CAMPBELL & BLACK, P.A.

LAWYERS

JACK M. CAMPBELL
BRUCE D. BLACK
MICHAEL B. CAMPBELL
WILLIAM F. CARR
BRADFORD C. BERGE
J. SCOTT HALL
PETER N. IVES
LOURDES A. MARTINEZ

JEFFERSON PLACE
SUITE I - IIO NORTH GUADALUPE
POST OFFICE BOX 2208

SANTA FE, NEW MEXICO 87501

TELEPHONE: (505) 988-4421
TELECOPIER: (505) 983-6043

October 25, 1985

OCT 94 1985

OIL CONSERVATION DIVISION

HAND DELIVERED

R. L. Stamets, Director
Oil Conservation Division
New Mexico Department of
Energy and Minerals
State Land Office Building
Santa Fe, New Mexico 87501

Re: Application of Union Texas Petroleum Corporation for Extension of the West Lindrith Gallup-Dakota Pool, Rio Arriba County, New Mexico.

Dear Mr. Stamets:

Enclosed in triplicate is the Application of Union Texas Petroleum Corporation in the above-referenced case. Union Texas Petroleum Corporation respectfully requests that this matter be placed on the docket for the Examiner hearings scheduled on November 21, 1985.

Very truly yours,

William F. Carr

WFC/cv enclosures

cc: (w/enclosure)
Mr. Mike Pippin

Memo

From

ERNIE BUSCH Geologist - Field Rep.

10-22-85 To Mike Stoquer, attached is a map showing the relationship of the west Lindrith Gallup Dattota Pool to the otero Gallup. The. ares in question is the N/2 of Sections 182 87 24N-5W. Coll me and well discuss it in more detail-Thanks

Oil Conservation

Aztec, New Mexico

	Township	25 N	_Range	6 W	_County,	25 N	Range	5 W
	Township		Range		Town	nuhip 24 N	Range	5 W
-								
					6			
	-7	9	10	11	12 7	8	9 16	11 12
	-181	7 16	15	14	3 18	17		14 13
	-19 20	21	22	23	4 19	20	21 2	23 24
-	30							25
	30 29	23		26	30	29		
-	313	33.	144	35				
	8		3	2	6			
	7 8	100	10-		12 7		10	
	I De	V//5	3					
	Fo	16			13 18		22	14 13
		0 21	-22	23	24-19			23 24
1	20 2	28	27	.	2530	29	28 27	26 -25
	31 3	2 33	34	35	36 31	32	-33 34	35 - 36-



ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION

TONEY ANAYA GOVERNOR

January 2, 1986

POST OFFICE BOX 2088 STATE LAND OFFICE BUILDING SANTA FE, NEW MEXICO 87501 (505) 827-5800

Mr. William F. Carr Campbell & Black Attorneys at Law Post Office Box 2208 Santa Fe, New Mexico	Re:	CASE NO. ORDER NO. Applicant:	3768 R-8106
	τ	In <u>ion Texas P</u>	etroleum Corporatio
Dear Sir:			
Enclosed herewith are two Division order recently er			
R. L. STAMETS Director			
		·	
RLS/fd			
Copy of order also sent to	:		
Hobbs OCD x Artesia OCD x Aztec OCD x			
Other			



STATE OF NEW MEXICO

ENERGY AND MINERALS DEPARTMENT OIL CONSERVATION DIVISION

TONEY ANAYA

January 20, 1986

POST OFFICE BOX 2088 STATE LAND OFFICE BUILDING SANTA FE, NEW MEXICO 87501 (505) 827-5800

Mr. William F. Carr Campbell & Black Attorneys at Law Post Office Box 2208 Santa Fe, New Mexico	Re:	ORDER NOApplicant:	
Dear Sir:			
Enclosed herewith are two Division order recently er Sincerely,	copie ntered	es of the abo	ove-referenced ject case.
B. L. Seem			
R. L. STAMETS Director			
RLS/fd			
Copy of order also sent to):		
Hobbs OCD x Artesia OCD x Aztec OCD x			
Other		·	

	STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT						
1	OIL CONSERVATION DIVISION						
2	STATE LAND OFFICE BLDG. SANTA FE, NEW MEXICO						
3	21 November 1985						
4	EXAMINER HEARING						
5	DARMINUM MERKING						
6							
7							
8	IN THE MATTER OF:						
9	Application of Union Texas Petro- CASE leum Corporation for an extension 8768						
10	of the West Lindrith Gallup-Dakota Oil Pool, and the contraction of						
11	the Otero-Gallup Oil Pool, Rio Arriba County, New Mexico.						
12	Alliba Councy, New Mexico.						
13							
14	BEFORE: Michael E. Stogner, Examiner						
15	BEFORE: MICHAEL E. SCOGNEL, EXAMINED						
16							
17	TRANSCRIPT OF HEARING						
18							
19	APPEARANCES						
20	ALLDAKAGDD						
21	For the Division: Jeff Taylor Attorney at Law						
22	Legal Counsel to the Division Energy and Minerals Dept.						
23	Santa Fe, New Mexico 87501						
24	For the Applicant: Willam F. Carr						
25	Attorney at Law CAMPBELL & BLACK P. A. P. O. Box 2208 Santa Fe, New Mexico 87501						

I		
		2
1		
2	INDEX	
3		
4	STATEMENT BY MR. CARR	4
5		
6	MIKE PIPPIN	
7	Direct Examination by Mr. Carr	7
8		
9		
10		
11	EXHIBITS	
12		
13	Union Exhibit One, Plat	9
14	Union Exhibit Two, Plat	11
15	Union Exhibit Three, Cross Section	11
16	Union Exhibit Four, Structure Map	13
17	Union Exhibit Five, Cross Section A-A'	13
18	Union Exhibit Six, Cross Section B-B'	13
19	Union Exhibit Seven-A, Log	14
20	Union Exhibit Seven-B, Log	15
21	Union Exhibit Eight, Curve	15
22	Union Exhibit Nine-A, Curve	15
23	Union Exhibit Nine-B, Curve	15
24	Union Exhibit Ten, Curves	16
25		

						3
1						
2			E	хн	IBITS	
3						
4	Union	Exhibit	Eleven, D	ata		18
5	Union	Exhibit	Twelve, W	ater	Analysis	18
6	Union	Exhibit	Thirteen,	Gas	Analyses	19
7	Union	Exhibit	Fourteen,	Oil	Analysis	19
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						

2

3 8768.

5

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

MR. STOGNER: Call next Case

MR. TAYLOR: The application of

Union Texas Petroleum Corporation for an extension of West Lindrith Gallup-Dakota Oil Pool and contraction of the

Otero-Gallup Oil Pool, Rio Arriba County, New Mexico.

MR. CARR: May it please --

MR. STOGNER: Call for appear-

ances.

MR. CARR: May it please Examiner, my name is William F. Carr, with the law firm Campbell & Black, P. A., appearing on behalf of Union Texas Petroleum Corporation.

I have one witness.

STOGNER: Are there any other appearances in this matter?

There being none, will the witness please stand and be sworn.

(Witness sworn.)

MR. CARR: May it please the Examiner, initially, we originally applied to extend the West Lindrith Gallup-Dakota Pool into a certain area in Rio

Arriba County.

Following certain meetings with representatives in the Aztec District Office, it became apparent that the way we had proposed this pool expansion would result in certain acreage that is now within the Gallup-Otero Pool being segregated from that pool. There would be non-contiguous acreage that would still be Otero-Gallup, in the Otero-Gallup Pool.

For that reason we are contracting our application to exclude from our proposed extension the southeast quarter of Section 34 in Township 25 North, Range 5 West, and the northeast quarter of Section 3.

MR. STOGNER: I'm sorry, what?

MR. CARR: And the northeast

quarter, directly below the other one, of Section 3.

MR. STOGNER: Okay, I got the southeast quarter of 34, 25, 5; the northeast quarter of 3.

MR. CARR: Three, and that's in 24 North, 5 West. It's the 60 acres directly south.

MR. STOGNER: All right.

MR. CARR: This will -- this change will result in there not being non-contiguous acreage in the Otero-Gallup Pool. We have met with representatives of the Aztec District Office and it is my understanding that they are in concurrence with this amendement of the applica-

5

_

tion.

2

1

MR. STOGNER: Mr. Carr.

3

MR. CARR: Yes, sir.

4

MR. STOGNER: In looking at No.

5

3, Section 3, I'm sorry, it appears to me only the north

6

half of the northeast quarter of Section 3 is included i

7

the Otero-Gallup, is that correct?

8

MR. CARR: That is correct.

9

MR. STOGNER: Okay.

10

MR. CARR: And, Mr. Stogner, if

11

you would like to refer to our Exhibit Number One, it might

be easier to show what we're attempting to do.

acreage back up with the Otero-Gallup.

12

13

MR. STOGNER: Okay.

14

MR. CARR: You can see the

15

Otero-Gallup Pool with a hatched line in this area and what

16

we are trying to do is avoid a situation where the north

17

half of the north half of 2 would not be contiguous with the

18

rest of that pool, and so we have just proposed to take out

19

of our proposed extension area those two 160-acre tracts im-

20

mediately to the west of Section 2, thereby connecting that

21

22

MR. STOGNER: Thank you, Mr.

23

Carr.

MR. CARR: And, Mr. Stogner, I

24 25

would also note that we just recently reached this agree-

	7
1	ment with the Aztec Office and therefore our exhibits will
2	have to be amended by reference to that extent because they
3	do show all of the proposed extension as we originally re-
4	quested it.
5	MR. STOGNER: Thank you, Mr.
6	Carr.
7	
8	MIKE PIPPIN,
9	being called as a witness and being duly sworn upon his
10	oath, testified as follows, to-wit:
11	
12	DIRECT EXAMINATION
13	BY MR. CARR:
14	Q Will you state your full name and place
15	of residence?
16	A Mike Pippin, spelled P-I-P-P-I-N, and I
17	live in Farmington, New Mexico.
18	Q Mr. Pippin, by whom are you employed?
19	A By Union Texas Petroleum Corporation.
20	Q And in what capacity are you employed?
21	A I'm a petroleum engineer.
22	Q Have you previously testified before this
23	Division?
24	A No, I have not.
25	Q Would you review for Mr. Stogner your

1 educational background and your work experience? 2 I received a Bachelor of Science degree Α 3 in engineering from Southern Illinois University in August, 4 1970. 5 was employed by Texaco, Incorporated, 6 from September, 1970, to December of 1977. With Texaco 7 worked the Illinois Basin for seven years. 8 I then was employed by Northwest Pipeline Corporation for five years and worked the San Juan Basin. 10 In January of '83 I went to work for 11 Union Texas Petroleum Corporation, again working San Juan 12 Basin, and I've been in that job for two and a half years. 13 I am a Registered Professional Petroleum 14 Engineer in New Mexico and my registration number is 6626. 15 Q Mr. Pippin, does your area of 16 responsibility with Union Texas include the portion of 17 Arriba County, New Mexico, which is the subject of today's 18 hearing? 19 Α Yes, it does. 20 Q Are you familiar with this acreage? 21 Α Yes. 22 Q Are you familiar with the application 23 filed in this case on behalf of Union Texas? 24 Α Yes. 25 MR. CARR: We tender Mr. Pippin

1 as an expert witness in petroleum engineering. 2 MR. STOGNER: Mr. Pippin is so 3 qualified. 4 Q Mr. Pippin, will you briefly state what 5 is being sought by Union Texas in this case? 6 A By this application Union Texas Petroleum 7 Corporation is requesting an extension of the West Lindrith 8 Gallup-Dakota Pool, which will give us blanket approval to 9 commingle Dakota and Gallup production and fix the drilling 10 block dedication at 160 acres on our Jicarilla "L" and 11 lease, located in Townships 24 North, 25 North, Range 5 12 West, of Rio Arriba County, New Mexico. 13 Now, Mr. Pippin, you will be able 14 downhole commingle and also increase the spacing because you 15 will come under the special pool rules for the West Lindrith 16 Gallup-Dakota if this application is in fact granted, is 17 that correct? 18 That is correct. A 19 0 And you have reviewed this proposal 20 the Aztec District Office, have you not? 21 Yes, I have. 22 Would you now refer to what has been mar-0 23 ked for identification as Union Texas Exhibit Number One. 24 identify it, and review it for Mr. Stogner? 25 Α Okay. Exhibit Number One is map

showing UTPC acreage, which is shaded, in Rio Arriba County, New Mexico.

The area enclosed in orange is the existing West Lindrith Gallup-Dakota Pool. The area enclosed by the blue hatching is the Otero-Gallup Pool. The area enclosed in yellow is our proposed extension to the West Lindrith Gallup-Dakota Pool.

Of course, this has been modified as previously stated.

Also represented are the Gallup-Dakota commingled wells. Those in the West Lindrith Gallup-Dakota Pool were commingled by State Order R-4314 and those in the UTP shaded acreage were commingled by Order R-5354.

The map also represents Gallup-Dakota dual wells and all of the Dakota single wells.

The offsetting wells and leases are shown and the ownership of each, and this is -- all of our acreage is Federal lease.

Q And are you familiar with the rules governing the West Lindrith Gallup-Dakota Pool?

A Yes, I am.

Q And do these -- what is the spacing provided for in these pool rules?

A The spacing is 160 acres. The Gallup and Dakota are treated as one pool in the commingle.

1 Q What is the spacing for the Otero-Gallup 2 Oil Pool? 3 A The Otero-Gallup has a 40-acre well spac-4 ing which applies only to the Gallup formation. 5 Has in fact the Otero-Gallup formation 6 been developed on 40-acre spacing, on a 40-acre spacing pat-7 tern? 8 Α No. it has not. At the best I would say 9 160-acre spacing when it's economical. In many places it's 10 not even 160. 11 Would you now refer to what has been mar-12 ked as Union Texas Petroleum Exhibit Number Two and identify 13 this and review it, please? 14 A Similar to Exhibit Number One, this plat 15 shows all the Dakota wells, along with the existing pool and 16 the proposed pool extensions. 17 Otherwise it's the same as Exhibit One. 18 0 All right. Would you now go to Exhibit 19 Number Three and review that, please? 20 Α This is a composite of the previous 21 maps and we show UTPC acreage in Rio Arriba County, New Mex-22 ico. 23 This is our cross section index map 24 cross sections which we will present later are repre-25 sented here.

1 0 Mr. Pippin, are there certain wells de-2 picted on this map that have been drilled by Union Texas for 3 which no connection has been obtained? 4 Α Yes. We have a well in the southeast 5 quarter of Section 4 which we drilled in 1984. It's the 6 Jicarilla "N" No. 1-E, Unit letter O. We drilled this in 7 '84 and we've been unable to get the pipeline to connect the 8 well. Q Do you anticipate that you could encoun-10 similar problems with a pipeline for additional wells 11 that you may drill in this area? 12 Α Yes, I do. 13 0 Do you have any plans at this time for 14 additional development within the extension area? 15 Α After a series of demands and appeals, we 16 have been ordered to drill a well on this acreage. 17 on drilling a well in the southeast quarter of Section 18 25 North, 5 West. 19 And who has made these demands on you? 0 20 Α The BLM. 21 0 Will granting this application avoid the 22 potential for further demands to develop this acreage on a 23 40-acre spacing pattern? 24 Α Yes, it will.

Will you -- is the ownership common

in

25

Q

 the Gallup and Dakota formations under the entire area into which you propose to extend the West Lindrith Gallup-Dakota Pool?

A Yes.

Q Would you now refer to what has been marked as Exhibit Number Four and review this for the Examiner?

UTPC acreage in Rio Arriba County, New Mexico. It indicates structure using the top of the Dakota as datum. Although the structure is not really important in making a well in this area, the map indicates that the UTPC State acreage and West Gallup-Dakota acreage are not separated structurally in any way.

Q Will you now go to your cross section A-A', which is Exhibit Number Five, and review this?

A This is a cross section from our Jicarilla "L" No. 4 through Jicarilla "L" No. 6-E.

It indicates that both Gallup and Dakota are the same continuous zones throughout the length of this cross section.

Q Now would you take out Exhibit Number B and review that quickly also -- cross section B-B', which is marked Exhibit Six?

A Exhibit Six is a three-well cross section which may be seen on the index map, Exhibit Three. The

cross section, Exhibit Six, is from Jicarilla "L" No. 5 through Jicarilla "L" No. 2. This also indicates that both Gallup and Dakota formations are the same continuous zone throughout the length of the cross section.

Q And, Mr. Pippin, both your cross sections examine the formations within the extension area.

Would you now take out Exhibit Seven-A and using that compare the formations as they exist within the West Lindrith Gallup-Dakota Pool with these formations as they exist in the proposed extension area?

A Okay. Please correlate Exhibit Seven-A with Exhibit Five. Exhibit Seven-A should go to the right of Exhibit Five next to the Jicarilla "L" 6-E.

Consistent with the structure map the Gallup and Dakota producing intervals are continuous from the UTPC acreage into the West Lindrith Gallup-Dakota Pool. Therefore, geologically there is no reason to treat our acreage differently from West Lindrith Gallup-Dakota.

Q And Exhibit A, the log of the Jicarilla Tribal 35 A No. 1 Well, this is a log of a well within the West Lindrith Gallup-Dakota Pool.

A That is correct.

Q Would you now please refer to what has been marked Exhibit Seven-B and correlate the intervals on this log with those depicted on your B-B' cross section,

being Exhibit Number Six?

A Exhibit Number Seven-B needs to be correlated with the righthand side of Exhibit Six.

Exhibit Seven-B is the Jicarilla Gas Com

••

35 C No. 1, which is in the West Lindrith Gallup-Dakota Pool. It's approximately 3863 feet from our Jicarilla L No. 2.

This is also consistent with the struc-

ture map. It shows the Gallup and Dakota producing intervals are continuous from the UTPC acreage into the West Lindrith Gallup-Dakota Pool.

Q Mr. Pippin, I'd now like to direct your attention to what has been marked Union Texas Exhibit Number Eight and ask that you identify this and then review the information on this exhibit with Mr. Stogner.

A Exhibit Number Eight is a production composite curve of the six UTPC wells commingled by Order R-5354 in July of 1977.

Note the production increase in July of '77 when we actually commingled the wells.

Q Will you now refer to Exhibits Nine-A and Nine-B?

A Exhibits Nine-A and B are individual producing curves from the dual well Jicarilla N No. 2. Although we have commingling authorization under Order R-5354,

we could not commingle this well due to different pipelines dedicated to each producing interval. We therefore have individual flows from the respective formations.

Exhibit Nine-A shows the Dakota in Jica-rilla N-2. It shows the Dakota. It indicates a consistent decline rate with the exception of pipeline curtailment in late '82 and 1983.

Exhibit Number Nine-B shows the Gallup production from the same dual well. Instead of a consistent decline this well started producing erratically in 1981. I would conclude that commingling would have helped stabilize this well's production.

In your opinion based on your experience in the area, does the Gallup perform in a more stable fashion if it is commingled with the Dakota?

A Yes, it does.

Q Would you go to Exhibit Number Ten, identify Exhibit Ten, which consists of a number of sets of curves, and review at least the first couple of curves for us?

A Exhibit Ten has three curves from each of the six wells that we commingled in 1977.

The first of each of these six sets is the Gallup and Dakota production added together.

The first page in Exhibit Ten is the

Jicarilla L-6. It shows the commingled Gallup-Dakota production. Please note the increase in July of '77 when the well was commingled.

On the next page we have indicated individual Gallup and Dakota production for the same time period. The top curve, the Dakota, produced consistently before the commingling but the bottom curve, the Gallup, was very inconsistent before we commingled. They are producing more hydrocarbons after the commingling. They're producing more efficiently due to commingling.

The next page shows the Gallup-Dakota production added together in our Jicarilla N No. 1. Please note the increased production in July of '77 when the well was commingled.

The page after that shows the individual Dakota and Gallup production from Jicarilla N-1. Again the Dakota shows a consistent decline but the Gallup is very inconsistent before we commingled; thus we are making more hydrocarbons and producing more efficiently.

I won't go through all these curves and I don't want to give the impression that the advantages of commingling are always as obvious as they appear in these two wells.

Q But can you say, though, as a general rule that the Gallup performs better once it has been com-

Exhibit

1 mingled with the Dakota in this area? 2 Α Yes, very definitely. 3 Would you now refer to what has been mar-4 ked Exhibit Eleven and review this for Mr. Stogner? 5 A Exhibit Eleven shows production figures 6 all Gallup and/or Dakota wells in the six sections 7 which will be affected by this proposal. Please note the average Gallup production 9 is 21.5 MCF per day, 1.2 barrels of oil per day. This would 10 be an uneconomical well if drilled as a single. 11 The Dakota average production is 84 MCF 12 per day and 1.5 barrels of oil per day. This would be only 13 a marginal well if drilled as a single. 14 Together these wells make a more economi-15 cal venture. 16 0 Would you now refer UTP to 17 Twelve, identify this and review it? 18 A Exhibit Number Twelve is an analysis of a 19 water sample taken from both the Gallup and Dakota producing 20 streams from our dual well on our acreage, the Jicarilla N 21 No. 2. 22 Ιt shows that the Gallup and Dakota 23 waters from the well are compatible; that is, there should

be no detrimental effects when we mix them, such as

precipitate. This is consistent with what we have observed

25

24

1 since July of 1977 in the six wsells we've commingled. 2 Will you now go to Exhibit Thirteen 3 review that? 4 A Exhibit Thirteen shows a gas analysis of 5 both Gallup and Dakota gas from gas samples taken from the 6 dual well, Jicarilla N No. 2. The results indicate that the 7 gas is very similar in gravity and BTU content. 8 0 And now go to Exhibit Number Fourteen. 9 A Exhibit Fourteen is an analysis of both 10 Gallup and Dakota oil from samples taken from our dual well, 11 Jicarilla N No. 2. The main results are on the second page. 12 It states that there should be no detrimental effects, such 13 as precipitates, when the oils are mixed. 14 This again is consistent with what 15 have observed in our six commingled wells in the area since 16 July of 1977. 17 0 And you anticipate no compatibility prob-18 from commingling either water, gas, or oil in these 19 wells. 20 Α I do not. 21 Q All right. At the present time are you 22 flowing the Dakota and the Gallup or are they being artifi-23 cially lifted? 24 Α We are flowing both zones. 25 Q Do you anticipate any problem with

20 1 flow between either the -- between the Gallup and the 2 Dakota if in fact commingling authority is granted? 3 Α I do not anticipate any cross flow prob-4 lems. 5 Q Are the reservoir characteristics of each 6 of these pools such that underground waste would not 7 caused by commingling? 8 Α No. 9 Q And in your opinion will granting this 10 application result in the increased recovery of hydrocar-11 bons? 12 Α Yes, it will. 13 Will the value of the commingled produc-Q 14 in the extension area exceed the values of the produc-15 tion from each of the individual zones? 16 Α Yes, it will. 17 And in your opinion will economic savings 0 18 result if in fact this application is granted? 19 A Very definitely. We won't have to drill 20 unnecessary wells and we should be able to increase the ul-21 timate reserves from any future Gallup-Dakota wells drilled. 22 In your opinion will granting this appli-Q 23 cation be in the best interest of conservation, the preven-24 tion of waste, and the protection of correlative rights? 25 Α Yes, it will.

1 Were Exhibits One through Fourteen pre-Q 2 pared by you or compiled under your direction and supervi-3 sion? 4 A Yes, they were. 5 MR. CARR: Mr. Stogner, at this 6 time we would offer into evidence Union Texas Petroleum Cor-7 poration Exhibits One through Fourteen including both sub-8 parts of Exhibits Seven and Nine. 9 MR. STOGNER: Exhibits One 10 through Fourteen, inclusive, will be admitted into evidence 11 at this time. 12 MR. CARR: That concludes my 13 direct examination of Mr. Pippin. 14 MR. STOGNER: Any questions? 15 I have no questions of Mr. 16 Pippin. 17 Is there anything further in 18 this case? 19 MR. CARR: Nothing further, Mr. 20 Stogner. 21 MR. STOGNER: Does anybody else 22 have anything further in Case 8768? 23 If not, this case will be taken 24 under advisement. 25 (Hearing concluded.)

CERTIFICATE

I, SALLY W. BOYD, C.S.R., DO HEREBY CERTIFY that the foregoing Transcript of Hearing before the Oil Conservation Division (Commission) was reported by me; that the said transcript is a full, true, and correct record of the hearing, prepared by me to the best of my ability.

Tolleyler Boyd CSR

I do hereby certify that the foregoing is a complete record of the proceedings in the Examiner hearing of Case No. 8768, heard by me on 2/ November 1985.

Oil Conservation Division