[
1 2 3	STATE OF NEW MEXICO ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT OIL CONSERVATION DIVISION STATE LAND OFFICE BLDG. SANTA FE, NEW MEXICO
	23 September 1987
4	EXAMINER HEARING
5	
6	
7	IN THE MATTER OF:
8	Application of Zia Energy, Inc. CASE for two nonstandard proration 9221
9	units and an unorthodox gas well location, Lea County, New Mexico.
10	Todation, hea country, New Mexico.
11	
12	BEFORE: David R. Catanach, Examiner
13	
14	MDANCODIDM OF HEADING
15	TRANSCRIPT OF HEARING
16	
17	
18	APPEARANCES
	Day the Division
19	For the Division: Jeff Taylor Attorney at Law
20	Legal Counsel to the Division State Land Office Bldg.
21	Santa Fe, New Mexico 87501
22	For the Applicant: W. Mhomes Vellebin
23	For the Applicant: W. Thomas Kellahin Attorney at Law
24	RELLAHIN, KELLAHIN & AUBREY P. O. Box 2265 Santa Fe, New Mexico 87504
25	Santa re, New Mexico 67504

Г			
1		2	
2			
3	INDEX		
4			
5	DON BRATTON	,	
6	Direct Examination by Mr. Kellahin	4	
7	Cross Examination by Mr. Catanach	11	
8			
9			
10			
11	EXHIBITS		
12			
13	Zia Exhibit One, Plat	4	
14	Zia Exhibit Two, Plat	5	
15	Zia Exhibit Three, Document	7	
16	Zia Exhibit Four, Tabulation	7	
17	Zia Exhibit Five, Graph	8	
18	Zia Exhibit Six, Log	9	
19	Zia Exhibit Seven, G/O Test	10	
20	Zia Exhibit Eight, Notifications	10	
21			
22			
23			
24			
25			

1	3
2	
3	MR. CATANACH: We're going to
4	call Case 9221.
5	MR. TAYLOR: The application of
6	Zia Energy, Incorporated, for two nonstandard proration
7	units and an unorthodox gas well location, Lea County, New
8	Mexico.
	MR. CATANACH: Are there
9	appearances in this case? MR. KELLAHIN: If the Examiner
10	please, I'm Tom Kellahin of Santa Fe, New Mexico, appearing
11	on behalf of the applicant and I have one witness to be
12	sworn.
13	MR. CATANACH: Are there any
14	other appearances?
15	Will the witness please stand
16	and be sworn.
17	
18	(Witness sworn.)
19	
20	DON BRATTON,
21	being called as a witness and being duly sworn upon his
22	oath, testified as follows, to-wit:
23	
24	
25	

1	4
2	DIRECT EXAMINATION
3	BY MR. KELLAHIN:
4	Q Mr. Bratton, for the record would you
5	please state your name and occupation?
	A My name is Don Bratton. I'm a petroleum
6	engineer employed by Zia Energy.
7	Q Mr. Bratton, have you previously testi-
8	fied as a petroleum engineer before the Division?
9	A I have.
10	Q And pursuant to your employment with Zia
11	Energy, Inc., have you made a study fo the engineering facts
12	surrounding this application?
	A I have.
13	MR. KELLAHIN: We tender Mr.
14	Bratton as an expert petroleum engineer.
15	MR. CATANACH: He is so quali-
16	fied.
17	Q Mr. Bratton, let me direct your attention
18	to Exhibit Number One.
19	Would you take a moment and identify for
20	us generally where your proration and spacing unit is 10-
	rated in relation to highways or communities Lea County, New
21	Mexico?
22	The proration unit that we'll be discus-
23	sing today, which is the northwest quarter of the southwest
24	
25	

No, we are not.

22

approval of this application?

Α

23

24

Q Let's turn to Exhibit Number Three, Mr. Bratton, and have you describe to the Examiner your proposal on how to make an allocation of the allowable.

A As shown on this exhibit, the Penrose-Skelly-Grayburg Field allowable as it appears in the September through December, 1987, Oil Proration Order No. A-261, Schedule No. 46, Volume 1 of the Hobbs District, the 40-acre proration unit allowable for the Penrose-Skelly-Grayburg provides for a top allowable of 80 barrels of oil per day with a top casinghead gas limit of 800 MCF per day.

What we're requesting is that each 20acre tract assigned to the two Zia Energy wells on this 40acre standard proration unit be allocated half of the
current 40-acre proration unit allowable. In other words,
each well would be assigned a top oil allowable of 40
barrels of oil per day with a top casinghead gas limit of
400 MCF per day.

Q All right, sir, let's turn to what has been the production history from the Bronson No. 4 Well, and I'll ask you to identify now Exhibit Number Four.

Exhibit Number Four is a tabulation since the well was originally completed in March of 1985, of oil, water, and gas production from the No. 4 Well, and as you can see from this, it's been a marginal oil producer throughout its productive history and it has produced large

volumes of water.

Q How does the historical gas/oil ratio compare to the 100,000-to-1 gas/oil ratio for classification of a gas versus an oil well?

A Well, the gas/oil ratio on this particular well has averaged approximately 95,000 throughout its productive history. From time to time as you can see, in September and October of 1985 we exceeded the 100,000-to-1 ratio. That anomaly I can't explain; however, because of the severe scaling and the high water production, we've had to periodically go in and stimulate the well with acid to continue to produce large enough volumes of oil to keep the well classified as an oil producer.

With the drop in oil and gas price, this is becoming increasingly difficult to justify from an economic standpoint.

Q Mr. Bratton, let's turn now to Exhibit Number Five and have you identify and describe that exhibit.

A Number Five is a graphical display of the production history showing oil and GOR for the Brunson No. 4 and as you can see, we've been just below the 100,000-to-1 ratio for most of the productive history of the No. 4 Well.

Q Can you describe for the Examiner what appears to have occurred in the early portion of 1987 when we see the oil production has increased, and --

1	9
2	A That
3	Q then dropped back down?
4	A There's a combination of factors there.
5	One, because of the severe cold weather that was encountered
6	in November and December and a couple of mechanical problems
	on the well, you see that there was a corresponding decrease
7	in oil production in the months preceding that increase.
8	Q All right, let's turn to Exhibit Number
9	Six. Would you show us on Exhibit Number Six where the cur-
10	rent perforations are in the Brunson 4-J Well?
11	A Current perforations extend from 3769 to
12	3972. All of these intervals were perforated and completed
13	in following initial drilling of the well in the spring
14	of 1985, with acid stimulation to each zone.
15	Q Do you have an opinion, Mr. Bratton, as
16	to whether or not reservoir energy is being wasted by the
	reclassification of this well as a gas well to allow it to
17	produce additional volumes of gas?
18	A We don't believe that reservoir energy is
19	being wasted. In fact, if you will look back at Exhibit
20	Number Two, you'll see that most of the offsetting production has either been temporarily or permanently abandoned by
21	other operators.
22	As a result, we feel like the Oil Commis-
23	sion's allowing us to reclassify the No. 4 as a gas well and
24	and a gus well and
25	

continue to produce it, will allow us to efficiently recover remaining reserves that exist in the reservoir.

Q Would it be reasonable to expect you to squeeze off certain perforations in order to reduce your gas/oil ratio in this well?

A We don't feel like the economics would justify that expenditure at this point in time.

Q Do you believe there's any adverse consequences to continuing to produce this well in this manner in terms of your ultimate oil recovery?

A We do not.

Q Turn to Exhibit Number Seven, Mr. Bratton, and have you identify and describe that exhibit.

Exhibit Number Seven is a gas/oil ratio test that was conducted by Zia Energy and turned into the Oil and Gas Commission in Hobbs, showing the GOR for this particular well on the day that it was tested on August 14th, 1987, at 121,000.

Q All right, sir.

MR. KELLAHIN: Finally, Mr. Examiner, we have Exhibit Number Eight, which constitutes the certified mail return receipt notifications and the affidavit attesting to those mailings, Exhibit A, shows the offset operators and the balance of that certificate shows return receipt cards.

1	11
2	Q In response to any notification to offset
3	operators, have you been advised, Mr. Bratton, of any objec-
4	tion by any other operator?
5	A We have not.
	Q Were Exhibits One through Seven prepared
6	by you or compiled under your direction and supervision?
7	A They were.
8	MR. KELLAHIN: We move the in-
9	troduction of Exhibits One through Eight, Mr. Examiner.
10	MR. CATANACH: Exhibits One
11	through Eight will be admitted as evidence.
12	MR. KELLAHIN: That concludes
13	my examination of Mr. Bratton.
14	CROSS EXAMINATION
15	BY MR. CATANACH:
16	Q Mr. Bratton, is Exhibit Number Seven a
17	pretty representative test of the well's current production
18	capability?
19	A Yes, it is. We have three wells that
20	produce on this lease, all from the Penrose-Skelly Field;
21	however, Well No. 4, because of the fact that it was drilled
	and classified as Section 103 gas in 1985, the production
22	from that well is handled through separate production facil-
23	ities on the lease, so we feel very confident that the GOR