JK 17 187

## OIL CONSERVATION COMMISSION SANTA FE, NEW MEXICO

		Date	1-7-57	
CASE	1185	Hearing Date	12-13-57	·
	My recommendations for an orde	er in the above numbered	d cases are as follow	ws:
pro	en an arder appror eposed julat water	flood prayect	Order sh	1
	following wells	might an ander	ght to have a fill dismissing the which were advertised due to "certain	ading and 2 water flow sect but no
	e Ibex Company	on the	d due to "certain information submit cohemission in to	indescrepani ted to the ne application)
Lei	ver State ho. 4 -	1065 FSL & 1	600 FWL "	T185,R28E
-	Stole no. 1-	1572' FSL & 1	549' FWL "	)) #6
Han	uble State Eddy	_ 2397' FSL & & ho. 4 — 1550' F:	SL & 2088'FEL	11 7/ 73
P	roducing weeks			
St. C.	ever State ho. 8 - 1 owell State ho. 2-12	075' FSL & 156 532' FSL & 20	7 FWL See 4, 88' FWL See 4;	T185,RZ8E T185,RZ8E
pl a	Luggest navng a combi end Order No. R-1 pproval of the above Sequire monthly whole rules 1119 a	when of the 46 as a guide	order in Car , also incorpor Incalians (1)	e 1072 wight Jalso work at Order
d	approval of the above Sequire monthly	injection 1	Staff Member of Sorts as re	no R-137 au R-131-A genrech
	wholer rules 1119 a	ued 104	/	

BRECKENRIDGE OFFICE TELEPHONE 674 P. O. 80X 752

> THE IBEX COMPANY NUFACTURERS OF NATURAL GASOLINE AND L. P. G. PRODUCTS

> > PRODUCERS OF OIL AND GAS

IBEX BUILDING

BRECKENRIDGE, TEXAS

January 14, 1957

Re: Application by The Ibex Company for Pilot Water Flood, Section 4, T-18-S, R-28-E, Artesia Pool, Eddy, County, New Mexico

Oil Conservation Commission Capitol Building Santa Fe, New Mexico

Attention: Mr. Warren Mankin

Gentlemen:

The following are present well locations, which will be affected by the proposed pilot flood, and which are requested to be included under the application for unorthodox locations:

> Ibex Levers State #2,3,4,6,7,8 & 10. Units M,N,O, Section 4, T-18-S, R-28-E. (Of these #2, 3,6 & 8 will be producing wells and #4,7& 10 will be injection wells. At present #2 & #4 are temporarily abandoned wells, and #3, 4,6,7,8 & 10 are producing.

Ibex Humble State Eddy #1, 4 & 5; Unit J, (4-18S-28E) Of these #1 & 5 will be producing wells and #4 will be an injection well. At present #4 & #5 are temporarily abandoned and #1 is producing.

Ibex Cowell State #1,2,10,11; Unit K (4-18S-28E). these #2 and #11 will be producing wells and #1 and #10 will be injection wells. All four are presently temporarily abandoned.

Ibex Welch Solt State #4; Unit L (4-18S-28E). This well will be a producing well. It is currently temporarily abandoned.

If there is any further question, please advise.

ROBERT H. VICK

### CLASS OF SERVICE This is a fast message unless its deferred character is indicated by the

proper symbol.

NL=Night Letter

LT=International; Letter Telegram

The filing time shown in the date line on domestic telegrams is STANDARD TIME at point of behalf Toll of receipt is STANDARD TIME at point of destination (05)

LA221 DB341

D BXA021 PD=BRECKENRIDGE TEX 7 402PMC= OIL CONSERVATION COMMISSION=

1956 NOV 7 PM 3 33

107 CAPITOL BLDG SANTAFE NMEX=

ATTN WARREN MANKINI CONCERNING THEX COMPANY APPLICATION FOR HEARING ON (THREE) ARTESIA FIELD WATER FLOOD PILOTS. LOCATION OF POLOT #2 CORRECTED TO ALSO INCLUDE PORTION OF SOUTH EAST QUARTER OF SOUTH WEST QUARTER SECTION 21 EIGHTEEN S 28 E ALSO WISH TO SECURE RULING ON PRESENT UNORTHODOX LOCATION IN PILOT AREAS AT SAME HEARING. DETAIL LETTER FOLLOWING=

THE IBEX CO ROBT H VICK=

ETGHTEENES 28EE 21

THE COMPANY WILL APPRECIATE SUGGESTIONS FROM ITS PATRONS CONCERNING ITS SERVICE

## THE IBEX COMPANY

MANUFACTURERS OF NATURAL GASOLINE AND L. P. G. PRODUCȚS
PRODUCERS OF DIL AND GAS

IBEX BUILDING

Breckenridge, Texas November 8, 1956

Oil Conservation Commission 107 Capitol Building Santa Fe, New Mexico

Attention: Mr. Warren Mankin

Gentlemen:

Following is the detailed information to the "Telegram", sent today, concerning The Ibex Company's application for a formal hearing to secure approval to install three (3) pilot waterfloods in the Artesia Field, Eddy County, New Mexico.

We wish to ammend the information stated in our original application as follows: First, the "Pilot Flood #2" would be as shown on the plat attached thereto. Correct description for location of same would include the SE/4 of SW/4 of Section 21, as well as the upper portion of Section 28, 18-S, 28-E, Eddy County, as shown.

Second, we would like to secure a ruling on unorthodox well locations in the immediate area of the three (3) pilots. We are currently conducting a re-survey of all the present well locations. This will be available at the scheduled hearing. At that time we can definitely specify the wells that will need special spacing ruling. Most of the wells were drilled at an early date before present spacing and unit rulings were enacted. The average spacing we have projected for the proposed pilot floods would be from 10-acre to 15-acre 5-spot patterns. This small spacing would allow faster and more controlled evaluation of the pilot floods. Any expansion of the "pilot floods" might be placed on a much larger pattern, depending upon the above results.

If possible, we would like to secure from the Commission hearing, November 28, 1956, some type of flexible ruling concerning the above point that would enable future expansions and spacing allowances by letter form to the Commission instead of scheduled hearings.

We would also like to discuss the future allowable situation of the proposed waterflood projects. With the thought in mind of establishing some ruling in regard to production, that would allow the most efficient operation of the projects.

### 2 - Oil Conservation Commission

We will present all of the material you requested at the scheduled hearing in Hobbs, New Mexico.

Sincerely yours,

ROBERT H. VICK

rhv/jbm

cc: The Ibex Company
Box 1110
Graham, Texas

Mr. Harold Kersey Booker Building Artesia, New Mexico

Mr. Vilas P. Sheldon Carper Building Artesia, New Mexico

Mr. Van S. Welch Booker Building Artesia, New Mexico

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

February 18, 1957

Mr. Robert H. Vick The Ibex Company P.O. Box 751 Breckenridge, Texas

Dear Sir:

We enclose a copy of Order R-952 issued February 14th by the Oil Conservation Commission in Case 1185, which was heard December 13th.

Very truly yours,

A. L. Porter, Jr. Secretary - Director

bp Encl.

## THE IBEXECOMPANY

MANUFACTURERS OF NATURAL GASOLINE AND L. P. G. PRODUCTS
PRODUCERS OF QULANO GAS

IBEX BUILDING

BRECKENRIDGE, TEXAS

November 2, 1956

Oil Conservation Commission Capitol Building Santa Fe, New Mexico

Attention: Mr. A. L. Porter

Gentlemen:

The Ibex Company requests a hearing be scheduled to obtain Commission approval to install three (3) pilot water floods in the Premier Sand formation in the Artesia Field of Eddy County, New Mexico. The three (3) separate pilot floods are proposed for the following locations:

No. 1 - in Section 4, Township 18 South, Range 28 East No. 2 - in Section 28, Township 18 South, Range 28 East No. 3 - in Section 32, Township 18 South, Range 28 East

Following is the complete information requested according to Rule 701 of the Conservation Commission Rules and Regulations:

- I. Field plat, showing all wells in the area and the relative locations of the three (3) separate proposed pilot waterfloods, is attached.
- II. Production of the subject area is obtained from the "Premier Sand" of the lower Grayburg formation.
- III. Proposed water injection will be through the indicated wells, shown on the attached plats, into the Premier Sand section of the Grayburg.
- IV. A copy of the Radioactivity Log of a well in the vicinity of the proposed pilot floods is attached.
- V. All proposed intake wells will be re-entered, cleaned out and  $4\frac{1}{2}$ " casing set and cemented on the immediate top of the Premier Sand. All other zones will be cased or plugged off so as to isolate the water injection to the Premier Sand.

VI. Fresh water is to be used for injection purposes. The water is to be produced from presently completed water wells in the respective areas. All subject water wells are completed in a sand and gravel interval at 340' to 375' depth. None of the three (3) respective areas from which fresh water shall be produced are included in any presently established water basin. The Ibex Company has made formal application for water prospecting rights covering all the subject areas.

VII. The operator of the proposed projects will be The Ibex Company, Box 752, Breckenridge, Texas, Attention: Mr. Robert H. Vick.

Anything that you may do to schedule the earliest possible date for the requested hearing will be greatly appreciated.

Sincerely yours,

THE IBEX COMPANY

Robert H. Vick Waterflood Engineer

delar H. Pach

rhv/jbm attachments (2)

cc: The Ibex Company, Box 1110, Graham, Texas
Harold Kersey, Booker Building, Artesia, New Mexico
E. E. Nearburg, Box 5613, Roswell, New Mexico
Vilas P. Sheldon, Carper Building, Artesia, New Mexico
Van S. Welch, Booker Building, Artesia, New Mexico

OIL CONSTIVEN COMMISSION
SANTA F. REW MEXICO
THEY
CASE 1185

WATERFLOOD DATA FOR HEARING BEFORE COMMISSION

HEA	RATO	H_T	he Ibex Company	DATE December 1, 1956
EAS	SE 0	R LE	EASES See Attached List	
EIE		P	Portion of Artesia Field	COUNTY Eddy Co., N.M.
≀ESI	er <b>v</b> o.	IR n	Premier Sand" of Grayburg Formation	n de grego de la coloria de coloria de alla del coloria de grego de coloria de la coloria de colori
iate	e of	com	apletion of first well in reservoir 1924	and the state of t
.ist	t otl	her	operators injecting into this reservoir in thi	s field Red Lake Unit
2 1	ille:	s No	orth) has been injecting water into the same sa	nd, but different ræservoi
or	16 r	nont	hs.	
domer w	(, eric <b>ip i</b> r parita	14, <del>1 </del>		priving with the property of t
			lat of field showing lease or leases to be floo posed injection wells, well locations on offset	
. 6			oir and fluid characteristics formation on entire reservoir	
		1.	Name of reservoir "Premier Sand" of Grayburg	Formation
		3	Estimated productive area of entire reservoir Composition (sand, limestone, dolonite, etc.)	1500 acres
		Ħ."	Structure stratigraphic trap	
			structure and isopach maps included (Include structural and cross-section maps)	,
		5.	Type drive during primary production solution	n gas
		6. 7.	Original reservoir pressure unknown Was gas cap present originally? unknown	At present? no
	в.		Cormation on proposed project area	ntual total: Approx. 600 a
		1. 2.	Number of productive acres in lease or leases Average depth to top of pay (feet) 1950 (or	to be flooded as ac in pi
		3.	Estimated average effective thickness (feet)	15 (from isopach map)
		4.	Estimated average porosity (%) 11.5	
		5. 6.	Average horizontal permeability (mds.) 50 Connate water content (% of pore space) 15	Range <b>0-150</b>
		7.	Gravity of oil (API) 350	His directivation from the environment destination and accompanies and the administrative continues as a first
		8.	Viscosity of oil (centipolses) Est at 10 cp.	
Ĩ.	Pr	i war	ry production history and present status	:
		200	Date first well completed on lease or leases Oil, gas, water production history by months present time. (Suggest data he presented grabular form.) *See below.	since date of discovery to phically as well as in
		3 ·	Stage of depletion of project area stripped washer of producing wells on each idage in pr	
		13 45	Average daily oil production per well at pres	cent time 1 to 5 bbl/day
		6.	Comulative oil production to date from lease	or leases to be flooded
		*9 1 ···	Approximately 930,000 bbls total from the Satinated oil saturation at present time (% o	e area. If pore space) and
		8.	11 project area has had gas repressuring, olv	re details and results, sur
			as equalative gas injected, number of injection high ges-oil ratio experience, production inc	on wells, by-passing or - reases
		ناسا مريد	No artificial stimulation except some sand fr	
		CE o	as equilative gas injected, number of injectioning the production incomes.	on wells, by-passing or reases.

No individual well or lease production histories are available, since some wells and leases outside the area were included in some of the operators' production reports.

	THE STEEL STORE LANDE
12.	Gertion (Presently completed water wells indicated on plat.) Source of injected water (formations, depths) Red Sand formation @ 300'-400' Fresh or salt water fresh  Open or closed system semi-closed  Treatment of injected water filtering and chemical treatment as needed  Pattern and spacing simulated five-spot, approximately 16 acres each.  Initial injection pressure to be used (psi) as needed—est. at 500 to 800 psi Estimated initial per well rate of injection (bbls.) 300 BWPD  Will oil wells be converted into injection wells or will injection wells be drilled? (If to be converted, give well numbers,) Yes (See attached plat)
Mary of Superior Books National Control	
www.com.hummond.com/debbs-broscom/ numbered community control in survivors	
9.	Will additional oil wells be drilled? Yes Location 330' FNL
& 330' FW	IL of SW/h of SE/h Section h. T-18S, R-28E.
1	Estimated residual oil saturation at abandonment (% of pore space) 20%  Estimated ultimate additional oil that will be recovered as a direct result of injection (bbls.) 820,000
3.	Estimated original oil in place (bbls.) 4.000.000.
	amendations and reasons therefor: Installation of secondary recovery measures by present means available to recover approximately 800,000 bbls of oil that
	erwise be wasted in the form of non-recoverable reserves.
AND CONTRACTOR OF THE PROPERTY	
Result in solida Herrich, Elementable en	
Language and Market and Language	
- Gratic grown of laboration in the	
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resonancia de la composición dela composición de la composición de la composición dela composición dela composición dela composición dela composición del composición dela composición del composi	line で でっぱるようなない これではない これではない これでは 10mm で
all a superior and see that	COME OF A STATE OF THE WORLD WINDOWS AND A STATE OF THE S

### PILOT FLOOD #1

### List of all leases in this area operated by The Ibex Company:

- 1. Ibex Cowell State: Unit K of Section 4.
- 2. Ibex Solt State: Units B, F, G of Section 4 and Units A, B, L, O & P of Section 5.
- 3. Ibex Daugherity State: Unit D of Section 4.
- 4. Ibex Daugherity State Solt: Unit E of Section 4.
- 5. Ibex Levers State: Unit B of Section 8, Units M, N, & O of Section 4, and Unit I of Section 5.
- 6. Ibex C. J. Williams State: Unit L of Section 17 and Unit H of Section 5.
- 7. Ibex Humble State Stout: Unit I of Section 4.
- 8. Ibex Humble State: Unit C of Section 4.
- 9. Ibex Humble State Eddy: Unit J of Section 4.
- 10. Ibex Welch Soit State: Unit L of Section 4.

All of the above leases are in T-18-S, R-28-E. Relative positions are indicated on the submitted plat.

## OIL CONSERVATION COMMISSION

P. O. BOX 871 SANTA FE, NEW MEXICO

July 17, 1959

Mr. Jack Campbell Box 721 Roswell, New Mexico

Dear Mr. Campbell:

On behalf of your client, Graridge Corporation, we enclose two copies of Order No. R-952-A and Order No. R-966-E issued July 15, 1959, by the Oil Conservation Commission.

Very truly yours,

A. L. PORTER, Jr. Secretary-Director

ir/

Enclosures

# OIL CONSERVATION COMMISSION SANTA FE, NEW MEXICO

	Date	7- 1-59
CASE NO.	HEARING DATE_	6-24-59
My recommendations for an as follows:	order in the above num	bered case(s) are
as follows:  / Offsprover Shar  administrations &  the artern Pilo	pridge opplica prioritzing I flood 1.	jection welle for
2. aprivre 15.	non St. Loca	tions as the
3. offine 5.	in section 3	pacity allowables.
		Theat. Wh

Staff Member