CASE 6620: HARVEY E. YATES COMPANY FOR AN NGPA DETERMINATION, LEA COUNTY, NEW MEXICO.

The state of the s

CASE NO.

6620

APPlication, Transcripts, Small Exhibits,

ETC.



STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT OIL CONSERVATION DIVISION

September 12, 1979

POST OFFICE BOX 2088 STATE LAND OFFICE BUILDING SANTA FE, NEW MEXICO 87501 ISOSI 827-2434

Mr. Robert H. Strand, At Harvey E. Yates Company	 CASE NO. ORDER NO.	6620 R-6104	
P. O. Box 1933 Roswell, New Mexico 882	Applicant:		

Harvey E. Yates Company

Dear Sir:

Enclosed herewith are two copies of the above-referenced Division order recently entered in the subject case.

Pours very truly,

JOE D. RAMEY

Director

JDR/fd

Copy of order also sent to:

Hobbs OCD X
Artesia OCD X
Aztec OCD

Other

STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT OIL CONSERVATION DIVISION

IN THE MATTER OF THE HEARING CALLED BY THE OIL CONSERVATION DIVISION FOR THE PURPOSE OF CONSIDERING:

CASE NO. 6620 Order No. R-6104

APPLICATION OF HARVEY E. YATES COMPANY FOR AN NGPA DETERMINATION, LEA COUNTY, NEW MEXICO.

ORDER OF THE DIVISION

BY THE DIVISION:

This cause came on for hearing at 9 a.m. on August 8, 1979, at Santa Fe, New Mexico, before Examiner Richard L.

NOW, on this 10th day of September, 1979, the Division Director, 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 Division has jurisdiction of this cause and the subject matter thereof.
- (2) That the applicant, Harvey E. Yates Company, seeks a determination by the Division, in accordance with Sections 2 (6) and 102 of the Natural Gas Policy Act of 1978, and the applicable rules of the Federal Energy Regulatory Commission, that its Austin Monteith Well No. 1, located in Unit K of Section 8, Township 14 South, Range 36 East, NMPM, Lea County, New Mexico, has discovered a new onshore reservoir from which natural gas was not produced in commercial quantities before April 20, 1977.
- (3) That said well was completed in the Mississippian formation with perforations from 13360 to 13390 feet, and a plugged-back depth of 13478 feet after having been drilled to a total depth of 14000 feet.
- (4) That although there are several wells in the vicinity of the subject well which have penetrated and are completed in the Mississippian formation, pressures encountered in said Austin-Monteith Well No. 1 are indicative of an un-
 - (5) That seismic evidence presented at the hearing

Case No. 6620 Order No. 6104

demonstrated that said Austin Monteith Well No. 1 could be separated from other Mississippian producing wells in the area by a fault.

(6) That the combined seismic and pressure data presented establishes that said Austin-Monteith Well No. 1 has been completed in a new onshore reservoir as defined by the provisions of Section 102 (c) of the Natural Gas Policy Act of 1978 and the applicable rules of the Federal Energy Regulatory Commission.

IT IS THEREFORE ORDERED:

- (1) That the Harvey E. Yates Company Austin Monteith Well No. 1, located in Unit K of Section 8, Township 14 South, Range 36 East, NMPM, Lea County, New Mexico, is completed in a new onshore reservoir as defined by Sections 2 (6) and 102 (c) of the Natural Gas Policy Act of 1978, and the applicable rules of the Federal Energy Regulatory Commission.
- (2) That jurisdiction of this cause is hereby retained for the entry of such further orders as the Division may deem necessary.

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

STATE OF NEW MEXICO OIL CONSERVATION BIVISION

JOE D. RAMEY

Director

SEAL

6

7

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

For the Applicant:

Robert H. Strand, Esq. Roswell, New Mexico

6620

INDEX

Cross Examination by Mr. Stamets

2						
3	PAUL G.	WHITE				
4		Direct	Examination	by M	ır. Sti	rand

ANDREW LATTU

Direct	Examination	by Mr.	Strand	21
Cwaaa	Disablakiting 1	h M.	Ctt -	9.7

EXHIBITS

Applicant	Exhibit	One, Plat	6
Applicant	Exhibit	Two, Cross Section	7
Applicant	Exhibit	Three, Drill Stem Test	10
Applicant	Exhibit	Four, Drill Stem Test	1,1
Applicant	Exhibit	Five, Document Five-A, Drill Stem Test	13 19
Applicant	Exhibit	Six, Map	23

SALLY WALTON BOYD
CERTIFIED SHORTHAND REPORTER
3029 Plaze Blance (6.65) 471-3462
Santa Fe, New Mexico 87791

6620.

MR. STAMETS: We'll call now Case Number

MR. PADILLA: Application of Harvey E. Yates Company for an NGPA determination, Lea County, New Mexico.

MR. STAMETS: Call for appearances.

MR. STRAND: Mr. Examiner, Robert Strand, attorney for Harvey E. Yates Company from Roswell, appearing on behalf of the applicant.

We will call two witnesses, Paul White and Andrew Lattu, who are both under oath, I believe.

MR. STAMETS: Let the record reflect that both of these witnesses have previously been sworn and have been qualified.

MR. STRAND: Mr. Examiner, in Case 6620
Harvey E. Yates Company is requesting an NGPA determination
for its Austin Monteith No. 1 Well, situated in the west
half of Section 8, Township 14 South, Range 36 East.

The application previously filed with the Commission seeks a determination that this well produces gas from a new on-shore reservoir.

We have also filed an alternative application in the event Section 102 treatment is not accorded this well, asking for Section 103 treatment as a new onshore production well.

SALLY WALTON BOYL
ERTIFIED SHORTHAND REPORTE
520Plaze Blanca (606) 471-34
South Pe. New Markon 8710.

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

We intend today to present testimony as to the geological and reservoir data relevant to the Section 102 application. We will present no evidence as to the Section 103 application. We feel that could be handled administratively, if necessary.

The first witness is Mr. Paul White.

PAUL G. WHITE

being called as a witness and having been previously sworn upon his oath, testified as follows, to-wit:

DIRECT EXAMINATION

BY MR. STRAND:

- Q. State your name, please.
- A. Paul White,
- Q. What is your occupation, Mr. White?
- A. Consulting Engineer.
- Q. Have you been employed on behalf of Harvey
- E. Yates Company for the purpose of this hearing?
 - A. Yes, sir.
- Q Have you testified before the Division in the past?
 - A. Yes, I have.
- Q. Are your qualifications as an expert witness a matter of record before the Division?

	in the field of th
2	MR. STRAND: Are Mr. White's qualification
3	acceptable?
4	MR. STAMETS: Yes.
5	Q. (Mr. Strand continuing.) Mr. White, is
6	Harvey E. Yates Company the operator of the Austin Monteith
7	No. 1 Well?
8	A. Yes.
9	Q Would you please give the specific loca-
10	tion of that well?
11	A. This gas well is located 1650 feet from
12	the south line and 1980 feet from the west line of Section
13	8, Township 14 South, Range 36 East, Lea County, New Mexico
14	Q. Mr. White, what is the ownership status
15	of the lease on which this well is actually situated?
16	A. This lease is a fee lease.
17	Q. What was the spud date of the Austin
18	Monteith No. 1?
19	A. March 17th, 1979.
20	Q And the completion date?
21	A. The completion date was July 25th, 1979.
22	Q What was the total depth reached in the
23	well?
24	A. 14,000 feet.
25	Q. What is the producing interval?
1	

A. The producing interval is -- it's perforated from 13,360 to 13,390.

0 Mr. White, are you familiar with the term "reservoir" as defined in Section Two of the Natural Gas Policy Act of 1978?

A. Yes, I am aware of the definition of "reservoir" in the Act.

Q. In forming your opinions as to the extent and characteristics of the reservoir from which the Austin Monteith Well produces natural gas, have you examined and analyzed available reservoir and geological data from this well and surrounding wells of similar depth?

A. Yes, I have.

Q. Would you describe in general terms the producing interval?

A. Generally it's right under the Austin marker. It's basal Pennsylvanian age.

Q Mr. White, referring to Exhibit Number One, would you please describe that exhibit?

A. Exhibit Number One is an ownership and land plat showing the location of the Harvey E. Yates Company Austin Monteith Well in Section 8 and surrounding wells in Section 5 and in Section 17.

Q Does that exhibit further show the wells that comprise the cross section, which will be Exhibit Two?

	A.	Yes, it does.
	Q.	Do all of the wells shown within that
edi v v 1 od s	w.	ed on Exhibit One, penetrate the formation
you ment	ioned pr	eviously?
	А.	yes, they do.
		MR. STAMETS: Which wells penetrate the
Austin	zone?	
		Mr. Examiner, all the wells shown on the
	Α.	the plat, as outlined in red, penetrated the
Exhibit	one on	
Austin	zone.	MR. STAMETS: So it would just be those
	- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	MR. STAMEIS. ection A-A', which is marked on this exhibit?
on the	cross s	MR. STRAND: Mr. Examiner, I believe there
		MR. STRAND: Mr. Examiner,
are ot	ther well	s which are shown on this exhibit that do
penet	rate that	zone, and we will discuss
		MR STAMETS: OKAY.
	•	(Mr. Strand continuing.) Referring to
	Q.	r Two, Mr. White, would you describe that
Exhib	oit Numbe	r Two, rit.
exhil	bit?	Okay. Exhibit Number Two is a is a
	A.	Okay. Exhibit Number 2
cros	s sectio	1. I think we possibly need to
		ampand. Mr. Examiner,
	nit that	MR. STRAND. is on the wall from the last case, so I think is on the wall from the last case, so I think
exn	IDTC CHO.	eggtion.

we can go ahead and use that cross section.

Okay.

And this is a cross section showing the wells from -- drawn on the -- as a datum is the top of the Atoka, and it shows downwardly the Morrow, the Austin marker, the Chester, and the Mississippi, in the four wells as outlined on Exhibit Number One land plat.

MR. STAMETS: Are the perforations -- the present perforations in these wells as shown at the base of each section?

A. All intervals then tested are shown on the cross section; all intervals tested in the wells.

MR. STAMETS: There are perforations shown, though. Are those the existing perforations in these wells?

MR. LATTU: Well, if you would like to wait, maybe, until I get to my testimony, I'll discuss those in more detail, but the producing zones are all perforated. Additional zones were perforated in some of these wells in testing lower zones before they moved up to the current pay zone.

MR. STAMETS: Okay. While we're waiting for you, for your turn here, would you please take my copy of this map and mark those perforations on there in red, please, and if there are any perforations which are not producing, I'd like to have those noted in some appropriate manner?

MR. LATTU: I can mark it on this one.

11

12

13

14

15

16

17

18

19

20

21

22

23

24

26

MR. STAMETS: Okay, that would be fine.

Sorry about the interruption, Bob, but I

do want to get that in the record.

A. Okay. Well, Mr. Examiner, I'm sorry I didn't have those perforations on hand here, but the cross section does show the Harvey E. Yates Company Austin Monteith No. 1 Well, the Phillips Austin No. 1, the Adobe Hannah No. 1, and the Texas Crude Richardson No. 1 Well on the cross section.

Q. (Mr. Strand continuing.) Mr. White, based on your analysis of these logs, does the Austin marker, which you mentioned previously, which is productive in the Austin Monteith No. 1 correlate with the pay zones in the other wells represented on this cross section?

A. Yes, I would say it does.

Q Have you also analyzed available drill stem tests and other pressure data from the Austin marker underlying these wells?

A. Yes, I have.

Q Was the Texas Crude No. 1 ever a productive well?

A. No, to my knowledge, it was plugged and abandoned.

Q. Now with respect to the Adobe Hannah No. 1
Well in Section 17, is there any drill stem test data

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

available from the Austin marker underlying that well?

A. No, as I recall, that well does not have any drill stem test data in the Austin zone.

Q. Am I correct to say that a DST was attempted in that zone but failed?

A. That's right.

Q. Is the Adobe Hannah No. 1 Well producing from the Austin marker?

A. No, in my opinion, this well produces from the Chester in the Mississippian.

Q. When was the Adobe Hannah No. 1 spudded?

A. January 10, 1979.

Mr. White, with respect to the Austin

Monteith No. 1 and Austin Phillips No. 1 Wells, also in

Section 17, were drill stem tests run in the Austin marker

underlying each of these wells?

A. Yes, they were.

Q. I refer you to Exhibit Number Three. Would you identify that exhibit?

A Exhibit Number Three is a drill stem test which was run on the Harvey E. Yates Company Austin Monteith No. 1 Well.

Q. I refer you to Exhibit Number Four and would you describe that --

MR. STAMETS: Whoa, let's talk about this

and tell me what it shows.

MR. STRAND: Could we discuss both of them at the same time?

MR. STAMETS: Okay, I'm sorry to interrupt.

A. Okay, the Exhibit Number Three, Mr. Examiner, is the drill stem test which was taken on the Harvey E.

Yates Company Austin Monteith No. 1 Well on June 3rd, 1979.

And then, if I may, I'll go to Exhibit Number Four, which is a drill stem test taken on the Phillips Austin No. 1 in March of 1957.

Q. (Mr. Strand continuing.) Mr. White, would you compare these two drill stem tests with particular reference to pressure data?

The Phillips Monteith -- I mean the Phillips Austin Com No. 1 Well in Section 17, 14, 36, had an original reservoir pressure at a depth of 13,305 of 5315, and that's recorded on the drill stem test as the closed-in pressure.

MR. STAMETS: Okay, where can I find that on this exhibit?

A Okay, it's on the test run by Halliburton and it's under the pressure readings in the lower lefthand corner, closed in pressure.

It did not have an initial shut-in pressure.

25

2.

3

4

5

6

12 MR. STAMETS: Okay. 5315 was the field pressure; 5272 was the corrected pressure? Yes, sir, that's right. MR. STAMETS: Okay. The Harvey E. Yates Company pressure, which was run on June 3rd, 1979, at a total depth of 13,400 feet, the closed in pressure was 5737, initial, and 5692, final. And that's on the drill stem test, Exhibit Number Where on Exhibit Number Three Three. MR. STAMETS: Down in the lower lefthand corner under A. pressures. MR. STAMETS: Okay. The closed in pressure, initial, was 5737, 12 13 and the closed in pressure, final, 5692. 14 There, again, Mr. Examiner, those are field pressures, and the office pressures are listed along-15 16 MR. STAMETS: What are the two pressures, 17 side the field pressures. 18 then, shown immediately to the right of the pressures in 19 20 The pressures to the immediate right? the lefthand columns? 21 MR. STAMETS: Right. 22 Are the -- are the office pressures as 23

calculated from the office versus the field pressures.

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

MR. STAMETS: Okay, let me read from left to right there on the -- on the first period we've got a closed in pressure of 5737, an office pressure of 5734.8, and then continuing to the right we have 5785, 5803.

A. Okay, those are extrapolated. Those are extrapolated pressures, Mr. Examiner, when there wasn't completely final build-up, if there was still an increase in pressure during the shut-in period, if they felt there was an increase on the end of the pressure, they were extrapolated to that point.

The pressures to a depth of 13,396 at the top of the second column of pressures under Gauge Number 1927.

MR. STAMETS: Okay.

A. Those are those pressures.

MR. STAMETS: Why were they extrapolated to that test? Oh, I see, that's approximate bottom hole.

A. Yes, sir.

MR. STAMETS: Okay, very good.

- (Mr. Strand continuing.) Mr. White, I refer you to Exhibit Number Five. Would you please describe this exhibit?
- A. Exhibit Number Five is a reservoir pressure comparison between the two key wells, the Phillips Petroleum Company Austin Com No. 1, and the Harvey E. Yates

Company Austin Monteith No. 1.

On this exhibit we note that the closed in reservoir pressure on the Phillips Austin Com No. 1 was 5315 psi compared to a closed in reservoir pressure of 5737 psi on the Austin Monteith Well.

The exhibit also shows that the Phillips
Austin Com No. 1 had a production history from 1957 ending
with June. 1979, the well produced 4,145,000,000 cubic feet
of gas and 58,684 barrels of condensate.

The production on the -- production history on the Harvey E. Yates Company Austin Monteith is zero because that well has not produced.

Now, after this production had been recovered from the Phillips Petroleum Company Austin Com No. 1 Well, after recovering 4-billion plus gas and 58,000 barrels of condensate, the bottom hole pressures on the Phillips well is now 1142 psi.

The bottom hole pressure recently taken on the Austin Monteith No. 1 Well operated by Harvey E. Yates Company is 5760 psi.

And this exhibit, in making this comparison, we wanted to point out the differences in pressure which existed on the Austin Monteith Well, June 3rd, 1979, and compare it with the pressure which exists presently on the Phillips Petroleum Company Austin Com No. 1 Well.

SALLY WALTON BOY:
EMPIRED SHORTHAND REPCON
20 Plaza Banca (605) 471-24
Santa Fo, New Mexico 8750:

	0. Mr. White, with reference to the Adobe 16
	No. 1 Well, which is located in the southwest quarter of
	No. 1 Well, which is located in the stan we have on
	not on the cross second
	a drill stem test available
	the wall, do you have the Austin marker thereunder?
	the wall, do you have a distance the wall as to the pressures in the Austin marker thereunder?
	is that shut-in pressure in comparation
	with the Austin Monteith No. 1 and the Austin Phillips Com?
	with the Austin Monterth No. This showed a closed-in pressure, bottom
	A. This showed a closed 11.
	hole pressure, of 4834 on March 28th, 1978, and that was
0	on this well when
1	the original pressure on the original pressure of the original pressure
12	Q That is also a diam is that correct?
13	Q. That is direct? We're referring to as the Austin marker, is that correct? We're referring to as the Austin marker, is that correct.
	that's right.
14	MR. STAMETS: Do you have a copy of that
15	MR. SIME-
16	you plan to introduce in as an exhibit?
47	you plan to introduce in as MR. STRAND: No, we don't, Mr. Examiner.
17	We can make some, if you wish.
18	masterne, Could a
19	MR. STAMEIS.
20	MR. STAMEIS. I would like to have some copies of that submitted for the
21	
- ZI	Mr. Examiner, 1 might
22	from any on the cross section
23	out, that is a different well from any on the cross section of the cross sections. MR. STAMETS: Okay, that's fine.
	MR. STAMETS: Okay, Chac

MR. STAMETS:

MR. STRAND:

It's in the southwest quarter

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

29

22

23

24

25

(Mr. Strand continuing.) Mr. White, do of Section 16. You have a spud date available on that Adobe 16 No. 1 Well?

I don't believe I have that information.

MR. STRAND: We could have Mr. Lattu

testify as to that.

No, I don't have that.

NR. STAMETS: I would like a copy of this,

not the charts --

Just the front page? MR. STRAND:

MR. STAMETS! Right.

Mr. White, in your opinion is there any significance as to the difference in pressure between the Adobe 16-1 Well and the Austin Phillips Well as opposed to the Austin Monteith?

Yes, yes, there's significance.

Would you please state the significance

The -- the Harvey E. Yates Austin Monteith of those differences? Well, of course, has the higher bottom hole pressure, higher closed in pressure, at the present time over the pressure in the Phillips Austin No. 1 Well, after the Phillips Austin No. 1 Well has produced the 4-billion plus production. The Adobe 16 No. 1 Well has a lower close in pressure originally than the Harvey E. Yates Company Phillips Monteith

Well and this indicates to me that there was some subtle pressure interference between the Adobe 16 No. 1 Well and the -- the Phillips Austin Well.

Mr. White, referring back to Exhibit Two,
the cross section, there's an indication of a fault between the Austin Monteith No. 1 Well and the Phillips Austin
Well. In your opinion could such a fault be a pressure
barrier accounting for the pressure difference between these
two wells?

A. Yes, this could account for it. There would have to be some kind of a fault, a permability barrier between the Harvey E. Yates Austin Monteith Well and the Phillips Austin Com No. 1 Well.

Q. What was the spud date of the Austin Phillips Well?

A. November 12, 1956.

Q And the production from that well has been from what we refer to as the Austin marker?

A. Yes, that's correct.

Mr. White, do you have an opinion as to whether the Austin Monteith No. 1 and the Austin Phillips No. 1 produce from separate and distinct reservoirs?

A. Yes, they do.

Q. Based on your analysis of all the wells in the area of the Austin Monteith No. 1, do you have an opinion

11

12

13

14

15

16

17

20

21

22

as to whether any other wells have penetrated the productive reservoir underlying the Austin Monteith No. 1?

A. The reservoir underlying the Austin Monteith No. 1 Well is -- has to be a separate and distinct reservoir from the other Austin zones which have been produced in the area. Other wells have, yes, penetrated the Austin pay zone.

Q. But not the reservoir underlying the Austin Monteith Well?

A. No, they have not.

Q You've testified as to Exhibits Number
One and Two. Who prepared these exhibits?

A. Mr. Andy Lattu, Harvey E. Yates Company geologist.

Q. Are you satisfied as to their accuracy and reliability?

A. Yes, I am.

Q Were Exhibits Three, Four, and Five prepared by you or under your supervision?

A. Yes, from information from Harvey E. Yates Company files.

MR, STRAND: That's all I have from Mr. White.

MR. STAMETS: I would like to have the drill stem test Mr. White referred to copied and marked as

1

SALLT WALION BOYD

ENTIFIED SHORTHAND REPORTER

10 Plaza Banca (606) 471-2462

Santa Fe, New Mexico 87801

Exhibit Five-A.

A. That's the one on the Adobe 16.

MR. STAMETS: Let me look at that exhibit one more time.

CROSS EXAMINATION

BY MR. STAMETS:

Q. Mr. White, referring back to Exhibit Five-A, which is the Adobe State 16 DST, looking at the lefthand side of this booklet, there are some pressures recorded there. Do the horizontal lines at the end of each build-up period indicate that the pressures have stabilized or is that something else I'm reading there?

A. No, they do indicate they've stabilized to a certain extent. It's very difficult, Mr. Examiner, with the naked eye to tell if there has been complete stabilization, but those just, on a visual examination, I would say they have stabilized.

Q. Now we don't have a log of this particular well shown on the cross section. Have you examined that log to see that that well is indeed completed in the same interval as the Austin pay?

A. No, sir, I have not done that.

Q. But if it was, your testimony would be that what we're seeing here is pressure decline in this well due

to drainage from the Phillips Well?

explicit that the Phillips Austin Com No. 1 Well has interferred with the Adobe 16 No. 1 Well, based on the drill stem test, original bottom hole pressure information, but neither well has interferred with the Harvey E. Yates Company Austin Monteith No. 1 Well, which I feel is in a separate and distinct reservoir.

Q. Looking at the map and just gauging the distances, it would appear as though the Harvey E. Yates Austin Monteith is about ten percent further from the Phillips well than the Adobe State 16.

With this small difference, would you expect to see some interference, pressure interference in the HEYCO Well if there was no barrier between the Phillips well and the HEYCO well?

A. Yes, you would have seen some difference, especially after the Phillips Monteith -- or Phillips Austin No. 1, I'm sorry, Well had produced fro this length of time. You would have definitely seen some pressure decline on the Harvey E. Yates Company Austin Monteith Well.

MR. STAMETS: Are there any other questions of this witness? He may be excused.

If I failed to admit these Exhibits one through Five-A, I will admit them now, and ask that both

sides of Exhibit Five-A be copied for the record.

MR. STRAND: Call Mr. Andrew Lattu.

ANDREW LATTU

being called as a witness and having been previously sworn upon his oath, testified as follows, to-wit:

DIRECT EXAMINATION

BY MR. STRAND:

- Q State your name, please.
- A. Andrew Lattu.
- Q. What is your occupation, Mr. Lattu?
- A. Geologist.
- Q. Are you employed by Harvey E. Yates Com-

pany?

8

10

11

12

13

15

16

17

18

19

20

21

22

23

24

- A. Yes, I am.
- Q Have you testified before the Division in the past?
 - A. Yes, I have.
- Q Are your qualifications as an expert witness a matter of record before the Division?
 - A. Yes, they are.

MR. STRAND: Are Mr. Lattu's qualifications

acceptable?

MR. STAMETS: They are.

Q. Mr. Lattu, you've heard Mr. White's testimony as to the productive formation underlying the Austin Monteith No. 1 Well, which he referred to as the Austin marker.

Would you describe that formation in a little more detail as to its geologic terms?

A. All right. Referring to Exhibit Number Two, what is labeled on that as the Austin Pay Zone, I have designated that Austin Pay Zone on this cross section with reference to the Phillips No. 1 Austin Well, which is produced from that zone.

The zone is a limestone. It's composed chiefly of opthalmid forams, which are a bank — these opthalmid forams are a small shell creature which is built up in a bank deposit in this area, probably due to currents and wave action. I call it Lower Pennsylvanian because to my knowledge there are no or very few Foraminifera of. Mississippian age.

The Phillips well, however, has designated this as a Mississippian reservoir and my opinion of it being Lower Pennsylvanian isn't entirely unique, not everyone agrees with it. Some people continue to call it Mississippian, so it's a point of interpretation.

However, this bank is deposited through this area and contains significant amounts of commercial gas

,

11 12

13

14

15

16 17

18

19

20

21

22

23

24 25

More or less it's aligned with the crest of a northeast/southwest trending anticline.

I have examined the samples of all the wells in the area that have penetrated this zone. these wells on Exhibit Number Six have a subsea point on them, which is a structural point. This is a subsurface map contoured on the top of the Austin marker zone.

Would you care to go on to any more detail on Exhibit Six, since we've brought that up?

On Exhibit Six it shows, as I've described, it's essentially a gross feature. This is a northeast/south went trending anticline. It has a fault on the east side, which it more or less parallels this structural anticline. There is also a minor fault which trends northeast/southwest across the crest of this feature.

There are several indications we have to support this fault. The first, of course, is the depth at which we encountered this Austin marker on our HEYCO No. 1 Austin Monteith Well, being so low to the trend of wells in this area.

We also have a seismic line, which I've brought along, though we haven't labeled it an exhibit, but we could. It is an east/west seismic section, which runs across Section 18, Section 17, Section 16, and on into Section 15 of Township 14 South, Range 36 East.

3

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

26

This was a seismic line that was shot in partnership with Yates Petroleum and Adobe. The purpose of the seismic line was to locate this major fault on the east side of the structure. There was some concern as to the location of the No. 2 Well, which Adobe was at that time planning on drilling in Section 16, and now has been drilled But we didn't want to get too close to the fault with that location.

I've indicated in red the approximate Devonian horizon across -- this is an east/west section. This is the large fault on the east side of the feature I've referred to, and there is a minor disruption and you can see in the data here, which doesn't go above the Pennsylvanian, but you can see very definitely that the data is disrupted at this interval.

And referring to Exhibit Two, I believe that disruption is equivalent to this fault I have shown here between Wells No. 2 and 3 on this cross section. cross section is hung on a datum on the top of the Atoka, and as you can see, in the HEYCO No. 1 Austin Monteith there is a considerable amount of thickening of this Atoka section as opposed to the other three wells along this cross section

I believe this dates the fault in the age of probably Morrow or Lower Atoka.

The Austin zone is therefore dropped down

11

12

13

14

15

16

17

18

19

20

21

22

23

lower both structurally and somewhat thicker than is found in the nearest well which penetrated the Austin zone, which is the Adobe No. 1 Hannah.

This fault then would be of age of approximately 300-million years since the last movement occurred.

Q. Mr. Lattu, with reference to the Adobe 16
No. 1 Well, situated in the southwest quarter of Section 16,
have you studied the logs for that particular well?

A. Yes, I have.

Q. Are you satisfied that it also produces from what we refer to as the Austin marker?

A. Yes, it does.

Q. For the record, could you tell us the approximate spud date of that well?

A. It was spudded sometime after the first of January, 1978. I don't have the exact spud date with me, but a copy of the electric log shows that it was logged in April, 1978, and the well, I believe, took approximately 40-some days to drill.

Q. In any event, it was spudded after February 19th, 1977?

A. Yes, it was.

MR. STRAND: Mr. Examiner, I move the admission of Exhibits One through Five and Five-A and Six.

MR. STAMETS: We've already got the earlier

24 26

exhibits in and we will accept Exhibit Six into evidence.

Mr. Lattu, again for the record, did you prepare Exhibits One, Two, and Six?

A. Yes, I did.

MR. STAMETS: Mr. Lattu, is this seismic record confidential information that Yates does not wish to make public?

A. It was shot in partnership with Adobe and Yates Petroleum and Adobe at the time requested that we restrict the dissemination of it.

I'm sure we could enter it in evidence. I haven't just checked with them to get their permission but we would need their permission.

MR. STAMETS: That would be fine. This could be submitted at a later date.

A. Yes, it could.

MR. STAMETS: For purposes of dealing with the Federal Energy Regulatory Commission we can develop a record on this issue even outside that which is developed at this hearing. So, if possible, I would suggest that you make this or a copy of it or at least this slice across here that shows the two faults, and something indicating the line of your section, or your seismic line across the area, and that can be submitted after this hearing.

Something else that I would like to have, is

a copy of the log on the Adobe 16 Well, or that portion of the log which equates to the logs which are shown on Exhibit Number Two with the appropriate tops marked and the perforated interval.

A. All right.

CROSS EXAMINATION

BY MR. STAMETS:

Q. Now, on Exhibit Number Six, Mr. Lattu, without information such as you have here on your seismic line, could you have contoured this without having put the east/west fault in there?

A It's possible to contour it that way;
however, due to the trend established by the well down in
Section 19, the Cabot Corporation No. 1 Austin State, the
Phillips No. 1 Austin, and the Adobe No. 1 Hannah, we see
all these wells here within 78 feet of each other covering
a considerable distance. This establishes a fairly strong
northeast/southwest strike. To contour in the HEYCO No. 1
Austin Monteith, I'd have had to put a very steep dip.
This is contoured on a 50-foot interval; to go from the
9200 to 9372 there's 172 feet of difference, and the steep
dip would be shown by contours spaced very closely together,
much more closely than we see elsewhere in the region, and
even though there would be no fault line there, the inference

SALLY WALTON BOY ERIFIED SHORTHAND REPORT 026Flezz Blanca (605) 471-2: South Pe. New Morting 277-6

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

2.2

23

24

25

of the possibility of a fault would still exist.

Is the -- is faulting the common situation that we find in the deeper horizons in the southeast New Mexico Devonian - Mississippian zones?

Most larger structures are associated with a fault to some degree.

So the faults that you've put in here are not surprising faults. They don't look abnormal in the -in the usual context of mapping the deeper horizons?

No, they do not.

Considering the nature of the formation that's productive for the Austin zone, do you feel that it is appropriate that the pressure decline in the Phillips well, Phillips Austin Well, was reflected in the Adobe State 16 Well?

Yes, it seems appropriate for that amount of gas over that period of time should have shown some decrease.

And unless there was a -- some sort of a barrier between the Phillips well and the HEYCO Austin Monteith, would you expect to see a pressure decline or pressure interference reflected in the Austin Monteith Well?

Yes, I would.

Looking at Exhibit Six I see no producing wells, other than the Austin Monteith, located on the north

side of the east -- short east/west fault, is that correct?

A. Yes, that is correct. The Sinclair Richardson attempted completion in the zone but was unsuccessful.

Q. All right. Are there other wells north of that line which penetrated the Austin zone?

A. Yes, there are. In addition to the Sinclair Richardson, there is the Superior Betenbough up in Section 32 of 13, 35, and there is the Zapata No. 1 Danglade, which was drilled in the northeast quarter of Section 3 of Township 14, 36.

Q. And both of those wells are outside the 2-1/2 mile radius circle drawn from the Austin Monteith, is that correct?

I think you'll see that line on Exhibit Number One.

A. Okay. Yes, they are.

Q. Have you examined the records on those wells to determine whether or not they tested this zone?

A. Yes, I've examined the records and neither the Betenbough nor the Zapata Danglade attempted any test of this zone.

MR. STAMETS: Any other questions of this witness? He may be excused.

MR. STRAND: We have nothing further, Mr. Examiner.

SALLY WALTON BOYE CERTIFIED SHORTHAND REPORTE 8038 Place (805) 471-541 Sente Pe, Now Mexico 815.01

23

24

MR. STAMETS: All right. Anything further

in this case?

3

4

The case will be taken under advisement.

(Hearing concluded.)

REPORTER'S CERTIFICATE

I, SALLY W. BOYD, a court reporter, DO HEREBY CERTIFY that the foregoing and attached 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, from my notes taken at the time of the hearing.

I do hereby certify that the foregoing is a complete record of the proceedings in the Examiner hearing of Case No. 6620

Oll Conservation Division Examiner

Potsy mary 1915) Lester Malon etal	Arts Hord 300 Seption with I Province tol I from his held	Tester Miles, Color	Mory Hendricks, Lifetel	John Wellers	Stere
Marie		Sollay	5ún 10 21-191	1	
Si provine, etal L Alston, eta		1 35 /4"	State William	Mogratio 15 M M. R. Anderson, MI Mollie Frice, etolls	Lea
Porsyword, (915) 26 Incico Incico 105 6-183	Techia rico	wa, a, y 30 150 150 150 150 150 150 150 150 150 15	29	Read - 28 Son don Tis Sievens Coymon Corp.	Sometion 1,27 Coyman Core:
16648	The state of the s	State Policy Word, Vals)	Sun 10 21-79 Mory Hengricks 1-3664 Life Est	1-10 81 3 . 25 . 73 1-10 81 3 . 27 . 73 1-25 1-25 1-25 1-25 1-25 1-25 1-25 1-25	Celia Richardson 16 19 grad Councing Myrlle Richardson 1911 Maria 18
U.S., MI S.L. Williame, Est O Williams		Lester Alsten, etal	State Attivulating ory Mictionals) System System Artenburg - 1	Inter Williams of Celia Richardson Windfarward: Floyd Is A Richardson Example Williams (Groy Gray) Ordson	TC Pice
A COMPANY AND A	Aztec 2-1-41 L-3136 1216	Yotes 4.1.99 10.6475 10.6475	But it is	FEIN Gray CeliaRicharason	Enserch Enserch (%-16-81 11-50-81 15-11-83 1 17-16-8) Mystle Lyon
Jennings, M.I. Jennings, M.I. (G.O.W.) Montesons	36	31 Store	Yotes HC 32 HC 1 HC	O. T. Stonio	JW.Spears(C)
FALL SALL		using the	Votes HC HC HC HC Ooss Ooss	Some 4.73.73 (17107)	76-01 Seminary Courses 16-18-73
D.B. Mc. Lester Alston, d Millon, S ctol	Potsy Word, Valsy Lester Xisten, gool	Toomy Beton- Ellie C. bough, etal Meroney	Sione Ellie C. Merape,	Some del Mini De 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	A J Mc Clish, etal(s) de seed
Atlec So.Roy. 8:18:60 : 12:16:72 6:43:10, 2011 1:3872	אוממול אנולני ונחנני ונאנו	Enserch	Enserch H.C.Oss 5:2073 H.C.Oss 5:2073 H.C.Oss 6:2073 H.L.Oss Celia Richardson H.L.Oss Ella Sartinos	MCDONA 19	Enseigh See
25 27	R.O. Marin, J.M. Smoll-	Taba S	Sinclair Je derlingelo's	Samedon hyber fores Yares (Mober Cert Cont.) 13 13 15 12 13 15 15 15 15 15 15 15 15 15 15 15 15 15	Lucille M. Kinley AT 9001 Chorles E. Mitchel, atob.
Amoco 9 11 83		Ø. Sun si	Richardson 10 11 494 Abo 1216 EC Sertin M.	Yores 5 5 55 55 55 55 55 55 55 55 55 55 55 5	Enserth 1131
364 Store, MI Cliff Key	M. Smoll- I wood, MI. M.E.P. mell. M.I.	Stote M.I S.A. M.	A Constrain	Chaylon E.Dianess	Yorks 2001 5 - A 01 5-01
So.Roy.	Andrean Corter(5)	UNA 1	erolen J. W. Kicherdsen, erol [Allie Combert Jos. A. Foster (Extremal Yours H.E. Votes 11-15-01 - 15-01 13-31 11-15-01 13-31 11-15-01 13-31 11-15-01 13-31 11-15-01	Tenneco 19 M + A Armhers (1) Molino Del Rey 13 Yotes 12: 16: 60
C-1771 25 W	2- 1- 83 - 17- 1- 82 1744\$ 1 1558\$	Marolo, Inc.	1542	Yotes 2 10 00 Koly	Lucine McKinley M.
State	U.S. W Marathan Marathan	NCRA Siele Listing Fully 11 Yotes Yates 19 19 18 18 18 18 18	8 Col Mon	1 .67 J.G. J.G. 6.65 9 Jones Vonesis) 8125 1 Vates in 20-91	Jock Of Korl Claylon Yoles In E. Yoles
	J.M. Small	Yotes in	Austin of state	L.C. Bivers, etai,MI H.E.Yales Co	12 Pormon Sur
Angelly Mining Casic Soth Alaron, 41 Cliff Ney	M.E. Pewell, D.J. MI Anderson Correr, (S)	FronkieLee Spanishs Monteith SecurityTr.Cortal Monteith clot	Store Konteith	Store KorlCoylor, S. W.	Jock D. & Korl Corton M. Co. A.
	R.E. Tejeda Someton S. Stormon 12 \$\int_{-1000}^{200} \cos \\ \begin{array}{c} \cos \cos \\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	3 · 10 · 79	in. Union Expl. Charlin Acobe	Adobe 3 1 1 27 16 4064 12 28	10 1es H.E. Yolas 12 . 24 . 80
LAME ILMAN	Frankie Monteith U.S., MI	Frankie Monteith Security Ir, Ca Wish M.E. Yoles G.M.Cone M.E. Yoles	Storte 2	°' 16	A.C. Droke, MI Light
Hort Fred	Mora - 1. Mora - 1. Mon 1.12 84	12 11 01 1 LG-3017	A Honnon	(Davoit,Inc.)	AbbyCorp
J.L. Kidd, Jr. Johnson J. Dheed	J.C. Hooker, clar, M.s. Scurity Tr.Co. Ye (S) Frankle Manteim vold	Timb 7			364 nine wife ins , M.s. Yyan M. Frold, S
1		Huber Corp Superior	Adobe (Yotes)		bby Corp MR Young (MR
II-25-76	nien 11-28-81	Cabat Cara(0): 12(4)19	" Heod S.	LIL WC.D. Gore, MI elol. M In	hoping ve v
I KL Brown Jr.	H.Bro O.Jr.	Rectherstone Deed H. Frother	Amoco Yotes 2-15-82 4-26-82	7 m m m m m m m m m m m m m m m m m m m	M. R. Young W. Young
H.L. Funnell, M. \$ 23.73 H.L. Brown, Jr. \$ 11.73 4.23.73	1 10 13 8 10 79	1.56	Yotes	Cirlis Pollers M. Mil. or 11 34	R FrencesTorrystol M. 1. Miss
A.B.Cox, etal, M.I. J. Q. Head I Acaseo Oll	L. Brown, Jr. Blackwood	Front Monteith M. S. Siete Security Co. et al Huber Murphy Mins.	So. Union 4 70 15	Moyo(5) 1 35	TOTAL MOTORISTING IN CONF
12 · 1 · 81 - L· 6797 H.L. Brown h. in 30 32 Federal 10 1005	9: 15: 80 Woodward 4: 21: 15: 16:46:01 4: 21: 15: 00:17:5:54	G. 21. 0) T. 11. 0) 16. 918 12. 0) Nonsonio	1.24.42	2 . 1 . 92 1 3 23 65 1 11	R. Young M. R. Young O.I.
State U.S., MI Ht. Brown, Ja MJ. Harvey, Ja	5 16 63	t foness is see 31 30	1	174 Al 28 17, stal, Al He	Hiel field H C Ornord, HI L G
1 10: 13: 93		Huber Corp.	BEFOR	LE EXAMINER STAN	10 11 11 11 11 11 11 11 11 11 11 11 11 1
Ella M. Swortz etal, M.L. Menleith vero Briggs	Morlin J. Wiggins	Security Tr. Carter State		Notice Production LIV	SON COM MUY
10 4 81 10 4 17 17 18 1	nserch Hitagon, Q	Enserch 1175 BI	Adobe 11 84 Adobe 12 9 63 5-24-65 Warr	Adobe	Acobe (553553535353
		2007		Adobe 0	G Suresigner
CG-1016		31	Hearing	17/7	
State Sam Massey	10 coccopy to S. L. Road	The state of the s	nice i	The second of th	
	Enserch		ነድ ተስር። HAR\	VEY E. YATES CO.	, INC
Enserati Gulf	Sabit O. Goodrich Vt M.l.	I J.K. BISCHOON WAS INCIDENCE OF PAMILY OF PAM		oswell, New Mexico	A STANDARDA
Union Union Gulf T	enneco Azlec	C. Reminium		rvey E YATES. 1 Austin Montai	76
10.18 at 12.22	50 1 15 U	is as of Chindely	i. ř. (
HE Value Tenneço	Antes 1º		1, 543	Land Plat	一个 1
11 - 1 - 61 Date of Co.	15 H 2	44 P	Certifi 13.100	red on: ur interval:	·nC1/ 1
t 0. Seering 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 11	IN L. Road Kindel, elol, M. H.	mup a	Scale: /"= 4000'	COPY
	0:1 0:00 1:44 1:44 AWY 0	7-7	ikij seks		
State ROGORANI RA	G AWY, D G AWA, A fal W) Sonsklatteyts Sign	Store Jas. L. Rood 5	A CALL		
Supartor 11 - 1 - 64 1 - 1 - 65	l la				1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

604096 - 1928 BEFORE EXAMINER STAMETS OIL CONSERVATION DIVISION EXHIBIT NO. 3 CASE NO. 6620 Submitted by Applicant Hearing Dale 8/8/79 604096 - 1927

Earh Horizontal Line Equal to 1000 p.s.i.

	ID SAME	PLE DA	A T A	Dare 6	- 3-79	Ticket Number	604	096	12.3
Sompler Pressure			I.G at Surface	Kind		Holliburt	on		4 8
Recovery: Cu. F	1. Gos _2.	5			PEN HOLE	District	HOB	BS	- 58
cc. Oi				1	R. FLETCHE		ш	HADOTC	٥
ec. W		مِنْ د. بيدسمد سر ومردست			R. JENNING	S Witness	MK.	HARDIS	
cc. Mi			<u> </u>	Drilling Contractor M	מפעאכט שפיז	LLING CO.	DIG #7	10	တ
Gravity Tot. C	iquid cc.	• API @	•F		UIPMENT		DATA		
Gas/Oil Ratio			cu. It./bbl.			Mississi	noi		1
		ISTIVITY	CHLORIDE	Elevation		3965.91	GL 39	80.9'KB	. 65
			CONTENT	Net Productive	Interval	165'		F	<u>.</u>
Recovery Water		@t				Kelly Bu	shing		_ ယ
Recovery Mud		@•F.						F	ابيا ١
Recovery Mud F		@ 'F.	ppm	Main Hole/Cas	ing Size	<u>7_7/8"</u>		F.I.	-1
Mud Pit Somple Mud Pit Somple		غ•			101h	585 1.D.	2,2	2 C4011	-1
AIDO FIL SOMPLE		" —— '	- ppm	Orill Pipe Leng	th 3310	-7415' I.D.			-1
Mud Weight		9.6 vis	48 144	Packer Depth(s) Depth Tester Vo		13.227'-	13.636	F	1.
TYPE	AMOUNT		Depth Back		Surface	FLOOR Bott		£	4
Cushion 2000	Aktoria de medica (Balifornia de la constante d	ATÉR	Ft. Pres. Valve		Choke MAN	TEOUR BOR		•	
	- I THEY LILL.		1200# NITE			ALYLU			<u> </u>
			illate						F 8 8
		. H							3 J° °
Recovered 2	000 Fee	et of Gas	cut mud						<u> </u>
Recovered	Fee	et of							NORTH
Recovered	ree	et of						· i	
Recovered	Faa	et of			•			1	10
	. • •				•			. !	15
							· · · · · · · · · · · · · · · · · · ·		VING
Remarks SE	E PRODUCTI	ON TEST	DATA SHEET						VINGTO
Remarks SE	E PRODUCTI	ON TEST	DATA SHEEL						LOVINGTON
Remarks SE	E PRODUCTI	ON TEST	DATA SHEET.						VINGTON
Remarks SE	E_PRODUCTI	ON TEST	DATA SHEET.						VINGTON
Remarks SE	E PRODUCTI	ON TEST	DATA SHEET.						
Remarks <u>SE</u>	E PRODUCTI	ON TEST	DATA SHEET.						VINGTON
Remarks SE	E PRODUCTI	ON TEST	DATA SHEET.						Country
Remarks SE		30.4	DATA SHEET.						County LE
	Gouge No.]	928	DATA SHEET.	1927	Gauge No.			IM	Country
TEMPERATURE	Gouge No.]	928 3.212'	Gauge No.	1927 13,396'n		FI.	Τ	IME	County LE
TEMPERATURE	Gouge No. 1 bepth: 1	928 3.212' 4 Hour Cle	Gauge No. Ft. Depth: ock:	1927 13,396 'FI, 2410ur Clock	Gauge No.		Tool	A.M	County LEA
TEMPERATURE	Gouge No.]	928 3.212' 4 Hour Cle	Gauge No.	1927 13,396 'rı, 241our Clock	Gauge No.		Tool Opened	A.M 7:43 P.M	County LEA
TEMPERATURE 11. 200+ °F.	Gouge No.] Depth:] 2 Blanked OffN	928 3.212' 4 Hour Clo	Gauge No. St. Depth: ock: Blanked Off	1927 13,396'ri, 24tour Clock YES	Gauge No. Oepth Blonked Off	Hour Clock	Tool Opened Opened	7:43 P.M	County LEA
TEMPERATURE 11. 200+ 1F.	Gouge No.] Depth:] 2 Blanked OffN	928 3.212' 4 Hour Cle 0	Gauge No. St. Depth: Depth: Blanked Off	1927 13,396 Fr. 241our Clock YES	Gauge No. Oepth: Blanked Off Press	Hour Clock	Tool Opened Opened Bypass	A.M 7:43 P.M A.M. 5:12 P.M.	County LEA
TEMPERATURE st. 200+ °F.	Gouge No.] Depth:] 2 Blanked OffN Pres	928 3.212' 4 Hour Cla 0	Gauge No. Ft. Depth: bck: Blanked Off Pri	1927 13,396 r., 24lour Clock YES essures	Gauge No. Oepth Blonked Off	Hour Clock	Tool Opened Opened Bypass Reported	A.M 7:43 P.M A.M 5:12 P.M. Computed	County LEA
TEMPERATURE 11. 200+ *F. 15. ctual *F.	Gouge No. 1 Depth: 1 2 Blanked OffN Pres	928 3.212' 4 Hour Cla 0 ssures 6367.	Gauge No. Ft. Depth: Ock: Blanked Off Pr. Field 7 6538	1927 13,396 1/1, 241001 Clock YES essures 0111ce 6534.2	Gauge No. Oepth: Blanked Off Press	Hour Clock	Tool Opened Opened Bypass	A.M 7:43 P.M A.M. 5:12 P.M.	County LEA
TEMPERATURE st. 200+ *F. ctual *F.	Gouge No. 1 Depth: 1 2 Blanked OffN Pres Field 6365 2483	928 3.212' 4 Hour Clo 0 ssures 6367' 2492.0	Gauge No. Ft. Depth: Ock: Blanked Off Pr. Field 7 6538 0 2571	1927 13,396 In. 24tour Clock YES essures 0111ce 6534.2 2573.7	Gauge No. Oepth: Blanked Off Press	Hour Clock	Tool Opened Opened Bypass Reported Minutes	A,M 7;43 P,M A,M 5:12 P,M. Computed Minutes	County LEA
TEMPERATURE st. 200+ °F. ctual °F. litial Hydrostatic Flow Initial Final	Gouge No. 1 Depth: 1 2 Blanked OffN Pres Field 6365 2483 1394	928 3.212' 4 Hour Clo 0 ssures 6367.1 2492.0 1358.2	Gauge No. St. Depth: Ock Blanked Off Pr. Field 7 6538 0 2571 2 1393	1927 13,396 1/1, 24100/ Clock YES essures 0///ce 6534.2 2573.7 1402.7	Gauge No. Oepth: Blanked Off Press	Hour Clock	Tool Opened Opened Bypass Reported Minutes 83	7:43 P.M A.M. 5:12 P.M. Computed Minutes ————————————————————————————————————	County LEA State
TEMPERATURE st. 200+ °F. ctual °F. litial Hydrostatic Flow Initial Final Closed in	Gouge No. 1 Depth: 1 2 Blanked OffN Pres Field 6365 2483 1394 5737	928 3.212' 4 Hour Clo 0 ssures 6367'.2 2492.0 1358.2 5734.8	Gauge No. St. Depth: Ock Blanked Off Pro Field 7 6538 0 2571 2 1393 3 5785	1927 13,396 Fr. 2410ur Clock YES essures 0111ce 6534.2 2573.7 1402.7 5803.6	Gauge No. Oepth: Blanked Off Press	Hour Clock	Tool Opened Opened Bypass Reported Minutes	A,M 7;43 P,M A,M 5:12 P,M. Computed Minutes	County LEA State
TEMPERATURE st. 200+ °F. ctual °F. litial Hydrostatic Flow Initial Closed in R Etow Initial	Gouge No. 1 Depth: 1 2 Blanked OffN Pres Field 6365 2483 1394 5737 1031	928 3.212' 4 Hour Clo 0 ssures 6367.2 2492.0 1358.2 5734.8	Gauge No. St. Depth: Sck Blanked Off Pro Field 7 6538 0 2571 2 1393 3 5785 1 1162	1927 13,396 Fr. 2410ur Clock YES essures 0111ce 6534.2 2573.7 1402.7 5803.6 1152.7	Gauge No. Oepth: Blanked Off Press	Hour Clock	Tool Opened Opened Bypass Reported Minutes 83 118	A.M. 7:43 P.M. A.M. 5:12 P.M. Computed Minutes 89 119	County LEA Steel NEW
st. 200+ °F. Sctual °F. Stillial Hydrostatic Flow Initial Flow Initial Flow Initial Flow Final	Gouge No. 1 Depth: 1 2 Blanked OffN Pres Field 6365 2483 1394 5737 1031 1281	928 3.212' 4 Hour Cle 0 5367' 2492' 1358' 5734' 1088' 1260'	Gauge No. St. Depth: Sck: Blanked Off Pro Field 7 6538 0 2571 2 1393 3 5785 1 1162 7 1324	1927 13,396 Fr. 2410ur Clock YES essures 0111ce 6534.2 2573.7 1402.7 5803.6 1152.7	Gauge No. Oepth: Blanked Off Press	Hour Clock	Tool Opened Opened Bypass Reported Minutes 83 118	A.M. 7:43 P.M. A.M. 5:12 P.M. Computed Minutes 89 119	County LEA Steel NEW
TEMPERATURE st. 200+ *F. ctual *F. litial Hydrostatic Flow Initial Closed in Flow Initial Flow Initial Flow Initial Flow Initial Flow Initial Flow Initial	Gouge No. 1 Depth: 1 2 Blanked OffN Pres Field 6365 2483 1394 5737 1031	928 3.212' 4 Hour Clo 0 ssures 6367.2 2492.0 1358.2 5734.8	Gauge No. St. Depth: Sck: Blanked Off Pro Field 7 6538 0 2571 2 1393 3 5785 1 1162 7 1324	1927 13,396 Fr. 2410ur Clock YES essures 0111ce 6534.2 2573.7 1402.7 5803.6 1152.7	Gauge No. Oepth: Blanked Off Press	Hour Clock	Tool Opened Opened Bypass Reported Minutes 83 118	A.M. 7:43 P.M. A.M. 5:12 P.M. Computed Minutes 89 119	COUNTY LEA SHOP NEW MEXI
TEMPERATURE st. 200+ *F. ctual	Gouge No. 1 Depth: 1 2 Blanked OffN Pres Field 6365 2483 1394 5737 1031 1281	928 3.212' 4 Hour Cle 0 5367' 2492' 1358' 5734' 1088' 1260'	Gauge No. St. Depth: Sck: Blanked Off Pro Field 7 6538 0 2571 2 1393 3 5785 1 1162 7 1324	1927 13,396 Fr. 2410ur Clock YES essures 0111ce 6534.2 2573.7 1402.7 5803.6 1152.7	Gauge No. Oepth: Blanked Off Press	Hour Clock	Tool Opened Opened Bypass Reported Minutes 83 118	A.M. 7:43 P.M. A.M. 5:12 P.M. Computed Minutes 89 119	County LEA Steel NEW
st. 200+ °F. Actual °F. Actu	Gouge No. 1 Depth: 1 2 Blanked OffN Pres Field 6365 2483 1394 5737 1031 1281	928 3.212' 4 Hour Cle 0 5367' 2492' 1358' 5734' 1088' 1260'	Gauge No. St. Depth: Sck: Blanked Off Pro Field 7 6538 0 2571 2 1393 3 5785 1 1162 7 1324	1927 13,396 Fr. 2410ur Clock YES essures 0111ce 6534.2 2573.7 1402.7 5803.6 1152.7	Gauge No. Oepth: Blanked Off Press	Hour Clock	Tool Opened Opened Bypass Reported Minutes 83 118	A.M. 7:43 P.M. A.M. 5:12 P.M. Computed Minutes 89 119	COUNTY LEA SHOP NEW MEXI
TEMPERATURE ist. 200+ *F. Actual *F. Initial Hydrostatic Flow Initial Final Closed in Closed in Final Flow Initial Final Flow Final Flow Final	Gouge No. 1 Depth: 1 2 Blanked OffN Pres Field 6365 2483 1394 5737 1031 1281	928 3.212' 4 Hour Cla 0 stures 6367 2492.0 1358.3 5734.8 1088.4 1260.7 5698.8	Gauge No. St. Depth: Sck: Blanked Off Pro Field 7 6538 0 2571 2 1393 3 5785 1 1162 7 1324	1927 13,396 Fr. 2410ur Clock YES essures 0111ce 6534.2 2573.7 1402.7 5803.6 1152.7	Gauge No. Oepth: Blanked Off Press	Hour Clock	Tool Opened Opened Bypass Reported Minutes 83 118	A.M. 7:43 P.M. A.M. 5:12 P.M. Computed Minutes 89 119	COUNTY LEA SHOP NEW MEXI

AND 141 AL - PRINTER IN 18 A

FORMATION TEST DATA

CITTLE \$ 102515 54 1/1

Cosing per	/1. <u></u>	Bottom	choke	· - · · · · · · · · · · · · · · · · · ·	_Surf. lemp*F Ticket No. 604096				
Spec. gravi	η	Chloride	.		ppm Res				
INDICATE TYPE AND SIZE OF GAS MEASURING DEVICE USED									
Time	a.m. Choke p.m. Size	Surface Pressure psi	Gas Rate MCF	Liquid Rate BPD	Remarks				
11:15					Testers on location.				
1:45					Picked up tools.				
2:50					Started in hole.				
3:10					Put in water cushion.				
6:36		1200			Put in nitrogen.				
7:43		875			Opened tools.				
7:46		900			Pressure increased.				
7:50		1000			Pressure increased.				
7:52	1/4"	1350			Opened to choke.				
7:57	1/4"	1350							
8:02	3/8"	1300			Changed chokes.				
8:02	3/8"	1250			Pressure decreased.				
8:07	3/8"	1175			Pressure decreased.				
8:12	30/64	950	7 4		Changed chokes.				
8:17	30/64	950			Pressure decreased.				
8:22	30/64	900			Pressure decreased.				
8:28	3/4"	700			Changed chokes.				
8:37	3/4"	500			Pressure decreased.				
8:42	3/4"	450			Pressure decreased.				
8:47	3/4"	375			Pressure decreased.				
9:07	3/4"	375			Gas to surface.				
9:14	3/4"	355							
9:14	3/4"	355		·	Closed tool.				
11:12	5/8"				Opened tool for second flow.				
11:17	5/8"	5			Pressure increased.				

FORM 183-A1-PRINTED IN V. 8. A

PRODUCTION TEST DATA

LITTLE | 11111 14 1/11

Spec. gravity		Chloride	<u> </u>		pm Res
INDICATE TYPE	AND SIZE	OF GAS MEAS	JRING DEVICE U	SED	
Date Time o.m. p.m.	Choke Size	Surface Pressure pai	Gas Rate MCF	Liquid Rate BPD	Remarks
11:22	5/8"	_u			Pressure increased.
_11:27	5/8"	150			Water blanket to surface.
11:32	5/8"	250			Pressure increased.
11:37	5/8"	300			Pressure increased.
11:42	5/8"	340			Pressure increased.
_11:47	5/8"	350			Pressure increased.
11:52	5/8"	360			Pressure increased.
11:57	5/8"	375			Pressure increased.
12:02	5/8"	380			Pressure increased.
12:07	5/8"	370			Pressure increased.
12:12	5/8"	400			Pressure increased.
12:22 -	5/8"	410			Closed in at surface due to leak.
12:32	5/8"	380		· · · · · · · · · · · · · · · · · · ·	Reopened - pressure decreased.
12:42	5/8"	340			Pressure decreased.
12:52	5/8"	330			Pressure decreased.
1:02	5/8"	310			Pressure decreased.
1:12	5/8"	310			Pressure decreased.
5:12					Opened bypass.
9:00				·	Reversed out,
				: :::	
				ang matananan salahini angga salahin m	
				· · · · · · · · · · · · · · · · · · ·	
				· · ·	

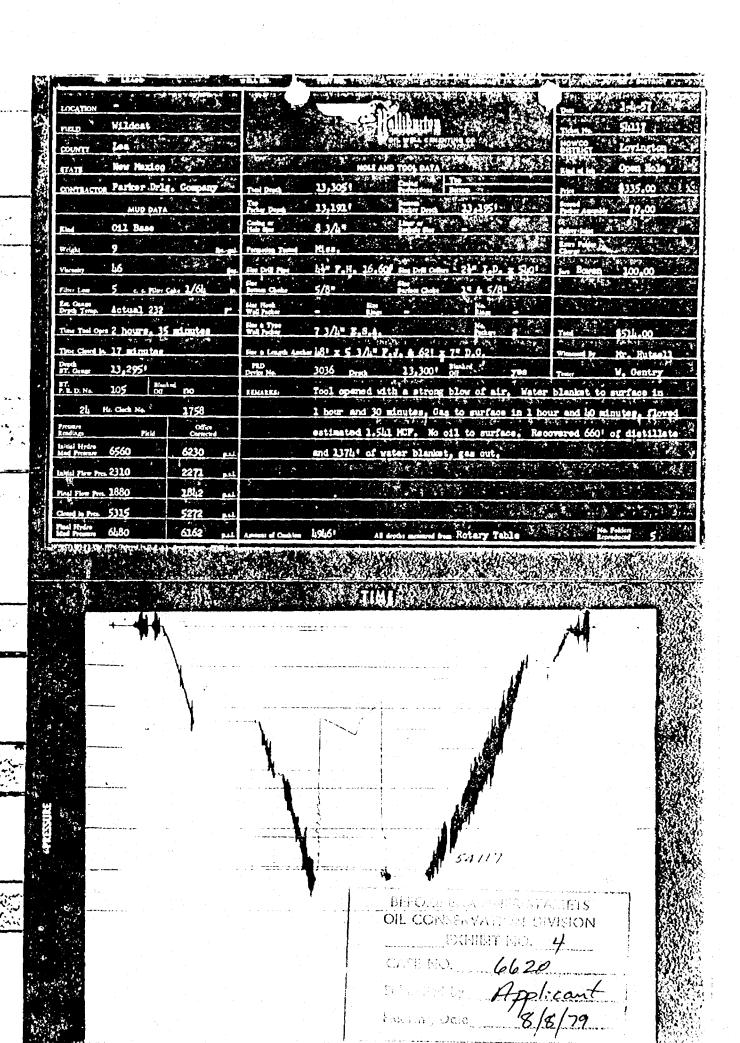
PRODUCTION TEST DATA

CITTLE'S 10172 6H 4/11

<u> </u>	auge No.		28	·	Depth	13,212		Clock No	<u>. 11</u>	954	24 hour	Ticket No.604	096		
	First Flow Pe	riod	c	First osed In Press		Sec Flow	ond Period	Second Closed In Pressure		Third Flow Period		C	Third losed in Pressu	re .	
	Time Defl. ,000"	PSIG Temp. Corr.	Time Defl. .000"	$log \frac{1+\theta}{\theta}$	PSIG Temp. Corr.	Time Deff.	PSIG ' Temp. Corr.	Time Deft. .000"	$Loo \frac{1+\theta}{\theta}$	PSIG Temp. Corr.	Time Deff, .000"	PSIG Temp. Corr.	Time Dell,	$log \frac{1+\theta}{\theta}$	PSR Tem Corr
0	.000	2492.0	.000		1358.2	.000	1088.4	.000		1260.7					
_'		2589.5C			5119.1*		1287.9	.0503		5382.0*	**				
2		2569.1*			5523.5	.1293	1387.7	.1040		5507.8					
3	(.053	2548.7C			5602.2	(.183	1371.8/			5555.0					
4		2346.9	.1063		5638.2	.1941	1376.4	.2114		5586.5					
5		2029.4	.1337		5660.6	(.234	1351.4A			5608.9					
6	(.130	1913.8C			5676.4	.2588	1335.6	.3188		5626.9					
7	.1426	1802.7	.1886		5689.8	(.314	1267.54	C).3724		5642.6					
8	.1774	1485.2	.2160		5698.8	.3235	1272.1	.4261		5653.9					
9	(.196	1412.7C			5707.8	.3880	1260.7	.4798		5662.9		11.			
10		1408.1	.2709		5714.6			.5335		5671.9					
'n		1383.2	.2983		5719.1			,5872	1.2	5678.6					
12	.2820	1358.2	.3257		5725.8			. 6409	1.4.4	5685.3					
13),855 40		.3532		5730.3	- 1.5		.6946		5689.8					
13			. 3806		5732.5			.7483	-	5694.3					
15			.4080		5734.8			.8020		5698.8					
ò		2573.7			Depth 1402.7	13,396'	1152.7	Clock No	. 5991	1314.8	24 hour		<u> </u>		
1		2668.1C)			5285.3*		1342.5	.0503		5422.3	**		<u></u>		
2	.0402	2652.0*	.0506		5591.3	.128	1442.1	.1040		5561.6					
		2617.4C)			5668.9	(.186	1425.9A			5616.4					
			.1045		5703.1	.192	1428.2	.2114		5646.1				[
			.1314		5726.0	(.236	1407.4A			5671.2			II		
		1969.9C			5742.0	.256	1395.8	.3188		5689.4			II		
			.1854		5753.4	(.313	1324.0A	.).3724		5703.1					
			.2123				1326.3	.4261		5714.6					
9		[465.2C]			5773.9	. 384	1314.8	4798		5726.0					
			.2662		5778.5			.5335		5732.8					
			.2932		5785.3			. 5872		5739.7					
2	2980		. 3202		5789.9			. 6409		5744.2					
3			.3471		5794.5			.6946		5751.1					
7			.3741		5799.0			.7483		5755.7					
5		, 43a m	.4010		5803.6			.8020		5760.2					
2.5	ing Interval			8		19			16						Minu

	0. 0.	1.0.	LENGTH	DEPTH
Drill Pipe or Tubing	<u> </u>	28	11	
Reversing Sub	6"	3"	<u> </u>	
Water Cushion Valve	4.50"	3.826"	5310'	
Drill Pipe	4.50"	3.640"	7415'	1.
Drill Collers	6.25"	2.25"	585'	
Handling Sub & Chake Assembly	 		1' X OVER	
Duel CIP Valve			·	
Dual CIP Sampler	5"	.75"	5'	13,191'
Hýdro-Spring Tester	<u> </u>		<u> </u>	
Multiple CIP Sampler	5"	.75"	4 1	
Extension Joint	5"	87''	15' (3 each)	
	- ·	0.051		10.0101
AP Running Case	5"	3.25"	<u>5'</u>	13.212'
Hydraulie Jor	5"	1.75"	5	
riyordune Jor		L & //	<u> </u>	
VR Safety Joint	5"		3'	
Pressure Equalizing Crossover				
Pocker Assembly	7"	1.53"	5 '	13.227
	f			
Distributor	<u>5"</u>	1.68"	21	
CIST ISOTO		·- <u>La.VV</u>	L	
			•	•
Pocker Assembly	7"	_1.53"	5!	13,232'
Fig. 1. St. St. St. St. St. St. St. St. St. St				
Flush Joint Anchor			·	
Pressure Equalizing Tube				
Blanked-Off B.T. Running Case	<u> </u>			· <u></u>
Drill Collors				
Anchor Pipe Safety Joint				
		. (
Packer Assembly				
Distributor				
Packer Assembly			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
				×
	5 75"	1.50"	4.	
Anchor Pipe Safety Joint	5.75"	1.50"	4'	
	5.75"6"	1.50"	4'	
Anchor Pipe Safety Joint	6"			
Anchor Pipe Safety Joint side Wall Anchor	6,25"	_1.50"	124'	
Anchor Pipe Safety Joint Side Wall Anchor Drill Collars	6.25" 5.75"		124' 1' X OVER	
Anchor Pipe Safety Joint Side Wall Anchor	6,25"		124'	
Anchor Pipe Safety Joint Side Wall Anchor Drill Collors Flush Joint Anchor	6.25" 5.75" 5.75"	_2.25"	124' 1' X OVER 32'	
Anchor Pipe Safety Joint Side Wall Anchor Drill Collars	6.25" 5.75"		124' 1' X OVER	_13,396! _13,400'

EQUIPMENT DATA



HARVEY E. YATES

AUSTIN MONTEITH NO. 1

Located Unit N, Section 8
Township 14 South, Range 36 East
Lea County, New Mexico

RESERVOIR PRESSURE COMPARISON

PHILLIPS PETR. CO., AUSTIN COM. NO. 1M SECTION 17-T-14S-R36E LEA COUNTY, NEW MEXICO

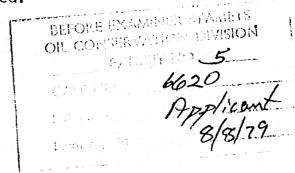
- 1. Original Reservoir Pressure
 - a. Motal Depth 13,305
 - b. Depth of Packers-Top (13,191'), Bottom (13,195')
 - c. Closed in Reservoir Pressure 5315 psi
- 2. Production History
 - a. June 3, 1979, well had produced 4,145,030 MCF Gas and 58,684 Bbls. Condensate.
- 3. Present Bottom Hole Pressure
 - a. 1142 psi
 - b. Production apparently has ceased.

HARVEY E. YATES

AUSTIN MONTEITH NO. 1

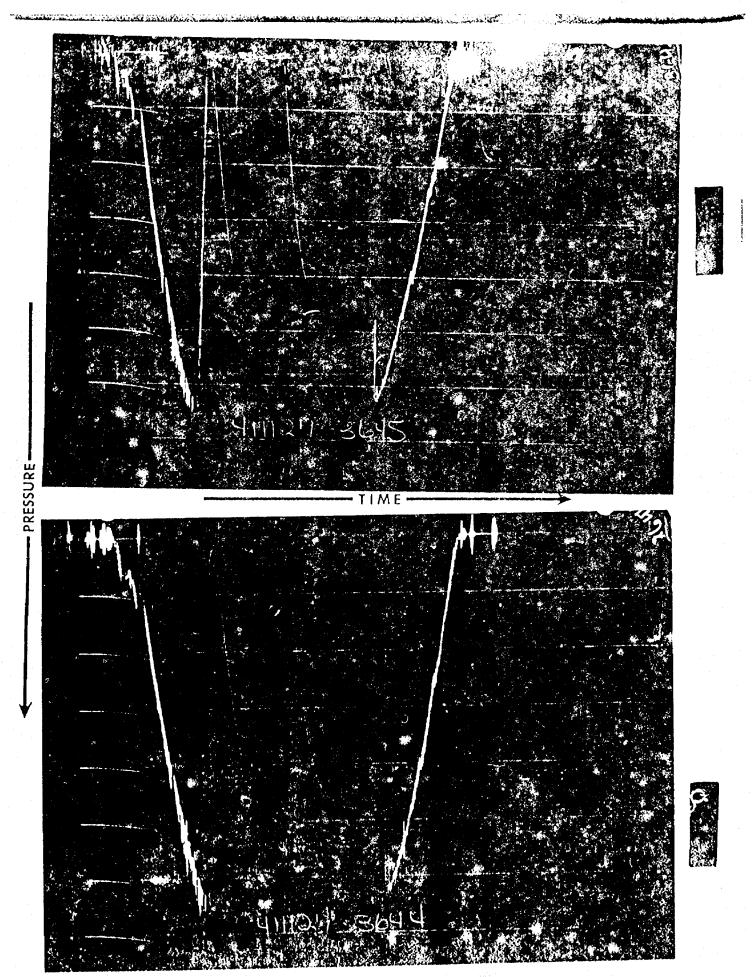
Located Unit N, Section 8 Township 14 South, Range 36 East Lea County, New Mexico

- 1. Original Reservoir Pressure, June 3, 1979
 - a. Total depth 13,400
 - b. Depth of Packer Top (13,227'), Bottom (13,232')
 - c. Closed in Reservoir pressure 5737 psi. Initial, 5692 psi. Final.
- 2. Bottom Hole Pressure Survey, August 5, 1979
 - a. 13,000' 5,760 psi
- 3. Production History
 - a. Well has not been produced.



FLU		<u> </u>	\ T \ A	Date 3	-28-78	Ticket Numbe	<u>r 411</u>	127	12.3	. 15
Sampler Pressure			S.I.G. at Surface	Kind	OCH 110: :	Hollibu	irton		Twp Rn	
Recovery: Cu. Ft	***************************************	32			PEN HOLE		HOB	885	_**\\	
cc. Oil					. JENNING		2.178	1 Allena	l _o	3
cc. Wo		RY) • ——		Tester D	. ALBERTS)N Witnes	s BIC	L OWENS	_	3
cc. Mu		· · · · · · · · · · · · · · · · · · ·		Drilling			Mair.			Leose Name
	quid cc.		<u>></u>			ILLING COMP		PW	4	3
Gravity		. Yb! @				T & HOL		<u> </u>	4	
Gas/Oil Ratio			cu. ft./bbl.	Formation Test	ed	Mississipp	21		-1	
	RES	ISTIVITY	CHLORIDE CONTENT	Elevation				Ft.	<u>.</u>]	
A STATE OF THE STA		action in the		Net Productive	Interval	124'		Ft	.	ĺ
Recovery Water		@ •F.		All Depths Mea	sured From	Kelly Bush	ning			
Recovery Mud		@ 'F.		Total Depth_		13310'		Ft	.	
Recovery Mud Fi	ltrate	@ •F.				8 1/2"	. 1-1-12-1-12-12-1			
Mud Pit Sample		@ •F.		Drill Collar Ler	ngth	544' ?? 1.0				. ≨
Mud Pit Sample	Filtrate	@•F.	ppm	Drill Pipe Leng		12910' ??	3.826"	- 2.764	<u> </u>	Well No.
				Packer Depth(s)		13180' - 1	13186'	Ft	.1	
Mud Weight		9 vis	52 sec	Depth Tester V	alve	13166'		Ft.		
TYPE	AMOUNT	-	Depth Back		Surface	Bo	ottom		7	Ι,
Cushion			Ft. Pres. Valve		Choke		hoke		1	
							• • • • •	T	1-	- 텔
Recovered	613 Fe	et of S1	ightly gas	cut mud.				≥	≯red Area	Ş
·	· · · · · · · · · · · · · · · · · · ·									
Recovered	Fe	et of								1 ,
	 					·		1		
Recovered	Fe	et of				7.1		Testor	'	1 1
										
								· Š		4 1
Recovered	Fe	to fr								
Recovered	Fe	et of		 				\$	=	1 1
Recovered		et of							WIL	
		•							WILDC	
Recovered		•		· · · · · · · · · · · · · · · · · · ·				\$	WILDCAT	Tested
		•							WILDCAT	Tested
Recovered	Fee	et of	ST DATA SHE	EET					WILDCAT	Tested
Recovered	Fee	et of	ST DATA SHE	EET					WILDCAT	
Recovered	Fee	et of	ST DATA SHE	ET						Tested
Recovered	Fee	et of	ST DATA SHE	ET						Tested
Recovered	Fee	et of	ST DATA SHE	ET					WILDCAT	Tested
Recovered	Fee	et of	ST DATA SHE	ET						Tested
Recovered	Fee	et of	ST DATA SHE	EF					County	Tested
Recovered Remarks	SEE PRODI	et of	ST DATA SH	3644	Gauge No.					Tested
Recovered	SEE PRODU	JCTION TE	Gauge No.	3644	_	Ft.		TIME	County	Tested Interval
Recovered Remarks	SEE PRODU	JCTION TE	Gauge No.	3644 13306 ft.	_	Ft. Hour Clock	1	TIME	County	Tested Interval
Recovered Remarks TEMPERATURE	SEE PRODU	3645 3171	Gauge No.	3644 13306 ft. 24Hour Clock	Depth:	Ft. Hour Clock	Tool	TIME A.M.	County	Tested Interval
Recovered Remarks	SEE PRODU	3645 3171	Gauge No.	3644 13306 ft. 24Hour Clock	_		T∞l	TIME	County	Tested Interval
Recovered Remarks TEMPERATURE Est. °F.	SEE PRODI	3645 3171 24 Hour Cla	Gauge No. ft. Depth: >>k Blanked Off	3644 13306 r. 24Hour Clock Yes	Depth: Blanked Off	Hour Clock	Tool Opened (7/ME 0245 P.M.	County	Tested Interval
Recovered Remarks TEMPERATURE	SEE PRODI	JCTION TE 3645 3171 24 Hour Clo	Gauge No. Ft. Depth: >>k Blanked Off Pre	3644 13306 fr. 24Hour Clock Yes	Depth: Blanked Off Pre	Hour Clock	Tool Opened (7/ME 0245 P.M.	County	Tested Interval
Recovered Remarks TEMPERATURE Est. *F. Actual 184 *F.	SEE PRODI	JCTION TE 3645 3171 24 Hour Clo	Gauge No. ft. Depth: xk Blanked Off Pre Field	3644 13306 Ft. 24Hour Clock Yes sssures	Depth: Blanked Off	Hour Clock	Tool Opened Opened Bypass Reported	A.M. 0245 P.M. A.M. 1001 P.M. Computed	County	Tested Interval
Recovered Remarks TEMPERATURE Est. °F. Actual 184 °F.	SEE PRODI	JCTION TE 3645 3171 4 Hour Clo	Gauge No. Ft. Depth: >>> Blanked Off Pre Field 6275	3644 13306 Ft. 24Hour Clock Yes ssures Office 6284	Depth: Blanked Off Pre	Hour Clock	Tool Opened (Opened Byposs	7/ME A.M. 0245 P.M. A.M. 1001 P.M.	County LEA	Tested Interval
Recovered Remarks TEMPERATURE Est. °F. Actual 184 °F.	Gauge No. Oegth: Pre: Field 6267	3645 3171 4 Hour Cla	Gauge No. Ft. Depth: >>> Blanked Off Pre Field 6275 233	3644 13306 Ft. 24Hour Clock Yes office 6284 335	Depth: Blanked Off Pre	Hour Clock	Tool Opened (Opened Bypass Reported Minutes	A.M. D245 P.M. A.M. O01 P.M. Computed Minutes	County	Tested Interval Lease Owner/
Recovered Remarks TEMPERATURE Est. °F. Actual 184 °F. Initial Hydrostatic Initial Final	Gauge No. Oegth: Pre: Field 6267 174 196	3645 3171 24 Hour Cla 10 ssures 6212 264 164	Gauge No. Ft. Depth: >ck Blanked Off Pre Field 6275 233 254	3644 13306 Ft. 24Hour Clock Yes office 6284 335 225	Depth: Blanked Off Pre	Hour Clock	Tool Opened (Opened Byposs Reported Minutes	A.M. D245 P.M. A.M. 1001 P.M. Computed Minutes	County LEA Store	Tested Interval Lease Owner/
Recovered Remarks TEMPERATURE Est. °F. Actual 134 °F. Initial Hydrostatic Initial Closed in	Gauge No. Oegth: Blanked Off N Pre: Field 6267 174 196 3822	3645 3171 4 Hour Cla 10 550res 6212 264 164 3803	Gauge No. Pre Blanked Off Pre Field 6275 233 254 3824	3644 13306 Ft. 24Hour Clock Yes ssures 0ffice 6284 335 225 3825	Depth: Blanked Off Pre	Hour Clock	Tool Opened (Opened Bypass Reported Minutes	A.M. D245 P.M. A.M. O01 P.M. Computed Minutes	County LEA Store	Tested Interval Lease Owner/
Recovered Remarks TEMPERATURE Est. °F. Actual 134 °F. Initial Hydrostatic Initial Closed in Closed in Leitled	Gauge No. Oegth: Blanked Off N Pre: Field 6267 174 196 3822 196	3645 3171 24 Hour Cla 10 ssures 6212 264 164 3803 273	Gauge No. Ft. Depth: Ock Blanked Off Pre Field 6275 233 254 3824 233	3644 13306 Ft. 24Hour Clock Yes office 6284 335 225 3825 297	Depth: Blanked Off Pre	Hour Clock	Tool Opened (Opened Byposs] Reported Minutes 15 60	7 IME A.M. D245 P.M. A.M. Computed Minutes 15 61	County LEA Store NEW	Tested Interval Lease Owner/
Recovered Remarks TEMPERATURE Est. °F. Actual 134 °F. Initial Hydrostatic Initial Closed in Initial Final Closed in Final	Gauge No. Coepth: Blanked Off N Pre: Field 6267 174 196 3822 196 218	3645 3171 24 Hour Cla 10 850res 6212 264 164 3803 273 201	Gauge No. Depth: Depth:	3644 13306 Ft. 24Hour Clock Yes office 6284 335 225 3825 297 225	Depth: Blanked Off Pre	Hour Clock	Tool Opened (Opened Byposs] Reported Minutes ————————————————————————————————————	7 / ME A.M. D245 P.M. A.M. Computed Minutes 15 61 120	County LEA Store NEW	Tested Interval Lease Owner/
Remarks TEMPERATURE Est. °F. Actual 134 °F. Initial Hydrostatic Initial Final Closed in Final Closed in Closed in Closed in Closed in Closed in Closed in	Gauge No. Oegth: Blanked Off N Pre: Field 6267 174 196 3822 196	3645 3171 24 Hour Cla 10 ssures 6212 264 164 3803 273	Gauge No. Ft. Depth: Ock Blanked Off Pre Field 6275 233 254 3824 233	3644 13306 Ft. 24Hour Clock Yes office 6284 335 225 3825 297	Depth: Blanked Off Pre	Hour Clock	Tool Opened (Opened Byposs] Reported Minutes 15 60	7 IME A.M. D245 P.M. A.M. Computed Minutes 15 61	County LEA Stote NEW MEXI	Tested Interval Lease Owner/S
Recovered Remarks TEMPERATURE Est. *F. Actual 184 *F. Initial Hydrostatic Initial Closed in Initial Closed in Initial Closed in Initial	Gauge No. Coepth: Blanked Off N Pre: Field 6267 174 196 3822 196 218	3645 3171 24 Hour Cla 10 850res 6212 264 164 3803 273 201	Gauge No. Depth: Depth:	3644 13306 Ft. 24Hour Clock Yes office 6284 335 225 3825 297 225	Depth: Blanked Off Pre	Hour Clock	Tool Opened (Opened Byposs] Reported Minutes ————————————————————————————————————	7 / ME A.M. D245 P.M. A.M. Computed Minutes 15 61 120	County LEA Store	Tested Interval Lease Owner/
Recovered Remarks TEMPERATURE Est. "F. Actual 134 F. Initial Hydrostatic Initial Final Closed in Closed in Initial Final Closed in Initial Final Closed in Initial Final Closed in Final Fi	Gauge No. Coepth: Blanked Off N Pre: Field 6267 174 196 3822 196 218	3645 3171 24 Hour Cla 10 850res 6212 264 164 3803 273 201	Gauge No. Depth: Depth:	3644 13306 Ft. 24Hour Clock Yes office 6284 335 225 3825 297 225	Depth: Blanked Off Pre	Hour Clock	Tool Opened (Opened Byposs] Reported Minutes ————————————————————————————————————	7 / ME A.M. D245 P.M. A.M. Computed Minutes 15 61 120	County LEA Stote NEW MEXI	Tested Interval Lease Owner/
Recovered Remarks TEMPERATURE Est. "F, Actual 134 "F, Initial Hydrostatic Initial Closed in Closed in Initial Closed in Initial Tinal Closed in Initial Closed in	Gauge No. Coepth: Blanked Off N Pre: Field 6267 174 196 3822 196 218	3645 3171 24 Hour Cla to ssures 6212 264 164 3803 273 201 4817	Gauge No. Pepth: Sck Blanked Off Pre Field 6275 233 254 3824 233 254 4967	3644 13306 Ft. 24Hour Clock Yes office 6284 335 225 3825 297 225 4843	Depth: Blanked Off Pre	Hour Clock	Tool Opened (Opened Byposs] Reported Minutes ————————————————————————————————————	7 / ME A.M. D245 P.M. A.M. Computed Minutes 15 61 120	County LEA Stote NEW MEXI	Tested Interval Lease Owner/
Recovered Remarks TEMPERATURE Est. "F. Actual 134 F. Initial Hydrostatic Initial Final Closed in Closed in Initial Final Closed in Initial Final Closed in Initial Final Closed in Final Fi	SEE PRODU Gauge No. : Depth: 2 Blanked Off N Pre: Field 6267 174 196 3822 196 218 4834	3645 3171 24 Hour Cla 10 850res 6212 264 164 3803 273 201	Gauge No. Pepth: Sck Blanked Off Pre Field 6275 233 254 3824 233 254 4967	3644 13306 Ft. 24Hour Clock Yes office 6284 335 225 3825 297 225	Depth: Blanked Off Pre	Hour Clock	Tool Opened (Opened Byposs] Reported Minutes ————————————————————————————————————	7 / ME A.M. D245 P.M. A.M. Computed Minutes 15 61 120	County LEA Stote NEW MEXI	Tested Interval Lease Owner/
Recovered Remarks TEMPERATURE Est. "F, Actual 134 "F, Initial Hydrostatic Initial Closed in Closed in Initial Closed in Initial Tinal Closed in Initial Closed in	SEE PRODU Gauge No. Oegth: 2 Blanked Off No. Presided 6267 174 196 3822 196 218 4834	3645 3171 24 Hour Cla to ssures 6212 264 164 3803 273 201 4817	Gauge No. Ft. Depth: Ock Blanked Off Pre Field 6275 233 254 3824 233 254 4967	3644 13306 Ft. 24Hour Clock Yes office 6284 335 225 3825 297 225 4843	Depth: Blanked Off Pre	Hour Clock	Tool Opened (Opened Byposs] Reported Minutes ————————————————————————————————————	7 / ME A.M. D245 P.M. A.M. Computed Minutes 15 61 120	County LEA Stote NEW MEXI	Tested Interval Lease Owner/

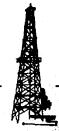
Case 6620 Exhibit 5 A



Each Horizontal time Equal to 1000 p.s.i.

and the second s	in the state of th		radika romana	
Autor Mary Ma Courses	20	21	22	23-29 10-00 10-7 001
5ún 9 14 79 1 9 14 79	Read & Stev	ens	£ C Horeis ? / 64 . 5 / 53!	heer 6.34 h h 2.26.28
OWA P STOLE	k:00 0.7		13.63	for the second s
Polsy Word 19151 Lester Allen, etal	State Att. Atory Hendrick e. Life Est Julie E. Mory Aff Clyre (3)	State, A Julial N. McClure, S	Stare .	Store Colo B State State Store Store State State State Store State State Store Store State Store
50.Rey	Sun			Squam
(3373	1/6/1/10 1/10 1/10 1/10 1/10 1/10 1/10 1			1100
\$ 5un \$-16-19 \$-3\$70	y	Morrie Price Police	,	Leia B. Goiner Willess Milus R. Anderson State
Week f 30 Lester		Reade - 28 somedon	Sametan vs 27	25
Aiston Sigle elol.	200	3/25 - 7 2-1-01 1-3/37 3 - 22 - 7	3 25 73 3 1 22 73	ARULAICSIISH MODILTO M
State Polsy Word, Vals)	19 NO Montheror 15	1.3131	L	Maryan A. Man, MI
Lester Aleton, etal	Stell Kluwhot Mary of Clure 15	State M. Homes Cate Richard State M. State M. Homes Cate Richard St. A. School St. A. School M. Gray Gray G. G	Rich (5) TC Price Sint	BOWN MCCLER MCClerk, MI Ruby Eliz. Mabile Borm. S Waller Markey
Yotes Yotes	7 7375	1/	Enserch Enserch	Moroto Amino
4 · 1 · 89 LG · 6476 15412	1 a	FL.H Diay Office Report	1	Legal (ED)
Stote	Toomy Ferenbough En	O.T. Stonton 11 cruston	Mynle Lyon, eiul, MI JH Spears (6)	JC MEROWALDEWS. Modern J. McClish, etal
was d 3!	Yotes yc. 32 HC TAC	Some Somedon	ogo picton (oynor) (oynor)	
1 1 / k	# 6476 17 75 5 20 79 30 # 6476 17 75 5 20 79 30 15 4U	don	don (1 1 1 1 1 1 1 1 2 2 1 7 2 1 7 3	
1 asin 6	Sofidon	Games of Sec.	a single training	CI heroLELUC MENOWINISTEME Sigle
bough off Meloney	Stot Ellio C. Myrspe,	A Somedor Ming O. I	5) The Mortish etalling coice	Morrin J. McClish, atal literander Bres.
Ensyrch	Elverch H.C. Poss 5-10:	DI MALIANTIC	Jup VIII	DOVAN
unu r	11-10-01 Elb Sarting)	Somedon M	0/	1701047 J.E. Ros.n
		Series Series	Charles & haplaced	PRODUCTIONS OF THE STATE OF THE
2514 7 14 Sun	intoir 5 J Serlinels	1 Yoles	Enserth -9564	10.000
Sun Ji Foliole Foliole	Mena Scilesci	murodo 3 13 83		WEITIS Lectorus
Stofe AV	936 You	PARTIE Ashton chold	AM Z	hints of dide to
Richardson Richardson	J. W. Richardson, etc.	Aille Combert Jos. A. Fost	Molino rel Rey 1	tiris Jones J.T. Wilson (S) E.H. Politison profits 14
\ \ \ \ \	AC- tortes (al-Mor 25 72 (201) 3-1-8	11-15-901 (**) Yoles 7 1-37-321 (**) 11-15-81	Yotes 12 26 60	
WHACT Norolo, Inc.	154 2	2 H	Luciue McKiley, M.1	
NCRA 11 18 19 172 172 1732 1732 1732 1732 1732 1732 1	7.55	Yoles 12 30 61	DIACOPIEMI	
Yotes Yes	8 Col Hor	8125 Yolesu zc	**	11 12
ET ST. YEARS IN	Monteith" Siere	L.C. Bivers, eros, M. K.F. Yoles Co	12 21 00 112 24 60	
Fronkie Lee	-9372 Years Mar.		Dr. C. Drole, MI U UPL Of & Keil Cornen, MI	Ven Ver : Hellef fields) Tenneco's WI Marrie & FreMs
Security Tr. Co. etal Monter th, del	Sie Nonte Vh, elol	Siere Practicipion S.	W COL COLL CONTON WI	CONST. Desyl LeSourd Mi Dougt LeSourd Mi
NCRA NRCA 50	.Union Expl. Chemic Acobe	Adobe	18:1 50 H.E. Yotas	Husky Oil Arat Birl 7. 1. 61 [fathright] 15689 Agnes E. Hibbers, eral,
Frankie Vonnie (8)	100 mg	7.9303		Agres E. Hibbers, eral.
Monteity Frontie Lee	159251	60	A.C. Droke, MI Buddy Joylor	Lignum U.S., MI
G.M.Cone 18 WE COLLEGE	1 2	Adobt (Devoitine.)	AlbyCorp.	
100 100	9200 Vonde Honnen	HILLBURN	1	
TUP	O N. Tol Mile	HILLBURN CITY UNIT	36 Antho Wissins, M.I. Tyson M. Field, S	
and \$1 le	Montrith efall	1 1 3 - Y		Mothellis field Methicles field Why Young Oil M. R. Young Oil M. R. Young Oil J. Bionzo Co. W.
	A Kom Mohe	1	Abby Corp. M R Young	(MA Young oil) MR Young Oil MR toung Oil Busic Com 3 50 62 3.1. 23 9.1. 52 4 3 63 3.1. 23 9.1. 52 3 16 60 3.1. 23 9.1. 32 3 16 60 3.1. 23 9.1. 32 1 10 70 70 70 70 70 70 70 70 70 70 70 70 70
	THE THE THE STATE OF	Al Welborn Bunice Wolker	Inthe Higgins WI Tyson My Fields	10-25-79 [H I. Brown, KI Chiefen Press
Austra Stole 9278	O High	James S	Tyson My Fields	Prior 1 21 Kurio ka Mi
Beoline Sone Devi H.E. FLOTY	A TOUR	Yotes Yotes Yotes	1 7/20	Oworetan MR 12-0001 VA Tangal
1.6501	12 20 GT Homers	Curlis Pollering M.L. et	2 22 43 48 (81Ch cia)	Pionetoliation
Frankie Manteith Mill State Setyrity In.Co. efal	OT Honders (st	Curlis Pollerson, M.I., pr. 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	MA Francestor autou MI. You's Cool State To The So & SMCOOKED TO TENES	Troung Oceany L. Singer Jam Songer State Songer Songer State Songer S
	Marksetamen	TITE DITTE	Ululy halveston	MR Youngo
S. 27. 01 (16.51) 2		M.R. Young IMR YOUNG ON	M. R. Young	EXAMINER STANDARDE TO THE
() () () () () () () () () ()	\ \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	tignum Gili R.E Doughon	M.BERQ!	LADER VALION DIVING
	Role Highester	1/4 MI 17, 4101, MI	Monin Chill H Coffee Coffee	TET CONTINUES A STORE STORE
D. 11D J.				
-9395	UP	M.R.Young	MR Yasing bil Adobe	MR YOURSON CONTROL OF THE STANDARD AS ASSET AS AS ASSET AS AS ASSET AS
-9395		M.R.Young	CASE	16 CONCENTION , 1800 STONOM SW. 15 2
-9395 THE HODER COTE HINGRESS! LOSSIE TO U	UP	M.R.Young II · I · st min. divided Wellic Field, elel	CASE	I o continue Les Son Asm St. E. W.
-9395 To grant of Houser Corp. Hilloffer of Houser Corp. Security to Cacture Trans.	DOWN State	min, divided Wellie Field, elel Adobe Adobe	W.F. G MI CASE	An Microster Apply and Carman 34. E.M. Microster March 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889.
-9395 THE SECURITY COUNTY COU	DOWN State	min; divided Hallic Field,clot	W.F. G MI CASE	An Microster Apply and Carman 34. E.M. Microster March 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889.
First of Huber Corp. Shift for 11 Security Tr. Cache Gross as U Tight for 11 Enserch	Adobe Adobe States	min, divided Wellie Field, etcl Adobe 3:12:03 Vern Broswell Lyte Lett	W.F. G MI CASE	And Contest of Contesting of C
-9395 THE SECURITY COUNTY COU	Adobe Adobe 11:12:81 Adobe	min. divided Mellic field,etal Adobe 3.2:43 3.2:63 Vern Broswell Live sell Adobe 3.6:63 33	M.F. G. A. A. CASE L. C. Coull Asobe Submit Heari	An Microster Apply and Carman 34. E.M. Microster March 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889.
-9395 Tigra, A Huber Corp. Address of the second of the	Adobe 12 1 22 8 Adobe 12 12 2 8 Adobe 12 12 2 8 Adobe 12 12 12 8 Adobe 12 12 12 18 Adobe 13 12 12 18 Adobe 14 15 15 Adobe 15 15 15 Adobe 16 15 15 Adobe 16 15 15 Adobe 17 15 15 15 15 15 15 15 15 15 15 15 15 15	Min. divided Mellic field, etal Adobe 3.2:43 Vern Broswell Lyte sen Adobe 3.6:63 33 Conference Adobe 3.6:63 33	M.F. G CASE	Ministry April 1 (100 Smanning) En Win Pier Smanning Line Smannning Line Smanning Line Smanning Line Smanning Line Smanning Line
-9395 Tigra, A Huber Corp. Address of the second of the	Adobe Adobe 12:5:61 12:81 Adobe 12:5:61 Adobe 12:	min. divided Mellic field, elel Adobe 3-24-83 Vern Broswell Lyte Sell Adobe 3-8-03 LC Shelfer Adobe 3-18-03 JE Simman, rioly, Mil	M.F. C MI CASE M.F. C MI COUNTY A COLOR SUBINITION Hearing HARV	mg Date EY E. YATES CO., INC
-9395 Topics of Huber Corp. Triple of Concerts Triple of 31 Topic of L.G. Coudle, et al. 1166	Adobe Adobe 12:5:61 12:81 Adobe 12:5:61 Adobe 12:	min. divided Mellic field, elel Adobe 3-24-83 Vern Broswell Lyte Sell Adobe 3-8-03 LC Shelfer Adobe 3-18-03 JE Simman, rioly, Mil	M.F. G MI CASE M.F. G MI COUNTY Adobe Submit Hearin HARV	mg Date EY E. YATES CO., INC Swell, New Mexico
-9395 Togran of Huber Corp. The first of the corp.	Adobe 12: 84 12: 84 12: 84 12: 84 12: 84 12: 84 13: 86 13: 86 13: 86 14: 86 15: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16:	min divided Wellie field, elel Adobe 3-24-83 Vern Broswell Lyle Bell Adobe 3-6-63 33-Adobe 3-6-63 3-Adobe Adobe Adob	M.F. G MI CASE M.F. G MI COUNTY Adobe Submit Hearin HARV	The swell, New Mexico
Tigus # 31 L.G. Covdle, et al. 1976	Adobe 12: 84 12: 84 12: 84 12: 84 12: 84 12: 84 13: 86 13: 86 13: 86 14: 86 15: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16: 86 16:	Mohe Adobe 3.2.63 Vern Broswell Lyte \$11. Adobe 3.2.63 Vern Broswell Adobe 5.6.63 33 Adobe 5.6.63 33 Adobe 5.6.63 33 Adobe 5.6.63 33 Adobe 5.6.63 35 Adobe 7.6.63 Adobe 7.6.6	M.F. G MI CASE M.F. G MI COUNTY Adobe Submit Hearin HARV	mg Date EY E. YATES CO., INC Swell, New Mexico
Tipes # Hober Corp. Tipes # Hober Corp. Tipes # Lose to U Tipes # 31 L.G. Coudle, ctal Tipes # L.G. Coudle, ctal	Adobe Adobe 12: 3: 63 1: 12: 63 1: 12: 63 1: 12: 63 1: 12: 63 1: 12: 63 1: 12: 63 1: 12: 63 1: 12: 63 1: 12: 63 1: 12: 63 1: 12: 63 1: 12: 63 1: 12: 63 1: 12: 63 1: 12: 63 1: 12: 63 1: 12: 63 1: 12: 63 1: 12: 63 1: 12: 63 1: 12: 63 1: 12: 63 1: 12: 63 1: 12: 63 1: 12: 63 1: 12: 63 1: 12: 63 1: 12: 63 1: 12: 63 1: 12: 63 1: 12: 63 1: 12: 63 1: 12: 63 1: 12: 63 1: 12: 63 1: 12: 63 1: 12: 63 1: 12: 63 1: 12: 63 1: 12: 63 1: 12: 63 1: 12: 63 1: 12: 63 1: 12: 63 1: 12: 63 1: 12: 63 1: 12: 63 1: 12: 63 1: 12: 63 1: 12: 63 1: 12: 63 1: 12: 63 1: 12: 63 1: 12: 63 1: 12: 63 1: 12: 63 1: 12: 63 1: 12: 63 1: 12: 63 1: 12: 63 1: 12: 63 1: 12: 63 1: 12: 63 1: 12: 63 1: 12: 63 1: 12: 63 1: 12: 63 1: 12: 63 1: 12: 63 1: 12: 63 1: 12: 63 1: 12: 63 1: 12: 63 1: 12: 63 1: 12: 63 1: 12: 63 1: 12: 63 1: 12: 63 1: 12: 63 1: 12: 63 1: 12: 63 1: 12: 63 1: 12: 63 1: 12: 63 1: 12: 63 1: 12: 63 1: 12: 63 1: 12: 63 1: 12: 63 1: 12: 63 1: 12: 63 1: 12: 63 1: 12: 63 1: 12: 63 1: 12: 63 1: 12: 63 1: 12: 63 1: 12: 63 1: 12: 63 1: 12: 63 1: 12: 63 1: 12: 63 1: 12: 63 1: 12: 63 1: 12: 63 1: 12: 63 1: 12: 63 1: 12: 63 1: 12: 63 1: 12: 63 1: 12: 63 1: 12: 63 1: 12: 63 1: 12: 63 1: 12: 63 1: 12: 63 1: 12: 63 1: 12: 63 1: 12: 63 1: 12: 63 1: 12: 63 1: 12: 63 1: 12: 63 1: 12: 63 1: 12: 63 1: 12: 63 1: 12: 63 1: 12: 63 1: 12: 63 1: 12: 63 1: 12: 63 1: 12: 63 1: 12: 63 1: 12: 63 1: 12: 63 1: 12: 63 1: 12: 63 1: 12: 63 1: 12: 63 1: 12: 63 1: 12: 63 1: 12: 63 1: 12: 63 1: 12: 63 1: 12: 63 1: 12: 63 1: 12: 63 1: 12: 63 1: 12: 63 1: 12: 63 1: 12: 63 1: 12: 63 1: 12: 63 1: 12: 63 1: 12: 63 1: 12: 63 1: 12: 63 1: 12: 63 1: 12: 63 1: 12: 63 1: 12: 63 1: 12: 63 1: 12: 63 1: 12: 63 1: 12: 63 1: 12: 63 1: 12: 63 1: 12: 63 1: 12: 63 1: 12: 63 1: 12: 63 1: 12: 63 1: 12: 63 1: 12: 63 1: 12: 63 1: 12: 63 1: 12: 63 1: 12: 63 1: 12: 63 1: 12: 63 1: 12: 63 1: 12: 63 1: 12: 63 1: 12: 63 1: 12: 63 1: 12: 63 1: 12: 63 1: 12: 63 1: 12: 63 1: 12: 63 1: 12: 63 1: 12: 63 1: 12: 63 1: 12: 63 1: 12: 63 1: 12: 63 1: 12: 63 1: 12: 63 1: 12: 63 1: 12: 63 1: 12: 63 1: 12: 63 1: 1	min. divided Mellic field, elo! Adobe 3-24-83 Vern Broswell Livie Sell. Adobe 3-8-63 33 (C Shelfer Adobe 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8	HARV	MACGINEST AND CONTROL OF THE STRANGE
Tigran # 31 L.G. Coudle, etal 11411 L.G. Coudle, etal 11411 L.G. Coudle and 11411 L.G.	Adobe Adobe 12: 3: 43 1: 12: 83 1: 12: 83 1: 12: 83 1: 12: 83 1: 12: 83 1: 12: 83 1: 12: 83 1: 12: 83 1: 12: 83 1: 12: 83 1: 12: 83 1: 12: 83 1: 12: 83 1: 12: 83 1: 12: 83 1: 12: 83 1: 12: 83 1: 12: 83 1: 12: 83 1: 12: 83 1: 12: 83 1: 12: 83 1: 12: 83 1: 12: 83 1: 12: 83 1: 12: 83 1: 12: 83 1: 12: 83 1: 12: 83 1: 12: 83 1: 12: 83 1: 12: 83 1: 12: 83 1: 12: 83 1: 12: 83 1: 12: 83 1: 12: 83 1: 12: 83 1: 12: 83 1: 12: 83 1: 12: 83 1: 12: 83 1: 12: 83 1: 12: 83 1: 12: 83 1: 12: 83 1: 12: 83 1: 12: 83 1: 12: 83 1: 12: 83 1: 12: 83 1: 12: 83 1: 12: 83 1: 12: 83 1: 12: 83 1: 12: 83 1: 12: 83 1: 12: 83 1: 12: 83 1: 12: 83 1: 12: 83 1: 12: 83 1: 12: 83 1: 12: 83 1: 12: 83 1: 12: 83 1: 12: 83 1: 12: 83 1: 12: 83 1: 12: 83 1: 12: 83 1: 12: 83 1: 12: 83 1: 12: 83 1: 12: 83 1: 12: 83 1: 12: 83 1: 12: 83 1: 12: 83 1: 12: 83 1: 12: 83 1: 12: 83 1: 12: 83 1: 12: 83 1: 12: 83 1: 12: 83 1: 12: 83 1: 12: 83 1: 12: 83 1: 12: 83 1: 12: 83 1: 12: 83 1: 12: 83 1: 12: 83 1: 12: 83 1: 12: 83 1: 12: 83 1: 12: 83 1: 12: 83 1: 12: 83 1: 12: 83 1: 12: 83 1: 12: 83 1: 12: 83 1: 12: 83 1: 12: 83 1: 12: 83 1: 12: 83 1: 12: 83 1: 12: 83 1: 12: 83 1: 12: 83 1: 83 1: 83 1: 83 1: 83 1: 83 1: 83 1: 83 1: 83 1: 83 1: 83 1: 83 1: 83 1: 83 1: 83 1: 83 1: 83 1: 83 1: 83 1: 83 1: 83 1: 83 1: 83 1: 83 1: 83 1: 83 1: 83 1: 83 1: 83 1: 83 1: 83 1: 83 1: 83 1: 83 1: 83 1: 83 1: 83 1: 83 1: 83 1: 83 1: 83 1: 83 1: 83 1: 83 1: 83 1: 83 1: 83 1: 83 1: 83 1: 83 1: 83 1: 83 1: 83 1: 83 1: 83 1: 83 1: 83 1: 83 1: 83 1: 83 1: 83 1: 83 1: 83 1: 83 1: 83 1: 83 1: 83 1: 83 1: 83 1: 83 1: 83 1: 83 1: 83 1: 83 1: 83 1: 83 1: 83 1: 83 1: 83 1: 83 1: 83 1: 83 1: 83 1: 83 1: 83 1: 83 1: 83 1: 83 1: 83 1: 83 1: 83 1: 83 1: 83 1: 83 1: 83 1: 83 1: 83 1: 83 1: 83 1: 83 1: 83 1: 83 1: 83 1: 83 1: 83 1: 83 1: 83 1: 83 1: 83 1: 83 1: 83 1: 83 1: 83 1: 83 1: 83 1: 83 1: 83 1: 83 1: 83 1: 83 1: 83 1: 83 1: 83 1: 83 1: 83 1: 83 1: 83 1: 83 1: 83 1: 83 1: 83 1: 83 1: 83 1: 83 1: 83 1: 83 1: 83 1: 83 1: 83 1: 83 1: 83 1: 83 1: 83 1: 83 1: 83 1: 83 1: 83 1: 83 1: 83 1: 83 1: 83 1:	min. divided Mellic field, elel Adobe 3-24-83 Vern Broswell Livie Still Adobe 3-8-63 33 (C Shelfer Adobe 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8	HERV	explication of the south of the
TITLE OF THE PROPERTY OF THE P	Adobe Adobe 12 5 63 12 13 63 12 13 63 12 13 63 12 13 63 12 13 63 12 13 63 12 13 63 13 13 63 14 15 63 14 15 63 14 15 63 14 15 63 14 15 63 14 15 63 14 15 63 14 15 63 14 15 63 14 15 63 14 15 63 14 15 63 14 15 63 14 15 63 14 15 63 14 15 63 14 15 63 14 15 63 14 15 63 14 15 63 14 15 63 14 15 63 14 15 63 14 15 63 14 15 63 14 15 63 14 15 63 14 15 63 14 15 63 14 15 63 14 15 63 14 15 63 14 15 63 14 15 63 14 15 63 14 15 63 14 15 63 14 15 63 14 15 63 14 15 63 14 15 63 14 15 63 14 15 63 14 15 63 14 15 63 14 15 63 14 15 63 14 15 63 14 15 63 14 15 63 14 15 63 14 15 63 14 15 63 14 15 63 14 15 63 14 15 63 14 15 63 14 15 63 14 15 63 14 15 63 14 15 63 15 63 16 63 16 63 16 63 16 63 16 63 16 63 16 63 16 63 16 63 16 63 16 63 16 63 16 63 16 63 16 63 16 63 16 63 16 63 16 63 16 63 16 63 16 63 16 63 16 63 16 63 16 63 16 63 16 63 16 63 16 63 16 63 16 63 16 63 16 63 16 63 16 63 16 63 16 63 16 63 16 63 16 63 16 63 16 63 16 63 16 63 16 63 16 63 16 63 16 63 16 63 16 63 16 63 16 63 16 63 16 63 16 63 16 63 16 63 16 63 16 63 16 63 16 63 16 63 16 63 16 63 16 63 16 63 16 63 16 63 16 63 16 63 16 63 16 63 16 63 16 63 16 63 16 63 16 63 16 63 16 63 16 63 16 63 16 63 16 63 16 63 16 63 16 63 16 63 16 63 16 63 16 63 16 63 16 63 16 63 16 63 16 63 16 63 16 63 16 63 16 63 16 63 16 63 16 63 16 63 16 63 16 63 16 63 16 63 16 63 16 63 16 63 16 63 16 63 16 63 16 63 16 63 16 63 16 63 16 63 16 63 16 63 16 63 16 63 16 63 16 63 16 63 16 63 16 63 16 63 16 63 16 63 16 63 16 63 16 63 16 63 16 63 16 63 16 63 16 63 16 63 16 63 16 63 16 63 16 63 16 63 16 63 16 63 16 63 16 63 16 63 16 63 16 63 16 63 16 63 16 63 16 63 16 63 16 63 16 63 16 63 16 63 16 63 16 63 16 63 16 63 16 63 16 63 16 63 16 63 16 63 16 63 16 63 16 63 16 63 16 63 16 63 16 63 16 63 16 63 16 63 16 63 16 63 16 63 16 63 16 63 16 63 16 63 16 63 16 63 16 63 16 63 16 63 16 63 16 63 16 63 16 63 16 63 16 63 16 63 16 63 16 63 16 63 16 63 16 63 16 63 16 63 16 63 16 63 16 63 16 63 16 63 16 63 16 63 16 63 16 63 16 63 16 63 16 63 16 63 16 63 16 63 16 63 16 63 16 63 16 63 16 63 16 63 16 63 16 63 16 63 16 63 16 63 16 63 1	min. divided Mellic field, elel Adobe 3-24-83 Vern Broswell Livie Still Adobe 3-8-63 33 (C Shelfer Adobe 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8-63 3-8	HERV	explication of the south of the
TIGHT TO STATE OF THE STATE OF	Adobe Adobe 12 19 63 S-24-63 12 19 63 S-24-63 12 19 63 S-24-63 13 19 64 S-24-63 14 19 65 S-24-63 15 19 65 S-24-63 16 19 65 S-24-63 17 10 10 10 10 10 10 10 10 10 10 10 10 10	min, divided Mellie field, etal Adobe 5.2: 83 Vern Browell Lyls Bell Adobe 7: 52: 83 (C. Shelfer 7: 52: 83 (C. Shelfer 7: 52: 83 I S. B. B. S. Shell 8: 83: 83 J. B. B. Shell 8: 83: 83: 83: 83: 83: 83: 83: 83: 83:	HARV CASE A County A Cobe Hearin HARV Comoun	HANGEREST AND CONTROL OF THE STRUCTURE STRUCTURE LAIST MONTE THE LAIST
Tigger of St. Coudle et al St. County of Security 1. Coudle et al St. County of Security 1. County of Security of Security 1. County 1. Coun	Adobe Adobe 12:3:43 1:12:81 Septimizers of the sep	min. divided Mellic field, etal Adobe 3:2:43 Vern Broswell Live Bell Adobe 3:6:63:33 Adobe 3:6:63:33 Adobe 3:6:63:33 Adobe 3:6:63:33 Adobe 3:6:63:33 Adobe 3:6:63:33 Adobe 1:5:6:63:33 Adobe 1:5:6:63:33 Adobe 1:5:6:63:33 Adobe 1:5:6:63:33 Adobe 1:5:6:6:7 Adobe 1:5	HARV A Community A Cobe Hearing HARV Commount Confount Let Cooper Confount Let Confount Confount	EY E. YATES CO., INC Swell, New Mexico STructure Edicity Monteith Edicit
Topin of L.G. Coudle et al Motor for the state of the sta	Adobe Adobe 12:3:43 12:3:43 12:3:43 12:3:43 12:3:43 12:3:43 12:3:43 12:3:43 12:3:43 12:3:43 12:3:43 12:3:43 12:3:43 12:3:43 12:3:43 12:3:43 12:3:43 12:3:43 12:3:43 12:3:43 12:3:43 12:3:43 12:3:43 12:3:43 12:3:43 12:3:43 12:3:43 12:3:43 12:3:43 12:3:43 12:3:43 12:3:43 12:3:43 12:3:43 12:3:43 12:3:43 12:3:43 12:3:43 12:3:43 12:3:43 12:3:43 12:3:43 12:3:43 12:3:43 12:3:43 12:3:43 12:3:43 12:3:43 12:3:43 12:3:43 12:3:43 12:3:43 12:3:43 12:3:43 12:3:43 12:3:43 12:3:43 12:3:43 12:3:43 12:3:43 12:3:43 12:3:43 12:3:43 12:3:43 12:3:43 12:3:43 12:3:43 12:3:43 12:3:43 12:3:43 12:3:43 12:3:43 12:3:43 12:3:43 12:3:43 12:3:43 12:3:43 12:3:43 12:3:43 12:3:43 12:3:43 12:3:43 12:3:43 12:3:43 12:3:43 12:3:43 12:3:43 12:3:43 12:3:43 12:3:43 12:3:43 12:3:43 12:3:43 12:3:43 12:3:43 12:3:43 12:3:43 12:3:43 12:3:43 12:3:43 12:3:43 12:3:43 12:3:43 12:3:43 12:3:43 12:3:43 12:3:43 12:3:43 12:3:43 12:3:43 12:3:43 12:3:43 12:3:43 12:3:43 12:3:43 12:3:43 12:3:43 12:3:43 12:3:43 12:3:43 12:3:43 12:3:43 12:3:43 12:3:43 12:3:43 12:3:43 12:3:43 12:3:43 12:3:43 12:3:43 12:3:43 12:3:43 12:3:43 12:3:43 12:3:43 12:3:43 12:3:43 12:3:43 12:3:43 12:3:43 12:3:43 12:3:43 12:3:43 12:3:43 12:3:43 12:3:43 12:3:43 12:3:43 12:3:43 12:3:43 12:3:43 12:3:43 12:3:43 12:3:43 12:3:43 12:3:43 12:3:43 12:3:43 12:3:43 12:3:43 12:3:43 12:3:43 12:3:43 12:3:43 12:3:43 12:3:43 12:3:43 12:3:43 12:3:43 12:3:43 12:3:43 12:3:43 12:3:43 12:3:43 12:3:43 12:3:43 12:3:43 12:3:43 12:3:43 12:3:43 12:3:43 12:3:43 12:3:43 12:3:43 12:3:43 12:3:43 12:3:43 12:3:43 12:3:43 12:3:43 12:3:43 12:3:43 12:3:43 12:3:43 12:3:43 12:3:43 12:3:43 12:3:43 12:3:43 12:3:43 12:3:43 12:3:43 12:3:43 12:3:43 12:3:43 12:3:43 12:3:43 12:3:43 12:3:43 12:3:43 12:3:43 12:3:43 12:3:43 12:3:43 12:3:43 12:3:43 12:3:43 12:3:43 12:3:43 12:3:43 12:3:43 12:3:43 12:3:43 12:3:43 12:3:43 12:3:43 12:3:43 12:3:43 12:3:43 12:3:43 12:3:43 12:3:43 12:3:43 12:3:43 12:3:43 12:3:43 12:3:43 12:3:43 12:3:43 12:3:43 12:3:43 12:3:43 12:3:43 12:3:43 12:3:43 12:3:43 12:3:43 12:3:43 12:3:43 12:3:43 12:3:43 12:3:43 12:3:43 12:3:43 12	min. divided Mellic field, etal Adobe 3:2:43 Vern Broswell Live Bell Adobe 3:6:63:33 Adobe 3:6:63:33 Adobe 3:6:63:33 Adobe 3:6:63:33 Adobe 3:6:63:33 Adobe 3:6:63:33 Adobe 1:5:6:63:33 Adobe 1:5:6:63:33 Adobe 1:5:6:63:33 Adobe 1:5:6:63:33 Adobe 1:5:6:6:7 Adobe 1:5	HARV A Community A Cobe Hearing HARV Commount Confount Let Cooper Confount Let Confount Confount	EY E. YATES CO., INC Swell, New Mexico STructure Edicity Monteith Edicit
Topin of L.G. Coudle et al Motor for the state of the sta	Adobe Adobe 12: 3: 43 1:12: 83 1:12: 83 1:12: 83 1:12: 83 1:12: 83 1:12: 83 1:12: 83 1:12: 83 1:12: 83 1:12: 83 1:12: 83 1:12: 83 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87	Mollie field, etal Adobe 3 to 43 Vern Broswell Live Bell Adobe 3 & 63 Adobe 4 & 63 Adobe 5 & 63 Adobe 7 & 63 Adobe 7 & 63 Adobe 1 & 64 Adobe 1 & 6	HARV And	EY E. YATES CO., INC Swell, New Mexico STructure Et interval: 50 ft. calling for the first for first for the f
Tigger of St. Coudle et al St. County of Security 1. Coudle et al St. County of Security 1. County of Security of Security 1. County 1. Coun	Adobe Adobe 12: 3: 43 1:12: 83 1:12: 83 1:12: 83 1:12: 83 1:12: 83 1:12: 83 1:12: 83 1:12: 83 1:12: 83 1:12: 83 1:12: 83 1:12: 83 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87 1:13: 87	min. divided Mellic field, etal Adobe 3:2:43 Vern Broswell Live Bell Adobe 3:6:63:33 Adobe 3:6:63:33 Adobe 3:6:63:33 Adobe 3:6:63:33 Adobe 3:6:63:33 Adobe 3:6:63:33 Adobe 1:5:6:63:33 Adobe 1:5:6:63:33 Adobe 1:5:6:63:33 Adobe 1:5:6:63:33 Adobe 1:5:6:6:7 Adobe 1:5	HARV And	EY E. YATES CO., INC Swell, New Mexico STructure Et interval: 50 ft. calling for the first for first for the f

HEYCO



HARVEY E. YATES COMPANY

PETROLEUM PRODUCERS

P. O. BOX 1933

SUITE 300, SECURITY MATIONAL BANK BUILDING

505/623-6601

ROSWELL, NEW MEXICO 88201

August 10, 1979

New Mexico Oil Conservation Division P. O. Box 2088 Santa Fe, New Mexico 87501

Attention: Mr. Richard Stamets

Re: Case #6620

Dear Mr. Stamets:

Enclosed are the following exhibits for your use in reviewing the above referenced case:

- Log Section for the Adobe 16 #1 well located in the SW/4 of Section 17, Township 14 South, Range 36 East.
- 2. Seismic data.
- Drilling report for the Adobe 16 #2 well showing Drill Stem test data for the Austin Zone.

We would appreciate having the Seismic Data treated as confidential material to the extent allowed under the Natural Gas Policy Act of 1978 and Division Rules.

Sincerely,

Robert H. Strand

RHS/1h

Enclosure

Page #5

ADOBE DRILLING COMPANY
ADOBE STATE "16" #2

1980' FNL and 1980 FWL, Sec. 16, T-14S, R-36E, Lea County, N. M.

7/19/79 Ran DST #4 from 13,270' to 13,360'.

Opened well for 30" preflow; had strong blow to 240 psi in 5". Opened on 3/8" choke; GTS in 2 1/2". SI and changed to 1/2 choke; press increased while changing choke from 270 psi to 360 psi; press 340 psi while on 1/2" choke; flwd 2250 MCF and stabilized during the rest of preflow period. SI for 1 hr for instant SIP. Opened for 2 hr FF; press went to 250 psi and flwd 1570 MCF for 35" and remained stable. Flwd 1670 MCF on 1/2" choke; FTP-250 psi; now on 6 hr FSIP.

7/20/79 Finished running DST #4 from 13,270' to 13,360'. On 2 hr FF stabilized @ 250 psi; flwd 1670 MCF; took 6-hr FSIP; pulled OOH; rec 1000' of fluid in drill pipe w/240' of condensate, plus 760' of condensate and gascut mud; sampler plugged w/cuttings; BHT-181° F. Pressures as follows:

	TOP BOMB	BOTTOM BOMB
IHP	6226	6427
30" IFP	398-663	553-774
60" ISIP	5689	5823
120" FFP	531-663	708-774
240" FSIP	5554	5778
FHP	6226	6427

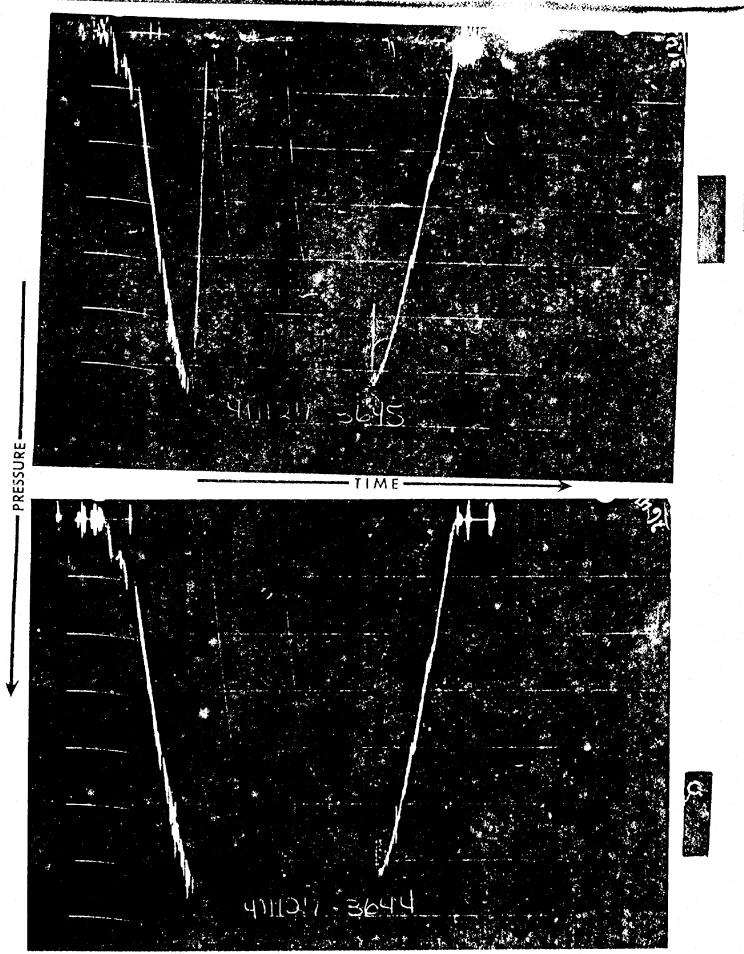
Depth-13,377'; formation-1i and sh. Lost 25 to 39 BBL of fluid in the last hr. This morning now mixing 1i-cut mud. Mud wgt-8.8#; vis-55; WL-7.2; pH-9; c1-3000.

- 7/21/79 Drlg @ 13,529'; formation-li and sh. Mud wgt-8.8#; Vis-58; FC-1/32; pH-10.5; 3.3% solids. Losing 20 to 25 BBL fluid/hr.
- 7/22/79 Drlg # 13,627'; formation 11 and sh. Mud wgt-8.8#; Vis-58; WL-6.4; FC-1/32; pH-10; 3.6% solids. Losing 25 to 35 BBL fluid/hr.
- 7/23/79 Drlg @ 13,735'; formation-sh. Mud wgt-8.8#; Vis-55; WL-7.8; FC-1/32; pH-9.5; 2.5% solids. Losing 35 to 40 BBL fluid/hr.
- 7/24/79 Drlg @ 13,846'; formation-sh. Mud wgt-8.7#; Vis-55; WL-7.4; FC-1/32; pH-9.5; 1.8% solids; C1-2000 ppm. Losing 60 to 65 BBL of fluid/hr.

FLÜ	ID SAMP	LE DA	TA	Date 3	-28-78	Ticket Number	4111	27	15.2	
Sampler Pressure	12	00 P.S.	.I.G. at Surface	Kind	an si ningina	Halliburtor	1		Twp Rn	
Recovery: Cu. Ft	. Gas <u>7.</u>	32		of Job 0	PEN HOLE TEST	District	HOBB	S	28	c
cc. Oil					. JENNINGS			and the state of t	્ર	1810
cc. Wo	iter — (D	RY)		Tester D	. ALBERTSON	Witness	BILL	OWENS	_	3/2
cc. Mu	10	_		Drilling		الموادية ما		<u>.</u>	1	Leose Name
Tot. Li	quid cc.			Contractor M	DRANCO DRILLII	IG COMPAN	<u> Y</u>	PW	-{	Nome
		. Vbl @			UIPMENT &		DAIA		4	
Gas/Oil Ratio		STIVITY	cu, ft./bbl.	Formation Test	d MIS:	sissippi			-	
	NEO!	3117177	CONTENT	Elevation Net Productive	Interval 124			Ft	- 1	1 1
Recovery Water		@ 'F.	ppm	All Depths Med		y Bushin	0	Ft.	-	
Recovery Mud		@ •F.	ppm	Total Depth			Я		-	
Recovery Mud Fi		@ •F.	ppm	Main Hole/Cos		<u>'2"</u>		Ft	•	
Mud Pit Sample		. F.	ppm	Drill Collar Ler	544	?? 1.0, 2	1/4"		-	
Mud Pit Sample I	Filtrate	@	ppm	Orill Pipe Leng	ib 1291	0' ?70.3	826"	2 764	ī	¥e∏ No
				Packer Depth(s)	1318	30' - 131	86'	Ft		3
Mud Weight	•) vis	52 sec					Ft.	1	[]
TYPE	AMOUNT		Depth Back		Surface	Bottor	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		٦	1.
Cushion			Ft. Pres. Valve) 	Choke	Chok			┧	- 31 V
Recovered	613 Fee	tof sli	ghtly gas	cut mud.	·			***	Fleid	Z
Recovered	Fee	t of				ii		5		'
11200000								3		1
Recovered	Fee	i of					<u> </u>	3		
								1.3	1	1 1
Oachierd	Eas	t at					•	<u> </u>	1	-
Recovered	Fee	t of						Volve	E	1318
Recovered		t of					•	Valve	WILD	13186
								Solve e	WILDCAT	Tested
Recovered	Fee	f of	ST DATE SHI	FFT				Valve	WILDCAT	Tested
Recovered	Fee	f of	ST DATA SHE	EET		•		Volve	WILDCAT	
Recovered	Fee	f of	ST DATA SHE	EET				Volve		Tested
Recovered	Fee	f of	ST DATA SHE	EÉT				Volve		Tested
Recovered	Fee	f of	ST DATA SHE	EET		•		Volve	WILDCAT	Tested
Recovered	SEE PRODU	of						Volve	County	Tested
Recovered Remarks	SEE PRODU	ction te	ST DATA SHE	3644	Gauge No.			Colve		Tested Interval
Recovered	SEE PRODU	645 3171	Gauge No.	3644 13306 FE	Depth:	Ft.	TIN		County	Tested Interval
Recovered Remarks TEMPERATURE	SEE PRODU	CTION TE	Gauge No. Fi. Depth:	3644 13306 Fe 24Hour Clock	Depth:	Ft. our Clock To	TIN	A.M.	County	Tested Interval
Recovered Remarks TEMPERATURE	SEE PRODU	CTION TE	Gauge No.	3644 13306 Fe 24Hour Clock	Depth:	Fr. our Clock To O	TIM ool oened 02	A.M. 45 P.M.	County	Tested Interval
Recovered Remarks TEMPERATURE Est. 4F.	SEE PRODU Gauge No. 3 Depth: 1 2 Blanked Off N	CTION TE	Gauge No. Ft. Depth: ck Blanked Off	3644 13306 F. 24Hour Clock Yes	Depth: He Blanked Off	Ft. Our Clock To Or Or	TIN col cened 02 cened	A.M. 45 P.M.	County	Tested Interval ADOBE
Recovered Remarks TEMPERATURE Est. 4F.	SEE PRODU Gauge No. 3 Depth: 1 2 Blanked Off N	645 3171 4 Hour Clo	Gauge No. Ft. Depth: ck Blanked Off Pre	3644 13306 se 24Hour Clock Yes	Depth: History Blanked Off Pressures	Fr. Dur Clock To Or Or By	TIN col cened 02 cened cpass 10	45 P.M. A.M. 01 P.M.	County	Tested Interval
Recovered Remarks TEMPERATURE Est. 4F. Actual 184 *F.	SEE PRODU Gauge No. 3 Depth: 1 2 Blanked Off N Pres	645 3171 4 Hour Clo	Gauge No. Ft. Depth; ck Blanked Off Pre Field	3644 13306 Fr. 24Hour Clock Yes Passures Office	Depth: History Blanked Off Pressures	Ft. Dur Clock To Or Or By	poss 10	A.M. 45 P.M. A.M. 01 P.M. Computed	County	Tested Interval ADOBE
Recovered Remarks TEMPERATURE Est. *F. Actual 184 *F.	Gauge No. 3 Depth: 1 2 Blanked Off N Pres Field 6267	645 3171 4 Hour Cloo	Gauge No. Depth: ck Blanked Off Pre Field 6275	3644 13306 Ft. 24Hour Clock Yes PSSUres Office 6284	Depth: History Blanked Off Pressures	Ft. Dur Clock To Or Or By	TIN col cened 02 cened cpass 10	45 P.M. A.M. 01 P.M.	COUNTY LEA	Tested Interval Lease
Recovered Remarks TEMPERATURE Est. *F. Actual 184 *F.	Gauge No. 3 Depth: 1 2 Blanked Off N Pres Field 6267 174	645 3171 4 Hour Cloo	Gauge No. Depth: ck Blanked Off Pre Field 6275 233	3644 13306 Ft. 24Hour Clock Yes Office 6284 335	Depth: History Blanked Off Pressures	Ft. Dur Clock To Or Or By	ool opened 02 opened opposs 10 eported Minutes	A.M. A.M. A.M. D] P.M. Computed Minutes	County	Tested Interval Lease
Recovered Remarks TEMPERATURE Est. *F. Actual 184 *F. Initial Hydrostatic Remarks	Gauge No. 3 Depth: 1 2 Blanked Off N Pres Field 6267 174 196	645 3171 4 Hour Clo 0 sures 6212 264 164	Gauge No. Depth: ck Blanked Off Pre Field 6275 233 254	3644 13306 re. 24Hour Clock Yes ssures Office 6284 335 225	Depth: History Blanked Off Pressures	Ft. Dur Clock To Or Or By	post 10 eported Minutes 15	A.M. 45 P.M. A.M. 01 P.M. Computed Minutes 15	County LEA Store	Tested Interval Lease Owner/
Recovered Remarks TEMPERATURE Est. *F. Actual 184 *F. Initial Hydrostatic Initial Final Closed in	SEE PRODU Gauge No. 3 Depth: 1 2 Blanked Off N Pres Field 6267 174 196 3822	645 3171 4 Hour Clo 0 sures 6212 264 164 3803	Gauge No. Fi. Depth: ck Blanked Off Pro Field 6275 233 254 3824	3644 13306 pt. 24Hour Clock Yes SSUres 0ffice 6284 335 225 3825	Depth: History Blanked Off Pressures	Ft. Dur Clock To Or Or By	ool opened 02 opened opposs 10 eported Minutes	A.M. A.M. A.M. D] P.M. Computed Minutes	County LEA Store	Tested Interval Lease Owner/
Recovered Remarks TEMPERATURE Est. *F. Actual 184 *F. Initial Hydrostatic Final Closed in	Gauge No. 3 Depth: 1 2 Blanked Off N Pres Field 6267 174 196 3822 196	645 3171 4 Hour Clo 0 sures 6212 264 164 3803 273	Gauge No. Fi. Depth: ck Blanked Off Pre Field 6275 233 254 3824 233	3644 13306 Ft. 24Hour Clock Yes SSUres Office 6284 335 225 3825 297	Depth: History Blanked Off Pressures	Ft. Dur Clock To Or Or By	pool pened 02 pened poss 10 eported Minutes 15 60	A.M. 45 P.M. A.M. 01 P.M. Computed Minutes 15 61	COUNTY LEA STOR NEW	Tested Interval Lease Owner/
Recovered Remarks TEMPERATURE Est. *F. Actual 184 *F. Initial Hydrostatic S Flow Initial Closed in Initial Final Closed in	Gauge No. 3 Depth: 1 Blanked Off N Pres Field 6267 174 196 3822 196 218	645 3171 4 Hour Clo 0 sures 6212 264 164 3803 273 201	Gauge No. Fi. Depth: ck Blanked Off Pre Field 6275 233 254 3824 233 254	3644 13306 Fr. 24Hour Clock Yes SESURES 6284 335 225 3825 297 225	Depth: History Blanked Off Pressures	Ft. Dur Clock To Or Or By	pool pened 02 peried poss 10 eported Minutes 15 60	A.M. 45 P.M. A.M. 01 P.M. Computed Minutes 15 61 120	COUNTY LEA STOR NEW	Tested Interval Lease Owner/
Recovered Remarks TEMPERATURE Est. *F. Actual 184 *F. Initial Hydrostatic Initial Final Closed in Initial Initial Final Closed in Initial Final Closed Ini	Gauge No. 3 Depth: 1 2 Blanked Off N Pres Field 6267 174 196 3822 196	645 3171 4 Hour Clo 0 sures 6212 264 164 3803 273	Gauge No. Fi. Depth: ck Blanked Off Pre Field 6275 233 254 3824 233	3644 13306 Ft. 24Hour Clock Yes SSUres Office 6284 335 225 3825 297	Depth: History Blanked Off Pressures	Ft. Dur Clock To Or Or By	pool pened 02 pened poss 10 eported Minutes 15 60	A.M. 45 P.M. A.M. 01 P.M. Computed Minutes 15 61	COUNTY LEA STOR NEW	Tested Interval Lease Owner/
Recovered Remarks TEMPERATURE Est. *F. Actual 184 *F. Initial Hydrostatic Initial Final Closed in Initial Final Closed Initial	Gauge No. 3 Depth: 1 Blanked Off N Pres Field 6267 174 196 3822 196 218	645 3171 4 Hour Clo 0 sures 6212 264 164 3803 273 201	Gauge No. Fi. Depth: ck Blanked Off Pre Field 6275 233 254 3824 233 254	3644 13306 Fr. 24Hour Clock Yes SESURES 6284 335 225 3825 297 225	Depth: History Blanked Off Pressures	Ft. Dur Clock To Or Or By	pool pened 02 peried poss 10 eported Minutes 15 60	A.M. 45 P.M. A.M. 01 P.M. Computed Minutes 15 61 120	County LEA Store	Tested Interval Lease Owner/
Remarks TEMPERATURE Est. *F. Actual 184 *F. Initial Hydrostatic Final Closed in Initial Final Final Final	Gauge No. 3 Depth: 1 Blanked Off N Pres Field 6267 174 196 3822 196 218	645 3171 4 Hour Clo 0 sures 6212 264 164 3803 273 201	Gauge No. Fi. Depth: ck Blanked Off Pre Field 6275 233 254 3824 233 254	3644 13306 Fr. 24Hour Clock Yes SESURES 6284 335 225 3825 297 225	Depth: History Blanked Off Pressures	Ft. Dur Clock To Or Or By	pool pened 02 peried poss 10 eported Minutes 15 60	A.M. 45 P.M. A.M. 01 P.M. Computed Minutes 15 61 120	COUNTY LEA STOR NEW	Tested Interval Lease Owner/
Recovered Remarks TEMPERATURE Est. *F. Actual 184 *F. Initial Hydrostatic Initial Closed in Initial Closed in Initial Final Closed in Initial Final Closed in Initial Initial Final Closed in Initial Ini	Gauge No. 3 Depth: 1 Blanked Off N Pres Field 6267 174 196 3822 196 218	645 3171 4 Hour Clo 0 sures 6212 264 164 3803 273 201	Fi. Depth: ck Blanked Off Pre Field 6275 233 254 3824 233 254 4967	3644 13306 Fr. 24Hour Clock Yes SESURES 6284 335 225 3825 297 225	Depth: History Blanked Off Pressures	Ft. Dur Clock To Or Or By	pool pened 02 peried poss 10 eported Minutes 15 60	A.M. 45 P.M. A.M. 01 P.M. Computed Minutes 15 61 120	COUNTY LEA STOR NEW	Tested Interval Lease Owner/

FORMATION TEST DATA

Case 6620 Exhibits A



Each Horizontal Line Equal to 1000 p.s.i.

ADOBE DRILLING COMPANY ADOBE STATE "16" #2

1980' FNL and 1980 FWL, Sec. 16, T-14S, R-36E, Lea County, N. M.

7/19/79 Ran DST #4 from 13,270' to 13,360'.

Opened well for 30" preflow; had strong blow to 240 psi in 5". Opened on 3/8" choke; GTS in 2 1/2". SI and changed to 1/2 choke; press increased while changing choke from 270 psi to 360 psi; press 340 psi while on 1/2" choke; flwd 2250 MCF and stabilized during the opened for 2 hr FF; press went to 250 psi and flwd 1/2" choke; flwd remained stable. Flwd 1670 MCF on 1/2" choke; FTP-250 psi; now on 6 hr FSIP.

7/20/79

Finished running DST #4 from 13,270' to 13,360'. On 2 hr FF stabilized @ 250 psi; flwd 1670 MCF; took 6-hr FSIP; pulled OOH; rec 1000' of fluid in drill pipe cut mud; sampler plugged w/cuttings; BHT-181° F.

Tin	TOP BOMB	BOTTOM BOMB
IHP 30" IFP 60" ISIP 120" FFP 240" FSIP FHP	6226 398-663 5689 531-663 5554 6226	6427 553-774 5823 708-774 5778 6427

Depth-13,377'; formation-1i and sh. Lost 25 to 39 BBL of fluid in the last hr. This morning now mixing 1icut mud. Mud wgt-8.8#; vis-55; WL-7.2; pH-9; c1-3000.

- 7/21/79 Drlg @ 13,529'; formation-li and sh. Mud wgt-8.8#; Vis-fluid/hr.

 7/22/79 Drlg # 12 cont
- 7/22/79 Drlg # 13,627'; formation 11 and sh. Mud wgt-8.8#; Vis-58; WL-6.4; FC-1/32; pH-10; 3.6% solids. Losing 25 to 35 BBL fluid/hr.
- 7/23/79 Drlg @ 13,735'; formation-sh. Mud wgt-8.8#; Vis-55; WL-7.8; FC-1/32; pH-9.5; 2.5% solids. Losing 35 to 40 BBL
- 7/24/79 Drlg @ 13,846'; formation-sh. Mud wgt-8.7#; Vis-55; WL-7.4; FC-1/32; pH-9.5; 1.8% solids; Cl-2000 ppm. Losing 60 to 65 BBL of fluid/hr.

ADOBE DRILLING COMPANY ADOBE STATE "16" #2

1980' FNL and 1980 FWL, Sec. 16, T-14S, R-36E, Lea County, N. M.

7/19/79 Ran DST #4 from 13,270' to 13,360'.

Opened well for 30" preflow; had strong blow to 240 psi in 5". Opened on 3/8" choke; GTS in 2 1/2". SI and changed to 1/2 choke; press increased while changing choke from 270 psi to 360 psi; press 340 psi while on 1/2" choke; flwd 2250 MCF and stabilized during the rest of preflow period. SI for 1 hr for instant SIP. Opened for 2 hr FF; press went to 250 psi and flwd 1570 MCF for 35" and remained stable. Flwd 1670 MCF on 1/2" choke; FTP-250 psi; now on 6 hr FSIP.

7/20/79 Finished running DST #4 from 13,270' to 13,360'. On 2 hr FF stabilized @ 250 psi; flwd 1670 MCF; took 6-hr FSIP; pulled 00H; rec 1000' of fluid in drill pipe w/240' of condensate, plus 760' of condensate and gascut mud; sampler plugged w/cuttings; BHT-181° F. Pressures as follows:

	TOP BOMB	BOTTOM BOMB
IHP	6226	6427
30" IFP	398-663	553-774
60" ISIP	5689	5823
120" FFP	531-663	708-774
240" FSIP	5554	5778
FHP	6226	6427

Depth-13,377'; formation-11 and sh. Lost 25 to 39 BBL of fluid in the last hr. This morning now mixing licut mud. Mud wgt-8.8#; vis-55; WL-7.2; pH-9; c1-3000.

- 7/21/79 Drlg @ 13,529'; formation-li and sh. Mud wgt-8.8#; Vis-58; FC-1/32; pH-10.5; 3.3% solids. Losing 20 to 25 BBL fluid/hr.
- 7/22/79 Drlg # 13,627'; formation 11 and sh. Mud wgt-8.8#; Vis-58; WL-6.4; FC-1/32; pH-10; 3.6% solids. Losing 25 to 35 BBL fluid/hr.
- 7/23/79 Drlg @ 13,735'; formation-sh. Mud wgt-8.8#; Vis-55; WL-7.8; FC-1/32; pH-9.5; 2.5% solids. Losing 35 to 40 BBL fluid/hr.
- 7/24/79 Drlg @ 13,846'; formation-sh. Mud wgt-8.7#; Vis-55; WL-7.4; FC-1/32; pH-9.5; 1.8% colids; C1-2000 ppm. Losing 60 to 65 BBL of fluid/hr.

HEYCO

The second secon

PETROLEUM PRODUCERS



HARVEY E. YATES COMPANY

P. O. BOX 1933

SUITE 300, SECURITY NATIONAL BANK BUILDING

505/623-6601

ROSWELL, NEW MEXICO 88201

August AUG 2 3 1979

OIL CONSERVATION DIVISION SANTA FE

Oil Conservation Division Post Office Box 2088 Santa Fe, New Mexico 87501

Attention: Richard Stamets

Re: Austin-Monteith #1 N.G.P.A. Determination Case #6620

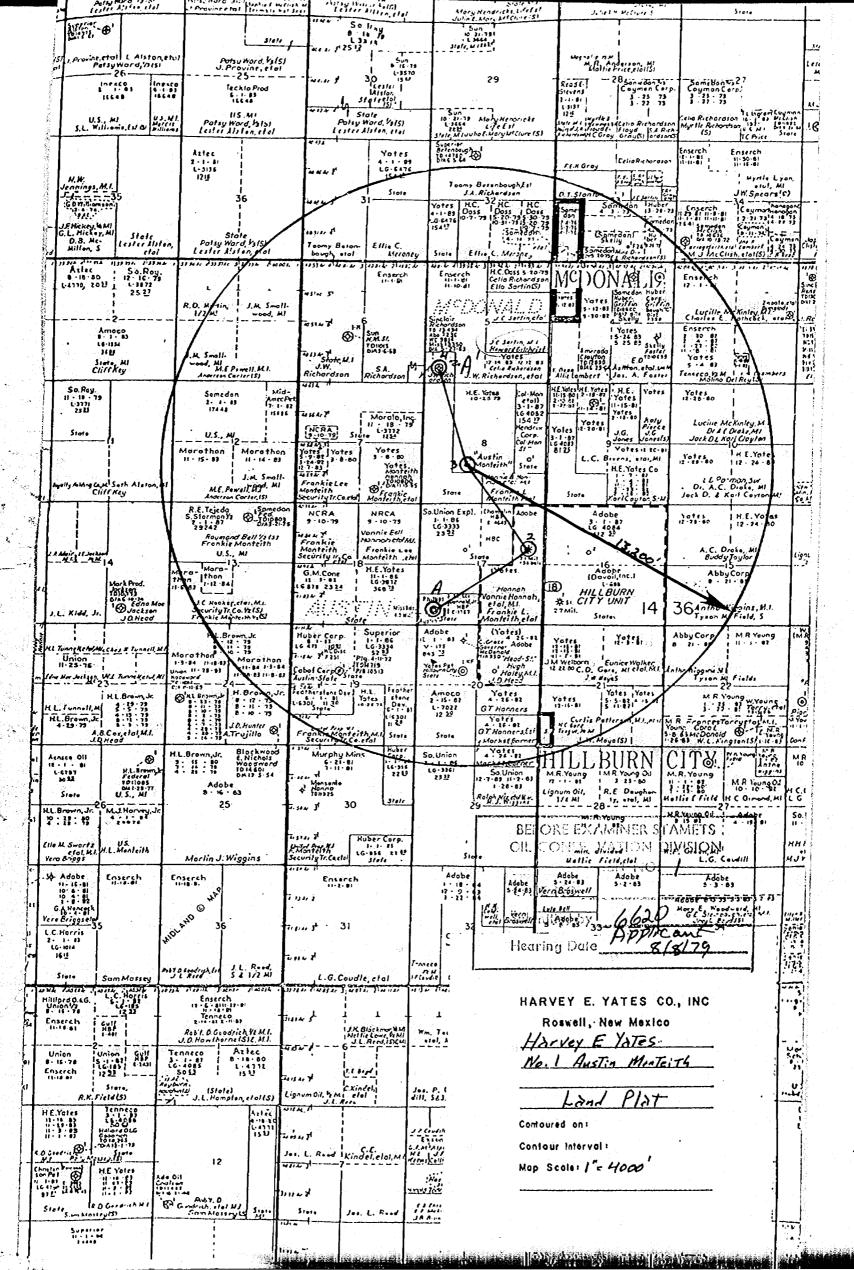
Dear Mr. Stamets:

Enclosed are three copies of the drillstem test from 13,186'-13,310' under the Adobe State 16 #1 well located in the SW/4 of Section 17, Township 14 South, Range 36 East, N.M.P.M., to be filed in the above referenced case as Exhibit 5A. The log section from Adobe 16 #1 and the seismic data are being forwarded from our Midland office.

If you desire further information, please let us know.

Robert H. Strand

RHS/sj Enclosures



ð.

Sun_	20 Reade-5	evers 1		L C. Horris	?3	24
2 16 72 1 354B 1 AU 7	7 (8:1) L-10	17		7 : 64 Lű (53)	1.77	\$ M. \$0
Store Putau Word (SIS)	State A Mory Hendricks, Life	r., 1	Siore, MI	15 (5		Squired to Acces
(inter diten, etal	Julia F. Mary Mª Churet	5) John M. M.	:5164.5	Siere	Sione Lete B	Sister Boom is the
5 0. R eq 6 19 - 79 C 33 73	10 20 751 1 1 2444 3141, 11 1215					Saunim
Sun 9:16:19		Manufa nie			11010 Coiner	1011
1 13570	20	Milatrie Pole			Leis B. Gainer Sugar.	Stole
Lester Wiston	ayer	Sievens	onedon in Someb	0000 27	56	25-
1141 (Stole	355-7-7	10.002	3.25.73		M.J. McStick	Mabilla M. M.R. Anden
Policy Word, 4515) Lester Alston, etc)	Why Menor tu	into me stande (ce)	Pichordson Myrile Retro yd S.A.Rich oyli) ordsonol (5)	rason is 13 at Wellich	18 WINCHAN MICH	MAN J. JON, MI . MAN BULL Elis M
902	State A Loudio E. Mory of Clure	- Vehing McGray 61	oysi present (5)	TCPrice Store	J.C. MILOWIPS	Boum, S well
Yotes 4 · 1 · 99 LG: 6476	JAN 9375	AM FENGION Y	Enserch	Enserch (1:-30-8) (1:-16-8)	, ,	Maralo 1
MAN T 154 12	Toomy foundoughed		医四二	Hyrlie Lyan	1 !	1. 6530
1 Stole 31	JA Richardson	O.T Stonton	1 2:1	JW. Spears (S)	Howin J. Mc Lish,	D(41.
	(otes yC. RC. A) -1.89	Somed Some		Courons oson	77 - °°	36
125111 t #	5412 36/1937	Carles	1 123 11 H.202	Coursell 2	. 1	
Toomy Boil Ellie C bough oil Meloney	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	(1) Asomoorking	77.	to land Coymon	Clan elotato C Mixonnis	EM State
11374 14 44 1 1111 1 1112 1 2	and this is a speed about	A TO SERVICE OF WATER TO	4 1052-4 4 15 17	was in factions 3	ine care tane	ALEXANDER BY
Ensarch Iti ian	11-10-01 Elp Sortino		\$ S En 11/6h	b/ UP I	* DOWN	
Tulliu 57	SCOVA AL	1071 York 1000	2000 /	And Inputs for to	DI3047 J.E. Robin	
6 8	n loir 5 decline		Clarie	Frances As To	Robinson 2 1 6014	real .
Ø. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3.	All Jedina	Y011	! 1 3 2 %	7367	(1.353r 1373)3	UTHON
Tally Shorte A Dispose (A)	Merch Citcher	tours.		the state of the s	WE 1815 California California	1000
Richardson Richards	Colo Richards	o Mr. Dann lous 23 44 Ashie	A Forest Isnaco to	4 Til domen	(1113) J. Bides etal (1113) J. J. Simmins etal Hers Jones (J.T. Wilson	n (S) E.H. Pollerson Me till
W64 .		HENDER VOICE	Moha	FalRey ()	13.1. Wilsei	n.(S) E.H. Pollerson 100/01/1
Assurable Assurable	3:1:4 16 401		1116			
NORA III	154		Lucine	McMaley M.I		
NCRA 3:00.79 3:00:0 252	8 Col Ho	Jones	Venestes Jock De.	CODIE MI KOL CIOYINI		15
Yofrs Yotes Yofes 5-9-80 3-80 Yofes Yofes	Austin of Store	L.C. Birens.		1 H E Yoles	•	
La marie // Manaturth M/	9372 Vonned Non	THE STATE OF THE S	"COUNTY	110000 514		
Security Tr. Cord Monfeith of	Stor Froming L.	Sione Forte		. Droke, MI Vis	Mother Fields	Tennecole M Morres I Viel Dougl Lesbers M I
NCRA NACA SAU	ron Expl. (he Adobe	Adobe	101/10	H.E. Yolas	1	
Vonnie (el)	100 100 100 100 100 100 100 100 100 100	1 1 11 11 11 11	3 /	12 - 24 - 80	HUIRU OIL	Agres E. Hibbers, era
Montail Family	9251	-9303	A.C.C	Proto, MI	_ i	
Security of Ca Montath end	177		X	15	ил! и.и. 14 г. – 14 г. – 14	1
G.M.Cong Bir Tolk	200 "phonon"	10 Marining	_ / ^*°	y Corp. 21 - 85		
	and the ronnen	HILLBURN CITY UNIT	7 364	w		
	Monteith efol	- 9233	JOS TOP	Wignins, H.I. K. Field, S	Holks Eliz Fish	Matte (la fall
Huber Corp Superior Ado	(Yoles)	The St.	AbbyCorp.	MR Young (MA	N Young Oil) MR.Young O	Dit M R Yeung Dil Rionzo C
	13 M. 00.20 M. 20-50	Al Welsonn Drice W			3 65 3 61 9 17 18 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	120223
Cost Cor Dini 9278	1640 0 High	IL IL 60 C.O. Core. MI e	lol.MI lathe nigging y	F1-14.	JH. Smoon	
Harrist Marian Come Brother .	SO I Yolu	21 Yoles	Yores 2	2-9/20	HT. 23-	AUTOLONAM 24
3.910	GT Horners	Ye 137	1. 35		Goriona 3. 7. 18	
[[[]] [] [] [] [] [] [] [] [1 2 11 2	Cortis Pollerson	MILE WIN X FrancesT	neruplated 1 19 Your	P. Dorothy L.	
Crankle Manteith M. Siere 5	Markstarmer	J. W. Moyo (5)	Young Core? 5-8 & McDoneid 1-26-63 W. L. Fin		(15, (16) 1 { -180 m.) /41 (15, (16) 1 { Soldin, J	The second
. 6 25 91 125 12 12 1	. of Works Contr	${ m HILLBUR}$	NICIT&I	Anthe 10	Yeung (1)	Arlee Arlee littlee 1
[50.U280 2 50.U280	M.R. Young IMR. Young	0 11 1 12	[~,,,,,,]		ि वर्षा है वर्षा वर्षा
	Roll Nike Tolky	Lignum Oil, R.E. Do. 1/4 MI 17, etcl.	MI Hollie F field	MR ToungOl 4 C.O	Control State	
-9395	JP"	M.R.Young	MR Yeung Oil	'- ABEFORE EX	CAMINER STA	FUE 12, -52
Lara & Huber Corp.	/DOWN	11 - 1 - 12		C10 00 110	L & Condillist	
Pristrick Land	Stote	min, divided	W.F. G	HAN	(Mail No.	A Cheller by
nite i	· · · · · · · · · · · · · · · · · · ·	Mallie Field, elal		ON END	39 ns 662	LG Condition 1
Enterch (1/2, p)	Adobe Adobe 5 24 83 V	Adobe Adobe	3 1		1	1 tom
True	3 - 22 - 64	(p) a e //	At H	Submitted b	y Applic	ant.
nim + · 31	32 Fell Grosmell	Adobe 1		Hearing Do	ite 88	/79
	Chesia Bress	(CSheller Agebe	,	riculing De		
Tink Y	J.B. B. en.	16 83 JESIMMAN	,	HARVEY	E. YATES CO	O., INC
L.G. Coudle, elol Irant	l'Auto : l'y	M. Bell. HI LG Coveril.	3 10	Roswe	II. New Mexico) · · · · · · · · · · · · · · · · · · ·
Company of the party of the same of the sa	नाम ज्ञापना जनक र्यहर	(4, 110 24 11 31 47 11 17 17 17	12 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2		in MonTei	
		Mylech 1 - 14 - 81		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	Tructure	· · · · · · · · · · · · · · · · · · ·
Proxis =		Den Field (S)	1			
JJK Bischmo Wild Hm. To profile Love Bill Hm. To JL Bred INCH. old.	MI 5 1.3 INTERIOR	Mallie field, etal	torice		1.+ 11 M	
	Hylich	Hytech Hytech			bit No. & I	<u>- </u>
Targar y (r.t. arget)	1 5:X:X			Contoured	n: Top of AKSTI	in my
Lignum Oil, Trans elal dill, S&3		G.Brigos, stal, HI Jas. P. Caudill	J.P.	Contour Int	ervol: 50 ft.	\$ 18
WILL!	Hyren Hyren LA	V. Hulter				e die
2000		THE POPULATION OF THE POPULATI		mup actit	1'= 4000 Ft.	
Joe L. Road IV. C.E. C. MINING	H. 1. 2000 100 100	Sin Carried Company	101	A.LATTU	<u> </u>	51y 31, 1979
Jos. L. Road Kindel, elol, M. Metrykellin	11 8 ce penterial get	TO SELLING THE COL	<u> </u>	_ remiter		
1 1 32.14	Compression 12 (388) 16 (2)	4. ((1) (6)	5 I			

HARVEY E. YATES

AUSTIN MONTEITH NO. 1

Located Unit N, Section 8 Township 14 South, Range 36 East Lea County, New Mexico

RESERVOIR PRESSURE COMPARISON

PHILLIPS PETR. CO., AUSTIN COM. NO. 1M SECTION 17-T-14S-R36E LEA COUNTY, NEW MEXICO

- 1. Original Reservoir Pressure
 - Total Depth 13,305
 - Depth of Packers-Top (13,191'), Bottom (13,195') Closed in Reservoir Pressure 5315 psi
- Production History
 - June 3, 1979, well had produced 4,145,030 MCF Gas and 58,684 Bbls. Condensate.
- Present Bottom Hole Pressure

1142 psi

Production apparently has ceased.

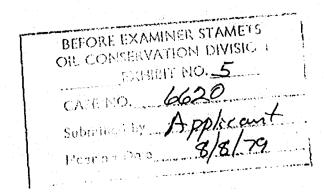
HARVEY E. YATES

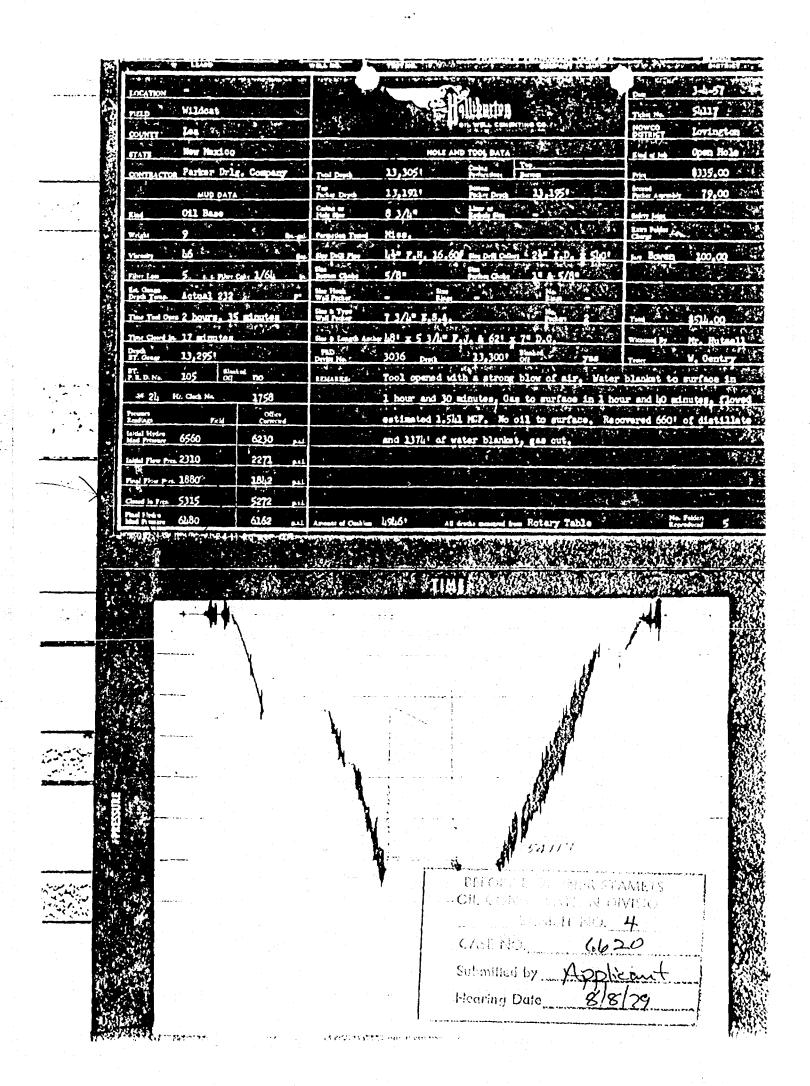
AUSTIN MONTEITH NO. 1

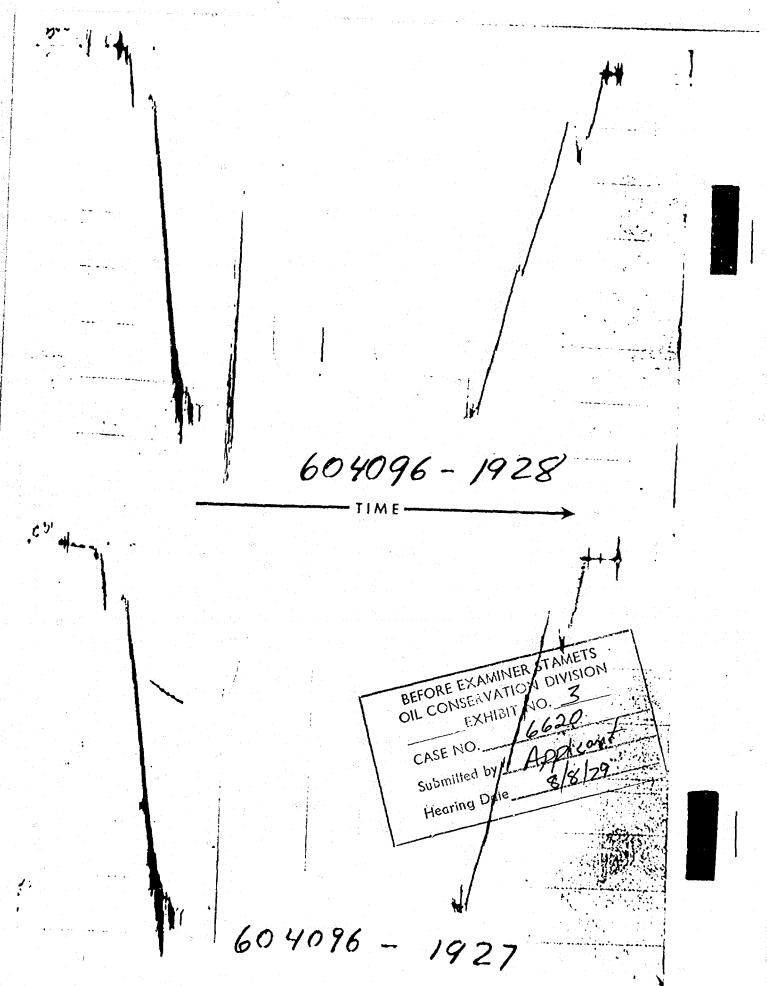
Located Unit N, Section 8
Township 14 South, Range 36 East Lea County, New Mexico

- 1. Original Reservoir Pressure, June 3, 1979
 - Total depth 13,400

 - Depth of Packer Top (13,227'), Bottom (13,232') Closed in Reservoir pressure 5737 psi. Initial, 5692 psi. Final.
- Bottom Hole Pressure Survey, August 5, 1979
 - a. 13,000' 5,760 psi
- Production History
 - a. Well has not been produced.







Each Horizontal Line Equal to 1000 p.s.i.

, ,,,	10 3AMP			Dote 6	-3-79	Number	604	096	
Sampler Pressure		.P.S.1.		Kind		Hollibur	ton		Two Ro
Recovery: Cu. Ft	. Gos 2.5			of Job 0	IPEN HOLE	District	НОВ	BS	200
cc. Oil	50_				IR. FLETCHE				ě
cc. Wo				Tester M	IR. JENNING:	S Witness	MR.	HARDIS	
cc. Mu				Drilling		and the second			1
Tot, Li	lquid cc.			Contractor M	ORANCO DRIL	LING CO.	RIG #7	IC	_ ထ
rovity		API @	•F,	ΕQ	UIPMENT	& HOLE	DATA	\	
os/Oil Ratio			cu. ft./bbl.	Formation Teste	:d	Mississi	opi		
		STIVITY C	HLORIDE	Elevation		3965.91	Gl 39	80.9'KB	
		. с	ONTENT	Net Productive	Interval	1651	<u> </u>		F1. 1
ecovery Water		@ •F	ppm	All Deaths Mea	sured From	Kelly R	shina	······································	- L .
ecovery Mud	to the second second	е • F. —	ppm	Total Depth		13,400'	(3)(1)(4		- 10 m
lecovery Mud Fi	livote	о • ғ			ing Size	7 7/8"			ri. p
Aud Pit Sample		ē	ppm		ngth	585' I.D		E 11	
Aud Pit Sample		₽ •F			ih 5310'-				
		<u> </u>							
Aud Weight	0	.6 vis	AD 500	Depth Tester Ve			13.636		řt.
	1716 . 1406	.0				13.191'			ഥ
Ushion 2000	AMOUNT		Depth Bock Pres. Valve		Surface	FLOOR BOI			
EVVV		• • • • • • • • • • • • • • • • • • • •			Choke MAN	FOLD C	oke .75	<u> </u>	
	ED DRILL P			OGEN					>2
Recovered 5	18 F**	o Disti	late						2 2 2 X
		ا دشفات روزورو	eru ta zili						9
ecovered 2	000 Fee	of Gas Cu	ut mud						3
ecovered	Feet	l ol			· · · · · · · · · · · · · · · · · · ·				NORTH
ecovered	Feet	of							우
								• •	
							 		, 2
Recovered	Feet	ol			•		eri Vi		LOVI
Recovered		rof			•				LOVING
	Feet					· .			LOVINGTO
	Feet				•	· .			LOVINGTON
	Feet					· .			LOVINGTON
	Feet					· .			LOVINGTON
	Feet					· .			LOVINGTON
	Feet					· .			
	Feet					· .			LOVINGTON com
	Feet					· .			
	Feet					· .			County
	Feet E_PRODUCTIO	ON TEST DA	ATA SHEET.			· .			
	Feet E PRODUCTIO	ON TEST DA	Gauge No.	1927	Gauge No.			IME	County LE
emorks SE	Feet E PRODUCTIO	ON TEST DA	Gauge No.	1927 13,396'н.	Gauge No.	FI.			County LEA
emorks SE	Feet E_PRODUCTIO	0N TEST DA 928 3.212' fr	Gauge No.	1927 13,396'rı, 24tour Clock	Gauge No.		Tool	A. A	County LEA
emorks SE	Feet E PRODUCTIO	0N TEST DA 928 3.212' fr	Gauge No.	1927 13,396'н.	Gauge No.	FI.	Tool Opened	A.A 7:43 P.A	County LEA
TEMPERATURE	Feet E_PRODUCTIO	0N TEST DA 928 3.212' fr	Gauge No.	1927 13,396'rı, 24tour Clock	Gauge No. Depth Blanked Off	Hour Clock	Tool Opened Opened	7:43 P.A A.A	County LEA
TEMPERATURE	Feet E_PRODUCTIO	DN JEST DA 928 3.212' ft 1 Hour Clock	Gauge No. Oepth:	1927 13,396'rı, 24tour Clock	Gauge No.	Hour Clock	Tool Opened Opened Bypass	A.A 7:43 P.A A.A 5:12 P.A	County LEA
TEMPERATURE	Gouge No. 19 Depth: 13 Blanked OffNC	DN JEST DA 928 3.212' ft 1 Hour Clock	Gauge No. Oepth:	1927 13.396'r. 24tour Clock YES	Gauge No. Depth Blanked Off	Hour Clock	Tool Opened Opened	7:43 P.A A.A	County LEA
TEMPERATURE St. 200+ 'F. Ctuol 'F.	Gouge No. 19 Cepth: 13 Blanked OffNO Press	ON JEST DA 3,212' FI 1 Hour Clock)	Gauge No. Oepth: Blanked Off Pre Field	1927 13,396 Fr. 24 four Clock YES	Gauge No. Depth: Blanked Off Pressi	Hour Clock	Tool Opened Opened Bypass	A.A 7:43 P.A A.A 5:12 P.A	County LEA
TEMPERATURE St. 200+ 'F. Ctuol 'F.	Gouge No. 19 Oepth: 13 Blanked OffNC Press Field 6365	ON TEST DA 3.212' FI 1 Hour Clock Office 6367.7	Gauge No. Oepth: Blanked Off Pre Field 6538	1927 13,396 Fr. 24 four Clock YES sources Office 6534.2	Gauge No. Depth: Blanked Off Pressi	Hour Clock	Tool Opened Opened Bypass Reported	A.A 7:43 P.A A.A 5:12 P.A Compute	County LEA
TEMPERATURE 11: 200+ 'F. ctual 'F.	Gouge No. 19 Cepth: 13 Blanked OffNC Press Field 6365 2483	0N JEST DA 328 3.2]2' fi Hour Clock 0111ce 6367.7 2492.0	Gauge No. Oepth: Blanked Off Pre Field 6538 2571	1927 13,396 Fr. 24 four Clock YES sources 017 fice 6534.2 2573.7	Gauge No. Depth: Blanked Off Pressi	Hour Clock	Tool Opened Opened Bypass Reported Minutes	7:43 P.A A.A 5:12 P.A Computer	County LEA
TEMPERATURE 11: 200+ 'F. ctual 'F.	Gouge No. 19 Oepth: 13 Press Field 6365 2483 1394	ON TEST DA 3.212' FI 1 Hour Clock Office 6367.7	Gauge No. Oepth: Blanked Off Pre Field 6538 2571 1393	1927 13,396 Fr. 24tour Clock YES sources 6534,2 2573,7 1402,7	Gauge No. Oepth Blanked Off Presss Field	Hour Clock	Tool Opened Opened Bypass Reported Minutes	7:43 P.A A.A 5:12 P.A Computer Minutes	County LEA State
TEMPERATURE It 200+ 'F. Ctual 'F. Itial Hydroetatic Flow Initial Final Closed in	Gouge No. 19 Depth: 13 Blanked OffNO Press Field 6365 2483 1394 5737	0N JEST DA 228 3.2]2' FI Hour Clock 011111 6367.7 2492.0 1358.2 5734.8	Gauge No. Oepth: Blanked Off Pre Field 6538 2571 1393 5785	1927 13.396 Fr. 24 four Clock YES source 6534.2 2573.7 1402.7 5803.6	Gauge No. Depth: Blanked Off Pressi	Hour Clock	Tool Opened Opened Bypass Reported Minutes	7:43 P.A A.A 5:12 P.A Computer	County LEA State
TEMPERATURE St. 200+ 'F. Ctuol 'F. Itiol Hydroetotic Flow Initial Finol Closed in Eleman	Gouge No. 19 Cepth: 13 Blanked OffNO Press Field 6365 2483 1394 5737 1031	000 JEST DA 028 3.2]2' ft Hour Clock 011110 011110 011110 1358.2 5734.8 1088.4	Gauge No. Oepth: Blanked Off Pre Field 6538 2571 1393 5785 1162	1927 13.396 Fr. 24 four Clock YES source 6534.2 2573.7 1402.7 5803.6 ≤ 1152.7	Gauge No. Oepth Blanked Off Presss Field	Hour Clock	Tool Opened Opened Bypass Reported Minutes 83 118	A.A 7:43 P.A A.A 5:12 P.A Computer Minutes ————————————————————————————————————	County LEA Store NEW
TEMPERATURE SE: 200+ 'F. Club 'F. Club Initial Flow Initial Flo	Gauge No. 19 Depth: 13 Blanked OffNO Press Field 6365 2483 1394 5737 1031 1281	000 JEST DA 0111ce 0111ce 0111ce 0111ce 1358.2 5734.8 1088.4	Gauge No. Oepth: Blonked Off Pre Field 6538 2571 1393 5785 1162 1324	1927 13.396'ri. 24tour Clock YES ortice 6534.2 2573.7 1402.7 5803.6 € 1152.7 1314.8	Gauge No. Oepth Blanked Off Presss Field	Hour Clock	Tool Opened Opened Bypass Reported Minutes 83 118	A.A 7:43 P.A A.A 5:12 P.A Computer Minutes ————————————————————————————————————	County LEA Store NEW
TEMPERATURE SE: 200+ 'F. Club 'F. Club Final Closed in Flow Initial Flow Initial Closed in Closed in	Gouge No. 19 Cepth: 13 Blanked OffNO Press Field 6365 2483 1394 5737 1031	000 JEST DA 028 3.2]2' ft Hour Clock 011110 011110 011110 1358.2 5734.8 1088.4	Gauge No. Oepth: Blanked Off Pre Field 6538 2571 1393 5785 1162	1927 13.396 Fr. 24 four Clock YES source 6534.2 2573.7 1402.7 5803.6 ≤ 1152.7	Gauge No. Oepth Blanked Off Presss Field	Hour Clock	Tool Opened Opened Bypass Reported Minutes 83 118	A.A 7:43 P.A A.A 5:12 P.A Computer Minutes ————————————————————————————————————	County LEA Store NEW
TEMPERATURE St. 200+ *F. Ctual	Gauge No. 19 Depth: 13 Blanked OffNO Press Field 6365 2483 1394 5737 1031 1281	000 JEST DA 0111ce 0111ce 0111ce 0111ce 1358.2 5734.8 1088.4	Gauge No. Oepth: Blonked Off Pre Field 6538 2571 1393 5785 1162 1324	1927 13.396'ri. 24tour Clock YES office 6534.2 2573.7 1402.7 5803.6 1152.7 1314.8 5760.2	Gauge No. Depth Blanked Off Press:	Hour Clock	Tool Opened Opened Bypass Reported Minutes 83 118	A.A 7:43 P.A A.A 5:12 P.A Computer Minutes ————————————————————————————————————	County LEA Store NEW
TEMPERATURE SI: 200+ 'F. Ctual 'F. Ctual 'F. Closed in Initial Flow Final Closed in Initial Flow Final Closed in Final	Gauge No. 19 Depth: 13 Blanked OffNO Press Field 6365 2483 1394 5737 1031 1281	000 JEST DA 0111ce 0111ce 0111ce 0111ce 1358.2 5734.8 1088.4	Gauge No. Oepth: Blonked Off Pre Field 6538 2571 1393 5785 1162 1324	1927 13.396'ri. 24tour Clock YES ortice 6534.2 2573.7 1402.7 5803.6 € 1152.7 1314.8	Gauge No. Depth Blanked Off Press:	Hour Clock	Tool Opened Opened Bypass Reported Minutes 83 118	A.A 7:43 P.A A.A 5:12 P.A Computer Minutes ————————————————————————————————————	County LEA State
TEMPERATURE st: 200+ 'F. actual 'F. actual 'F. actual Final Final Flow Final Flow Final Final Final Final Closed in Closed in Closed in Closed in	Gauge No. 19 Depth: 13 Blanked OffNO Press Field 6365 2483 1394 5737 1031 1281	000 JEST DA 0111ce 0111ce 0111ce 0111ce 1358.2 5734.8 1088.4	Gauge No. Oepth: Blonked Off Pre Field 6538 2571 1393 5785 1162 1324	1927 13.396'ri. 24tour Clock YES office 6534.2 2573.7 1402.7 5803.6 1152.7 1314.8 5760.2	Gauge No. Depth Blanked Off Press:	Hour Clock	Tool Opened Opened Bypass Reported Minutes 83 118	A.A 7:43 P.A A.A 5:12 P.A Computer Minutes ————————————————————————————————————	County LEA Store NEW
TEMPERATURE SI: 200+ 'F. Ctual 'F. Ctual 'F. Closed in Initial Flow Final Closed in Initial Flow Final Closed in Final	Gauge No. 19 Depth: 13 Blanked OffNO Press Field 6365 2483 1394 5737 1031 1281	000 JEST DA 0111ce 0111ce 0111ce 0111ce 1358.2 5734.8 1088.4	Gauge No. Oepth: Blonked Off Pre Field 6538 2571 1393 5785 1162 1324 5739	1927 13.396'ri. 24tour Clock YES office 6534.2 2573.7 1402.7 5803.6 1152.7 1314.8 5760.2	Gauge No. Depth Blanked Off Press:	Hour Clock	Tool Opened Opened Bypass Reported Minutes 83 118	A.A 7:43 P.A A.A 5:12 P.A Computer Minutes ————————————————————————————————————	County LEA Store NEW

Cosing perfs		Bottom c	hoke		Surf. temp 'F Ticket No604096
Spec. gravity		On gravit	Y		ppm Res
INDICATE TYPI	E AND SIZE	OF GAS MEASU	RING DEVICE U	SED	
Date Time a.m p.m	21xe	Surface Pressure psl	Gas Rate MCF	Liquid Rate BPD	Remarks
1]:15		.:			Testers on location.
1:45					Picked up tools.
2:50	-				Started in hole.
3:10					Put in water cushion.
6:36		1200			Put in nitrogen.
7:43		875	45		Opened tools.
7:46		900			Pressure increased.
7:50		1000			Pressure increased.
7:52	1/4"	1350			Opened to choke.
7:57	1/4"	1350			
8:02	3/8"	1300			Changed chokes.
8:02	3/8"	1250			Pressure decreased.
8:07	3/8"	1175			Pressure decreased.
8:12	30/64	950			Changed chokes.
8:17	30/64	950			Pressure decreased.
8:22	30/64	900			Pressure decreased.
8:28	3/4"	700			Changed chokes.
8:37	3/4"	500			Pressure decreased.
8:42	3/4"	450			Pressure decreased.
8:47	3/4"	375			Pressure decreased.
9:07	3/4"	375			Gas to surface.
9:14	3/4"	355			
9:14	3/4"	355		and the same of th	Closed tool.
11:12	5/8"			n sper gage, sop generalderer spriker i de sekole deme e k	Opened tool for second flow.
11:17	5/8"	5			Pressure increased.

PRODUCTION TEST DATA

CITYCE'S 20171 14 1/10

pec. gravity		Chloride		Р	opm Res
HDICATE TYPE	AND SIZE	OF GAS MEAS	URING DEVICE U	\$10	
Date Fime a.m. p.m.	Choke Size	Surface Pressure psi	Gas Rote MCF	Liquid Rate BPD	Remarks
11:22	5/8"	_11			Pressure increased.
11:27	5/8"	150		· · · · · · · · · · · · · · · · · · ·	Water blanket to surface.
11:32	5/8"	250			Pressure increased.
11:37	5/8"	_300			Pressure increased.
11:42	5/8"	340			Pressure increased.
11:47	5/8"	350			Pressure increased.
11:52	5/8"	360			Pressure increased.
11:57	5/8"	375			Pressure increased.
12:02	5/8"	380		<u> </u>	Pressure increased.
12:07	5/8"	370			Pressure increased
12:12	5/8"	400			Pressure increased.
12:22 -	5/8"	410			Closed in at surface due to leak.
12:32	5/8"	380			Reopened - pressure decreased.
12:42	5/8"	340			Pressure decreased.
12:52	5/8"	330	> .		Pressure decreased.
1:02	5/8"	310		<u> </u>	Pressure decreased.
1:12	5/8"	310	· ·		Pressure decreased.
5:12					Opened bypass.
9:00				1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Reversed out.
) _{v,s}				
				المعادلة المعادلة المعادلة والمعادلة والمعادلة المعادلة ا	

ARM IST. SEENTED IN U.S.A.

PRODUCTION TEST DATA

LITTLE & POSTE SH 1/1.

Cauge No	. 19	28		Depth	13,212	1	Clock No	<u>. 11</u>	954	24 hour	Ticket No.604	096		
Firs Flow Po	t eriod	CI	First osed in Press		Sec Flow	ond Period	CI	Second osed In Press	Ure.	Thi Flow P	rd eriod	CI	Third osed In Pressu	и€
Time Defi.	PSIG Temp. Corr.	Time Deff, ,000"	$log \frac{1+\theta}{\theta}$	PSIG Temp. Corr.	Time Deff. .000"	PSIG ' Temp. Corr.	Time Deff. .000"	$log \frac{1+\theta}{\theta}$	PSIG Temp, Corr,	Time Deft, .000"	PSIG Temp. Corr.	Time Deff.	$Log \frac{1+\theta}{\theta}$	PSK Terre Corr
0.000	2492.0	.000		1358.2	.000	1088.4	.000		1260.7			#		
(.021	2589.5C			5119.1*		1287.9	.0503		5382.0*	**		1		
2 .0380	2569.1*			5523.5	.1293	1387.7	.1040		5507.8			1	!	
(.053	2548.7C			5602.2	(.183	1371.84			5555.0			1		
.0729	2346.9	.1063		5638.2	.1941	1376.4	.2114		5586.5					
1077	2029.4	.1337		5660.6	(.234	1351.4A			5608.9			1		
(.130	1913.8C	.1612		5676.4	.2588	1335.6	.3188		5626.9			1		
.1426	1802.7	.1886		5689.8	(.314	1267.5/		11	5642.6			1		
.1774	1485.2	.2160		5698.8	.3235	1272.1	.4261		5653.9					
(.196	1412.7C)			5707.8	.3880	1260.7	.4798		5662.9					
.2123	1408.1	.2709		5714.6			.5335		5671.9			1		
.2471	1383.2	.2983		5719.1			.5872		5678.6					
.2820	1358.2	.3257		5725.8			. 6409		5685.3		1			
		.3532		5730.3			.6946		5689.8					
		.3806		5732.5			.7483		5694.3					
1		.4080		5734.8			.8020		5698.8					
	2573.7			Depth 1402.7	13,396' .000	1152.7	Clock No	. 5991	1314.8	24 hour				
(.027	2668.1C	.0236		5285.3*		1342.5	.0503		5422.3*	**				
	2652.0*			5591.3	.128	1442.1	.1040		5561.6					<u> </u>
	2617.4C			5668.9	(.186	1425.94			5616.4					
.0770		.1045			.192	1428.2	.2114		5646.1					
		.1314		5726.0	(.236	1407.44	2).2651		5671.2				<u>.</u>	
(.146	1969.9C			5742.0	.256	1395.8	. 3188		5689.4					
.1506	1935.1	.1854		5753.4	(.313	1324.0A	3724		5703.1					
.1874	1557.8	.2123		5767.1	.320	1326.3	.4261		5714.6			 		
(.208	1465.2C			5773.9	.384	1314.8	.4798		5726.0			 		
.2242		.2662		5778.5			. 5335		5732.8			ļl		-
	1432.8	. 2932		5785.3			.5872		5739.7			ļ <u>.</u>		
. 2980		. 3202		5789.9			. 6409		5744.2					
		. 3471		5794.5			.6946		5751.1					
		.3741		5799.0			.7483		5755.7					
		.4010		5803.6			.8020		5760.2			<u>-</u>		
ding Intervo	i 11 First in	198	8		19	minutes	<u> </u>	16 minutes		ke chang	¥ 1.	Apparent		Mini

..... ne 1/10

				04096
·	0.0.	I. D.	LENGTH	HTESO
Drill Pipe or Tubing		3"	11	
Reversing Sub	V			
Water Cushion Valve	4.50"	3.826"	5310'	
Delli Pipe	4.50"	3.640"	7415'	
Drill Collors	6.25"	2.25"	585 '	
			1' X OVER	
Dual CIP Valve				
Dual CIP Sampler				
Hydro-Spring Tester	5"	75"	5 '	_13.191
	5"	75"	4'	
Multiple CIP Sampler	<u>3</u>		4	
Extension Joint Transaction Processing	ξü	.87"	15' (3 each)	
Extension South Transfer of the Control of the Cont		X/	TX	
AP Running Case	5"	3.25"	5'	13,212
THE HARMAN COMMENT				
Hydraulic Jor	5"	1.75"	5'	
VR Safety Joint	5"	1"	3'	
Pressure Equalizing Crossover				
	<u> </u>			
Pocker Assembly	7"	1.53"	5 '	13.227
	5"	1.68"	21	
Distributor		00	<u> </u>	
	4\$ *		•	•
Pocker Assembly	7"	_1.53"	51	_13.232
Flush Joint Anchor				
Pressure Equalizing Tube				
DI LI JOH BY DIELE C				
Blanked-Off B.T. Rurining Case				
Drill Collers				
Anchor Pipe Sofety Joint	· · · · · · · · · · · · · · · · · · ·			
Pocker Assembly	<u> </u>			
	199			
Distributor		-		
Packer Assembly				
			· · · · · · · · · · · · · · · · · · ·	
			with the second of the second	
Anchor Pipe Safety Joint	5.75"	1.50"	4'	
Side Wall Anchor	6"		1' X OVER	
Orill Collers	6.25"	_2.25"	124'	
	5.75"	2 500	1' X OVER	
Flush Joint Anchor	5.75"	3.50"	321	
	6 7611	3.50"	6.'	13,396
Blanked-Off B.T. Running Case	5.75"	n	<u> </u>	والاتبهدايي
Total Depth				13,400
OTOL LIPOID				

Dockets Nos. 32-79 and 33-79 are tentatively set for hearing on August 22 and September 5, 1979. Applications for hearing must be filed at least 22 days in advance of hearing date.

DOCKET: COMMISSION HEARING - TUESDAY - AUGUST 7, 1979

OIL CONSERVATION COMMISSION - 9 A.M. - ROOM 205 STATE LAND OFFICE BUILDING, SANTA FE, NEW MEXICO

CASE 6590: (Continued from July 25, 1979, Examiner Hearing)

Application of Grace Petroleum Corporation for compulsory pooling and an unorthodox gas well location, Lea County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests in the Morrow formation underlying Lots 9, 10, 15, and 16 and the SE/4 of Section 6, Township 21 South, Range 32 East, to be dedicated to a well to be drilled at an unorthodox location 4650 feet from the South line and 660 feet from the East line of said Section 6. Also to be considered will be the cost of drilling and completing said well and the allocation of the costs thereof as well as actual operating costs and charges for supervision. Also to be considered will be the designation of applicant as operator of the well and a charge for risk involved in drilling said well.

CASE 6612: Application of Gulf Oil Corporation for compulsory pooling and an unorthodox gas well location, Lea County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests in the Morrow formation underlying Lots 9 thru 16 of Section 6, Township 21 South, Range .

32 East, to be dedicated to a well to be drilled at an unorthodox location 4650 feet from the South line and 660 feet from the East line of said Section 6. Also to be considered will be the cost of drilling and completing said well and the allocation of the costs thereof as well as actual operating costs and charges for supervision. Also to be considered will be the designation of applicant as operator of the well and a charge for risk involved in drilling said well.

CASE 6555: (DE NOVO)

Application of Jake L. Hamon for an unorthodox gas well location, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval for an unorthodox location 660 feet from the North line and 560 feet from the East line of Section 30, Township 20 South, Range 36 East, North Osudo-Morrow Gas Pool, all of said Section 30 to be dedicated to the well.

Upon application of Texas Oil & Gas Corp. this case will be heard De Novo pursuant to the provisions of Rule 1220.

CASE 6596: (Continued from July 24, 1979, Commission Hearing)

Application of Harvey E. Yates Company for pool creation and special pool rules, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks the creation of a new Upper Pennsylvanian gas pool to be designated as the Southeast Indian Basin-Upper Pennsylvanian Gas Pool for its Southeast Indian Basin Well No. 1 located in Unit A of Section 23, Township 22 South, Ronge 23 East, and special pool rules therefor including 320-acre gas well spacing.

CASE 6597: (Continued from July 24, 1979, Commission Hearing)

Application of Harvey E. Yates Company for an unorchodox gas well location, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks approval for the unorthodox location of its Southeast Indian Basin Well No. 2, an Upper Pennsylvanian well to be drilled 660 feet from the North and West lines of Section 24, Township 22 South, Range 23 East, with the N/2 or all of said Section 24 to be dedicated to the well, depending on the outcome of Case No. 6596.

DOCKET: EXAMINER HEARING - WEDNESDAY - AUGUST 8, 1979

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

The following cases will be heard before Richard L. Stamets, Examiner, or Daniel S. Nutter, Alternate Examiner:

- CASE 6613: Application of Grace Petroleum Corporation for a unit agreement, Lea County, New Mexico.

 Applicant, in the above-styled cause, seeks approval for the Smith Ranch Unit Area, comprising 1,600 acres, more or less, of State and federal lands in Township 20 South, Range 33 East.
- CASE 6602: (Continued from July 25, 1979, Examiner Hearing)

Application of Tenneco 011 Company for an unorthdox well location, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks approval for the unorthodox location of its Federal 33 C No. 2 Well 1010 feet from the North line and 1710 feet from the West line of Section 33, Township 17 South, Range 29 East, South Empire-Wolfcamp Pool, the E/2 NW/4 of said Section 33 to be dedicated to the well.

- CASE 6611: (Continued from July 25, 1979, Examiner Hearing)

 Application of Cabot Corp. for salt water disposal, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval for the disposal of produced salt water in the Devonian formation through the perforated interval from 12,156 feet to 12,574 feet in its Reed Well No. 1 located in Unit N of Section 35, Township 13 South, Range 37 East, King Pield.
- CASE 6614: Application of Texaco Inc. for the amendment of Order No. R-4442, Lea County, New Mexico.

 Applicant, in the above-styled cause, seeks the amendment of Order No. R-4442 to remove the top unit allowable restriction from producing wells in the Vacuum Grayburg San Andres Unit which are offset by "lease line" injection wells.
- CASE 6615: Application of Southland Royalty Company for downhole commingling, San Juan County, New Mexico.

 Applicant, in the above-styled cause, seeks approval for the downhole commingling of Kutz-Gallup and Basin-Dakota production in the wellbore of its Frontier "E" Well No. 1 located in Unit 0 of Section 4, Township 27 North, Range 11 West.
- CASE 6616: Application of Watson Treating Plant for an oil treating plant permit, Roosevelt County, New Mexico.

 Applicant, in the above-styled cause, seeks authority for the construction and operation of an oil treating plant for the purpose of treating and reclaiming sediment oil at a site in the SE/4 NW/4 of Section 34, Township 8 South, Range 35 East.
- CASE 6617: Application of El Paso Natural Gas Company for downhole commingling, Rio Arriba County, New Mexico.

 Applicant, in the above-styled cause, seeks approval for the downhole commingling of Basin-Dakota and Otero-Gallup production in the wellbore of its Jicarilla 67 Well No. 10 located in Unit M of Section 30, Township 25 North, Range 5 West.
- CASE 6618: Application of Marvey E. Yates Company for pool creation and special pool rules, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks the creation of a new Yates gas pool for its DEPCO Federal Well No. 1 located in Unit D of Section 19, Township 18 South, Range 29 East, and special rules therefor, including 80-acre gas well spacing.
- CASE 6619: Application of Harvey E. Yates Company for an unorthodox well location and a non-standard proration unit, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks approval of a 62.75-acre non-standard Yates gas proration unit comprising Lots 1 and 2 of Section 19, Township 18 South, Range 29 East, to be dedicated to its DEPCO Federal Well No. 1 drilled 330 feet from the North line and 660 feet from the West line of said Section 19.
- CASE 6620: Application of Harvey D. Yates Company for an NGPA determination, Lea County, New Mexico.

 Applicant, in the above-styled cause, seeks a new onshore reservoir determination for its Austin Monteith Well No. 1 located in Unit K of Section 8, Township 14 South, Range 36 East.
 - CASE 6621: Application of Harvey E. Yates Company for compulsory pooling, Eddy County, New Mexico.

 Applicant, in the above-styled cause, seeks an order pooling all mineral interests in the WolfcampPenn formations underlying the S/2 of Section 4, Township 18 South, Range 29 East, to be dedicated
 to a well to be drilled at a standard location thereon. Also to be considered will be the cost of
 drilling and completing said well and the allocation of the cost thereof as well as actual operating
 costs and charges for supervision. Also to be considered will be the designation of applicant as
 operator of the well and a charge for risk involved in drilling said well. (This case will be
 dismissed.)

HEYCO





HARVEY E. YATES COMPANY

SUITE 300, SECURITY NATIONAL BANK BUILDING

ROSWELL, NEW MEXICO 88201

Case 6620

July 26, 1979

New Mexico Oil Conservation Division Post Office Box 2088 State Land Office Building Santa Fe, New Mexico 87501

Attention: Mr. Richard Stamets

Re: AUSTIN-MONTEITH #1 WELL Township 14 South, Range 36 East Section 8, Unit Letter K Lea County, New Mexico

Dear Mr. Stamets:

Enclosed for filing is an application for ceiling price determination covering the above referenced well. Certain of the geological exhibits are not included with the application, however; they will be presented at the hearing which is scheduled for August 8, 1979.

If you have any questions, please advise.

Wery truly yours, Subject H. Strand

RHS/3j

OIL CONSERVATION DIVISION

SANTA FE

ROUGH

dr/

STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT OIL CONSERVATION DIVISION

IN THE MATTER OF THE HEARING CALLED BY THE OIL CONSERVATION DIVISION FOR THE PURPOSE OF CONSIDERING:

JAK

CASE NO.

Order No.

6104

APPLICATION OF HARVEY E. YATES COMPANY FOR AN NGPA DETERMINATION, LEA COUNTY, NEW MEXICO.

DER OR MINI

ORDER OF THE DIVISION

BY THE DIVISION:

This cause came on for hearing at 9 a.m. on August 8

19 79, at Santa Fe, New Mexico, before Examiner Richard L. Stamets

NOW, on this ______ day of _August ____, 19 79 ___, the

Division Director, 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 Division has jurisdiction of this cause and the subject matter thereof.
- (2) That the applicant, Harvey E. Yates Company, seeks a determination by the Division, in accordance with Sections 2 (6) and 102 of the Natural Gas Policy Act of 1978, and the applicable rules of the Federal Energy Regulatory Commission,

fl

that its Austin Monteith Well No. 1, located in Unit K of Section 8, Township 14 South, Range 36 East, NMPM, Lea County, New Mexico, has discovered a new onshore reservoir from which natural gas was not produced in commercial quantities before April 20, 1977.

Mississi ppia n (3) That said well was completed in the Morrow formation with perforations from /3360 to 13390 feet, and a plugged-back depth of 13478 feet after having been drilled to a total depth of 14000 feet.

(4) That although there are several wells in the vicinity and are completed in the Mississippin of the subject well which have penetrated the Marrow formation, Pressures encountered in the Marrow which is the producing. are indicative of an undrained reservoir, or

(5) What seismic everdence presented at the hearing demonstrated that soil Austin Monteith Wall No I could be

separated from other Mississipian producing wells in the area by a fault.

(6) That the combined scismic and pressure data presented establishes that said Prestin - Montaith Well No. I has been completed in a Red new onshore reservoir parsuant to as defined by

the provisions of Section 102(c) of the Natural Cas Policy Act of 1978 and the applicable rules of the Federal Energy Regulatory Commission.

IT IS THEREFORE ORDERED:

That the Harvey E. Yates Company Austin Monteith Well No. 1, located in Unit K of Section 8, Township 14 South, Range 36 East, NMPM, Lea County, New Mexico, is completed in a new onshore reservoir as defined by Sections 2(6) and 102(c) of the Natural Gas Policy Act of 1978, and the applicable rules of the Federal Energy Regulatory Commission.

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

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

HEYCO

PETROLEUM PRODUCERS



JUL 1 1 1979

OIL CONSERVATION DIVISION

SANTA FE

SUITE 300, SECURITY NATIONAL BANK BUILDING

505/623-6601

ROSWELL, NEW MEXICO 88201

July 8, 1979

New Mexico Oil Conservation Division P. O. Box 2088 Santa Fe, New Mexico 87501

Attention: Mr. Richard Stamets

Case 6620

Re: Austin Monteith #1
1650 FSL & 1980 FWL
Sec. 8, T-14S, R-36E
Lea County, New Mexico

Dear Mr. Stamets:

This letter shall serve as our application for hearing for a ceiling price determination under the Natural Gas Price Act of 1978 for the above referenced well. We will seek a determination that the well produces natural gas from a new onshore reservoir as defined under the Act and that said gas is entitled to a maximum ceiling price calculated under §102 of the Act. Please advertise this application for the examiner hearing set for August 8, 1979 and provide us with a docket for that hearing. We will submit a formal application prior to the date of hearing. Thank you.

Sincerely,

Robert H. Strand

Attorney

RHS/1h