through five wells located within said unit area.

(4) That the project area is in an advanced state of depletion and the majority of the wells therein should properly be classified as "stripper" wells.

(5) That the proposed waterflood project is in the interest of conservation and should result in recovery of otherwise unrecoverable oil, thereby preventing waste. -2-CASE No. 3005 Order No. R-2672

(6) That the subject application should be approved and the project should be governed by the provisions of Rule 701 of the Commission Rules and Regulations.

IT IS THEREFORE ORDERED:

(1) That the applicant, Ambassador Oil Corporation, is hereby authorized to institute a waterflood project in the Pearsall (Queen) Pool in the Pearsall Queen Sand Unit Area by the injection of water into the Queen formation through tubing and packer set immediately above the pay zone in the followingdescribed five wells:

TOWNSHIP 18 SOUTH, RANGE 32 EAST, NMPM LEA COUNTY, NEW MEXICO

Section 4

Well No. 4A-1, located in the SW/4 MW/4 Well No. 4-2, located in the NE/4 NW/4

Section 5

Well No. 1-2, located in the 3W/4 NE/4 Well No. 3-1, located in the NE/4 NE/4 Well No. 9-1, located in the NE/4 SE/4

(2) That the subject waterflood project shall be governed by the provisions of Rule 701 of the Commission Rules and Regulations, including the allowable provisions thereof, and including the provisions with respect to expansion of the waterflood project.

(3) That monthly progress reports of the waterflood project herein authorized shall be submitted to the Commission in accordance with Rules 704 and 1119 of the Commission Rules and Regulations.

(4) That jurisdiction of this cause is retained for the entry of such further orders as the Commission may deem necessary.

DONE at Santa Fe, New Mexico, on the day and year hereinabove designated.



STATE OF NEW MEXICO OLL CONSERVATION COMMISSION

NOUL M. CAMPBELL, Chairman

Member WALKER Ε. ĽЛ

Member & Secretary

Page 1. 4-12-63

T18S-R32E 3B	T18S-R32E 3A	T18S-R32E .3		TRACT NO.	
Section 5: NE/4 SW/4	Section 5: Lot 3 (NE/4 NW/4)	Section 5: S/2 NE/4	Federal Lands	DESCRIPTION	
40	40	80	Lands	NUMBER OF ACRES	
LC-029403(B) 11-1-61	LC-029403(B) 11-1-61	LC-029403(A) 12-1-59		SERIAL NO.& LEASE DATE	LEA (
12½%	12½%	1 2½% - 25%		BASIC RCYALTY	LEA COUNTY, NEW MEXICO
Hugh L.Johnson Jr. & Roy H. Smith	Hugh L.Johnson Jr. & Roy H. Smith	Roy H.Smith & Hugh L. Johnson Jr., d/b/a Roy H.Smith Drilling Co.		LESSEE OF RECORD	MEXICO
Subject to the \$110,000.00 and \$25,000.00 PP described under Tract 3 above.	Subject to the \$110,000.00 and \$25,000.00 PP described under Tract 3 above.	 M. E. Baish - 1½% Martin Yates III - 1 % Irene E. Walker - 2½% William E.Walker - 1½% Elaine M. Walker - 1½% \$110,000.00 PP out of 25% of the WI to Roy H. Smith. After payout of above PP a \$25,000.00 PP shall commence out of 12½% of the WI to Roy H. Smith. 		OVERRIDING ROYALTY OWNER AND AMOUNT	
Ambassador Oil Corporation - 100% (to 5,000 ft.)	Ambassador Oli Corporation - 100% (to 5,000 ft.)	Ambassador Oil Corporation - 100% (to 5,000 ft.)		WORKING INTEREST OWNER AND AMOUNT	

EXHIBIT "B" PEARSALL QUEEN SAND UNIT

11 	TRACT NO.
2E Section 5. Lots 1 & 2 (N/2 NE/4)	DESCRIPTION
о С	NUMBER OF ACKES
LC-061155(A) 12-1-59	SERIAL NO.& LEASE DATE
1 2½% - 25%	E PEARSALL QUE LEA COUNTY, BASIC ROYALTY
Frank Brock & R. T. Brock d/b/a Brock Drilling Company	EXHIBIT "B" - (Cont) PEARSALL QUEEN SAND UNIT LEA COUNTY, NEW MEXICO BASIC LESSEE OF ROYALTY RECORD
M. F. Baish - $1\frac{1}{2}$ % Martin Yates III - 1 % Irene E. Walker - $2\frac{1}{2}$ % Wm. E. Walker - $1\frac{1}{2}$ % S66,000.00 PP out of 25% of the WI to: 1/2 - Frank Brock 1/2 - Frank Brock After payout of above PP a \$14,000.00 PP shall commence out of $12\frac{1}{2}$ % of the WI to: 1/2 - Frank Brock 1/2 - Frank Brock	OVERRIDING ROYALTY CWNER AND AMOUNT
Ambassador Oil Corporation - 100% (To base of Queen Sand)	WORKING INTEREST OWNER AND AMOUNT
	 K32E Section 5. K30 LC-061155(A) 12½% Frank Breek & R. T. M. E. Baish - 1½% Ambassa Drilling Company Martin Yates III - 1 % Corpor Uran E. Walker - 1½% Corpor Handrin Walker - 1½% M. E. Walker - 1½% Corpor Urane E. Walker - 1½% S66,000.00 PF out of 25% of the WI to: 1/2 - Frank Breek Ambassa Martin Yates III - 1 % Corpor M. E. Walker - 1½% Corpor M. E. Walker - 1½% K. T. Breek M. E. Walker - 1½% M. E. Walker - 1½% M. E. Walker - 1½% S66,000.00 PF out of 25% S65 a St4,000.00 PF shall Commence out of 12½% of the WI to: 1/2 - Frank Breek M. E. Walker - 1½% M. E. Baish - 1½% M. E. Walker - 1½% M. E. Walker - 1½% M. E. Baish - 11% M. E.

7085 N 12#		1168 - 8529 5 A		RACT
Section 4 SE/2 NW/4	Sketten 1. S/2 NE/4	5-6110 - 4. 377/4_N5/4	Sw/4 NW/4	DE 50 RUE DIN
40 0	80	0 2	r C	NUMBER OF ACRES
1.C+060503 11+1+60	1.0-061840 11+1-60	10 061840(A) 11~1~60	10 063345 11 1 60	SERIAL NO.8 JEASE DATE
Schedule "D"	Schedule "C"	Schedule "D"	Schedule "B"	BASIC ROYALTY
Virginta Woods Shaw	и М. 1908 800	Rington Oil Company	Frail Brock B. T. Brock Altred Funter Viller, Executor of Estate of Alpha McAtee, Deceased	LESSEE OF EFCORD
Virginia Woods Shaw - 5%	Buffale Perroleum Corporation · 5% South Central Enterprises · 5%	Buffilo Perroleum Corporarion 57	Subject to the sime - Ambassidor O: \$99,000-00 and \$21,000-00 Corporation PP as described under - (To base of Tract 5	OVERRIDING ROYALTY OWNER AND AMOUNT
Reading & Bates Inc 100%	8. M. J. ackson 100%	<pre>Mintex 011 50% Beard 011 Co. 25% F.W Polloway: 3t 13:3/4% E.K.Monson 5% K.V. Dabl 2-1/12% Janico Lee Ballard Anderson 4:1/6%</pre>	Ambassidor 0.1 00 Corporation (To base of Queen Sand)	WORKING INTEREST OWNER AND AMOUNT

1/9/64

EXHIBIT "B" - (Cort) PEARSALL QUEEN SAND UNIT LEA COUNTY NEW MEXICO

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Page 4. Rev. 1/9/64.

1188.R32E Section 5: 9 NE/4 SE/4		(165 R32E Section 5: 8 SE/4 SW/4. & W/2 SE/4	[145:R32E Section 5: 7 SE/4 NW/4	TRACT ACL DESCRIPTION	
6 6		120	40	NUMBER OF ACRES	
LC-061153 12-1-59		LC~064098 12-1-59	NM+016795 2~1+55	SERIAL NO. & LEASE DATE	
Schedule "C"		Schedule "C"	Schedule "B"	BASIC ROYALTY	
Virginia Woods Shaw	Su	C. N. Ochiltree	Amhassador Oil Corporation	LESSEE OF	LEA COUNTI, NEW PEATON
<pre>M. E. Baish L¹₂% Martin Yates III 1 % Irene E. Walker 2¹₂% Elaine M.Walker 1~1/4% Wm. E. Walker 1~1/4% Virginia Woods Shaw 5% (to 5,000 ft.)</pre>	Subject to the \$110,000.00 and \$25,000.00 PP described under Tract 3 above.	M. E. Saish $1\frac{1}{2}$ % A Martin Yates III 1 % Irene E. Walker $2\frac{1}{2}$ % Wm. E. Walker 1-1/4% Elaine M. Walker 1-1/4%	None	OVERRIDING ROYALIY	
Ambassador Oil Corp 100% (to 5.000 ft.) /4%) and under	Ambassador Oil Corp. 100% (to 5,000 ft.) '4% '4%	Ambassador Oil Corp. 100% (to 5,000 ft.)	WORKING INTEREST	

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EXHIBIT "B" - (Cont) PEARSALL QUEEN SAND UNLI LEA COUNTY, NEW MEXICO

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1175-R32E 14	J17S-R32E 13	T17S-R32E 12	T17S-R32E 11	1175-R32E 10	State	IRACE NO.	
Section 32: SW/4 SE/4	Section 32: SE/4 SE/4	Section 32: NW/4 SE/4	Section 32: NE/4 SE/4	Section 32: NE/4 SW/4	e Lands	DESCRIPTION	
40	40	40	40	40		OF ACRES	NIIMEFR
в-6768	B-6768	B-6768	8-6768	B-6768		SERIAL NO. & LEASE DATE	
12 <u>1</u> %	12 <u>1</u> %	12 <u>1</u> %	12 <u>1</u> %	$12\frac{1}{2}\%$		BASIC RUYALTY	EXHIBIT "B" PEARSALL QUE LEA COUNTY,
Yates Petroleum Corp.	Yates Petroleum Corp.	Yates Petroleum Corp.	Yates Petroleum Corp.	Yates Petroleum Corp.		LESSEE OF RECORD	EXHIBIT "B" - (Cont) PEARSALL QUEEN SAND UNIT LEA COUNTY, NEW MEXICO
Selina R e ese Yates Б ro s.	C.H. Malout Yates Bros.	Claude Johnston Yates Bros.	Laura G. Brown Yates Bros.	Ada M. Trostel Yates Bros.		OVERRIDING ROYALIY OWNER AND AMOUNT	
3% 4.1666%	3% 4.1666%	3% 4.1566%	3.125% 4.1667%	3% 4.1666%			
S.P. Yates 28.1667% Díxon & Yates 28.1667% Yates Petroleum Corporation 24%	S.P. Yates 28.1667% Dixon & Yates 28.1667% Yates Petroleum Corporation 24%	S.P. Yates 28.1667% Dixon & Yates 28.1667% Yates Petroleum Corporation 24%	S. P. Yates 28.125% Dixon & Yates 28.125% Yates Petroleum Corporation 23.9583%	S.P. Yares 24% Dixon & Yates 28.1667% Yates Petroleum Corporation 28.1667%		WORKING INTERESI OWNER AND AMOUNT	

Page 5. Rev. 1/9/64 Rev. 2/4/64

T1/S-R32E Section 32: 1" SE/4 SW/4 TRACT NO **Page 5.** 4-12-63 Rev. 1/9/64/ Bev 9=20=63 DESCRIPTION NUMBER OF ACKES 40 SERIAL NO.& LEASE DATE 0G-5119 2-17-59 EXHIBIT "B" - (Cont) PEARSALL QUEEN SAND UNIT LEA COUNTY, NEW MEXICO BASIC ROYALTY 122% Gulf Oil Corporation LESSEE OF RECORD Notes OVERREDING KOYALTY OWNER AND AMOUNT Ambassador Cul Corporation 100% WORFING INTEREST

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Page 7 Rev. 1/9/64.

EXHIBIT "B" - (Cont) PEARSALL QUEEN SAND UNIT LEA COUNTY, NEW MEXICO

TOTALS

12 Federal Tracts 5 State of New Mexico Tracts 240 721,69 Acres Acres 24,96% of Unit Area 75.04% of Unit Area

961.69 Acres

100% of Unit Area

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Rev. 9-23-63	6	œ	7	6	ъ	5A	4A	4	ω	2A	2	1	TRACT NO.
Rev/9/64	NE/4 SE/4 Sec. 5 T18S R32E	SE/4 SW/4 & W/2 SE/4 Sec. 5 T18S R32E	SE/4 NW/4 Sec. 5 T18S R32E	SE/4 NW/4 Sec. 4 T18S R32E	S/2 NE/4 Sec. 4 T18S R32E	N/2 NE/4 Sec. 4 T18S R32E	SW/4 NW/4 Sec. 4 T18S R32E	Lots 3&4 (N/2 NW/4) Sec. 4 T18S R32E	Lots 162 (N/2 NE/4) Sec. 5 T18S R32E	NE/4 SW/4 Sec. 5 T18S R32E	Lot 3 (NE/4 NW/4) Sec. 5 T18S R32E	S/2 NE/4 Sec. 5 T18S R32E	DESCRIPTION
	LC-061153 12-1-59	LC-064098 12-1-59	NM-016795 2-1-55	LC-060503	LC-061840 11-1-60	I.C-061840(A) 9-22-39	LC-063345 11-1-60	LC-063345 11-1-60	LC-061155(A) 12-1-59	LC-029403(B) 11-1-61	LC-029403(B) 11-1-61	LC-029403 (A) 12-1-59	SERIAL NO.& LEASE DATE
	-0-	0.796097	0.379501	7,810969	43,182348	21.833242	-0-	8.458948	0.624893	7.944053	4.150530	2.847724	PHASE I - PERCENT TRACT PARTICIPATION IN UNIT
	1.318795	4 . 283037	1.766453	6.906015	7.822372	6.506314	5,018021	23.454551	11.749836	4.083941	3.165215	13,152701	PHASE II - PERCENT TRACT PARTICIPATION IN UNIT

EXHIBIT "C" PEARSALL QUEEN SAND UNIT LEA COUNTY, NEW MEXICO

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SCHEDULE OF UNII PARTICIPATION

EXHIBIT "C" - (Cont) PEARSALL QUEEN SAND UNIT LEA COUNTY, NEW MEXICO

SCHEDULE OF UNIT PARTICIPATION

15	14	13	12	11	10	IRACT_NO.
SE/4 SW/4 Sec. 32 T17S R32E	SW/4 SE/4 Sec. 32 T17S R32E	SE/4 [°] SE/4 Sec. 32 I17S R32E	NW/4 SE/4 Sec. 32 T17S R32E	NE/4 SE/4 Sec. 32 T17S R32E	NE/4 SW/4 Sec. 32 T17S R32E	DESCRIPTION
OC-5119 2-17-59	B-6768	E-6768	B-6768	E-6768	E∞6768	SERJAL NO. & LEASE DATE
-0-	-0-	+0-	0.710496	1.261199	-0-	PHASE I - PERCENT TRACT PARTICIPATION IN UNIT
0.812153	0.520834	0.520834	2.686547	5.711548	0.520833	PHASE II - PERCENI IRACI PARIICIPATION IN UNII

Page 2 Rev. 1/9/64.

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EXHIBIT "C" (Cont) PEARSALL QUEEN SAND UNIT LEA COUNTY: NEW MEXICO

SUMMARY OF WORKING INTEREST UNIT PARTICIPATION

	TOTAL PARTICIE	ATION IN UNIT
	PHASE 1	PHASE 11
Ambassador Oil Corporation	25.201746	68-804703
Janice Lee Ballard Anderson	0.909718	0.271096
John M. Beard	5 458311	1.626579
K. V. Dahl	0.454859	0.135548
Dixon & Yates	0 691355	3.495563
F. W. Holloway, Jr.	3 002071	0.894618
B. M. Jackson	43.182348	7.822372
Minntex Oil Company	10.916621	3.253157
E. R. Monson	1.091662	0.325316
Reading & Bates, Inc.	7.810969	6.906015
S. P. Yates	0.588985	2.975470
Yates Petroleum Corporation	0.691355	3,495563

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Page 3

Revised 1/9/64.

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UNIT AGREEMENT

PEARSALL QUEEN SAND UNIT

Lea County, New Mexico

- Clar 3005-

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	EXHIBIT "B" (Schedule of Ownership)	

EXHIBIT "B" (Schedule of Ownership) EXHIBIT "C" (Schedule of Unit Participation)

UNIT AGREEMENT FOR THE DEVELOPMENT AND OPERATION OF THE PEARSALL QUEEN SAND UNIT Lea County, New Mexico

THIS AGREEMENT, entered into as of the _____ day of _____, 1963, by and between the parties subscribing, ratifying or consenting hereto, and herein referred to as "Parties Hereto",

NO._

WITNESSETH:

THAT, WHEREAS, the parties hereto are the owners of working, royalty or other oil or gas interests in the Unit subject to this Agreement; and,

WHEREAS, the Commissioner of Public Lands of the State of New Mexico is authorized by an Act of the Legislature (Sec. 3, Chap. 88, Laws 1943 as amended by Sec. 1 of Chap. 162, Laws of 1951, Chap. 7, Art. 11, Sec. 39, N.M.S. 1953 anno) to consent to or approve this Agreement on behalf of the State of New Mexico, insofar as it covers and includes lands and mineral interests of the State of New Mexico; and,

WHEREAS, the Commissioner of Public Lands of the State of New Mexico is authorized by an Act of the Legislature (Sec. 3, Chap. 88, Laws of 1943, as amended by Sec. 1, Chap. 162, Laws of 1951, Chap. 7, Art. 11, Sec. 41, N.M.S. 1953 anno) to amend with the approval of the lessee, any oil and gas lease embracing State lands so that the length of the term of said lease may coincide with the term of such unitized development and operation of State lands; and,

WHEREAS, the Oil Conservation Commission of the State of New Mexico is authorized by law (Chap. 72, Laws of 1935, as amended by Chap. 193, Laws of 1937, Chap. 166, Laws of 1941, and Chap. 168, Laws of 1949) to approve this Agreement, and the conservation provisions hereof; and,

WHEREAS, the Mineral Leasing Act of February 25, 1920, (41 Stat. 437, as amended, 30 U.S.C. Sections 181 et seq.) authorizes Federal lessees and their representatives to unite with each other or jointly or separately with others in collectively adopting and operating a cooperative or unit plan of development or operation of any oil or gas pool, field or like area or any part thereof for the purpose of more properly conserving the natural resources thereof whenever determined and certified by the Secretary of the Interior to be necessary or advisable in the public interest; and, WHEREAS, the parties hereto hold sufficient interests in the Pearsall Queen Sand Unit covering the land hereinafter described to give reasonably effective control of operation therein; and,

WHEREAS, it is the purpose of the parties hereto, to enable institution and consummation of secondary recovery operations, conserve natural resources, prevent waste and secure the other benefits obtainable through development and operation of the area subject to this Agreement under the terms, conditions and limitations herein set forth.

NOW, THEREFORE, in consideration of the premises and the promises herein contained, the parties hereto commit to this Agreement their entire respective interests in the below defined Unit Area, and agree severally among themselves as follows:

SECTION 1. ENABLING ACT AND REGULATIONS. The Mineral Leasing Act of February 25, 1920, as amended, supra, and all valid, pertinent regulations, including operating and unit plan regulations, heretofore issued thereunder and valid, pertinent and reasonable regulations hereafter issued thereunder are accepted and made a part of this Agreement as to Federal lands, provided such regulations are not inconsistent with the terms of this Agreement; and as to non-Federal lands, the oil and gas operating regulations in effect as of the effective date hereof governing drilling and producing operations, not inconsistent with the terms hereof or the laws of the State in which the non-Federal land is located, are hereby accepted and made a part of this Agreement.

SECTION 2. UNIT AREA AND DEFINITIONS. For the purpose of this Agreement, the following terms and expressions as used herein shall mean:

(a) "Unit Area" is defined as those lands specified on Exhibit "A" hereof, and such land is hereby designated and recognized as constituting the Unit Area; the lands described in said Exhibit "A" are described as:

NEW MEXICO PRINCIPAL MERIDIAN, NEW MEXICO

LEA COUNTY, NEW MEXICO

T-18-S, R-32-E

Sec. 4: NW/4; S/2 NE/4 & NW/4 NE/4 Sec. 5: NE/4; N/2 SE/4; SW/4 SE/4; E/2 SW/4; E/2 NW/4

<u>T-17-S, R-32-E</u>

Sec. 32: SE/4; E/2 SW/4

and containing 961.69 acres, more or less.

(b) "Commissioner" is defined as the Commissioner of Public Lands of the State of New Mexico

(c) "Commission" is defined as the Oil Conservation Commission of the State of New Mexico

(d) "Director" is defined as the Director of the United States Geological Survey

(e) "Secretary" is defined as the Secretary of the Interior of the United States of America.

(f) "Department" is defined as the Department of the Interior of the United States of America.

(g) "Supervisor" is defined as the Oil and Gas Supervisor of the United States Geological Survey.

(h) "Queen Sand" is defined as and shall mean that heretofore established underground reservoir, a member of the Guadalupe Series, a part of the Permian System, which is found from 3655 to 3693 feet, in the John M. Beard Pearsall Federal #1 Well, located in the Northwest Quarter of the Northeast Quarter (NW/4 NE/4) of Section 4, Township 18 South, Range 32 East, Lea County, New Mexico, N.M.P.M.

(i) "Unitized Formation" is defined as that portion of the Queen Sand plus the immediate ninety seven foot interval below effectively committed to this Agreement.

(j) "Unitized Substances" is defined as and shall mean all of the oil and gas contained in or produced from the Unitized Formation.

(k) "Current Production Rate" is defined as that rate of production of the Unitized Substances, in standard 42 gallon U.S. barrels, between 7:00 A.M. April 1, 1963; and 7:00 A.M. October 1, 1963; (as determined by the Commission's monthly reports, Form C-115).

(1) "Remaining Primary Reserves" is defined as that amount of Unitized Substances, 85,665 barrels, less any amount attributed to tracts which do not qualify, which will be produced from the Unitized Formation underlying the said Unit Area and run to the pipeline from 7:00 A.M. July 1, 1963, to an economic producing rate of 60 barrels of oil per well per month (as determined by the duly appointed Engineering Subcommittee of the said Unit utilizing the conventional production decline curve extrapolation method).

(m) "Ultimate Primary Recovery" is defined as that amount of Unitized Substances, 986,801 barrels, less any amount attributed to tracts which do not qualify, which will be produced from the Unitized Formation underlying the said Unit Area and run to the pipeline from inception of production to an economic producing rate of 60 barrels of oil per well per month (as determined by the Commission's monthly reports, Form C-115 and the duly appointed Engineering Subcommittee of the said Unit utilizing the conventional production decline curve extrapolation method).

(n) "Productive Surface Acres" is defined as that amount of surface acres within the boundaries of the said Unit which have been determined to be capable of producing Unitized Substances from the Unitized Formation (as determined by the duly appointed Engineering Subcommittee of the said Unit utilizing conventional engineering and geological information).

(o) "Usable Well" is defined as a well which is now completed in the Unitized Formation (as defined), and which has production casing in it, properly placed and cemented so as to afford a means of effectively producing oil or gas from or injecting water into the Unitized Formation. Such well must be in an active or temporarily abandoned condition at this time. No permanently plugged and abandoned wells to be acceptable as usable wells.

(p) "Phase I" is defined as that period of time between 7:00 A.M. of the effective date of this Agreement and 7:00 A.M. of the first day of the month next

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following the month in which the Remaining Primary Reserves 85,665 barrels, have been produced (as determined by the Commission's monthly reports. Form C-115). During this period of time Phase I of the Schedule of Unit Participation as shown on Exhibit "C" will be in effect.

(q) "Phase II" is defined as that period of time between 7.00 A.M. of the first day of the month next following the month in which the Remaining Primary Reserves, 85,665 barrels have been produced (as determined by the Commission's monthly reports. Form C-115) and the date of termination of this Agreement During this period of time Phase II of the Schedule of Unit Participation as shown on Exhibit "C" will be in effect.

(r) "Working Interest" is defined as the right to search for produce and acquire Unitized Substances, whether held as an incident of ownership of mineral fee simple title, under an oil and gas lease or otherwise held.

(s) "Working Interest Owner" is defined as and shall mean any party owning a Working Interest including a carried working interest owner holding an interest in Unitized Substances by virtue of a lease operating agreement, fee title or otherwise which interest is chargeable with and obligated to pay or bear, either in cash or out of production, or otherwise all or a portion of the cost of drilling, developing and producing the Unitized Substance from the Unitized Formation and operating thereof hereunder.

(t) "Royalty Interest" or "Royalty" is defined as an interest other than a Working Interest in or right to receive a portion of the Unitized Substances or the proceeds thereof and includes the royalty interest reserved by the lessor by an oil and gas lease and any overriding royalty interest, oyl payment interest, net profits contracts, or any other payment or burden which does not carry with it the right to search for and produce Unitized Substances.

(u) "Royalty Owner" is defined as and shall mean the owner of a Royalty Interest.

(v) "Unit Operating Agreement" is defined as and shall mean any agreement or agreements (whether one or more) entered into (separately or collectively) by and between Unit Operator and the Working Interest Owners as provided in Section 9 (Accounting Provisions and Unit Operating Agreement), infra, and shall be styled "Unit Operating Agreement, Pearsall Queen Sand Unit, Lea County, New Mexico".

(w) "Paying Quantities" is defined as production of Unitized Substances in quantities sufficient to pay for the cost of producing same from wells on the unitized land.

(x) "Unit Manager" is defined as the person or corporation appointed by the Working Interest Owners to perform the duties of the Unit Operator until the selection and qualification of a successor Unit Operator as provided for in Section 8 (Successor Unit Operator) hereof.

(y) "Tract Participation" is defined as that percentage of Unitized Substances produced from the Unitized Formation which is allocated to a Tract under this Agreement.

(z) "Unit Participation" of each Working Interest Owner is defined as the sum of the percentages obtained by multiplying such Working Interest Owner's fractional Working Interest in each tract by the Tract Participation of such tract.

SECTION 3 <u>EXHIBITS</u>. Exhibit "A" attached hereto is a map showing, to the extent known to the Unit Operator, the Unit Area and the boundaries and identity of tracts and leases in said Unit Area. Exhibit "B" attached hereto is a schedule showing to the extent known to the Unit Operator, the acreage comprising each tract, percentage ownership of each Working Interest Owner in each tract and kind of owner-

ship of oil and gas interests However, nothing herein or in the said schedule or

Rev 1/9/64

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in said map or schedule as owned by such party. Exhibit "C" attached hereto is a schedule showing to the extent known to the Unit Operator, the Tract Participation of each Tract and the Unit Participation of each Working Interest Owner during Phase I and Phase II of participation in the said Unit. Exhibits "A", "B", and "C" shall be revised by the Unit Operator whenever changes render such revision necessary, and at least two copies of such revision shall be filed with the Commissioner, and not less than six copies thereof shall be filed with the Supervisor.

SECTION 4. <u>EXPANSION</u>. The above-described Unit Area may when practicable be expanded to include therein any additional tract or tracts regarded as reasonably necessary or advisable for the purposes of this Agreement. Such expansion shall be effected in the following manner:

(a) The Working Interest Owner or owners of a tract or tracts desiring to bring such tract or tracts into this Unit, shall file an application therefor with Unit Operator requesting such admission.

(b) Unit Operator shall circulate a notice to each Working Interest Owner of the proposed expansion, setting out the basis for admission, the unit participation to be assigned to each such tract, and other pertinent data. After negotiation (at Working Interest Owners' meeting or otherwise) if 90 per cent of the Working Interest Owners (on the basis of unit participation) have agreed to such tract or tracts being brought into the Unit, then Unit Operator shall:

(1) After preliminary concurrence by the Director, prepare a notice of proposed expansion describing the contemplated changes in the boundaries of the Unit Area, the reason therefor, the basis for admission of the additional tract or tracts, the tract participation to be assigned thereto and the proposed effective date thereof, preferably the first day of a month subsequent to the date of notice; and,

(2) Deliver copies of said notice to the Commissioner, the Supervisor, each Working Interest Owner, Lessee and Lessor whose interests are affected, (mailing copy of such notice to the last known address of each such Owner) and to the Lessee and Lessor whose interests are proposed to be committed, advising such parties who are already committed that thirty (30) days will be allowed for submission to the Unit Operator of any objection to such proposed expansion and soliciting joinders from the owners of interests in the lands to be admitted; and,

(3) File, upon the expiration of said thirty (30) day period as set out in (2) immediately above and provided that objections of not more than ten per cent (10%) of the Working Interest Owners have been filed thereto, with the Commissioner, Director and the Commission the following: (a) Comprehensive statement as to mailing said notice of expansion; (b) An application for such expansion in sufficient number for appropriate approval and distribution; and (c) An instrument containing the appropriate joinders in compliance with the participation requirements of Section 13 (Tracts Qualified for Unit Participation) and Section 30 (Nonjoinder and Subsequent Joinder), infra;

provided, however, if a dissenting Working Interest Owner owns more than a ten

per cent (10%) voting interest. it must be joined in such dissent by at least one other Working Interest Owner.

The expansion shall, after due consideration of all pertinent information and upon approval by the Commissioner and the Director and the Commission, become effective as of the date prescribed in the notice thereof or on such other more appropriate date as set by the Commissioner and the Director and Commission in the order or instrument approving such expansion. The revised Tract Participations of the respective tracts included within the Unit Area prior to such enlargement shall remain in the same ratio one to another.

SECTION 5. <u>UNITIZED LAND AND UNITIZED SUBSTANCES</u>. All cil and gas in all of the hereinabove described and subsequently admitted land effectively committed to this Agreement, are herein called Unitized Substances, insolar only as the same may be found in the Queen sand, together with the pertinent surface rights, are unitized under the terms of this Agreement and said land shall constitute land referred to herein as "Unitized Land" or "Land Subject to this Agreement".

SECTION 6. <u>UNIT OPERATOR</u>. Ambassader Oil Corporation, a Delaware corporation, is hereby designated as Unit Operator, and by signing this instrument as Unit Operator, it agrees and consents to accept the duties and obligations of Unit Operator for the operation, development and production of Unitized Substances as herein provided. Whenever reference is made herein to the Unit Operator, such reference means the Unit Operator acting in that capacity and not as an owner of interests in Unitized Substances, and the term "Working Interest Owner" when used herein shall include or refer to Unit Operator as the owner of a Working Interest when such an interest is owned by it.

SECTION 7. RESIGNATION OR REMOVAL OF UNIT OPERATOR. Unit Operator shall have the right to resign at any time, but such resignation shall not become effective so as to release Unit Operator from the duties and obligations of Unit Operator and terminate Unit Operator's rights as such for a period of six (6) months after written notice of intention to resign has been given by Unit Operator to all Working Interest Owners, the Commissioner and the Supervisor, unless a new Unit Operator shall have taken over and assumed the duties and obligations of Unit Operator prior to the expiration of said period.

Upon default or failure in the performance of its duties or obligations hereunder, the Unit Operator may be subject to removal by seventy five per

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cent (75%) of the committed Working Interest Owners (on the basis of Unit Participation) exclusive of the Working Interest Owner who is the Unit Operator. Such removal shall be effective upon notice thereof to the Commissioner and the Supervisor.

In all such instances of effective resignation or removal, until a successor to Unit Operator is selected and approved as hereinafter provided, the Working Interest Owners shall be jointly responsible for the performance of the duties of the Unit Operator and shall, not later than thirty (30) days before such resignation or removal becomes effective, appoint a Unit Manager to represent them in any action to be taken hereunder.

The resignation or removal of Unit Operator under this Agreement shall not terminate its right, title or interest as the owner of a Working Interest or other interest in Unitized Substances, but upon the resignation or removal of Unit Operator becoming effective, such Unit Operator shall deliver possession of all equipment, books, and records, materials, appurtenances and any other assets, used in conducting the Unit Operations and owned by the Working Interest Owners (including any and all data and information which it might have gained or assembled by reason if its operation of the Unit Area) to the new duly qualified successor Unit Operator or to the Unit Manager if no such new Unit Operator is elected, to be used for the purpose of conducting Unit operations hereunder. Nothing herein shall be construed as authorizing removal of any material, equipment and appurtenances needed for the preservation of any wells. Nothing herein contained shall be construed to relieve or discharge any Unit Operator who resigns or is removed hereunder for any liability or duties accruing or performable by it prior to the effective date of such resignation or removal.

SECTION 8. <u>SUCCESSOR UNIT OPERATOR</u>. Whenever the Unit Operator shall tender its resignation as Unit Operator or shall be removed as hereinabove provided, the Working Interest Owners shall select a successor Unit Operator by a majority vote of the Working Interest Owners (on the basis of Unit participation), provided no Working Interest Owner who has been Unit Operator and who has been removed may vote for self-succession. Such selection shall not become effective until (a) a Unit Operator so selected shall accept in writing the duties and responsibilities of Unit Operator, and (b) the selection shall have been filed with the Commissioner and the Supervisor. If no successor Unit Operator or Unit Manager is selected and

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qualified as herein provided, the Commissioner and the Director, at their election, may declare this Agreement terminated.

SECTION 9. ACCOUNTING PROVISIONS AND UNIT OPERATING AGREEMENT. Costs and expenses incurred by Unit Operator in conducting Unit operations hereunder shall be paid, apportioned among and borne by the Working Interest Owners in accordance with the Unit Operating Agreement. Such Unit Operating Agreement shall also provide the manner in which the Working Interest Owners shall be entitled to receive their respective proportionate and allocated shares of the benefits accruing hereto in conformity with their underlying operating agreements, leases or other independent contracts and such other rights and obligations as between Unit Operator and the Working Interest Owners as may be agreed upon by the Unit Operator and the Working Interest Owners; however, no such Unit Operating Agreement shall be deemed either to modify any of the terms and conditions of this Unit Agreement or to relieve the Unit Operator of any right or obligation established under this Agreement, and in case of any inconsistency or conflict between this Agreement and the Unit Operating Agreement, this Agreement shall prevail. Two true copies of any Unit Operating Agreement executed pursuant to this Section shall be filed with the Commissioner and three true copies thereof shall be filed with the Supervisor, prior to approval of this Agreement.

SECTION 10. <u>RIGHTS AND OBLIGATIONS OF UNIT OPERATOR</u>. Except as otherwise specifically provided herein, the exclusive right, privilege and duty of exercising any and all rights of the parties hereto which are necessary or convenient for prospecting for, producing, storing, allocating and distributing the Unitized Substances are hereby delegated to and shall be exercised by the Unit Operator as herein provided. Acceptable evidence of title to said rights shall be deposited with said Unit Operator, and together with this Agreement, shall constitute and define the rights, privileges and obligations of Unit Operator. Nothing herein, however, shall be construed to transfer title to any land or to any lease or operating agreement, it being understood that under this Agreement the Unit Operator, in its capacity as Unit Operator, shall exercise the rights of possession and use vested in the parties hereto only for the purposes herein specified.

SECTION 11. <u>PLAN OF OPERATIONS</u>. It is recognized and agreed by the parties hereto that all of the land subject to this Agreement is reasonably proved to be productive of Unitized Substances in paying quantities and that the object and

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purpose of this Agreement is to formaliate and put into effect a secondary recovery project in order to effect the anestest recovery of Unitized Substances, prevent waste and conserve natural resources. The parties berete syree that the Wait Operator may, subject to the consent and approval of a plan of operation by the Working Interest Owners, the Supervisor, and the Commissioner inject into the Unitized Formation, through any well or wells completed therein, brine water. air, gas, oil and any one or more other substances whether produced from the Unit Area or not, and that the location of input wells and the rates of injection therein and the rate of production shall be governed by standards of good geologic and petroleum engineering practices and conservation methods. After commencement of secondary operations. Unit Operator shall furnish the Commissioner and the Supervisor monthly, injection and production reports for each well in the Unit. The Working Interest Owners, the Supervisor, and the Commissioner, shall be furnished periodical reports on the progress of the plan of operation and any revisions or changes thereto; provided, however, that any major revisions of the plan of operation involving a basic deviation from the initial plan of operation shall be subject to the consent and approval of the Working Interest Owners, the Supervisor and the Commissioner.

The initial plan of operation shall be filed with the Supervisor and the Commissioner concurrently with the filing of this Unit Agreement for final approval. Said initial plan of operation and all revisions thereof shall be as complete and adequate as the Supervisor and the Commissioner may determine to be necessary for timely operation consistent herevith. Reasonable diligence shall be exercised in complying with the obligations of the approved plan of operation.

Notwithstanding anything to the contrary herein contained, the Unit Operator shall commence secondary recovery operations on the Unit Area within six (6) months after the effective date of this Agreement, or any extension hereof approved by the Commissioner and the Supervisor. After such operations are commenced, Unit Operator shall carry on such operations as would a reasonably prudent operator under the same or similar circumstances.

SECTION 12. <u>TRACT PARTICIPATION</u>. In Exhibit "C" attached hereto, there are listed and numbered the various tracts within the Unit Area and set forth opposite each tract is a figure which represents the Tract Participation allocated to each tract in the Unit Area in Phase I and Phase II calculated on one

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hundred per cent (100%) commitment. The Tract Participation of each tract was

determined as follows

PHASE I

Percentage Participation of each Tract

Tract Current Rate of Production fon Between April 1, 1963 & October 1, * 2 x 1963 Total Unit Current Rate of Production tion Between April 1, 1963 & October 1, 1963

·Plus-

Tract Remaining Primary Reserves ¹/₂ x as of July 1, 1963 Total Unit Remaining Primary Reserves as of July 1, 1963

PHASE II:

Percentage Participation of each Tract

Tract : 3/4x <u>Tract Ultimate Primary Recovery</u> x 100 Total Unit Ultimate Primary Recovery -Plus-

> 1/8 x Tract Productive Surface Acres x 100 Acres -Plus-

1/8 x Tract Usable Wells Total Unit Usable Wells x 100

However, if the Unit Agreement is approved with less than one hundred percent (100%) commitment, said participation percentage shall be revised pursuant to Section 13, (Tracts Qualified for Participation) to fit the commitment status as of the effective date hereof, and thereafter, as needed pursuant to Section 14 (Allocation of Unitized Substances).

SECTION 13. <u>TRACTS QUALIFIED FOR PARTICIPATION</u>. On and after the effective date hereof the tracts within the Unit Area which shall be entitled to participation in the production of Unitized Substances therefrom shall be those tracts within the Unit Area and more particularly described in said Exhibit "B" that are qualified as follows:

(a) Each and all of those tracts to which Working Interest Owners Juning 100% of the Working Interest in said tract and Royalty Owners Juning 100% of the Royalty Interest in said tract have subscribed, ratified or consented to this Agreement, and,

(b) Each and all of those tracts to which Working Interest Owners owning not less than 95% of the Working Interest therein and Royalty Owners owning not less than 75% of the Royalty Interest therein have executed this Agreement, and in which the Working Interest Owners in said tract who have executed this Agreement have agreed to indemnify and hold harmless all other parties hereto, in a manner satisfactory to 85% of the Working Interest Owners qualified under (a), against any and all claims and demands that may be made by the nonjoining Working Interest Owners or Royalty Owners, or both, on account of the commitment and joinder of such tract to the Unit Agreement, and operation thereof under such conditions on

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fied under (a), against any and all claims and demands that may be made by the nonjoining Working interest Owners or Royalty Owners, or both, on account of the commitment and joinder of such tract to the Unit Agreement, and operation thereof under such conditions on the basis herein provided, and to which 85% of the Working Interest Owners qualified under (a), exclusive of the Working Interest Owner submitting such tract, have approved the commitment of such tract to this Unit Agreement.

If, on the effective date of this Agreement, there is any tract or tracts which have not been effectively committed to or made subject to this Agreement by qualifying as above provided, then such tract or tracts shall not be entitled to participate hereunder. Unit Operator shall, when submitting this Agreement for final approval by the Commissioner and the Director, or as soon thereafter as practicable, file a schedule of those tracts which have been committed and made subject to this Agreement and are entitled to participate in Unitized Substances. Said schedule shall set forth opposite each such committed tract the lease number or assignment number, the owner of record of the lease. The Tract Participation of such tract shall be computed according to the participation formula set out in Section 12 (Tract Participation) above. This schedule of participation shall be a part of Exhibit "C" and upon approval thereof by the Commissioner and the Supervisor or the Director shall become a part of this Agreement and shall govern the allocation of production of Unitized Substances until a new schedule is so approved.

SECTION 14. <u>ALLOCATION OF UNITIZED SUBSTANCES</u>. All Unitized Substances produced and saved (less, save and except any part of such Unitized Substances used in conformity with good operating practices on unitized land for drilling, operating, camp, and other production or development purposes and for pressure maintenance or unavoidable loss) shall be apportioned among and allocated to the committed tracts within the Unit Area in accordance with the respective tract participation effective hereunder during the respective periods such Unitized Substances were produced, as set forth in the schedule of participation in Exhibit "C". The amount of Unitized Substances so allocated to each tract, and only that amount (regardless of whether it be more or less than the amount of the actual production of Unitized Substances from the well or wells, if any, on such tract) shall, for all intents, uses and purposes, he deemed to have been produced from such tract.

The Unitized Substances allocated to each tract shall be distributed among,

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or accounted for not the sector execution, electron of the sector action of the sector of the sector

No tract committed to this Agreement and qualities or particulation a above provided shall be subsequently excluded once participation beremader on account of depletion of Unitized Substances, and nothing berein contained shall be construed as requiring any retroactive adjustment for production obtained prior to the effective date of the foinder of any types.

If the Working Interest and the Royalty Interest in any tract are divided with respect to separate parcels or portions of such tract and owned severally by different persons, the Tract Participation assigned to such tract shall, in the absence of a recordable instrument executed by all owners and furnished to Unit Operator fixing the divisions of ownership, be divided among such parcels or portions in proportion to the number of surface acres in each.

The Unitized Substances Allocated to each tract shall be delivered in kind to the respective Working Interest Owners and parties entitled thereto by virtue of the ownership of old and the rights therein. Each Working Interest Owner and the parties entitled therete shall have the continuing right to receive such production in kind at a common point within the Unit Area and to sell or dispose of the same as it sees fit. Each such party shall have the right to construct, maintain and operate all necessary facilities for that purpose on unitized land, provided the same are so constructed, maintained and operated as not to interfere with operations carried on pursuant hereto. Subject to Section 15 (Royalty Settlement) hereof, any extra expenditure incurred by Unit Operator by reason of the delivery in kind of any portion of the Unitized Substances shall be borne by the party receiving the same in kind. In the event day party hereto shall fail to take or otherwise adequately dispose of its proportionate share of the production from the Unit Area currently as and when produced, then so long as such conditions continue, Unit Operator, for the account and at the expense of such party and in order to avoid curtailing the operations of the Unit Assa, say sell or otherwise dispose of such production to itself or others on a dev-to-day basis at not less

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the prevailing market price in the area for like production, and the account ich party shall be charged therewith a leaving received such production. The proceeds, if any, of the Unitized Substances so disposed of by Unit Operator ill be paid to the party entitled thereto.

Any party receiving in kind or separately disposing of all or any part of the Unitized Substances allocated to any tract, or receiving the proceeds therefrom if the same is sold or purchased by Unit Operator, shall be responsible for the payment of all Royalty on the lease or leases and tracts contributed by it and received into the Unit, and each such party shall hold each other party hereto harmless against all claims, demands and causes of action for such Royalty on the lease or leases and tracts contributed by it and received into the unitized land.

If, after the effective date of this Agreement, there is any tract or tracts that are subsequently committed hereto, as provided in Section 4 (Expansion) hereof, or any tract or tracts within the Unit Area not committed hereto as of the effective date hereof but which are subsequently committed hereto under the provisions of Section 30 (Nonjoinder and Subsequent Joinder), or if any tract is excluded from the Unit Area as provided for in Section 29 (Loss of Title), the schedule of participation as shown in the current Exhibit "C" shall be revised by the Unit Operator and distributed to the Working Interest Owners, the Commissioner, the Supervisor, and the Director to show the new percentage participation of all the then effectively committed tracts; and the revised schedule, upon approval by the Commissioner and the Supervisor or the Director, shall govern all the allocation of production from and after the effective date thereof until the effective date of a new schedule so approved. In any such revision pursuant to Section 4 (Expansion) or after six months from the effective date of this Unit Agreement pursuant to Section 30 (Nonjoinder and Subsequent Joinder) the Tract Participations of all tracts participating prior to such revision shall remain in the same ratio one to the other. In any such revision pursuant to Section 29 (Loss of Title) or within six months from the effective date of this Unit Agreement pursuant to Section 30 (Nonjoinder and Subsequent Joinder) all Tract Participations shall be computed according to the participation formula.

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SECTION 15. <u>ROYALTY SETTLEMENT</u>. The State of New Mexico and the United States of America and all Royalty Owners who, under existing contracts: are entitled to take in kind a share of the Unitized Substances produced from any tract unitized hereunder. shall continue to be entitled to such right to take in kind their share of the Unitized Substances allocated to such tract, and Unit Operator shall make deliveries of such Royalty share taken in kind in conformity with the applicable contracts, laws and regulations. Settlement for Royalty Interest not taken in kind shall be made by Working Interest Owners responsible therefor under existing contracts, laws and regulations, on or before the last day of each month for Unitized Substances produced during the preceding calendar month; provided, however, that nothing herein contained shall operate to relieve the Lessees of any land from their respective lease obligations for the payment of any Royalty due under their leases, except that such Royalty shall be computed in accordance with the terms of this Unit Agreement.

If gas obtained from lands not subject to this Agreement is introduced into the Unitized Formation, for use in repressuring, stimulation of production, or increasing ultimate recovery in conformity with a plan approved pursuant to Section 11 (Plan of Operations), a like amount of gas, less appropriate deductions for loss from any cause, may be withdrawn from the Unitized Formation, Royalty free as to dry gas but not as to the products extracted therefrom; provided such withdrawal shall be pursuant to such conditions and formulas as may be prescribed or approved by the Supervisor and the Commissioner; and provided further that such right of withdrawal shall terminate as of the effective date of termination of the Unit Agreement.

All Royalty due the State of New Mexico and the United States of America and the other Royalty Owners hereunder shall be computed and paid on the basis of all Unitized Substances allocated to the respective tract or tracts committed hereto, in lieu of actual production from such tract or tracts.

Royalty due the United States shall be computed as provided in the operating regulations and paid in value or delivered in kind as to all Unitized Substances on the basis of the amounts thereof allocated to unitized Federal land as provided herein at the rates specified in the respective Federal leases, or at such lower rate or rates as may be authorized by law or regulations; provided, that

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for leases on which the royalty rate depends on the daily average production per well, said average production shall be determined in accordance with the operating regulations as though the Unitized Land were a single consolidated lease.

Each Royalty Owner (other than the State of New Mexico and the United States of America) that executes this Agreement represents and warrants that it is the owner of a Royalty Interest in a tract or tracts within the Unit Area as its interest appears in Exhibit "B" attached hereto. If any Royalty Interest in a tract or tracts should be lost by title failure or otherwise in whole or in part, during the term of this Agreement, then the Royalty Interest of the party representing himself to be the owner thereof shall be reduced proportionately and the interest of all parties shall be adjusted accordingly.

SECTION 16. <u>RENTAL SETTLEMENT</u>. Rentals or minimum royalties due on leases committed hereto shall be paid by Working Interest Owners responsible therefor under existing contracts, laws and regulations, provided that nothing herein contained shall operate to relieve the Lessees of any land from their respective lease obligations for the payment of any rental or minimum royalty in lieu thereof, due under their leases. Rental for lands of the State of New Mexico subject to this Agreement shall be paid at the rate specified in the respective leases from the State of New Mexico. Rental or minimum royalty for lands of the United States of America subject to this Agreement shall be paid at the rate specified in the respective leases from the United States of America, unless rental or minimum royalty is waived, suspended, or reduced by law or by approval of the Secretary or his duly authorized representative.

SECTION 17. <u>CONSERVATION</u>. Operations hereunder and production of Unitized Substances shall be conducted to provide for the most economical and efficient recovery of said substances without waste, as defined by or pursuant to Federal and State laws and regulations.

SECTION 18. <u>DRAINAGE</u>. The Unit Operator shall take appropriate and adequate measures to prevent drainage of Unitized Substances from unitized land by wells on land not subject to this Agreement.

SECTION 19. LEASES AND CONTRACTS CONFORMED AND EXTENDED. The terms, conditions and provisions of all leases, subleases and other contracts relating to exploration, drilling, development or operation for oil or gas on land committed to this Agreement are hereby expressly modified and amended to the extent neces-

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sary to make the same conform to the provisions hereof, but otherwise to remain in full force and effect, and the parties hereto hereby consent that the Secretary and the Commissioner, respectively, shall and by their approval hereof, or by the approval hereof by their duly authorized representatives, do hereby establish, alter, change or revoke the drilling, producing, rental, minimum royalty and royalty requirements of Federal and State leases committed hereto and the regulations in respect thereto to conform said requirements to the provisions of this Agreement.

Without limiting the generality of the foregoing, all leases, subleases and contracts are particularly modified in accordance with the following:

(a) The development and operation of lands subject to this Agreement under the terms hereof shall be deemed full performance of all obligations for development and operation with respect to each and every part or separately owned tract subject to this Agreement, regardless of whether there is any development of any particular part or tract of the Unit Area, notwithstanding anything to the contrary in any lease, operating agreement or other contract by and between the parties hereto, or their respective predecessors in interest, or any of them.

(b) Drilling, producing or secondary recovery operations performed hereunder upon any tract of unitized lands shall be accepted and deemed to be performed upon and for the benefit of each and every tract of unitized land, and no lease shall be deemed to expire by reason of failure to drill or produce wells situated on land therein embraced.

(c) Suspension of drilling or producing operations on all unitized lands pursuant to direction or consent of the Commissioner and the Supervisor or their duly authorized representatives, shall be deemed to constitute such suspension pursuant to such direction or consent as to each and every tract of unitized lands.

(d) Each lease, sublease, or contract relating to the exploration, drilling, development or operation for oil and gas which by its terms might expire prior to the termination of this Agreement, is hereby extended beyond any such term so provided therein, so that it shall be continued in full force and effect for and during the term of this Agreement.

(e) Termination of this Agreement shall not affect any lease which, pursuant to the terms thereof or any applicable laws, shall continue in force and effect thereafter.

(f) Any lease embracing lands of the State of New Mexico, which is made subject to this Agreement, shall continue in force beyond the term provided therein as to the lands committed hereto until the termination hereof.

(g) Any lease embracing lands of the Stire of New Mexico having only a portion of its land committed hereto, shall be segregated as to that portion committed and that not committed, and the terms of such lease shall apply separately to such segregated portions commencing as of the effective date hereof. Provided, however, that notwithstanding any of the provisions of this Agreement to the contrary, such lease shall continue in full force and effect beyond the term provided therein as to all lands embraced in such lease if oil or gas is, or has heretofore been, discovered in paying quantities on some part of the lands embraced in such lease committed to this Agreement or, so long as a portion of the Unitized Substances produced from the Unit Area is, under the terms of this Agreement, allocated to the portion of the lands covered by such lease committed to this Agreement, or, at any time during the term hereof, as to any lease that is then valid and subsisting and upon which the Lessee or the Unit Operator is then engaged in bona fide drilling, reworking. or secondary recovery operations on any part of the lands embraced in such lease, then the same as to all lands embraced therein shall remain in full force and effect so long as such operations are diligently prosecuted, and if they result in the production of oil or gas, said lease shall continue in full force and effect as to all of the lands embraced therein, so long thereafter as oil or gas in paying quantities is being produced from any portion of said lands.

(h) The segregation of any Federal lease committed to this Agreement is governed by the following provision in the fourth paragraph of Sec. 17(j) of said Act of February 25, 1920, as amended by the Act of September 2, 1960 (74 Stat. 781-784): "Any (Federal) lease heretofore or hereafter committed to any such plan (unit) embracing lands that are in part within and in part outside of the area covered by any such plan shall be segregated into separate leases as to the lands committed and the lands not committed as of the effective date of unitization; provided, however, that any such lease as to the non-unitized portion shall continue in full force and effect for the term thereof but for not less than two years from the date of such segregation and so long thereafter as oil or gas is produced in paying quantities."

SECTION 20. <u>MATHEMATICAL ERRORS</u>. It is hereby agreed by all parties to this Agreement that Unit Operator is empowered to correct any mathematical errors which might exist in the pertinent exhibits to this Agreement upon approval of the Commissioner and the Supervisor.

SECTION 21. <u>COVENANTS RUN WITH LAND</u>. The covenants herein shall be construed to be covenants running with the land with respect to the interest of the parties hereto and their successors in interest until this Agreement terminates, and any grant, transfer or conveyance of interest in land or leases subject hereto shall be and hereby is conditioned upon the assumption of all privileges and obligations hereunder by the grantee, transferee or other successor in interest. No assignment or transfer of any Working Interest subject hereto shall be binding upon Unit Operator until the first day of the calendar month after Unit Operator is furnished with the original, or acceptable photostatic or certified copy, of the recorded instrument of transfer; and no assignment or transfer of any Royalty Interest subject hereto shall be binding upon the Working Interest Owner responsible therefor until the first day of the calendar month after said Working Interest of until the first day of the calendar month after said Working Interest Owner is furnished with the original, or acceptable photostatic or certified copy, of the recorded instrument of transfer.

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SECTION 22. <u>FFFECTIVE DALE AND TFRM</u> This Agreement shall become binding upon each party who executes or ratifies it as of the date of execution or ratification by such party and shall become effective as of 2.00 A.M. of the first day of the month next following:

(a) The execution or ratification of this Agreement and the Unit Operating Agreement by Working Interest Owners owning a combined unit participation of at least nipetv five per cent (95%) and the execution or ratification of this Agreement by Royalty Owners owning a combined interest of at least seventy five per cent (75%) of the Royalty Interest in said Unit Area; and.

(b) The approval of this Agreement by the Commissioner, the Secretary of his duly authorized representatives, and the Commission; and,

(c) The filing of at least one counterpart of this Agreement for record in the office of the County Clerk of les County New Mexico, by the Unit Operator. And provided, further, that if (a) (b) and (c) above are not accomplished on or before $A \in \{1, 1964\}$. this agreement shall upso facto expire on said date (horeupafter called "expiration date" and thereafter be of no further force or effect, unless prior thereto this Agreement has been executed or ratified by Working Interest Owners owning a compined Epic Participation of at least ninety per cert (90%) committed (c this Agreement have decided to extend said expiration date for a period not to exceed six (6) months (hereinafter colled "extended expiration date"). If said expiration date is so extended and (a). (b) and (c) are not accomplished on or before said extended expiration date, this Agreement shall ipso facto explice on said extended expiration date and thereafter be of no further force or effect. For the purpose of this Section, ownership shall be computed on the basis of Unit Participation as determined from Exhibit "C" attached to the Unit Operating Agreement.

The Unit Operator shall, within thirty (30) days after the effective date of this Agreement, file for record in the offices where a counterpart of this Agreement is recorded, a certificate to the effect that this Agreement has become effective according to its terms and stating further the effective date.

The term of this Agreement shall be for and during the term that Unitized Substances are produced in paying quantities from the Unit Area and as long thereafter as drilling, reworking or other operations (including secondary recovery operations) are prosecuted thereon without cessation of more than ninety (90) consecutive days, unless socher terminated by Working Interest Owners in the manner hereinafter provided.

This Agreement may be terminated with the approval of the Commissioner and the Director by Working Interest Owners owning minety per cent (90%) of Unit Participation whenever such Working Interest Owners determine that Unit Operations are no longer profitable, feasible, or in the interest of conservation. Notice of any such termination shall be given by Unit Operator to all parties hereto.

Upon termination of this Agreement, the further development and operations of the Unit Area as a Unit shall be abandoned, Unit operations shall cease, and thereafter the parties hereto shall be governed by the terms and provisions of the leases and contracts affecting the separate tracts.

If not otherwise covered by the leases unitized under this Agreement, Royalty Owners hereby grant Working Interest Owners a period of six (6) months after termination of this Agreement in which to salvage, sell, distribute or otherwise dispose of the personal property and facilities used in connection with Unit operations.

SECTION 23. <u>RATE OF PROSPECTING</u>, <u>DEVELOPMENT AND PRODUCTION</u>. All production and the disposal thereof shall be in conformity with allocations and quotas made or fixed by any duly authorized person or regulatory body under any Federal or State statute. The Director is hereby vested with authority to alter or modify from time to time, in his discretion, the rate of prospecting and development and within the limits made or fixed by the Commission to alter or modify the quantity and rate of production under this Agreement, such authority being hereby limited to alteration or modification in the public interest, the purpose thereof and the public interest to be served thereby to be stated in the order of alteration or modification; provided, further, that no such alteration or modification shall be effective as to any land of the State of New Mexico as to the rate of prospecting and development in the afsence of the specific written approval thereof by the Commissioner and as to any lands of the State of New Mexico or privately owned lands subject to this Agreement as to the quantity and rate of production in the absence of specific written approval thereof by the Commission.

Powers in this Section vested in the Director shall only be exercised after notice to the Unit Operator and opportunity for hearing to be held not less than fifteen days from notice.

SECTION 24. <u>NONDISCRIMINATION</u>. In connection with the performance of work under this Agreement, the Operator agrees to comply with all of the provisions of Section 301(1) to (7) inclusive, of Executive Order 10925 (26 F.R. 1977), which are hereby incorporated by reference in this Agreement.

SECTION 25. <u>APPEARANCES</u>. Unit Operator shall have the right to appear for or on behalf of any and all interests affected hereby before the Commissioner,

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the Department, and the Commission, and to appeal from any order issued under the rules and regulations of the Commissioner, the Department, or the Commission, or to apply for relief from any of said rules and regulations or in any proceedings relative to operations before the Commissioner, the Department, or the Commission, or any other legally constituted authority; provided, however, that any other interested party shall also have the right at his or its own expense to be heard in any such proceeding.

SECTION 26. <u>NOTICES</u>. All notices, demands, objections or statements required hereunder to be given or rendered to the parties hereto shall be deemed fully given if made in writing and personally delivered to the party or parties or sent by postpaid certified mail, addressed to such party or parties at their respective addresses set forth in connection with the signatures hereto or to the ratification or consent hereof or to such other address as any such party or parties may have furnished in writing to the party sending the notice, demand or statement.

SECTION 27. <u>NO WAIVER OF CERTAIN RIGHTS</u>. Nothing in this Agreement contained shall be construed as a waiver by any party hereto of the right to assert any legal or constitutional right or defense as to the validity or invalidity of any law of the State wherein said unitized lands are located, or rules or regulations issued thereunder in any way affecting such party, or as a waiver by any such party of any right beyond his or its authority to waive.

SECTION 28. <u>UNAVOIDABLE DELAY</u>. All obligations under this Agreement requiring the Unit Operator to commence or continue secondary recovery operations or to operate on or produce Unitized Substances from any of the lands covered by this Agreement shall be suspended while, but only so long as Unit Operator, despite the exercise of due care and diligence, is prevented from complying with such obligations, in whole or in part, by strikes, acts of God, Federal, State or municipal law or agency, unavoidable accident, uncontrollable delays in transportation, inability to obtain necessary materials in open market, or other matters beyond the reasonable control of the Unit Operator whether similar to matters herein enumerated or not.

SECTION 29. LOSS OF TITLE. In the event title to any tract of unitized land shall fail so as to render the tract inoperable under this Agreement and the true owner cannot be induced to join this Unit Agreement, such tract shall

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be automatically regarded as not committed hereto and there shall be such readjustment of future costs and benefits as may be required on account of the loss of such title. Thereafter, Unit Operator shall revise Exhibit "A", "B" and "C" so as to indicate thereon only those tracts which then qualify for inclusion within the Unit Area. Each such revised Exhibit shall be effective at 7:00 A.M. on the first day of the month next following the month in which the failure of title is finally determined. In the event of a dispute as to title as to any Royalty, Working Interest or other interest subject thereto, payment or delivery on account thereof may be withheld without liability or interest until the dispute is finally settled; provided, that as to State or Federal land or leases, no payments of funds due the State of New Mexico or the United States of America shall be withheld, but such funds shall be deposited as directed by the Commissioner or the Supervisor (as the case may be), to be held as unearned money pending final settlement of the title dispute, and then applied as earned or returned in accordance with such final settlement.

Unit Operator as such is relieved from any responsibility for any defect or failure of any title hereunder.

SECTION 30. <u>NONJOINDER AND SUBSEQUENT JOINDER</u>. If the owner of any substantial interest in a tract within the Unit Area fails or refuses to subscribe, ratify, or consent in writing to this Agreement, the Working Interest Owner in that tract who has executed or ratified this Agreement may withdraw said tract from this Agreement by written notice to the Director, the Commissioner, and the Unit Operator prior to the effective date of this Agreement. Joinder by any Royalty Owner, at any time, must be accompanied by appropriate joinder of the corresponding Working Interest Owner in order for the interest of such Royalty Owner to be regarded as effectively committed. Joinder to the Unit Agreement by a Working Interest Owner, at any time, must be accompanied by appropriate joinder to the Unit Operating Agreement in order for such interest to be regarded as effectively committed to this Unit Agreement.

Any oil or gas interest in the Queen sand not committed hereto prior to submission of this Agreement to the Commissioner and the Director for final approval may thereafter be committed hereto upon compliance with the applicable provisions of this Section and of Section 13 (Tracts Qualified for Unit Participation) hereof, at any time up to the effective date hereof and for a period to

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and including six (6) postby the mention on the size beries of participation as provided in said Section 13. By the other of others thereof subscribing ratifying, or consenting in virtual to this Auropean and it the interest is a Working Interest by the owner of such interest subscribing also to the Unit Operating Agreement.

It is understood and agreed however, tost from and after six (6) months from the effective date hereof the right of subsequent lender as provided in this Section (131) be subject to such reparements or approvals and on such basis as may be agreed upon by reacty per cont (90%) of the Working Interest Owners - Such counder by a proposed Weiking Interest Osper must be evidenced by his execution or ratification of this Agreement and the Unit Operating Agreement. Such joinder by a proposed Recalty Coner must be evidenced by his execution, ratification or consent of this Agreement and must be consented to in writing by the Working Interest Owner responsible for the payment of any penefits that may accrue hercunder is behalf of such proposed Revalty Owner - Except as may be otherwise hereip provided subsequent housder to this Agreement shall be effective at 7:00 A.M. as of the first day of the month following the filing with the Commissioner and the Supervisor of d ly executed counterparts of any and all documents accessary to establish offective commitment of any tract or interest to this Agreement unless objection to such founder by the Commissioner or the Director is duly made within sixiv (60° days after such filing.

SECTION 31. <u>GOUNTERPARTS</u>. This Agreement may be executed in any number of counterparts, no one of which needs to be executed by all parties, and may be ratified or consented to by separate instrument in writing specifically referring hereto, and shall be binding upon all these parties who have executed such a counterpart, ratification or consent hereto with the same force and effect as if all parties had signed the same dociment, and regardless of whether or not it is executed by all other parties owning or claiming an interest in the lands within the above described Unit Area.

SECTION 32 TAXES. Foch party bereto shall for its own account render and pay its share of any taxes levied against or measured by the amount or value of the Unitized Substances produced from the unitized land; provided however that if it is required or if it be determined that the Unit Operator or the several Working Interest Owners must pay or advance said taxes for the account

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of the parties hereto, it is hereby expressly agreed that the parties so paying or advancing said taxes shall be reimbursed therefor by the parties hereto, including Royalty Owners, who may be responsible for the taxes on their respective allocated shares of said Unitized Substances. No such taxes shall be charged to the United States or to the State of New Mexico, nor to any Lessor who has a contract with a Lessee which requires his Lessee to pay such taxes.

SECTION 33. CONFLICT OF SUPERVISION. Neither the Unit Operator nor the Working Interest Owners, nor any of them, shall be subject to any forfeiture, termination or expiration of any rights hereunder or under any leases or contracts subject hereto, or to any penalty or liability on account of delay or failure in whole or in part to comply with any applicable provisions thereof to the extent that the said Unit Operator or the Working Interest Owners, or any of them, are hindered, delayed or prevented from complying therewith by reason of failure of the Unit Operator to obtain, in the exercise of due diligence, the concurrence of proper representatives of the United States and proper representatives of the State of New Mexico in and about any matters or things concerning which it is required herein that such concurrence be obtained. The parties hereto, including the Commission, agree that all powers and authority vested in the Commission in and by any provisions of this Agreement are vested in the Commission and shall be exercised by it pursuant to the provisions of the laws of the State of New Mexico and subject in any case to appeal or judicial review as may now or hereafter be provided by the laws of the State of New Mexico.

SECTION 34. <u>LIMITATION OF APPROVALS</u>. Notwithstanding anything herein contained to the contrary, if no Federal lands are committed to this Agreement, then no consents or approvals provided herein shall be required of the Department, the Secretary, the Director, or the Supervisor, and it shall not be necessary to file any instrument hereunder with said officers or agencies unless and until Federal lands are so committed to this Agreement; likewise, if no State lands are committed to this Agreement, then no consents or approvals provided herein shall be required of the Commissioner, and it shall not be necessary to file any instrument hereunder with said officer unless and until State lands are so committed to this Agreement; likewise, if no fee lands are committed to this Agreement, then no consents or approvals provided herein shall be required of the Commission, and it shall not be necessary to file any instrument hereunder with said office unless

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and until fee lands are so committed to this Agreement.

SECTION 35. BORDER AGREEMENTS. Subject to the approval of the Supervisor and the Commissioner, the Unit Operator, with concurrence of the Working Interest Owners of sixty five percent (65%) of the Unit Participation may enter into a border-protection agreement or agreements with the working interest owners of adjacent lands along the exterior boundary of the Unit Area with respect to the operations in the border area for the maximum ultimate recovery, conservation purposes and proper protection of the parties and interests.

IN WITNESS WHEREOF the parties hereto have caused this Agreement to be executed and have set opposite their respective names the date of execution,

AMBASSADOR OIL CORPORATION

ATTEST

By_____ Vice President

Secretary

THE STATE OF TEXAS)
COUNTY OF TARRANT)

BEFORE ME, the undersigned, _______ a Notary Public in and for said County and State, on this ______ day of ______, 1964. personally appeared B. J. KELLENBERGER, to me known to be the identical person who subscribed the name of the maker to the within and foregoing instrument as its Vice President, and acknowledged to me that he executed the same as his free and voluntary act and deed, and as the free and voluntary act and deed of such corporation, for the uses and purposes therein set forth

IN TESTIMONY WHEREOF I have hereunto set my hand and official seal the day and year last above written

My Commission Expires: June 1, 1965 Notary Public, Tarrant County, Iexas

Rev 1/13/64



T185-R32E T18S-R32E NO. T18S-R32E 38 34 ω Section 5: NE/4 SW/4 Section 5: S/2 NE/4 Section 5: DESCRIPTION (NE/4 NW/4) Lot 3 Federal Lands OF ACRES NUMBER 40 40 80 SERIAL NO.& LEASE DATE LC-029403(B) 11-1-61 LC-029403(B) 11-1-61 LC-029403(A) 12-1-59 123% $12\frac{1}{2}$ % 12½% ~25% ROYALTY BASIC Hugh L.Johnson Jr. & Roy H. Smith Hugh L.Johnson Jr. & Roy H. Smith Roy H.Smith & Hugh L. Johnson Jr., d/b/a Roy H.Smith Drilling Co. LESSEE OF RECORD Martin Yates III -Irene E. Walker -William E.Walker -Subject to the \$110,000.00 and \$25,000.00 PP described Subject to the \$110,000.00 and \$25,000.00 PP described under Tract 3 above. After payout of above PP a \$25,000.00 PP shall commence out of $12\frac{5}{2}$ % of under Tract 3 above. Smith. Elaine M. Walker - 12% \$110,000.00 PP out of 25% of the WI to Roy H. the WI to Roy H. Smith. M. E. Baish OVERRIDING ROYALTY OWNER AND AMOUNT 12% 12% 22% Ambassador Oil Ambassador Oil Ambassador Oil OWNER AND AMOUNT WORKING INTEREST Corporation - 100% (to 5,000 ft.) Corporation - 100% (to 5,000 ft.) Corporation - 100% (to 5,000 ft.)

EXHIBIT "B" FEARSALL QUEEN SAND UNIT

LEA COUNTY, NEW MEXICO

Page 2.	T18S-R32E 5	1185-K32E	TRACT NG.	·
	E Section 4: Lots 3 & 4 (N/2 NW/4)	E Section 5: Lots 1 & 2 (N/2 NE/4)	DESCRIPTION	
	8 O	80	NUMBER OF ACKES	
	LC-063345 11-1-60	LC-061155(A) 12-1-59	SERIAL NO.& LEASE DATE	
	1 2½%- 33-1/3%	- 25%	BASIC ROYALTY	PEARSALL Q LEA COUNT
	Frank Brock R. T. Brock Alfred Hunter Utter, Executor of Estate of Alpha McAtee, Deceased	Frank Brock & R. T. Brock d/b/a Brock Drilling Company	LESSEE OF RECORD	EXHIBIT "B" - (Cont) PEARSALL QUEEN SAND UNIT LEA COUNTY, NEW MEXICO
	Brock Drilling Co. 1/16 of WI Security-First Nat. Bank of Los Angeles, Trustee 1/16 of WI \$99,000.00 PP out of 25% of WI to: 1/4 - Frank Brock 1/4 - R. T. Brock 1/2 - Alfred H. Utter After payout of above PP, a \$21,000.00 PP shall commence out of 12½% of the WI to: 1/4 - Frank Brock 1/4 - Frank Brock 1/4 - R. T. Brock 1/4 - R. T. Brock	M. E. Baish III - $1\frac{1}{2}$ % Martin Yates III - 1% Irene E. Walker - $2\frac{1}{2}\%$ Wm. E. Walker - $1\frac{1}{2}\%$ \$66,000.00 PP out of 25% of the WI to: 1/2 - Frank Brock 1/2 - R. T. Brock After payout of above PP a \$14,000.00 PP shall commence out of $12\frac{1}{2}\%$ of the WI to: 1/2 - Frank Brock 1/2 - Frank Brock 1/2 - R. T. Brock	OVERRIDING ROYALTY OWNER AND AMOUNT	
4 8. 1.	Ambassador Oil Corporation - 100% (To base of Queen Sand)	Ambassador Oil Corporation ~ 100% (To base of Queen Sand)	WORKING INTEREST OWNER AND AMOUNT	

Page 3, 4-12-63 Rev. 9-20-63, 1/9/64

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Schedule "D"	Schedule "C"		Schedule "D"	Schedule """	BASIC R <u>OYALTY</u>	LEA COUNTY, NEW MEXICO
Virginia Woods Shaw	B M. Jackson		Minatov Oil Company	Frank Brock R. T. Brock Alfred Hunter Uttor, Executor of Estate of Alpha McAtee, Deceased	LESSEE OF <u>RECORD</u>	W MEXTOO
Virginia Woods Shaw - 5%	Buffalo Perroleum Corporation - 5% South Central Enterprises - 5%		Buftalo Petroleun Corperation 5%	Subject to the same \$99,000 00 and \$21,000 PP as described under Tract 5.	OVERRIDENC ROYALTY OWNER AND AMOUNT	
Reading & Bates. Luc 100%	B.M.Jackson 100%	E.R.Monson 5% K.V. Dahl 2-j/12% Canico Lee Ballard Anderson 4-1/6%	Minntex Oli 50% Beard Oli Co. 25% F.W.Holloway	Ambassador Oil 00 Corporation (To base oi Queen Sand)	WORKING INTEREST OWNER AND AMOUNT	

EXHIBIT "B" - (Cont) PEARSALL QUEEN SAND UNIT LEA COUNTY, NEW MEXICO

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Rev. 1/9/64. Page 4.

NO 1155 R32E T18S-R32E T165-R32E Q DESCRIPTION Section 5: SE/4 SW/4 & W/2 SE/4 Section 5: SE/4 NW/4 Section 51 NE/4 SE/4 NUMEER ACRES 0 120 40 40 SERIAL NO. & LEASE DATE LC 064098 12-1-59 12-1-59 NM-016795 2-1-55 n⁄... ≲دµeqnje Schedule "B" EASIC ROYALTY Schedule "0" C. N. Ochiltree virginia Woods Shaw Ambassador Oil Corporation LESSEE OF RECORD Subject to the \$110,000.00 and \$25,000.00 PP described under Martin Yates III $1\frac{1}{2}$ % Irene E. Walker $2\frac{1}{2}$ % Elaíne M.Walker $1 \cdot 1/4$ % Wm. E. Walker $1 \cdot 1/4$ % Tract <u>3</u> ahove. M. E. Baish $1\frac{1}{2}$ % Am Martin Yates I.I. 1 % Irene E. Walker $2\frac{1}{2}$ % Wm. E. Walker 1-1/4% Elaine M. Walker 1-1/4% Shaw (to 5,000 ft.) None Virginia Woods OVERRIDING ROYALIY Ambassador Oil Corp. Ambassador Oil Corp. 100% Ambassador Oil Corp. (to 5,000 ft.) (to 5,000 ft.) WORKING INTEREST OWNER AND AMOUNT (to 5,000 it.) 100% 100%

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TRACT

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EXHIBIT "B" - (Cont) PEARSALL QUEEN SAND UNLT LEA COUNTY, NEW MEXICO

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Corporation 24%

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B-6768	B-6763	B-6768	B-6768	B-6768		SERIAL NO, & LEASE DATE	
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Yates Petroleum Corp.	Yates Petroleum Corp.	Yates Petroleum Corp.	Yates Petroleum Corp.	Yates Petroleum Corp.		LESSEE OF RECORD	EXHIBIT "B" - (Cont) PEARSALL QUEEN SAND UNIT LEA COUNTY, NEW MEXICO
Selina R ee se Yates Br o s.	C.H. Malort Yates Bros.	Claude Johnston Tates Bros.	Laura G. Brown Yates Bros,	Ada M. Trostel Yates Bros.		OVERRIDING ROYALIY	
3% 4.1666%	3% 4.1666%	3% 4.1666%	3.125% 4.1667%	3% 4 .1666%) ×	
S.P. Yates 28.1667% Dixon & Yates 28.1667% Yates Petroleum	S.P. Yates 28.1667% Dixon & Yates 28.1667% Yates Petroleum Corporation 24%	S.P. Yates 28.1667% Dixon & Yates 28.1667% Yates Petroleum Corporation 24%	S. P. Yates 28,125% Dixon & Yates 28,125% Yates Petroleum Corporation 23,9583%	S.P. Yates 24% Dixon & Yates 28.1667% Yates Petroleum Corporation 28.1667%		WORKING INTERESI OWNER AND AMOUNI	

EXHIBIT "B" - (Conc) PEARSALL QUEEN SAND UNIT LEA COUNTY, NEW MEXICO

11/2 R'12E Section 32. SE/4 SW/4 DESCRIPTION NUMBER OF ACRES 57 SERTAL NO. & 0C+5119 2-17-59 BASTC ROYALTY 1.2 2% Gulf Ofl Componiation LESSEE OF RECORD OVEPRIDING LOYAL/TY OWNER AND AMOUNT $N_{O} \geq 0$

> WORKING INTERESI Owner And Amoinf

Ambassador 011 Corporation 1.007

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Page 7 Rev. 1/9/64

EXHIBIT "B" - (Cont) PEARSALL QUEEN SAND UNIT LEA COUNTY, NEW MEXICO

TOTALS

l2 Federal Tracts 5 State of New Mexico Tracts 240 721.69 Acres Acres 75.04% of Unit Area

24.96% of Unit Area

961.69 Acres

100% of Unit Area

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Rev. 9-23-83		8	7	6	Л	5A	4A	4	ω	2A	2	1	TRACT NO.
Rev/9/64	NE/4 SE/4 Sec. 5 T18S R32E	SE/4 SW/4 & W/2 SE/4 Sec. 5 T18S R32E	SE/4 NW/4 Sec. 5 T18S R32E	SE/4 NW/4 Sec. 4 T18S R32E	S/2 NE/4 Sec. 4 T18S R32E	N/2 NE/4 Sec. 4 T18S R32E	SW/4 NW/4 Sec. 4 T18S R32E	Lots 364 (N/2 NW/4) Sec. 4 T18S R32E	Lots 1&2 (N/2 NE/4) Sec. 5 T18S R32E	NE/4 SW/4 Sec. 5 T18S R32E	Lot 3 (NE/4 NW/4) Sec. 5 T18S R32E	S/2 NE/4 Sec. 5 T18S R32E	DESCRIPTION
	LC-061153 12-1-59	LC-064098 12-1-59	NM-016795 2-1-55	LC-060503	LC-061840 11-1-60	LC-061840(A) 9-22-39	LC-063345 11-1-60	LC-063345 11-1-60	LC-061155(4) 12-1-59	LC-029403(B) 11-1-61	LC-029403(3) 11-1-61	LC-029403(A) 12-1-59	SERIAL NO.& LEASE DATE
	-0-	0.796097	0.379501	7.810969	43.182348	21,833242	-0-	8.458948	0.624893	7.944053	4.150530	2.847724	PHASE I - PERCENT TRACT PARTICIPATION IN UNIT
	1.318795	4.283037	1.766453	6.906015	7.822372	6.506314	5.018021	23.454551	11.749836	4.083941	3.165215	13.152701	PHASE II - PERCENI TRACT PARTICIPATION IN UNIT

EXHIBIT "C" PEARSALL QUEEN SAND UNIT LEA COUNTY, NEW MEXICO

SCHEDULE OF UNIT PARTICIPATION

EXHIBIT "C" - (Cont) PEARSALL QUEEN SAND UNII LEA COUNIY, NEW MEXICO

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SE/4 SW/4 Sec. 32 T17S R32E	SW/4 SE/4 Sec. 32 T17S R32E	SE/4 SE/4 Sec. 32 T17S R32E	NW/4 SE/4 Sec. 32 T17S R32E	NE/4 SE/4 Sec 32 T17S R32E	NE/4 SW/4 Sec. 32 T17S R32E	BESCRIPTION
OC-5119 2-17-59	F6768	E-6768	5-6768	5-6768	₽~6768	SCHEDULE OF UNIT SERIAL NO. & LEASE DATE
-0-	-0-	•• O ••	0.710496	1.261199	- 0 -	NII PARTICIPATION PHASE I - PERCENT IRACI PARTICIPATION IN UTI
0.812153	0.520834	0.520834	2.686547	5.711548	0.520833	PHASE 11 - PERCENT TRACT PARTICIPATION IN UNIT

Page 2 Rev. 1/9/64.

EXHIBIT "C" (Cont) PFARSALL QUEEN SAND UNIT LEA COUNTY NEW MEXICO

SUMMARY OF WORKING INTEREST UNIT PARTICIPATION الت سين الله جنوبات الموجوع اليه اليه الما المواجع التي المواجع الموجوع الموجوع الموجوع

	TOTAL PARTICIPATION IN UNIT		
	PHASE_1	PHASE 11	
Ambassador Oil Corporation	25.201746	68.804703 0.271096	
Janice Lee Ballard Anderson	5 458311	1 626579	
John M. Beard K. V. Dahl	0 454859	0.135548	
Dixon & Yates	0 691355	3.495563 0.894618	
F. W. Holloway, Jr	3,002071 43,182348	7.822372	
B. M. Jackson Minntex Oil Company	10.916621	3.253157	
E. R. Monson	1.091662	0,325316	
Reading & Bates, Inc.	7.810969 0.588985	6,906015 2,975470	
S. P. Yates Yates Petroleum Corporation	0,691355	3,495563	
Yates Petroleum corpora		100,000000	
	100,000000	100,000000	

Page 3

Revised 1/9/64.

UNIT AGREEMENT

PEARSALL QUEEN SAND UNIT

<u>.</u>

Lea County, New Mexico

Line Bacs" INDEX

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	EVUIDIT UNU (Man of Unit Area)	

EXHIBIT "A" (Map of Unit Area)

EXHIBIT "B" (Schedule of Ownership)

EXHIBIT "C" (Schedule of Unit Participation)



1954 MAR TOA THE OF POR EDV MENK 59 91

STATE ENGINEER OFFICE

February 28, 1964

S. E. REYNOLDS State engineer

March 18 Korving ADDRESS CORRESPONDENCE TO: STATE CAPITOL SANTA FE, N. M.

1100 3005

Mr. A. L. Porter, Jr. Secretary-Director Oil Conservation Commission Santa Fe, New Mexico

Dear Mr. Porter:

Reference is made to the application of Ambassador Oil Corporation which seeks approval of the Pearsall Queen Sand Unit and Waterflood Project, which was submitted on February 11, 1964.

In view of the statement contained in the letter to me which accompanied the application "These waters will be injected through tubing and packer set immediately above the pay zone within the production casing," it appears that no threat of contamination to the fresh waters which may exist in the area will occur. Therefore, this office offers no objection to the granting of this application, provided we are furnished with an accurate description of the source of the water to be injected when the selection has been made and further provided that we are supplied with an analysis of the source water.

Very truly yours,

S. E. Reynolds State Engineer

By: ON Frank E. Irby

Chief Water Rights Div.

FEI/ma cc-Mr. E. A. Riley Mr. James T. Jennings F. H. Hennighausen PAGE -2-

MARCH 11, 1964 EXAMINER HEARING

- CASE 3004: Application of Ambassador Oil Corporation for a unit agreement Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval of the Pearsall Queen Sand Unit comprising 960 acres of State and Federal land in Townships 17 and 18 South, Range 32 East, Lea County, New Mexico.
- CASE 3005: Application of Ambassador Oil Corporation for a waterflood project, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to institute a waterflood project in the Pearsall (Queen) Pool, Lea County New Mexico, by the injection of water into the Queen formation through 5 wells, located in Sections 4 and 5 Township 18 South, Range 32 East.
- <u>dASE 3006</u>: Application of Continental Oil Company for a waterflood project, Lea County, New Mexico. Applicant in the above-styled cause, seeks authority to institute a waterflood project in the Pearsall (Queen) Pool, Lea County, New Mexico, by the injection of water into the Queen formation through one well located in Unit M of Section 33, Township 17 South, Range 32 East.
- CASE 3007: Application of Consolidated Oil & Gas, Inc. for a triple completion, Rio Arriba County, New Mexico. Applicant, in the above-styled cause, seeks approval of the triple completion (conventional) of its Hoyt Well No. 2-5, located in Unit L of Section 5, Township 26 North, Range 4 West, Rio Arriba County, New Mexico, to produce gas from the Basin-Dakota and Blanco Mesaverde Gas Pools and oil from an undesignated Gallup oil pool through parallel strings of 2 1/16 inch, 1 1/2 inch, and one inch tubing, respectively.
- CASE 3008: Application of Phillips Petroleum Company for a triple completion, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval of the triple completion (conventional) of its Santa Fe Well No. 87, located in Unit L of Section 31, Township 17 South, Range 35 East, Lea County, New Mexico, to produce oil from the North Vacuum-Abo, Vacuum-Wolfcamp and Vacuum-Glorieta Pools through parallel strings of 2 3/8-inch OD tubing.
- CASE 3009: Application of Cities Service Oil Company for a dual completion, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval of the dual completion (conventional) of its Owen No. 1 Well located in Unit P of Section 35, Township 21 South, Range 37 East, Lea County, New Mexico, to produce oil from the Blinebry and Drinkard Oil Pools through parallel strings of 1¹/₂inch and 2 1/16-inch tubing, respectively.
- CASE 3010: Application of R. C. Davoust for the expansion of a waterflood project, Eddy County, New Mexico. Applicant, in the above-styled cause, as successor to Stanton Oil Company, Ltd., seeks to expand the Turkey Track Pool Waterflood Project authorized by Order No. R-1524. Said expansion would be effected by the drilling of 11 water injection wells to the Queen formation at certain unorthodox locations no nearer than 5 feet distance from any 40acre lot line in Section 34, Township 18 South, Range 29 East, and Section 3, Township 19 South, Range 29 East, Eddy County, New Mexico.

Docket No. 7-64

DOCKET: EXAMINER HEARING - WEDNESDAY - MARCH 11, 1964

9 A. M. - OIL CONSERVATION COMMISSION CONFERENCE ROOM, STATE LAND OFFICE BUILDING - SANTA FE, NEW MEXICO

The following cases will be heard before Daniel S. Nutter, Examiner, or Elvis A. Utz, Alternate Examiner:

CASE 2988 (Continued from the February 5, 1964 Examiner Hearing)

In the matter of the hearing called by the Oil Conservation Commission on its own motion to permit George E. Willett and all other interested parties to appear and show cause why the SDD Hare Weli No. 7, located 600 feet from the South line and 1360 feet from the East line of Section 14, Township 29 North, Range 11 West, San Juan County, New Mexico, should not be plugged in accordance with a Commission-approved plugging program.

CASE 2998 (Continued from the February 19, 1964 Examiner Hearing)

Application of Tenneco Oil Company for a gas well-water injection well, San Juan County, New Mexico. Applicant, in the above-styled cause, seeks authority to dually complete its Central Totah Unit Well No. 24 located in Unit O of Section 11, Township 28 North, Range 13 West, San Juan County, New Mexico, to produce gas from the Basin-Dakota Gas Pool through 1 1/2 inch tubing and to inject water into the Gallup formation, Totah-Gallup Oil Pool, through 2 1/16 inch tubing with separation of the zones by a packer set at 5766 feet.

- <u>CASE 3001</u>: In the matter of the hearing called by the Oil Conservation Commission on its own motion to permit O. A. Peters and all interested parties to appear and show cause why the Peters State Well No. 1, located 860 feet from the South line and 660 feet from the East line of Section 2, Township 1 North, Range 20 East, De Baca County, New Mexico, should not be plugged in accordance with a Commission-approved plugging program.
- CASE 3002: Application of Pan American Petroleum Corporation for the creation of a new gas pool and for special pool rules, Lea County, New Mexico. Applicant, in the above-styled cause, seeks the creation of a new Lower Paddock Gas Pool for its SMU Well No. 16, located in Unit O of Section 15, Township 24 South, Range 37 East, and the establishment of special pool rules therefor, including a provision for 320-acre spacing. Lea County, New Mexico.
- CASE 2737 (Reopened): In the matter of Case No. 2737 being reopened pursuant to the provisions of Order No. R-2429-A, which order established temporary 640-acre spacing units for the White City-Pennsylvanian Gas Pool, Eddy County, New Mexico, for a period of one year. All interested parties may appear and show cause why said pool should not be developed on 160-acre spacing units.
- CASE 3003: Application of Cabot Corporation for the creation of a new oil pool and for special pool rules, Chaves County, New Mexico. Applicant, in the abovestyled cause, seeks the creation of a new Bough "C" Oil Pool for its Signal State Well No. 1, located in Unit A of Section 29, Township 8 South, Range 33 East, Chaves County, New Mexico, and for the establishment of temporary pool rules therefor, including a provision for 80-acre proration units.

GO' 7 EDWIN A CHAI

State of New Wexico I Conservation Commission

STATE GEOLOGIST A. L. PORTER, JR. SECRETARY - DIRECTOR

LAND COMMISSIONER E. S. JOHNNY WALKER MEMBER

> P. O. BOX 871 Santa Fe

Mr. James T. Jennings Attorney at Law Post Office Box 1180 Roswell, New Mexico

Gunilanes:

,19_

Enclosed herewith is Commission Order No. R- 2272, entered in Case No. <u>3005</u>, approving the <u>Cembassactor Pearsace</u> <u>Onecu</u> Church Water Flood Project.

According to our calculations, when all of the authorized injection wells have been placed on active injection, the maximum allowable which this project will be eligible to receive under the provisions of Rule 701-E-3 is <u>630</u> barrels per day.

Please report any error in this calculated maximum allowable immediately, both to the Santa Fe office of the Commission and the appropriate District proration office.

In order that the allowable assigned to the project may be kept current, and in order that the operator may fully benefit from the allowable provisions of Rule 701, it behooves him to promptly notify both of the aforementioned Commission offices by letter of any change in the status of wells in the project area, i.e., when active injection commences, when additional injection or producing wells are drilled, when additional wells are acquired through purchase or unitization, when wells have received a response to water injection, etc.

Your cooperation in keeping the Commission so informed as to the status of the project and the wells therein will be appreciated.

Very truly yours,

Jason Kellahin cc: OCC - Hobbs

A. L. PORTER, Jr. Secretary-Director <u>DRAFT</u> JMD/esr

> BEFORE THE OIL CONSERVATION COMMISSION OF THE STATE OF NEW MEXICO

IN THE MATTER OF THE HEARING CALLED BY THE OIL CONSERVATION COMMISSION OF NEW MEXICO FOR THE PURPOSE OF CONSIDERING:

M CASE NO. 3005 Order No. R-2672

APPLICATION OF AMBASSADOR OIL CORPORATION FOR A WATERFLOOD PROJECT, LEA COUNTY, NEW MEXICO.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 o'clock a.m.on <u>March 11</u>, 1964, at Santa Fe, New Mexico, before <u>Daniel S. Nutter</u>. <u>Examiner-duly-appointed-by-the-Gil-Conservation-Commission-of-New</u>. <u>Mexico, hereinafter-referred-to-as-the-"Commission, "-in-accordance</u> with-Rule-1214-of-the-Commission-Rules-and-Regulations.-

FINDS:

(1) That due public notice having been given as required by law, the Commission has jurisdiction of this cause and the subject matter thereof.

(2) That the Pearsall Queen Sand Unit Agreement has been approved by the Commission by Order No. R-____; that the Pearsall Queen Sand Unit Area comprises 960 acres, more or less, of State and Federal land in Townships 17 and 18 South, Range 32 East, NMPM, Lea County, New Mexico, as more fully described in said order.

(3) That the applicant, Ambassador Oil Corporation, seeks mission to institute a waterflood project in the Pearsall (Queen) in the Pearsall Queen Sand Unit Area by the injection of water

> Queen formation through five wells located within said

BEFORE THE (IL CONSERVATION COMMISSION OF THE STATE OF NEW MEXICO lille IN THE MATTER OF THE HEARING CALLED BY THE OIL CONSERVATION COMMISSION OF NEW MEXICO FOR THE PURPOSE OF CONSIDERING: CASE No. 3005 Order No. R-2672 APPLICATION OF AMBASSADOR OIL CORPORATION FOR A WATERFLOOD PROJECT, LEA COUNTY, NEW MEXICO.

ORDER OF THE COMMISSION

BY THE COMMISSION:

<u>DRAFT</u> JMD/esr

This cause came on for hearing at 9 o'clock a.m.on <u>March 11</u>, 1964, at Santa Fe, New Mexico, before <u>Daniel S. Nutter</u>. <u>Examiner-duly-appointed-by-the-Oil-Conservation-Commission-of-New</u> <u>Mexico, hereinafter-referred-to-as-the-"Commission, "-in-accordance</u> with-Rule-1214-of-the-Commission-Rules-and Regulations.-

FINDS:

(1) That due public notice having been given as required by law, the Commission has jurisdiction of this cause and the subject matter thereof.

(2) That the Pearsall Queen Sand Unit Agreement has been approved by the Commission by Order No. R-____; that the Pearsall Queen Sand Unit Area comprises 960 acres, more or less, of State and Federal land in Townships 17 and 18 South, Range 32 East, NMPM, Lea County, New Mexico, as more fully described in said order.

(3) That the applicant, Ambassador Oil Corporation, seeks permission to institute a waterflood project in the Pearsall (Queen) Pool in the Pearsall Queen Sand Unit Area by the injection of water into the Queen formation through five wells located within said unit area. -2-CASE No. 3005

(4) That the wells in the project area are in an advanced The majority puelle Clerum state of depletion and should properly be classified as "stripper" wells.

(5) That the proposed waterflood project is in the interest of conservation and should result in recovery of otherwise unrecoverable oil, thereby preventing waste.

(6) That the subject application should be approved and the project should be governed by the provisions of Rule 701 of the Commission Rules and Regulations.

IT IS THEREFORE ORDERED:

(1) That the applicant, Ambassador Oil Corporation, is
 hereby authorized to institute a waterflood project in the Pearsall
 (Queen) Pool in the Pearsall Queen Sand Unit Area by the injection
 fubing and packer sct immediately above the payrone in of water into the Queen formation through the following-described
 five wells:

TOWNSHIP 18 SOUTH, RANGE 32 EAST, NMPM, LEA COUNTY, NEW MEXICO Section 4 Well No. 4A-1 Located in the Sis/4 NW/4 " " 4-2 " " NE/4 NW/4 Section 5 well he 1-2 Located in the Sw/4 NE/4 " " 3-/ " " NE/4 NE/4 NE/4 SE/4

(2) That the subject waterflood project shall be governed by the provisions of Rule 701 of the Commission Rules and Regulations, including the allowable provisions thereof, and including the provisions with respect to expansion of the waterflod project.

(3) That monthly progress reports of the waterflood project herein authorized shall be submitted to the Commission in accordance with Rules 704 and 1119 of the Commission Rules and Regulations.

(4) That jurisdiction of this cause is retained for the entry of such further orders as the Commission may deem necessary.

DONE at Santa Fe, New Mexico, on the day and year hereinabove designated.