1	STATE	OF NEW MEXICO	
2	ENERGY AND N	MINERALS DEPARTMENT	
3		ERVATION DIVISION AND OFFICE BLDG.	
	SANTA I	FE, NEW MEXICO	
4		eptember 1983 MINER HEARING	
5			
	IN THE MATTER OF:		
6	Application of Su	in Exploration and C	ASE
7	Production Compar	ny for an unorthodox 7	963
8	oil well location Mexico.	n, Lea County, New	$\frac{1}{1} \frac{\pi_1 \pi_2}{\pi_2 \pi_3} \frac{\pi_2 \pi_4}{\pi_2}$
0			
9			£
10			
IV .			
11	BEFORE: Michael E. Stogne	- Draminar	
12	DEFUNE: FICHACI II. CCC5	if, Examinet	
. 13	TRANSCI	TOO OR HEADING	
		RIPT OF HEARING	
14		KIPI OF HEARING	
		RIPI OF HEARING	
14 15			
		E A R A N C E S	
15 16			
15 16 17			
15 16	A P P I For the Oil Conservation	E A R A N C E S W. Perry Pearce, Esq.	
15 16 17	АРРІ	W. Perry Pearce, Esq. Legal Counsel to the State Land Office Bld	Division g.
15 16 17 18 19	A P P I For the Oil Conservation	W. Perry Pearce, Esq. Legal Counsel to the	Division g.
15 16 17 18	A P P I For the Oil Conservation	W. Perry Pearce, Esq. Legal Counsel to the State Land Office Bld	Division g.
15 16 17 18 19	For the Oil Conservation Division:	W. Perry Pearce, Esq. Legal Counsel to the State Land Office Bld Santa Fe, New Mexico	Division g. 87501
15 16 17 18 19 20 21	A P P I For the Oil Conservation	W. Perry Pearce, Esq. Legal Counsel to the State Land Office Bld Santa Fe, New Mexico W. Thomas Kellahin, E KELLAHIN & KELLAHIN	Division g. 87501
15 16 17 18 19 20	For the Oil Conservation Division:	W. Perry Pearce, Esq. Legal Counsel to the State Land Office Bld Santa Fe, New Mexico W. Thomas Kellahin, E KELLAHIN & KELLAHIN P. O. Box 2245	Division g. 87501 sq.
15 16 17 18 19 20 21	For the Oil Conservation Division:	W. Perry Pearce, Esq. Legal Counsel to the State Land Office Bld Santa Fe, New Mexico W. Thomas Kellahin, E KELLAHIN & KELLAHIN	Division g. 87501 sq.
15 16 17 18 19 20 21 22 23	For the Oil Conservation Division:	W. Perry Pearce, Esq. Legal Counsel to the State Land Office Bld Santa Fe, New Mexico W. Thomas Kellahin, E KELLAHIN & KELLAHIN P. O. Box 2245	Division g. 87501 sq.
15 16 17 18 19 20 21 22	For the Oil Conservation Division:	W. Perry Pearce, Esq. Legal Counsel to the State Land Office Bld Santa Fe, New Mexico W. Thomas Kellahin, E KELLAHIN & KELLAHIN P. O. Box 2245	Division g. 87501 sq.

1			
•		4	
2			
3	INDEX		
		•	
. 4			
5	STATEMENT BY MR. KELLAHIN	3	
6			
	NAT SUBRAMANIAM	¥ .	
7	Direct Examination by Mr. Kellahin	4	
8		4	
•	Cross Examination by Mr. Stogner	11	
9			
•			en e
10			
11		• • • •	
12			
12			
13			
14			
		· .	
15	EXHIBITS		
16			
10			
17	Sun Exhibit One, Plat		
		5	
18	Sun Exhibit Two, Map	7	
40			
19	Sun Exhibit Three, Cross Section	8	
20			
21			
22			*
23			
43			
24		•	
4			
25			

	MR. STOGNER: The hearing will
come to order.	
Case Number 7963.	We'll call first this morning
	MR. PEARCE: That case is on
	of Sun Exploration and Production Company oil well location, Lea County, New Mexico.
	MR. KELLAHIN: If the Examiner
on behalf of th	e applicant, and I have one witness to be MR. PEARCE: Are there other
appearances in th	
	(Witness sworn.)
	MR. KELLAHIN: Mr. Examiner, we
	change in the proposed location of the well
enac will require	the case to be readvertised. I have already notified the
Commission secret	ary of that change and I think it will ap-
pear in time to b	e advertised for the October 12th docket.

tion will be 1260 feet from the north line and 1310 feet

24

25

from the west line.

23

MR. STOGNER: You do plan to go

The change is so that the loca-

1 2 ahead and put on testimony today? 3 MR. KELLAHIN: We would like to with your permission. MR. STOGNER: Please do. **5**. 6 NAT SUBRAMANIAM. being called as a witness and being duly sworn upon his 8 oath, testified as follows, to-wit: 9 10 DIRECT EXAMINATION BY MR. KELLAHN: 11 All right, sir, would you please state 12 your name and occupation? 13 My name is Naturajan Subramaniam. 14 geologist with Sun Exploration and Production Company in 15 Dallas, Texas. 16 Mr. Subramaniam, have you previously tes-17 tified as a geologist for Sun Exploration and Production 18 Company? 19 Yes. . And have your qualifications as a geolo-20 gist been accepted and made a matter of record with the Com-21 mission? 22 Yes. 23 And pursuant to this application have you 24 prepared certain geologic studies in support of your re-25 quest?

, , , , ,	
1	
2	A Yes. MR. KELLAHIN: We tender Mr.
	Subramaniam as an expert petroleum geologist.
	MR. STOGNER: He is so quali-
	Q Mr. Subramaniam, would you identify what
	we have marked as Sun's Exhibit Number One and locate for us the proposed unorthodox location for this well?
	A The Exhibit Number One depicts parts of
	Lea County, Township 23 South, Range 36 East. The said well
	is in the northwest quarter of Section 10 in Township 23
	South, Range 36 East, marked 116.
	Q Section 10 is a State of New Mexico lease
	that's held by Sun Exploration and Production Company?
•	A That's correct.
	Q The wells immediately offsetting the pro-
	posed unorthodox location produce from what formation?
٠,	A From the Queen formation, in the Langlie
	Mattix Field.
	Q Each of the offset 40-acre proration
	units in the northwest quarter of Section 10 are dedicated
	to the Langlie Mattix.
	A Yes, that is correct.
,	Q All right, sir. What is the reason you
	HOVE OFORDERS FRO LOSSELOS FAS ALLS ALS

25

done?

A The test is a geological prospect based

Mattix, which had not been applied for yet, but it is the

process of being studied.

-

3

4

36 East.

those wells.

later called 111 to be --

5

7

8

9

10

11 12

13

14

15

16

17

18

19

20

21

22

23

24

us enough control as far as the structure and the facies present in the Abo.

Okay, while we're looking at Exhibit Number Two, let's also look at your cross section that shows

These would be a well in the southwest quarter of

These wells penetrated the Abo and gave

Section 4, a well in the southeast quarter of Section 10.

and a well in the southwest quarter of Section 11, 23 South,

A The Exhibit Number Three is an idealized cross section across the edge of the Central Basin Platform.

Exhibit Number Two demarcates the edge of the Central Basin Platform as it is mapped from this subsurface, and shows the

Well No. TPO "C" State A Account No. 1 Well No. 4, which was

Q That's the well on the far left of the cross section.

The far left of Exhibit Number Three.

Q All right, sir.

A In the section A-A'. Penetrated possible poor reef facies within the Abo and was cored and drill stem tested; had 810 feet of free gas and 10 feet of slightly oil and gas cut mud on the drill stem test.

But from the description of the core, it resembles a fore-reef section in the Abo.

Q All right, going to the right, then, and

,

skipping the proposed location for a moment, pick up the next well on the right.

The next well would be the well in Section -- southeast quarter of Section 10 of 23 South, Range 36 East. It penetrated the Abo and the control for the Abo would be in the first exhibit, it penetrated at minus 4160 elevation and was also drill stem tested and pro-duced 100 feet of free oil on the drill stem test.

Q This was never completed as an Abo well, was it?

A No, it was not. It was drilled down to the Morrow but came back later up into the Queen and completed in the Langlie Mattix Field.

Q All right. So in the drill stem test they encountered possible oil in the Abo but it has not been produced from this well at this time.

A Not to my knowledge.

Q All right, sir. What is the fourth well on the cross section?

A The fourth well would be the well in the southwest quarter of Section 11, which is the Well State "A" Account No. 1 Well No. 101, which would be the right-most well depicted on this cross section, entered the back-reef, green shales and dolomites indicative of a back-reef facies.

Based upon your study of those logs, Mr. Subramaniam, where you propose to perforate your proposed well?

25

24

We move the introduction of Ex-

hibits One, Two, and Three.

our examination of Mr. Subramaniam.

24

CERTIFICATE

I, SALLY W. BOYD, C.S.R., DO HEREBY CERTIFY that the foregoing Transcript of Hearing before the Oil Conservation Division 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.

Silly W. Foyd Corz

a complete record of the proceedings in the Examiner hearing of Case No. 7963. heard by me on Sept. 19.83

Oil Conservation Division