

INVESTIGATION, LOS ANGELES, CALIF.

CONTINUE

TO

AUGUST 6

Case No.

6956

Application

Transcripts

Small Exhibits

ETC

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
STATE LAND OFFICE BLDG.
SANTA FE, NEW MEXICO

6 August 1980

EXAMINER HEARING

IN THE MATTER OF:

Application of Amoco Production Com-
pany for an NGPA determination, Lea
County, New Mexico.

CASE
6956

BEFORE: Daniel S. Nutter

TRANSCRIPT OF HEARING

A P P E A R A N C E S

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RICHARD A. COLEMAN

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1 MR. NUTTER: We'll call next Case Number
2 6956.

3 MR. PADILLA: Application of Amoco Pro-
4 duction Company for an NEPA determination, Lea County, New
5 Mexico.

6 MR. APPELT: Mr. Examiner, my name is
7 James Appelt. I am representing Amoco Production Company.
8 This is Case Number 6956, application of Amoco Production Com-
9 pany for a new onshore reservoir determination in the Marmon
10 formation for its State "GH" Well No. 1, located in Unit F
11 of Section 21, Township 16 South, Range 35 East.

12 MR. NUTTER: And what is your name again?

13 MR. APPELT: Appelt, James Appelt,
14 A-P-P-E-L-T.

15 MR. NUTTER: We have a problem. Atwood
16 and Malone made an appearance on behalf of C. A. Mote in this
17 case, so I think you better make your appearance, too. He's
18 in association with you.

19 MR. MOTE: Yes. I'm Clyde Mote. Mr.
20 Appelt is associated with me for Amoco Production Company.

21 MR. NUTTER: Thank you.

22 MR. APPELT: I have one witness, Mr.
23 Richard Coleman, who needs to be sworn.
24

25 (Witness sworn.)

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RICHARD COLEMAN

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

DIRECT EXAMINATION

BY MR. APPELT:

Q Mr. Coleman, will you please state your name, occupation, and by whom you're employed?

A My name is Richard Coleman. I'm employed as a petroleum engineer by Amoco Production Company in Houston Texas.

Q Will you please briefly summarize your educational background and employment experience?

A Okay. I graduated from Texas A&M with a BS in chemical engineering in May of 1977, and since that time I have been employed with Amoco; started out in their Brownfield office in the Slaughter District doing completion and well workover type work, and also worked in a waterflood group for six months, and I was transferred to Houston in May of 1977. At that time I went to work in the primary reservoir group doing performance analysis on different primary reservoirs in the Permian Basin; and since May of this year I've been in the New Mexico operations group, where I've been in

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1 charge of Morrow development, drilling operations in Lea County.

2 MR. APPELT: Mr. Examiner, will you ac-
3 cept Mr. Coleman as an expert, qualified to testify in this
4 matter?

5 MR. NUTTER: Mr. Coleman is qualified.

6 Q Mr. Coleman, how many exhibits do you
7 plan to introduce?

8 A Seven.

9 Q Mr. Coleman, were these exhibits all pre-
10 pared by you or under your direction and supervision?

11 A Yes, they were.

12 Q Mr. Coleman, I now direct your attention
13 to Exhibit Number One. What is Exhibit One?

14 A Exhibit Number One is a formation structure
15 map, showing the top of the Mid-Morrow formation. On there
16 you can see a series of green dots and these represent all the
17 wells which have penetrated the Morrow formation in the 2-1/2
18 mile area which this circle on the map represents around the
19 subject well, the State "CH" No. 1, which is in the center of
20 the map.

21 The red line on this map indicates our
22 section line, which we will get to a little later in the pre-
23 sentation.

24 Q Okay. Mr. Coleman, I also note there are
25 other wells marked with no dots. Can you explain this?

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1 A Okay, those wells are wells that did not
2 penetrate the Morrow formation.

3 Q I now direct your attention to Exhibit
4 Number Two. What is this?

5 A Exhibit Number Two is our scout ticket
6 information and this is composed of more or less two sets of
7 scout tickets. The first set is marked cross section wells
8 and this is information on all the wells we used in making
9 our cross section. And the other is all the wells that
10 penetrated the Morrow formation as indicated on Exhibit One.

11 Q Okay. Now I direct your attention to
12 Exhibit Number Three. Will you explain this one, please?

13 A Exhibit Number Three is a Dwight production
14 and pressure profile of all the wells completed in the Townsend
15 and Shubar Field.

16 If you'll refer back to Exhibit Number
17 One, the Townsend wells are the ones that produced out of
18 Morrow in the northern part of the -- of the map, and the
19 Shubar is in the south part.

20 Q Okay.

21 MR. NUTTER: I see what's identified as
22 Townsend but I don't see any identified as Shubar, so which
23 ones are those wells?

24 A Okay. Shubar wells are in Section 28,
25 33, and 34.

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1 MR. NUTTER: Okay.

2 Q I now direct your attention to Exhibit
3 Number Four. Will you explain that one, please?

4 A Okay. Exhibit Number Four is a summary
5 of all the offset wells to the State "GW" in this 2-1/2 mile
6 area. It shows the well names, the operators, the location,
7 and the total depths of the wells, and any well that was deep
8 enough to penetrate the Morrow, it shows the completion inter-
9 val and the completion horizon, along with any tests that were
10 performed in the Morrow horizon in that well.

11 Q I now direct your attention to Exhibit
12 Number Five. Will you explain that exhibit, please?

13 A Okay. Exhibit Number Five is a cross
14 section of all the wells immediately offsetting the State "GW".
15 We have a little map in the righthand corner down here, those
16 spots on Exhibit Number One.

17 Q Okay, as you can see, the datum marker
18 to hang this cross section on is the Strawn. This is an
19 easily discernable marker in this area, and below the Strawn
20 we have the Atoka, the Morrow, and the Mississippian marked.

21 A Okay, also you will notice we have color
22 codes through the zones of interest in the Morrow. I've
23 colored all the clean sands with less than 50 API gamma ray
24 reading in yellow; green indicates DSTs or perforations or
some type of positive test in the Morrow formation, and the

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1 red marks indicate the significant porosity zones in the Morrow
2 formation.

3 Okay, we'd like to start off with this
4 and these wells, like I said, they follow the red line on Ex-
5 hibit One.

6 The first well is the Skelly Oil Company
7 Buffalo State C No. 1. The well was spudded in August, 1953,
8 with a TD of 13,565 feet. It had one DST in a low section of
9 the Morrow where we recovered a water blanket, 930 foot of gas
10 cut mud, and a trace of oil. We had a 2-hour shut-in bottom
11 hole pressure of 4370 pounds, and that was all the test that
12 was performed on this well in the Morrow. And the well was
13 subsequently drilled and abandoned.

14 Okay, the next well is the Read & Stevens
15 Edison Com No. 1. It was spudded in July of 1973 and reached
16 a total depth of 13,085 feet. Again, this well had no test
17 in the Morrow formation. As you can see from the porosity
18 readings on this log, we had very low porosity development,
19 although we did encounter some Morrow sands in this well. This
20 well was also subsequently drilled and abandoned.

21 The next well is the Great Western
22 Drilling Company Lowe State No. 1. It was originally spudded
23 in 1955 and reached a TD of 2566 feet. The well was then
24 deepened in 1972 to a depth to penetrate the Morrow.

25 Okay, we have one drill stem test of the

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1 Morrow Formation that recovered 1379 foot of heavily gas-cut
2 mud, and then the well was subsequently perforated in the Mor-
3 row and produced 2700 Mcf a day with a shut-in bottom hole
4 pressure of 5762 psi.

5 Okay, as of 1-1-80 this well produced
6 4.8 Bcf and 105,000 barrels of condensate.

7 Okay, the next well is the Tom Brown
8 Humble A State No. 1. It was spudded in 1972, reached a total
9 depth of 11,960 feet.

10 We have one DST in the Morrow, recovered
11 566 foot of gas-cut mud and 50 foot of drilling mud, and they
12 had a calculated flow rate of 260 Mcf a day with 1 hour and
13 20 minute final shut-in pressure of 4505 psi.

14 Okay, an interval was subsequently per-
15 forated in this well and it was potentialed to flow with 17
16 barrels a day and 560 Mcf a day. The gravity of gas was -- of
17 the gravity of the oil, rather, was 61 degrees API and cumula-
18 tive to 1-1-80 production from this zone was 1.2 Bcf and 17,000
19 barrels of oil.

20 The next well is the Texas Pacific Coal
21 and Oil Coal and Oil Company State of New Mexico J No. 3, and
22 this well had no porosity -- or had no test in the Morrow.

23 MR. NUTTER: When was it drilled?

24 A It was spudded 8-22-55.

25 MR. NUTTER: Thank you.

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1 A Okay, and as you can see, there were only
2 two zones of clean sand development in this well, and neither
3 one of these wells -- or neither one of these zones displayed
4 any significant porosity development in the Morrow.

5 MR. NUTTER: Were any tests made at all?

6 A No, sir.

7 Okay, the next well is V&F Petroleum Dan-
8 glade No. 1, spudded in June of 1956. Okay, when this well
9 was drilling through the Morrow it blew out at 12, 000 --
10 11,420 feet. Okay, they anticipated it flowing 4 to 5 million
11 cubic foot a day with a spray of oil.

12 The well was subsequently completed in
13 this zone at a later date, and it was originally completed in
14 the Devonian and it came back to the Morrow and completed for
15 15.2 million cubic foot a day, and this was in 1972.

16 Okay, however, this well encountered a
17 very limited Morrow reservoir and produced only 50-million
18 cubic feet of gas and 1500 barrels of condensate before it was
19 abandoned.

20 And the next well is the Mesa Petroleum
21 Company Monsanto State No. 1. Okay, this well perforated down
22 in the Morrow and tested for 2400 Mcf a day with a shut-in
23 bottom hole pressure of 2435 pounds.

24 As of 1-1-80 it's produced 1.5 Bcf and
25 62,000 barrels of oil.

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1 Okay, the next well is Remuda Oil and Gas
2 Company Edison Ranch No. 1. There was no test taken over the
3 Morrow interval in this well. I'd like to point out, this
4 well is on the top of the structure in our structure map over
5 here, and we've encountered a very poor Morrow section in this
6 well, and once again you can see that although we have some
7 sand development in this well, our porosity is very limited.

8 MR. NUTTER: When was it drilled?

9 A Spudded in June of 1957.

10 MR. NUTTER: Thank you.

11 A Okay, the next well is the subject well
12 of the case, the Amoco State "GH". We had one DST in the top
13 of the Morrow interval where we recovered the water blanket
14 and 90 foot of mud. We had a 902 pound shut-in pressure.

15 Okay, we subsequently completed the well
16 lower in the Morrow formation and it has produced to date .88
17 Bcf and 14,000 barrels of oil.

18 MR. NUTTER: What was its potential?

19 A The calculated absolute open flow was
20 11-million a day and -- I think the potential data is in the
21 scout ticket, but I don't have that.

22 MR. NUTTER: But its cum is .88 Bcf?

23 A Yes, sir.

24 MR. NUTTER: And when was it completed in
25 the Morrow?

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1 A. Okay, the completion date --

2 MR. NUTTER: Or when was it hooked up,
3 let's put it that way.

4 A. I don't know right offhand.

5 Okay, the next well is another Amoco well
6 immediately offset the "GH" to the south, State "HC" No. 1.
7 Okay, we had a drill stem test in the Morrow interval and we
8 recovered 75 foot of drilling mud and cut the water blanket.
9 We had a 2-hour shut-in test of 4171 psi.

10 Again, we did encounter significant Mor-
11 row sand development in this well, but we had very little por-
12 osity development.

13 The next well, the Dorchester Exploration
14 Edison Comm No. 1, which was spudded in April of 1979. I'd
15 like to point out to you that the rest of these wells on this
16 cross section were spudded after our well was. We just put
17 these on there for information sake.

18 Okay, this well had two drill stem tests
19 in the Morrow and neither one of them recovered any signifi-
20 cant hydrocarbon shows.

21 Okay, the well was subsequently completed
22 in the Mississippian.

23 The next well is the Houston Natural Gas
24 Company State 26 No. 1. Okay, this well was spudded in
25 January, 1979, and completed for 2600 Mcf a day with

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1 a shut-in bottom hole pressure of 6190 psi. It has produced
2 as of 1-1-80, 1 Bcf and 13,000 barrels of oil.

3 The last well on our cross section is the
4 Houston Natural Gas New Mexico 33 Comm No. 1, and this well
5 was acidized --

6 MR. NUTTER: I ran out of wells here on
7 my map. Was this a well right here?

8 A Yes, sir, that was the Dorchester well.

9 MR. NUTTER: It was supposed to have a
10 green dot and doesn't have one.

11 Okay, this data right here then applies
12 to that well. This data that I wrote down for this well ap-
13 plies to that one, and now you're going to give me the data
14 for this well.

15 A Yes.

16 MR. NUTTER: Okay.

17 A Okay, this well was perforated and frac-
18 ture stimulated. It was too marginal exhibiting the best
19 porosity in this well, and they were both subsequently squeezed
20 so it was also a dry hole in the Morrow.

21 It was completed back up in the Wolfcamp.

22 And I'd like to point out one other sig-
23 nificant feature, why we put this cross section together.

24 If you'll note, the Morrow, when it is
25 productive in any of these wells, the zone it is productive

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1 demonstrates high porosity and high permeability. You can see,
2 especially on some of those more modern logs, that it's not
3 real hard to pick out a porosity cutoff, and the productive
4 intervals stand out significantly in these wells, where it
5 comes in that way.

6 Q Is that all you have on Exhibit Number
7 Five?

8 A I think that will get it.

9 Q Now I direct your attention to Exhibit
10 Number Six. Will you explain that for us, please?

11 A Okay. Exhibit Number Six is basically a
12 summary of the data presented on the cross section where it
13 shows us initial bottom hole pressures of any wells completed
14 in the -- or tested in the Morrow that we have information on,
15 current pressures and cumulative production.

16 You'll notice the red dots on this map,
17 indicating any wells that were tested in the Morrow --
18 that we used to construct the cross section with.

19 And I'd like to point out a couple things
20 on this. The first is that as you can see, the State "GW",
21 6500 psi initial bottom hole pressure. This was calculated
22 based on the drilling kick from this well, and we were using
23 10 pound per gallon mud, and based on the hydrostatic column
24 of that mud, we had a 6500 pound minimum bottom hole pressure
25 when the well kicked.

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1 In order to control that kick, we mudded
2 up to 12.3 pounds, which indicated a maximum bottom hole pres-
3 sure of almost 7900 pounds.

4 Okay, and we got to compare that to the
5 Townsend wells back up to the north. The Great Western Well,
6 the third well from the west on our cross section, was the
7 maximum initial bottom hole pressure of any of these Townsend
8 wells, that that was 5762 pounds. All right, the --

9 MR. NOTTER: Well, what about the Mesa
10 well? It had 6640, didn't it?

11 A Well, yes, sir, but that was that limited
12 reservoir that only produced a very small amount of gas, and
13 that well wouldn't have been commercial in the Morrow zone if
14 that would have been the only zone in the well, so we encountered
15 a very limited reservoir at that location.

16 And then, let's see, the Remuda well to
17 the southeast was a dry hole, and then the State "RC" directly
18 south of our well was also a dry hole.

19 So I'd like to point out that fact that
20 we are surrounded either by dry holes, limited reservoir, or
21 significantly less initial bottom hole pressures to the north.

22 Q I now direct your attention to Exhibit
23 Number Seven. Explain that one, please.

24 A Exhibit Number Seven is a justification
25 of a new onshore gas reservoir, which we wrote for the purpose

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1 of our files in Houston, and this is basically just a summary
2 of all the information I went through today, where it shows
3 that we believe this well is in a new reservoir for two reasons
4 that's because of the pressure differential and the inability
5 to correlate these individual high porosity pay stringers from
6 well to well.

7 Q Mr. Coleman, is that all you have to say
8 here in regard to Exhibits One through Seven?

9 A Yes, it is.

10 MR. APPELT: Mr. Examiner, we would move
11 for admission of Exhibits One through Seven at this time.

12 MR. NUTTER: Exhibits One through Seven
13 will be admitted in evidence.

14 Q Mr. Coleman, in your opinion, was natural
15 gas produced in commercial quantities from the subject reser-
16 voir prior to April 20th, 1977?

17 A No, it was not.

18 Q In your opinion was the reservoir in
19 question penetrated before April 20th, 1977, by any well?

20 A No, sir, it was not.

21 Q Did you use all information reasonably
22 available to you in reaching your conclusion?

23 A Yes, we did.

24 Q In summary, upon what do you base your
25 conclusion that this is a new reservoir?

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1 A Okay, in summary, we encountered a 700 to
2 800 psi pressure differential greater than any other virgin
3 pressure encountered in a commercially productive well from
4 the Morrow reservoir; and secondly, the inability to correlate
5 the individual high porosity pay stringers from well to well
6 in the area.

7 MR. APPELT: Mr. Examiner, I respectfully
8 submit Exhibits One through Seven and the testimony of Mr.
9 Coleman as evidence to support Amoco's application, and pass
10 the witness.

11 MR. NUTTER: Amoco Exhibits One through
12 Seven will be admitted.

13
14 CROSS EXAMINATION

15 BY MR. NUTTER:

16 Q Now, Mr. Coleman, you stated that you
17 believe you've got a separate reservoir on account of three
18 things. One, that you're separated from either limited re-
19 servoirs or dry holes or pressure differentials.

20 A Yes, sir.

21 Q From productive wells. Now, will you go
22 through the pressure that you have on your -- on the subject
23 well a little bit more? You stated that you had a kick and
24 mudded up and all that, but have you got any actual pressure
25 measurements early in the life of the well?

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1 A Well, that stuff is up --- we've got it in
2 Hobbs but we weren't able to get it before the hearing. They
3 have a shut-in pressure on that, but we weren't able --

4 Q I think we're going to have to have that.
5 If you'll submit that after the hearing, because pressure, to
6 me, is going to be critical here because you're offsetting by
7 approximately one mile a well that's produced over a billion
8 cubic feet of gas, and it had a pressure close to 4505, I be-
9 lieve.

10 A Yes, sir.

11 Q Now what was that pressure determined by?

12 A That was off a scout ticket data and it's
13 a shut-in bottom hole pressure.

14 I'd also like to point out, while we're
15 on this question of pressure, that all these wells, the four
16 producing wells, one of them in Section 8, 9, one in 17, and
17 16 to the north of our well, when our well was completed the
18 maximum bottom hole pressure in any of these other wells was,
19 I believe, about 3214 pounds.

20 Q That's current pressure.

21 A Yes, sir.

22 Q And what was that -- what well was that
23 on?

24 A That was on the Great Western well, Iowa
25 State No. 1, and that was 3200 pounds, compared to the 6500

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1 pounds, which to me would indicate there is no pressure com-
2 munication between any of these wells.

3 Q Now, would you detail that pressure you
4 had there before this kick and the mudding program, and so
5 forth, in this well?

6 A Okay. We were drilling with 10 pound per
7 gallon mud, and based on the hydrostatic kick at the depth we
8 were drilling to, about 12,400 feet, the hydrostatic column
9 of mud weighed 65 -- or the pressure generated was 6500 psi.

10 Q And the well kicked again at that point.

11 A Yes, sir, and we had the mud up to 12.3
12 pounds per gallon, which is equivalent to 7900 psi bottom hole
13 pressure before we could --

14 Q Did you mud up in stages or go directly
15 from your 10 pound to your 12 something?

16 A I don't know for sure.

17 Q But anyway, they changed from a 6500
18 pound mud to a 7900 pound mud and the well didn't kick any
19 more.

20 A No, sir.

21 Q Is the well producing at the present time?

22 A Yes, it has. Like I say, on this map
23 you can see it has produced .88 Bcf and it's still producing.

24 Q And what's the flowing tubing pressure,
25 do you know?

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1 A I don't know right offhand.
2 Q Can you get that also?
3 A Yes, sir.
4 Q And also the most recent shut-in pressure.
5 A All right.
6 Q Does it make liquids?
7 A Yes, sir. We've found that -- we did
8 gravity comparisons between all the gas and liquids produced
9 out here and it's pretty typical from the Morrow where there's
10 not much variation in any of the gravity differences, so there
11 is no significant difference between this and any of the other
12 wells that are produced out here.
13 Q Well, if you can get shut-in pressure for
14 us and flowing tubing pressure, and a calculated bottom hole
15 pressure based on the gravities that you've got.
16 A All right.
17 Q And also some original pressures, if they
18 have that original bottom hole pressure.
19 A All right, I believe that is in the
20 District office.
21 Q Was that original shut-in pressure ob-
22 tained on a DST or what?
23 A On which well?
24 Q On the -- on the subject well.
25 A No, that's pressures based on the drilling

1 mud kick.

2 Q Oh, I see. You didn't have a DST on
3 that?

4 A Not on that interval, no, sir.

5 MR. NUTTER: Are there any further ques-
6 tions of Mr. Coleman? Mr. Padilla?

7

8 CROSS EXAMINATION

9 BY MR. PADILLA:

10 Q Mr. Coleman, you testified that some of
11 these wells had a limited reservoir in the Morrow formation.

12 A Yes, sir.

13 Q Is it also your testimony that even though
14 you had a limited reservoir in these wells there was no commun-
15 ication between those wells with a limited reservoir and the
16 well under consideration today?

17 A That is basically the definition of a
18 limited reservoir, where you have that -- you have very signi-
19 ficant porosity development but the porosity didn't go over
20 a big enough extent where we could produce a large amount of
21 oil and gas out of it.

22 We don't have any data to show exactly
23 how far we think that reservoir is, but based on our -- we
24 could generate pore volume calculation numbers. I'm sure it
25 would be a very small number, based on the ultimate recovery

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1 we had from that one well.

2 Q But it's your opinion that there's no
3 communication --

4 A There's no communication between these
5 wells, no, sir.

6 Q Now, I notice also on Exhibit One, you
7 have the -- is that a 2.5 mile radius around that?

8 A Yes, sir.

9 Q And that does not purport to show the
10 limits of the reservoir?

11 A No, sir. NO, sir.

12 MR. NUTTER: Are there any further ques-
13 tions? The witness may be excused.

14 Do you have anything further, Mr. Appelt?

15 MR. APPELT: No, sir, that's all.

16 MR. NUTTER: Does anyone have anything to
17 offer in Case Number 69567?

18 We'll take the case under advisement.

19
20 (Hearing concluded.)
21
22
23
24
25

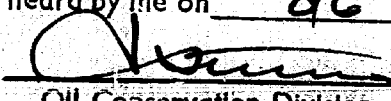
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C E R T I F I C A T E

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

SALLY W. BOYD, C.S.R.
Rt. 1 Box 191-B
San Jose, New Mexico 87501
Phone (505) 455-7409

I do hereby certify that the foregoing is
a complete record of the proceedings in
the Examiner hearing of Case No. 6956
heard by me on 8/6 1980.
, Examiner
Oil Conservation Division



Amoco Production Company

Houston Region
600 Jefferson Building
Post Office Box 3092
Houston, Texas 77001

James M. Appelt
Attorney

August 27, 1980

File: HHR-1047-WF

Re: Case No. 6956 - Hearing on August 6, 1980
Justification of a New Reservoir
State "GH" Gas Com No. 1
Lea County, New Mexico

SEP 02 1980

State of New Mexico
Energy and Minerals Department
Oil Conservation Division
P. O. Box 2088
Santa Fe, New Mexico 97501

OIL CONSERVATION DIVISION
SANTA FE

Attention: Examiner D. S. Nutter

Dear Mr. Nutter:

Enclosed please find additional data requested by you during the course of above-entitled hearing. Amoco appreciates your allowing us to submit this information, which was not readily available for presentation at the hearing.

Should any further questions arise, please do not hesitate to call me at (713) 652-2276.

Sincerely,

James M. Appelt

JMA:lj

Enclosure

cc: Richard Coleman, M/C 1702-B
Jim Allen, M/C 1010
Clarence Carrington, M/C 623
April Adams, M/C 1809-B



Amoco Production Company

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P.O. Box 3092
Houston, Texas 77001

Additional Data for NGPA Filing - State "GH" No. 1

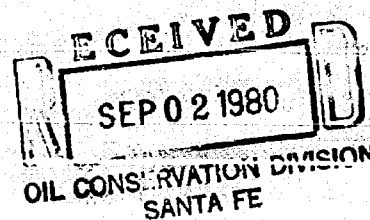
Subsequent to the hearing of Case No. 6956 on August 6, 1980, the following additional data has been compiled:

1. Amoco maintains the initial BHP (Bottom Hole Pressure) in the State "GH" No. 1 to be equivalent to or in excess of 6500 PSI. This is based on the fact that while drilling the subject well at 12,404' using 10 PPG mud the well "kicked". The mud weight was then increased, while circulating the hole, to 12.3 PPG. This was a continuous process requiring approximately 3.5 hours to control the well. Therefore, based on hydrostatic head calculations on the various weights of mud used, the initial BHP from the Morrow interval in question was in the range of 6500 to 7900 PSI.
2. An BHP build-up survey was performed in conjunction with the CAOF measurements as required by the State of New Mexico on August 7 to 9, 1979. This test information has been filed with the state. This test data indicated a static BHP of approximately 3100 PSI. However, this well went to sales in June of 1979 and had produced approximately 0.4 BCF from the Morrow at the time the test was performed. Therefore, the best indication of the initial BHP from the Morrow is still by use of hydrostatic head calculations based on drilling mud weights.
3. The following additional test data has also been compiled:
 - Initial production test: 11 MMCFD @ 2000 PSIFTP through a 20/64" choke
 - Initial rate to sales: 3.9 MMCFD x 141 BCPD
 - Current test: 1.022 MCFD x 10 BCPD @ 750 PSIFTP
 - No other pressure surveys have been conducted.

It remains Amoco's position that the State GH No. 1 is completed in a new onshore reservoir in the Morrow as stated in the hearing on August 6, 1980.

Richard A. Coleman
Petroleum Engineer (SG)
Amoco Production Co.
Houston, Texas

BC/lq
311/BB





Amoco Production Company

600 Jefferson Building
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Houston, Texas 77001

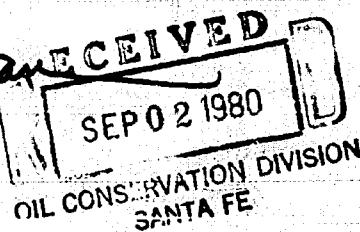
Additional Data for NGPA Filing - State "GH" No. 1

Subsequent to the hearing of Case No. 6956 on August 6, 1980, the following additional data has been compiled:

1. Amoco maintains the initial BHP (Bottom Hole Pressure) in the State "GH" No. 1 to be equivalent to or in excess of 6500 PSI. This is based on the fact that while drilling the subject well at 12,404' using 10 PPG mud the well "kicked". The mud weight was then increased, while circulating the hole, to 12.3 PPG. This was a continuous process requiring approximately 3.5 hours to control the well. Therefore, based on hydrostatic head calculations on the various weights of mud used, the initial BHP from the Morrow interval in question was in the range of 6500 to 7900 PSI.
2. An BHP build-up survey was performed in conjunction with the GAOF measurements as required by the State of New Mexico on August 7 to 9, 1979. This test information has been filed with the state. This test data indicated a static BHP of approximately 3100 PSI. However, this well went to sales in June of 1979 and had produced approximately 0.4 BCF from the Morrow at the time the test was performed. Therefore, the best indication of the initial BHP from the Morrow is still by use of hydrostatic head calculations based on drilling mud weights.
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 - Initial rate to sales: 3.9 MMCFD x 141 BCPD
 - Current test: 1.022 MCFD x 10 BCPD @ 750 PSIFTP
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It remains Amoco's position that the State GH No. 1 is completed in a new onshore reservoir in the Morrow as stated in the hearing on August 6, 1980.

Richard A. Coleman
Richard A. Coleman
Petroleum Engineer (SG)
Amoco Production Co.
Houston, Texas



BC/lr
3/11/88



Amoco Production Company

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Houston, Texas 77001

Additional Data for NGPA Filing - State "GH" No. 1

Subsequent to the hearing of Case No. 6956 on August 6, 1980, the following additional data has been compiled:

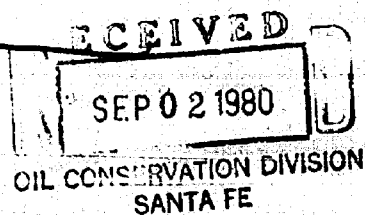
1. Amoco maintains the initial BHP (Bottom Hole Pressure) in the State "GH" No. 1 to be equivalent to or in excess of 6500 PSI. This is based on the fact that while drilling the subject well at 12,404' using 10 PPG mud the well "kicked". The mud weight was then increased, while circulating the hole, to 12.3 PPG. This was a continuous process requiring approximately 3.5 hours to control the well. Therefore, based on hydrostatic head calculations on the various weights of mud used, the initial BHP from the Morrow interval in question was in the range of 6500 to 7900 PSI.
2. An BHP build-up survey was performed in conjunction with the CAOF measurements as required by the State of New Mexico on August 7 to 9, 1979. This test information has been filed with the state. This test data indicated a static BHP of approximately 3100 PSI. However, this well went to sales in June of 1979 and had produced approximately 0.4 BCF from the Morrow at the time the test was performed. Therefore, the best indication of the initial BHP from the Morrow is still by use of hydrostatic head calculations based on drilling mud weights.
3. The following additional test data has also been compiled:
 - Initial production test: 11 MMCFD @ 2000 PSIFTP through a 20/64" choke
 - Initial rate to sales: 3.9 MMCFD x 141 BCPD
 - Current test: 1.022 MCFD x 10 BCPD @ 750 PSIFTP
 - No other pressure surveys have been conducted.

It remains Amoco's position that the State GH No. 1 is completed in a new onshore reservoir in the Morrow as stated in the hearing on August 6, 1980.

Richard A. Coleman

Richard A. Coleman
Petroleum Engineer (SG)
Amoco Production Co.
Houston, Texas

BC/lg
3/1/88



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:

CASE NO. 6956

Order No. R-6452

APPLICATION OF AMOCO PRODUCTION 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 ^{Aug 6} ~~July 9~~
19 80, at Santa Fe, New Mexico, before Examiner Daniel S. Nutter.

NOW, on this _____ day of July, 1980, 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, Amoco Production 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

-3-

Case No.
Order No.

(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.



September 12, 1980

POST OFFICE BOX 2088
STATE LAND OFFICE BUILDING
SANTA FE, NEW MEXICO 87501
800 827-5234

Mr. James F. Appelt
Amoco Production Company
Post Office Box 3092
Houston, Texas 77001

Re: CASE NO. 6956
ORDER NO. R-6452

Applicant:

Amoco Production Company

Dear Sir:

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

Yours 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. 6956
Order No. R-6452

APPLICATION OF AMOCO PRODUCTION
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 6, 1980, at Santa Fe, New Mexico, before Examiner Daniel S. Mutter.

NOW, on this 10th day of September, 1980, 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, Amoco Production Company, seeks a determination by the Division, in accordance with Sections 2 (6) and 102 of the Natural Gas Policy Act of 1976, and the applicable rules of the Federal Energy Regulatory Commission, that its State "GH" Well No. 1 located in Unit F of Section 21, Township 16 South, Range 33 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 Morrow formation with perforations from 12,392 feet to 12,627 feet, and a plugged-back depth of 12,866 feet after having been drilled to a total depth of 12,900 feet.

(4) That although there are several wells in the general vicinity of the subject well which have penetrated and are or

-2-
Case No. 6956
Order No. R-6452

were completed in the Morrow formation, pressures and productive capacity encountered in said State "GH" Well No. 1 as compared to said wells are completely distinctive and are indicative of an undrained reservoir.

(5) That the combined geological and engineering data presented establishes that said State "GH" Well No. 1 has been completed in a new onshore reservoir as defined by the provisions of Section 102 of the Natural Gas Policy Act of 1978 and the applicable rules of the Federal Energy Regulatory Commission.

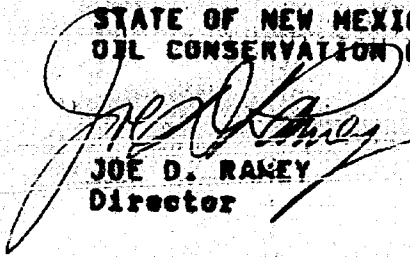
IT IS THEREFORE ORDERED:

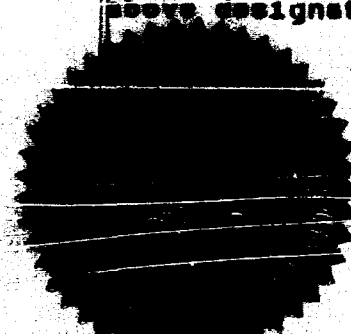
(1) That the State "GH" Well No. 1, located in Unit F of Section 21, Township 16 South, Range 35 East, NHPM, Lea County, New Mexico, is completed in a new onshore reservoir as defined by Sections 2 (6) and 102 of the Natural Gas Policy Act of 1978, and the applicable rules of the Federal Energy Regulatory Commission.

(2) That jurisdiction of this cause is 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 DIVISION


JOE D. RAKEY
Director


SEAL

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
STATE LAND OFFICE BLDG.
SANTA FE, NEW MEXICO
6 August 1980

EXAMINER HEARING

IN THE MATTER OF:

Application of Amoco Production Com-
pany for an NGPA determination, Lea
County, New Mexico.

CASE
6956

BEFORE: Daniel S. Nutter

TRANSCRIPT OF HEARING

A P P E A R A N C E S

For the Oil Conservation
Division:

Ernest L. Padilla, Esq.
Legal Counsel to the Division
State Land Office Bldg.
Santa Fe, New Mexico 87501

For the Applicant:

James M. Appelt, Esq.
Amoco Production Company
P. O. Box 3092
Houston, Texas 77001

SALLY V. BOYD, C.S.F.

1 Box 19-B
Santa Fe, New Mexico 87501
Phone (505) 455-7409

I N D E X

RICHARD A. COLEMAN

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SALLY W. BOYD, C.S.I.I.

P.O. Box 193-B
Santa Fe, New Mexico 87501
Phone (505) 355-7499

1 MR. NUTTER: We'll call next Case Number
2 6956.

3 MR. PADILLA: Application of Amoco Pro-
4 duction Company for an NGPA determination, Lea County, New
5 Mexico.

6 MR. APPELT: Mr. Examiner, my name is
7 James Appelt. I am representing Amoco Production Company.
8 This is Case Number 6956, application of Amoco Production Com-
9 pany for a new onshore reservoir determination in the Morrow
10 formation for its State "GH" Well No. 1, located in Unit F
11 of Section 21, Township 16 South, Range 35 East.

12 MR. NUTTER: And what is your name again?

13 MR. APPELT: Appelt, James Appelt,
14 A-P-P-E-L-T.

15 MR. NUTTER: We have a problem. Atwood
16 and Malone made an appearance on behalf of C. A. Mote in this
17 case, so I think you better make your appearance, too. He's
18 in association with you.

19 MR. MOTE: Yes. I'm Clyde Mote. Mr.
20 Appelt is associated with me for Amoco Production Company.

21 MR. NUTTER: Thank you.

22 MR. APPELT: I have one witness, Mr.
23 Richard Coleman, who needs to be sworn.
24

25 (Witness sworn.)

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Rt. 1 Box 190-1
Santa Fe, New Mexico 87501
Phone (505) 435-1409

RICHARD COLEMAN

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

DIRECT EXAMINATION

BY MR. APPELT:

Q Mr. Coleman, will you please state your name, occupation, and by whom you're employed?

A My name is Richard Coleman. I'm employed as a petroleum engineer by Amoco Production Company in Houston, Texas.

Q Will you please briefly summarize your educational background and employment experience?

A Okay. I graduated from Texas A&M with a BS in chemical engineering in May of 1977, and since that time I have been employed with Amoco; started out in their Brownfield office in the Slaughter District doing completion and well workover type work, and also worked in a waterflood group for six months, and I was transferred to Houston in May of 1977. At that time I went to work in the primary reservoir group doing performance analysis on different primary reservoirs in the Permian Basin; and since May of this year I've been in the New Mexico operations group, where I've been in

SALLY W. BOYD, (S.R.)

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Phone (505) 435-7405

1 charge of Morrow development, drilling operations in Lea County

2 MR. APPELT: Mr. Examiner, will you ac-
3 cept Mr. Coleman as an expert, qualified to testify in this
4 matter?

5 MR. NUTTER: Mr. Coleman is qualified.

6 Q Mr. Coleman, how many exhibits do you
7 plan to introduce?

8 A Seven.

9 Q Mr. Coleman, were these exhibits all pre-
10 pared by you or under your direction and supervision?

11 A Yes, they were.

12 Q Mr. Coleman, I now direct your attention
13 to Exhibit Number One. What is Exhibit One?

14 A Exhibit Number One is a formation structure
15 map, showing the top of the Mid-Morrow formation. On there
16 you can see a series of green dots and these represent all the
17 wells which have penetrated the Morrow formation in the 2-1/2
18 mile area which this circle on the map represents around the
19 subject well, the State "GH" No. 1, which is in the center of
20 the map.

21 The red line on this map indicates our
22 section line, which we will get to a little later in the pre-
23 sentation.

24 Q Okay, Mr. Coleman, I also note there are
25 other wells marked with no dots. Can you explain this?

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Santa Fe, New Mexico 87501
Phone (505) 451-7409

1 A Okay, these wells are wells that did not
2 penetrate the Morrow formation.
3 Q I now direct your attention to Exhibit
4 Number Two. What is this?
5 A Exhibit Number Two is our scout ticket
6 information and this is composed of more or less two sets of
7 scout tickets. The first set is marked cross section wells
8 and this is information on all the wells we used in making
9 our cross section. And the other is all the wells that pene-
10 trated the Morrow formation as indicated on Exhibit One.
11 Q Okay. Now I direct your attention to
12 Exhibit Number Three. Will you explain this one, please?
13 A Exhibit Number Three is a Dwight production
14 and pressure profile of all the wells completed in the Towns-
15 end and Shubar Field.
16 If you'll refer back to Exhibit Number
17 One, the Townsend wells are the ones that produced out of the
18 Morrow in the northern part of the -- of the map, and the
19 Shubar is in the south part.
20 Q Okay.
21 MR. NUTTER: I see what's identified as
22 Townsend but I don't see any identified as Shubar, so which
23 ones are those wells?
24 A Okay. Shubar wells are in Section 28,
25 33, and 34.

1 MR. NUTTER: Okay.

2 Q I now direct your attention to Exhibit
3 Number Four. Will you explain that one, please?

4 A Okay. Exhibit Number Four is a summary
5 of all the offset wells to the State "GH" in this 2-1/2 mile
6 area. It shows the well names, the operators, the location,
7 and the total depths of the wells, and any well that was deep
8 enough to penetrate the Morrow, it shows the completion inter-
9 val and the completion horizon, along with any tests that were
10 performed in the Morrow horizon in that well.

11 Q I now direct your attention to Exhibit
12 Number Five. Will you explain that exhibit, please?

13 A Okay. Exhibit Number Five is a cross
14 section of all the wells immediately offsetting the State "GH".
15 We have a little map in the righthand corner down here, those
16 spots on Exhibit Number One,

17 Okay, as you can see, the datum marker
18 to hang this cross section on is the Strawn. This is an
19 easily discernable marker in this area, and below the Strawn
20 we have the Atoka, the Morrow, and the Mississippian marked.

21 Okay, also you will notice we have color
22 codes through the zones of interest in the Morrow. I've
23 colored all the clean sands with less than 50 API gamma ray
24 reading in yellow; green indicates DSTs or perforations or
25 some type of positive test in the Morrow formation, and the

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1 red marks indicate the significant porosity zones in the Morrow
2 formation.

3 Okay, we'd like to start off with this
4 and these wells, like I said, they follow the red line on Ex-
5 hibit One.

6 The first well is the Skelly Oil Company
7 Buffalo State C No. 1. The well was spudded in August, 1953,
8 with a TD of 13,565 feet. It had one DST in a low section of
9 the Morrow where we recovered a water blanket, 230 feet of gas
10 cut mud, and a trace of oil. We had a 2-hour shut-in bottom
11 hole pressure of 4370 pounds, and that was all the test that
12 was performed on this well in the Morrow. And the well was
13 subsequently drilled and abandoned.

14 Okay, the next well is the Read & Stevens
15 Edison Com No. 1. It was spudded in July of 1973 and reached
16 a total depth of 13,085 feet. Again, this well had no test
17 in the Morrow formation. As you can see from the porosity
18 readings on this log, we had very low porosity development,
19 although we did encounter some Morrow sands in this well. This
20 well was also subsequently drilled and abandoned.

21 The next well is the Great Western
22 Drilling Company Lowe State No. 1. It was originally spudded
23 in 1955 and reached a TD of 2566 feet. The well was then
24 deepened in 1972 to a depth to penetrate the Morrow.

25 Okay, we have one drill stem test of the

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1 Morrow formation that recovered 1379 foot of heavily gas-cut
2 mud, and then the well was subsequently perforated in the Mor-
3 row and produced 2700 Mcf a day with a shut-in bottom hole
4 pressure of 5762 psi.

5 Okay, as of 1-1-80 this well produced
6 4.8 Bcf and 105,000 barrels of condensate.

7 Okay, the next well is the Tom Brown
8 Humble A State No. 1. It was spudded in 1972, reached a total
9 depth of 11,960 feet.

10 We have one DST in the Morrow, recovered
11 566 foot of gas-cut mud and 90 foot of drilling mud, and they
12 had a calculated flow rate of 260 Mcf a day with 1 hour and
13 20 minute final shut in pressure of 4505 psi.

14 Okay, an interval was subsequently per-
15 forated in this well and it was potentialized to flow with 17
16 barrels a day and 560 Mcf a day. The gravity of gas was -- or
17 the gravity of the oil, rather, was 61 degrees API and cumula-
18 tive to 1-1-80 production from this zone was 1.2 Bcf and 17,000
19 barrels of oil.

20 The next well is the Texas Pacific Coal
21 and Oil Coal and Oil Company State of New Mexico J. No. 3, and
22 this well had no porosity -- or had no test in the Morrow.

23 MR. NUTTER: When was it drilled?

24 A It was spudded 8-22-55.

25 MR. NUTTER: Thank you.

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Rt. 1, Box 191-B
Santa Fe, New Mexico 87501
Phone: (505) 435-7409

1 A. Okay, and as you can see, there were only
2 two zones of clean sand development in this well, and neither
3 one of these wells -- or neither one of these zones displayed
4 any significant porosity development in the Morrow.

5 MR. NUTTER: Were any tests made at all?

6 A. No, sir.

7 Okay, the next well is V&P Petroleum Dan-
8 glade No. 1 spudded in June of 1956. Okay, when this well
9 was drilling through the Morrow it blew out at 12,000 --
10 11,420 feet. Okay, they anticipated it flowing 4 to 5 million
11 cubic foot a day with a spray of oil.

12 The well was subsequently completed in
13 this zone at a later date, and it was originally completed in
14 the Devonian and it came back to the Morrow and completed for
15 15.2 million cubic foot a day, and this was in 1972.

16 Okay, however, this well encountered a
17 very limited Morrow reservoir and produced only 50-million
18 cubic feet of gas and 1500 barrels of condensate before it was
19 abandoned.

20 And the next well is the Mesa Petroleum
21 Company Monsanto State No. 1. Okay, this well perforated down
22 in the Morrow and tested for 2400 Mcf a day with a shut-in
23 bottom hole pressure of 2435 pounds.

24 As of 1-1-80 it's produced 1.5 Bcf and
25 62,000 barrels of oil.

S/L Y. W. BOYD, C.S.R.

Box 193-B

Suite 1100, New Mexico 87501

Phone (505) 455-7400

1 Okay, the next well is Remuda Oil and Gas
2 Company Edison Ranch No. 1. There was no test taken over the
3 Morrow interval in this well. I'd like to point out, this
4 well is on the top of the structure in our structure map over
5 here, and we've encountered a very poor Morrow section in this
6 well, and once again you can see that although we have some
7 sand development in this well, our porosity is very limited.

8 MR. NUTTER: When was it drilled?

9 A Spudded in June of 1957.

10 MR. NUTTER: Thank you.

11 A Okay, the next well is the subject well
12 of the case, the Amoco State "GH". We had one DST in the top
13 of the Morrow interval where we recovered the water blanket
14 and 90 foot of mud. We had a 902 pound shut-in pressure.

15 Okay, we subsequently completed the well
16 lower in the Morrow formation and it has produced to date .88
17 Bcf and 14,000 barrels of oil.

18 MR. NUTTER: What was its potential?

19 A The calculated absolute open flow was
20 11-million a day and -- I think the potential data is in the
21 scout ticket, but I don't have that.

22 MR. NUTTER: But its cum is .88 Bcf?

23 A Yes, sir.

24 MR. NUTTER: And when was it completed in
25 the Morrow?

SALLY W. BOYD, C.S.R.

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Santa Fe, N.M. 87501

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1 A Okay, the completion date --
2 MR. NUTTER: Or when was it hooked up,
3 let's put it that way.

4 A I don't know right offhand.
5 Okay, the next well is another Amoco well
6 immediately offset the "GN" to the south, State "HC" No. 1.
7 Okay, we had a drill stem test in the Morrow interval and we
8 recovered 75 foot of drilling mud and cut the water blanket.
9 We had a 2-hour shut-in test of 4171 psi.

10 Again, we did encounter significant Mor-
11 row sand development in this well, but we had very little poro-
12 sity development.

13 The next well, the Dorchester Exploration
14 Edison Comm No. 1, which was spudded in April of 1979. I'd
15 like to point out to you that the rest of these wells on this
16 cross section were spudded after our well was. We just put
17 these on there for information sake.

18 Okay, this well had two drill stem tests
19 in the Morrow and neither one of them recovered any signifi-
20 cant hydrocarbon shows.

21 Okay, the well was subsequently completed
22 in the Mississippian.

23 The next well is the Houston Natural Gas
24 Company State 28 No. 1. Okay, this well was completed in or
25 spudded January, 1979, and completed for 2600 Mcf a day with

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1 a shut-in bottom hole pressure of 6190 psi. It has produced
2 as of 1-1-80, 1 Bcf and 13,000 barrels of oil.

3 The last well on our cross section is the
4 Houston Natural Gas New Mexico 33 Comm No. 1, and this well
5 was acidized --

6 MR. NUTTER: I ran out of wells here on
7 my map. Was this a well right here?

8 A Yes, sir, that was the Dorchester well,

9 MR. NUTTER: It was supposed to have a
10 green dot and doesn't have one.

11 Okay, this data right here then applies
12 to that well. This data that I wrote down for this well ap-
13 plies to that one, and now you're going to give me the data
14 for this well.

15 A Yes,

16 MR. NUTTER: Okay.

17 A Okay, this well was perforated and frac-
18 ture stimulated. It was too marginal exhibiting the best
19 porosity in this well, and they were both subsequently aqua-
20 so it was also a dry hole in the Morrow.

21 It was completed back up in the Wolfcamp.

22 And I'd like to point out one other sig-
23 nificant feature, why we put this cross section together.

24 If you'll note, the Morrow, when it is
25 productive in any of these wells, the zone it is productive

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1 demonstrates high porosity and high permeability. You can see,
2 especially on some of those more modern logs, that it's not
3 real hard to pick out a porosity cutoff, and the productive
4 intervals stand out significantly in these wells, where it
5 comes in that way.

6 Q Is that all you have on Exhibit Number
7 Five?

8 A I think that will get it.

9 Q Now I direct your attention to Exhibit
10 Number Six. Will you explain that for us, please?

11 A Okay. Exhibit Number Six is basically a
12 summary of the data presented on the cross section where it
13 shows us initial bottom hole pressures of any wells completed
14 in the -- or tested in the Morrow that we have information on,
15 current pressures and cumulative production.

16 You'll notice the red dots on this map,
17 indicating any wells that were tested in the Morrow area ~~with~~
18 that we used to construct the cross section with.

19 And I'd like to point out a couple things
20 on this. The first is that as you can see, the State "CH",
21 6500 psi initial bottom hole pressure. This was calculated
22 based on the drilling kick from this well, and we were using
23 10 pound per gallon mud, and based on the hydrostatic column
24 of that mud, we had a 6500 pound minimum bottom hole pressure
25 when the well kicked.

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1 In order to control that kick, we mudded
2 up to 12.3 pounds, which indicated a maximum bottom hole pres-
3 sure of almost 7900 pounds.

4 Okay, and we got to compare that to the
5 Townsend wells back up to the north. The Great Western Well,
6 the third well from the west on our cross section, was the
7 maximum initial bottom hole pressure of any of these Townsend
8 wells, that that was 5762 pounds. All right, the --

9 MR. NUTTER: Well, what about the Mesa
10 well? Had 6640, didn't it?

11 A. Well, yes, sir, but that was that limited
12 reservoir that only produced a very small amount of gas, and
13 that well wouldn't have been commercial in the Morrow zone if
14 that would have been the only zone in the well, so we encounte
15 a very limited reservoir at that location.

16 And then, let's see, the Remuda well to
17 the southeast was a dry hole, and then the State "HC" directly
18 south of our well was also a dry hole.

19 So I'd like to point out that fact that
20 we are surrounded either by dry holes, limited reservoir, or
21 significantly less initial bottom hole pressures to the north.

22 Q I now direct your attention to Exhibit
23 Number Seven. Explain that one, please.

24 A. Exhibit Number Seven is a justification
25 of a new onshore gas reservoir, which we wrote for the purpose

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1 of our files in Houston, and this is basically just a summary
2 of all the information I went through today, where it shows
3 that we believe this well is in a new reservoir for two reasons
4 that's because of the pressure differential and the inability
5 to correlate these individual high porosity pay stringers from
6 well to well.

7 Q Mr. Coleman, is that all you have to say
8 here in regard to Exhibits One through Seven?

9 A Yes, it is.

10 MR. APPELT: Mr. Examiner, we would move
11 for admission of Exhibits One through Seven at this time.

12 MR. NUTTER: Exhibits One through Seven
13 will be admitted in evidence.

14 Q Mr. Coleman, in your opinion, was natural
15 gas produced in commercial quantities from the subject reser-
16 voir prior to April 20th, 1977?

17 A No, it was not.

18 Q In your opinion was the reservoir in
19 question penetrated before April 20th, 1977, by any well?

20 A No, sir, it was not.

21 Q Did you use all information reasonably
22 available to you in reaching your conclusion?

23 A Yes, we did.

24 Q In summary, upon what do you base your
25 conclusion that this is a new reservoir?

SALLY W. HICKEY, C.S.R.

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1 A Okay, in summary, we encountered a 700 to
2 800 psi pressure differential greater than any other virgin
3 pressure encountered in a commercially productive well from
4 the Morrow reservoir; and secondly, the inability to correlate
5 the individual high porosity pay stringers from well to well
6 in the area.

7 MR. APPELT: Mr. Examiner, I respectfully
8 submit Exhibits One through Seven and the testimony of Mr.
9 Coleman as evidence to support Amoco's application, and pass
10 the witness.

11 MR. NUTTER: Amoco Exhibits One through
12 Seven will be admitted.

13 CROSS EXAMINATION

14 BY MR. NUTTER:

15 Q Now, Mr. Coleman, you stated that you
16 believe you've got a separate reservoir on account of three
17 things. One, that you're separated from either limited re-
18 servoirs or dry holes or pressure differentials.

19 A Yes, sir.

20 Q From productive wells. Now, will you go
21 through the pressure that you have on your -- on the subject
22 well a little bit more? You stated that you had a kick and
23 mudded up and all that, but have you got any actual pressure
24 measurements early in the life of the well?
25

SALLY W. LOYD, C.S.II.

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1 A Well, that stuff is up -- we've got it in
2 Hobbs but we weren't able to get it before the hearing. They
3 have a shut-in pressure on that, but we weren't able --

4 Q I think we're going to have to have that.
5 If you'll submit that after the hearing, because pressure, to
6 me, is going to be critical here because you're offsetting by
7 approximately one mile a well that's produced over a billion
8 cubic feet of gas, and it had a pressure close to 4505, I be-
9 lieve

10 A Yes, sir.

11 Q Now what was that pressure determined by?

12 A That was off a scout ticket data and it's
13 a shut-in bottom hole pressure.

14 I'd also like to point out, while we're
15 on this question of pressure, that all these wells, the four
16 producing wells, one of them in Section 8, 9, one in 17, and
17 16 to the north of our well, when our well was completed the
18 maximum bottom hole pressure in any of these other wells was,
19 I believe, about 3214 pounds.

20 Q That's current pressure.

21 A Yes, sir.

22 Q And what was that -- what well was that
23 on?

24 A That was on the Great Western well, Lower
25 State No. 1, and that was 3200 pounds, compared to the 6500

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1 pounds, which to me would indicate there is no pressure com-
2 munication between any of these wells.

3 Q Now, would you detail that pressure you
4 had there before this kick and the mudding program, and so
5 forth, in this well?

6 A Okay. We were drilling with 10 pound per
7 gallon mud, and based on the hydrostatic kick at the depth we
8 were drilling to, about 12,400 feet, the hydrostatic column
9 of mud weighed 95 or the pressure generated was 6500 psi.

10 Q And the well kicked again at that point.

11 A Yes, sir, and we had the mud up to 12.3
12 pounds per gallon, which is equivalent to 7900 psi bottom hole
13 pressure before we could --

14 Q Did you mud up in stages or go directly
15 from your 10 pound to your 12 something?

16 A I don't know for sure.

17 Q But anyway, they changed from a 6500
18 pound mud to a 7900 pound mud and the well didn't kick any
19 more.

20 A No, sir.

21 Q Is the well producing at the present time?

22 A Yes, it has. Like I say, on this map
23 you can see it has produced .88 Bcf and it's still producing.

24 Q And what's the flowing tubing pressure,
25 do you know?

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A I don't know right offhand.

Q Can you get that also?

A Yes, sir.

Q And also the most recent shut-in pressure

A All right.

Q Does it make liquids?

A Yes, sir. We've found that -- we did gravity comparisons between all the gas and liquids produced out here and it's pretty typical from the Morrow where there's not much variation in any of the gravity differences, so there is no significant difference between this and any of the other wells that are produced out here.

Q Well, if you can get shut-in pressure for us and flowing tubing pressure, and a calculated bottom hole pressure based on the gravities that you've got.

A All right.

Q And also some original pressures, if they have that original bottom hole pressure.

A All right, I believe that is in the District office.

Q Was that original shut-in pressure obtained on a DST or what?

A On which well?

Q On the -- on the subject well.

A No, that's pressures based on the drill-

1 mud kick.

2 Q Oh, I see. You didn't have a DST on
3 that?

4 A Not on that interval, no, sir.

5 MR. NUTTER: Are there any further ques-
6 tions of Mr. Coleman? Mr. Padilla?

7

8 CROSS EXAMINATION

9 BY MR. PADILLA:

10 Q Mr. Coleman, you testified that some of
11 these wells had a limited reservoir in the Morrow formation.

12 A Yes, sir.

13 Q Is it also your testimony that even though
14 you had a limited reservoir in these wells there was no commu-
15 nication between those wells with a limited reservoir and the
16 well under consideration today?

17 A That is basically the definition of a
18 limited reservoir, where you have that -- you have very signifi-
19 cant porosity development but the porosity didn't go over
20 a big enough extent where we could produce a large amount of
21 oil and gas out of it.

22 We don't have any data to show exactly
23 how far we think that reservoir is, but based on our -- we
24 could generate pore volume calculation numbers, I'm sure it
25 would be a very small number, based on the ultimate recovery

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1 we had from that one well.

2 Q But it's your opinion that there's no
3 communication --

4 A There's no communication between these
5 wells, no, sir.

6 Q Now, I notice also on Exhibit One, you
7 have the -- is that a 2.5 mile radius around that?

8 A Yes, sir.

9 Q And that does not purport to show the
10 limits of the reservoir?

11 A No, sir. NO, SIR.

12 MR. NUTTER: Are there any further ques-
13 tions? The witness may be excused.

14 Do you have anything further, Mr. Appelto?

15 MR. APPELT: No, sir, that's all.

16 MR. NUTTER: Does anyone have anything to
17 offer in Case Number 6956?

18 We'll take the case under advisement.

19

20

(Hearing concluded.)

21

22

23

24

25

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C E R T I F I C A T E

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

Sally W. Boyd C.S.R.

SALLY W. BOYD, C.S.R.

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I do hereby certify that the foregoing is a complete record of the proceedings in the Examiner hearing of Case No. 655 heard by me on 8/6 1980.

[Signature] Examiner
Oil Conservation Division



Amoco Production Company

Houston, Texas
May 29, 1980

FILE: HHR-1047-WF

RE: Justification of a New Reservoir
State "GH" Gas Com No. 1
Lea County, New Mexico

BEFORE EXAMINER NUTTER

OIL CONSERVATION DIVISION

AMOCO EXHIBIT NO. 7

CASE NO. 6956

MEMORANDUM TO FILE

The subject well is completed in a new reservoir based on two facts:
(1) even though the well is completed in a gross interval correlative to offset producers, individual porosity stringers completed in the subject well do not correlate to pay stringers in offset wells thereby prohibiting hydraulic communication (and the ability for offsets to effectively drain the reservoir at the subject location) between producers; and;
(2) the bottom-hole pressure was found to be that of a virgin reservoir even though offset producers are currently demonstrating a depleted reservoir condition.

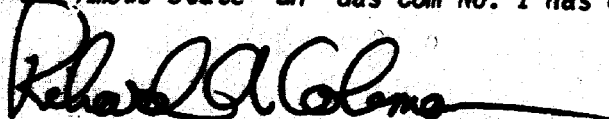
The attached structural cross section shows all Morrow completions within a 2.5 mile radius of the subject well. As can be seen from the cross section, all seven Morrow completions are within the same gross lower Morrow interval. However, attempts to correlate precise pay stringer from well to well is not possible. This is expected because of the lenticular development of the Morrow pay due to depositional environment throughout the area and is true throughout most of Southeastern New Mexico. This lends credibility to Amoco's position that the Morrow reserves at this location could not be recovered without production of these pay stringers from the subject wellbore.

Current bottom hole pressures at the offset producing wells (refer to structure map for well locations) range from 2094 to 3214 psi. Pressures at completion in these same wells (refer to Offset Well Test and Completion Data Tabulation) range from 4505 to 5762 psi. Original bottom-hole pressure in the subject well is calculated to be 6500 psi (based on a drilling "kick" encountered at 12,404' using 10.0 ppg mud). This indicates: (1) this reservoir is at a higher virgin pressure than encountered in any other field well, and; (2) even though the remainder of the wells are in a depleted state, the subject well is not in communication with

Memo to File
Page 2
May 29, 1980

other field wells and has encountered virgin pressure. It should be noted that the offset well tabulation shows all well completions within 2.5 miles of the subject well. All wells deep enough to penetrate the Morrow have their completion intervals given along with all available test data from the Morrow. All wells with positive test data from the Morrow were completed in the Morrow, thereby discounting the possibility of any behind-the-pipe reserves in any offset wells.

Therefore, based on pressure and production data and well log correlations, the Amoco State "GH" Gas Com No. 1 has encountered a new reservoir.



Richard Coleman

RC/11
270/A/2
Attachment

X-SECTION WELLS

BEFORE EXAMINER NUTTER

OIL CONSERVATION DIVISION

Amoco EXHIBIT NO. 2

CASE NO. 6956

COUNTY

Loc

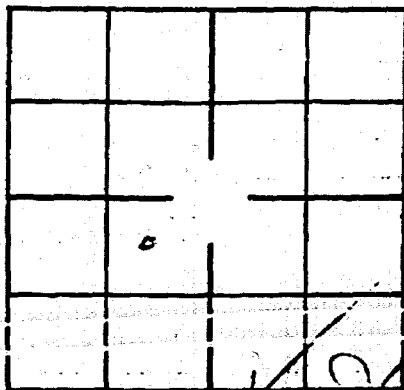
STATE

New Mexico (Sedon-Penn)

VIN02801

7113

ELEV. 4055



OPERATOR

Buffalo Oil Co.

FARM

State C

WELL No. 1

SEC. 18

T. 16-S

R. 35-E

SEC.

BLK.

SURVEY

LOC.

FR. N 1990

FR. S

FR. E 1915

FR. W

SPUD

8-29-53 COMP. 2-9-54 T.D. 13647.40

CONTRACTOR

TP

SHOT

T. AN.

1725

PROD. IP

P.E.D.

T. SALT

GOS

GN.

B. SALT

PRESSURE: CASING

TUBING

T. YATES

2926

REMARKS:

T. GRAYBURG

4318 4310

T. S. A.

4540

(SET Taps)

T. GLOR.

6190 (2135)

T. C. F.

1762

T. 7 Rivers

T. TUBBS

2357

T. Queen 3845

T. MIRA

13064 13152

I. Drink

T. DEV.

T. Abo

5149 5145

T. SIL.

T. Wall

C. 0-0 7-22

T. MONTANA

I. Penn

10622

T. SIMPSON

T. Fuss

I. McKee

T. ELLEN

Taps on tank

14500 test

8-20-53	10600' test. Location.		
AUG 26 1953	11114		Run 1000 GCS/HW + 50' A
SEP 2 1953	1406 RI		+ 900 GCS/HW +
SEP 9 1953	3100 Lm		5715 GCS/HW
SEP 10 1953	4657 dol		FP 3450 14.1 3450
SEP 23 1953	5170 Lm	NOV 18 1953	TD 11010 Lm. 11' Run.
SEP 30 1953	TD 6583 Lm SDR		DST 10601-848
OCT 7 1953	710 Lm		90.4 Lm 10000
OCT 12 1953	910 Lm Sh		Run 1000 GCS/HW + 40'
OCT 21 1953	9965 Lm		90' CHUM
OCT 28 1953	10355 Lm	NOV 24 1953	11020 Lm
NOV 4 1953	10725 Sh	DEC 2 1953	11236 Lm
	10658-687 Run 29' dol		DST 11058-076
	10687-710 Run 19' dol		Run 3 Lm G:7
NOV 10 1953	10885 Lm		Run 600' GCM + 30'
	10710-10751 Run 37		oil 43 gravity
	Sh 4 Lm		FP 100-130 205. 11'
	DST 10661-751	DEC 9 1953	11452 Lm 11'
	90 Lm 900 WB		DST 11100-259
	Run 400' + 35 M 15-17		90 Lm G:12
	FP 0		Run 350' M + 30' GCM
	DST 10665-880		FP 90 202. 690
	90 9:30 1000 WB		DST 11370-416
	62:43		90 9:30 E/L

LOG

Rec 440' oil + 30' SOEGCM
 EP 130-225 20d 2765
 DEC 16 1953 d 11529 lms
 DST 11428-537
 op 2:50
 Rec Rec 140' GCM
 EP 100 20d 300
 DEC 22 1953 d 12120 lms
 JAN 6 1954 d 12695 lms
 JAN 13 1954 ~~12120 lms~~ (12120 12040)
 JAN 20 1954 TO 13154 lms Ch Fish
 1257-12499-13040
 op 4 lms 20104 RB
 5:30 12120 MCF
 Rec RB + 930 46CM Trans Dist
 EP 1010-1125 20d 1570
 JAN 27 1954 d 13246 lms Ch
 FEB 3 1954 d 13498 lms Ch
 FEB 10 1954

T. An. 1780 (+2275)
 T. Yates 2985 (+1070)
 T. SAN A. 4630 (-595)
 T. GlociTA 6190 (-2135)
 T. D.K. Sd. 7400 (-3345)
 T. Abo 8025 (-3980)
 T. Wolfcamp 9645 (-5640)
 T. Perm (?) 10880 (-1845)
 T. Miss. ls. 13475 (-9420)

200 TOPS

OWDD

COUNTY LEA FIELD Townsend STATE NM BN 02795

OPR GREAT WESTERN DRIG. CO. MAP

1 Lower - State

Sec 17, T-16-S, R-35-E CO-ORD

330' FNL, 330' FEL of Sec

Re-Spd 1-26-72 CLASS OWA EL 4033

Re-Cmp 4-19-72

FORMATION	DATUM	FORMATION	DATUM
C&G & SX - TUBING			
11 3/4" at 367' w/850 sx			
8 5/8" at 4649' w/2200 sx			
5 1/2" at 10,565' w/375 sx			
4 1/2" at 12,581' w/500 sx			
LOGS EL GR RA IND MC A			
TD 12,581'			

IP (Morrow) Perfs 12,449-465' CAO 2750 MCFGPD. GOR 46,000
 Grav (gas) .710; (cond) 64; SIWHP 4670#

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CONT. Big West PROP DEPTH 11,900' TYPE RT
 DATE

John
4-23-73

F.R. 1-18-72; Opr's Elev. 4033' DF
 PD 11,900' RT (Morrow)
 Contractor - Big West
 BHL: 1977' FNL, 898' FEL of Sec
 (Orig. Pure Oil Co. #1 State - Lea "C", comp
 7-22-55 thru (Cisco) Perfs 10,508-548',
 OTD 10,566', OPB 10,560', Plugged Producer 10-20-70)
 2-1-72 TD 10,566'; Drig. by @ 7292'
 Drilled off w/Dyna Drill @ 7292'
 2-7-72 TD 10,566'; STTD 7671'; Trip
 Drilled to 7889' & went back in old hole to 7922'
 PB to 7373' w/150 sx
 Drilled off w/Turbodrill @ 7622'
 2-14-72 TD 10,566'; Drig. by @ 8314' 1m & sn
 2-21-72 TD 10,566'; Drig. by @ 9350' 1m & sh

LEA

Townsend

NM Sec 17, T16S, R3E

GREAT WESTERN DRILG. CO.

1 Lowe - State

Page #2

2-28-72

TD 10,566'; Drilg. by @ 10,245' 1m & sh

3-13-72

Drilg. 11,420' 1m & sh

DST 11,238-396', open 3 hrs 15 mins, rec 60' oil + 30' G&OCM + 590' sll G&OCM, 1 hr ISIP 5244#, FP 332-332#, 2 hr FSIP 1135#, HP 5289-5289#

3-20-72

Drilg. 11,916' 1m

3-27-72

TD 12,082'; Fshg

4-3-72

Drilg. 12,311' sd & sh

4-10-72

TD 12,581'; Prep DST (Morrow)

4-17-72

TD 12,581'; Prep Perf

DST (Morrow) 12,423-576'. open 2 hrs 30 mins. GTS during pre-flow @ max 570 MCFGPD thru 1/4" chk, SFP 280#, rec 1379' HGCM, (Sampler rec 200 cc's cond & mud) 1 hr ISIP 6282#,

4-17-72

Continued

FP 663-1228#, 2 hr FSIP 6283#, HP 6842-6842#

Ran 4 1/2" Casing

4-24-72

TD 12,581'; Tstg

Perf 12,449-465' w/2 SPF

Flwd @ 2516 MCFGPD thru 12/64" chk, 30 min SITP 3200#

Flwd @ 3 1/2 B cond PH in 2 hrs thru 1/4" chk,

5-1-72

TD 12,581'; WO OCC Potential

CAOF 2750 MCFGPD (12,449-465')

5-8-72

TD 12,581'; COMPLETE

(Morrow) FOUR POINT GAUGES:

Flwd 637 MCFGPD, 7/16" orifice, 1 hr, TP 4220#

Flwd 1158 MCFGPD, 5/8" orifice, 1 hr, TP 3701#

Flwd 1755 MCFGPD, 5/8" orifice, 1 hr, TP 2944#

Flwd 2517 MCFGPD, 5/8" orifice, 1 1/2 hrs, TP 1639#

LEA

Townsend NM

Sec 17, T16S, R35E

GREAT WESTERN DRUG CO. 1 Low-Grade

Page 43

5-8-72

Continued

Side Track Hole LOG TOPS: Tubb 7303',
Abo 7944', Wolfcamp 8574', Cisco 10,690',
Strawn 11,836', Atoka 12,014', Morrow Pay
12,442', Mississippian 12,542'

5-13-72

COMPLETION REPORTED

COUNTY Lea

STATE New Mexico (Undesignated)

SCOUT TICKET

~~MAN 02195~~

A

CVR NO.

#112

ELEV.

4033

A 4x4 grid of squares. A thick black cross is drawn over the grid, with its vertical bar centered between the second and third rows and its horizontal bar centered between the second and third columns. The intersection of the cross is in the center of the grid.

OPERATOR **The Fire Oil Company**

FARM State Lea "C" WELL NO. 1

Sec. 17 T. 16-S R. 35-E

SEC. _____ ALK. _____ SURVEY.

Loc. 330 FR. N FR. S 330 FR. E FR. W

SPUD. 5-7-55 COMP. 7-22-55 T.D. 10566 ch PG 10551

CONTRACTOR Rot. TP 10508 1/2-1-100

SHOT A-1500

T. AN. 1842 PROD. IP FI 5061P0FD

T. SALT _____ GOR. 1120 GR. 40.8

B. SALT _____ PRESSURE: CASING 14.10476 TUBING 3.54

T. YATES 3606 REMARKS: 2" 10504 37. -1

T. GRAYBURG 830.260 11hr.

T. S. A. 4590 4528 L. 7 Rivers

T. GLOR. 6158 I. Queen

T. C. F. 6700 T. Drink

T. TUBBS 6700 73/4 T. Abo 9050

T. Miss. I. Wolf C 9492

T. DEV. _____

T. SIL. _____

T. MONTROYA

T. SIMPSON

T. ELLER

1. 21500 = 10,546

T, Cisco - 10,346

4-20-55	10600' test. Location.	JUL 27 1955	TD 10566 ch. PB 10551
APR 27 1955	BR		Pert 96 10508-2-1
MAY 4 1955	RURT		84 10530-44
MAY 11 1955	Ø 1000 RB An		A/500
MAY 18 1955	Ø 3915 An Sh		E/ 37.8 BO 1hr 1/2 ch
MAY 25 1955	TD 4650 lm fl. 49	new	E/ 193 BO 10hr: 3/4 ch
JUN 1 1955	Ø 5597 lm	new	
JUN 8 1955	Ø 6580 lm	new	
	OST 6175-6363		
	Ø 2605		
	Ric 40' M		
	FD 35 30 Sip 360		
JUN 15 1955	Ø 7550 lm		
JUN 22 1955	Ø 8615 lm Sh		
JUN 29 1955	Ø 9640 lm		
JUL 6 1955	Ø 10162 lm Sh		
JUL 13 1955	Ø 10486		
JUL 20 1955	Ø 10600		
	Ø 10600-10551 Rec 74'		
	Ø 10551-10530 Rec 54'		
	Ø 10530-10508 Rec 24'		
	Ø 10508-10500 Rec 14'		
	Ø 10500-10486 Rec 4'		
	Ø 10486-10470 Rec 1'		
	Ø 10470-10450 Rec 1'		
	Ø 10450-10430 Rec 1'		
	Ø 10430-10410 Rec 1'		
	Ø 10410-10390 Rec 1'		
	Ø 10390-10370 Rec 1'		
	Ø 10370-10350 Rec 1'		
	Ø 10350-10330 Rec 1'		
	Ø 10330-10310 Rec 1'		
	Ø 10310-10290 Rec 1'		
	Ø 10290-10270 Rec 1'		
	Ø 10270-10250 Rec 1'		
	Ø 10250-10230 Rec 1'		
	Ø 10230-10210 Rec 1'		
	Ø 10210-10190 Rec 1'		
	Ø 10190-10170 Rec 1'		
	Ø 10170-10150 Rec 1'		
	Ø 10150-10130 Rec 1'		
	Ø 10130-10110 Rec 1'		
	Ø 10110-10090 Rec 1'		
	Ø 10090-10070 Rec 1'		
	Ø 10070-10050 Rec 1'		
	Ø 10050-10030 Rec 1'		
	Ø 10030-10010 Rec 1'		
	Ø 10010-9990 Rec 1'		
	Ø 9990-9970 Rec 1'		
	Ø 9970-9950 Rec 1'		
	Ø 9950-9930 Rec 1'		
	Ø 9930-9910 Rec 1'		
	Ø 9910-9890 Rec 1'		
	Ø 9890-9870 Rec 1'		
	Ø 9870-9850 Rec 1'		
	Ø 9850-9830 Rec 1'		
	Ø 9830-9810 Rec 1'		
	Ø 9810-9790 Rec 1'		
	Ø 9790-9770 Rec 1'		
	Ø 9770-9750 Rec 1'		
	Ø 9750-9730 Rec 1'		
	Ø 9730-9710 Rec 1'		
	Ø 9710-9690 Rec 1'		
	Ø 9690-9670 Rec 1'		
	Ø 9670-9650 Rec 1'		
	Ø 9650-9630 Rec 1'		
	Ø 9630-9610 Rec 1'		
	Ø 9610-9590 Rec 1'		
	Ø 9590-9570 Rec 1'		
	Ø 9570-9550 Rec 1'		
	Ø 9550-9530 Rec 1'		
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	Ø 9490-9470 Rec 1'		
	Ø 9470-9450 Rec 1'		
	Ø 9450-9430 Rec 1'		
	Ø 9430-9410 Rec 1'		
	Ø 9410-9390 Rec 1'		
	Ø 9390-9370 Rec 1'		
	Ø 9370-9350 Rec 1'		
	Ø 9350-9330 Rec 1'		
	Ø 9330-9310 Rec 1'		
	Ø 9310-9290 Rec 1'		
	Ø 9290-9270 Rec 1'		
	Ø 9270-9250 Rec 1'		
	Ø 9250-9230 Rec 1'		
	Ø 9230-9210 Rec 1'		
	Ø 9210-9190 Rec 1'		
	Ø 9190-9170 Rec 1'		
	Ø 9170-9150 Rec 1'		
	Ø 9150-9130 Rec 1'		
	Ø 9130-9110 Rec 1'		
	Ø 9110-9090 Rec 1'		

K

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REV 4036 LAB

43,002

NO 12 2001

$$\begin{array}{r} 26 \\ 26 \\ \hline 52 \end{array}$$

Lay rec'd
5-13-74

P.R. 7-2-73
(Morrow)
7-9-73 Drlg 3284'
7-16-73 Drlg 5499'
7-23-73 Drlg 8100' 1m
7-30-73 Drlg 10,298' 1m
8-6-73 Drlg 11,300' 1m & sh
8-13-73 Drlg 12,015'
Gas Kick @ 11,304-11,310'
8-20-73 Drlg 12,494'
DST (Strawn) 12,035-12,097', open 1 hr, DP
collapsed, 1 hr ISIP 2317#, FP 1011-1011#,
30 min FSIP 1507#, HP 6679-6640#, BHT 165' dag

LEA
READ & STEVENS

Wildcat
1 Eldson Com

NM Sec 17, T16S, R35E
Page #2

3-27-73
9-4-73

TD 13,085'; Rng logs
TD 13,085'; PBD 4634'; Swbg
Perf 4236-4248'
Acid (4236-4248') 15,000 gals
Swbd dry-
Acid (4236-4248') 750 gals
Swbd 40 BW + 20 BW

9-10-73

TD 13,085'; PLUGGED & ABANDONED
Swbd wtr

SAMPLE TOPS: Abo 890', Seaman 11,295', Strawn
12,125'

LOG TOPS: Anhydrite 1837', Salt 1948', Yates
3028', Queen 3930', San Andres 4706', Clearfork
6849', Wolfcamp Lime 9840', Cisco 11,098',

9-15-73

Atoka Shale 12,108', Morrow 12,645', Mississippian
13,040'
COMPLETION REPORTED

COUNTY LEA FIELD Townsend STATE NM 30-025-24098

OPR HERRIN, TCH, INC.

MAP

1 Humble "A" SEEP

Sec 16, T-16-S, R-35-E

CO-ORD

1980' PNL, 660' FWL of Sec

Spd 4-16-72

CLASS

40262

Cmp 6-16-72

FORMATION

DATUM

FORMATION

DATUM

CSG & SX TUBING

12 3/4" at 485' w/500 sx

8 5/8" at 4685' w/350 sx

5 1/2" at 11,960' w/300 sx

LOGS EL OR RA IND MC A

TD 11,960'

IP (Morrow) Perf 11,900-512' T 17 BOPD. Pot based on 24 hr test thru 1/4" chk. GOR 32,900; Grav 61; CP Pkr; TP 450#

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DATE

PROP DEPTH 12,600' TYPE RT

F.R. 4-17-72; Opr's Elev. 4015' GL

PD 12,600' RT (Pennsylvanian)

Contractor - Co. Rig

AMEND FIELD: Formerly reported as Undesignated

Drlg. 960'

Drlg. 4445'

Drlg. 6180'

Drlg. 7610' dolo & sh

TD 9427' lm & sh; Trip

Drlg. 10,888'

Drlg. 11,553'

DST 10,955-11,050', open 2 hrs, GTS 17" @ TSTM,

rec 1' oil + 330' SO&GCM, 1 hr 30 min ISIP 1281#,

FP 138-203#, 1 hr 20 min FSIP 5430#

TD 11,960'; Rng logs

TD 11,960'; Prep Perf

7-29-72

4-18-72

4-25-72

5-1-72

5-8-72

5-15-72

5-22-72

5-31-72

6-25-72

6-30-72

6-12-72

Continued

DST 11,816-960', open 2 hrs, GTS 30 min @
260 MCFGPD, rec 566' GCM + 90' GCM, 1 hr 30
min ISIP 2981#, FP 138-184#, 1 hr 20 min
FSIP 4505#, HP 6157-6182#

6-20-72

TD 11,960'; Flwg 1d
Perf 11,903-912' w/4 SFF
Acid (11,903-912') 250 gals MA
Acid (11,903-912') 2000 gals (7½%)

6-26-72

TD 11,960'; Tstg

7-17-72

TD 11,960'; Tstg

7-24-72

TD 11,960'; COMPLETE

LOG TOPS: Anhydrite 1875', Yates 3045', San
Andres 4640', Glorieta 6220', Tubb 7400',
Pennsylvanian 11,665', Mississippian 11,940'

566
90
656
-1914

7-29-72

COMPLETION REPORTED

566
90
656

SCOUT TICKET

MNO 2779

OUR NO.

Formerly the Pure No. 1 Lea State WBN

MNO 6627

Lea

New Marcia

Transend Woldcamp Recompletion

ELEV.

4014

OPERATOR T. P. Coal and Oil

FARM St. N.M. WJW

WELL NO. 3

SEC. 10 T. 16-S R. 35-E

SEC. BLK. SURVEY

LOC. FR. N. 660 FR. S. FR. E. 660 FR. W.

Re SPUD. 8-22-55 COMP. 9-26-55 T.D. 13048 del 10601

CONTRACTOR TP 10,500 Wellcamp

SHOT A/13,500

T. AN. PROD. IP F 25 BO 24 hrs

T. SALT GOR. 1928 GR. 41

B. SALT PRESSURE: CASING TUBING

T. YATES REMARKS: 2 1/2" 10.513

T. GRAYBURG Perf 10300-538

T. S. A.

T. GLOR.

T. C. F.

T. TUBES

T. MISS.

T. DEV.

T. SIL.

T. MONTGOMERY

T. SIMPSON

T. ELLEN.

STANDARD B & P "NOISE"

0			

5 1/2 10650 200

10,600' Test

8-24-55 TD 13048 .ol. CO @ 8300 OCT 19 1955

8-31-55 TD 13048 del PB 10601

TSTG

Perf 182 10500-538

w/500

SEP 7 1955 TD 13048 del PB 10601

Subq

Sub 48 Bo 24 hrs

A/3000 Perf 10000

SEP 14 1955 TD 13048 del PB 10601

S.T.

Sub 20 Bo 24 hrs

SEP 21 1955 Sub 21 Bo 24 hrs

T.D. 13048 del PB 10601 TSTG

F 19 Bo 16 hr 5 del

Sub 20 Bo 24 hrs

Sub 21 Bo 24 hrs

SEP 28 1955

5 1955

OCT 12 1955

INDIVID

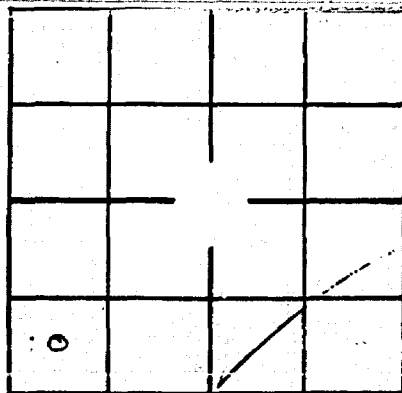
Dist. 4

SCOUT TICKET

OUR NO.

COUNTY Lea (3/4 mile SW of Stanolind Lse #45981)STATE New Mexico (Wildcat)

6627

ELEV. 401411 3/4 374 4508 1/2 4673 2550OPERATOR The Pure Oil Co.FARM State Lea #BnWELL NO. 1SEC. 10 T. 16-S R. 35-ESEC. BLK. SURVEYLOC. FR. N. 660 FR. S. FR. E. 660 FR. W.SPUD. 12-9-52 COMP. 6-20-53 T.D. 1326' Lbs 1.0CONTRACTOR TP

SHOT

T. AN. 12 3/4 PROD. IPT. SALT GOR. GR.B. SALT PRESSURE: CASING TUBINGT. YATES 3029 REMARKS:

T. GRAYBURG

T. S. A. 4543T. GLOR. 6190T. G. F. 6240T. TUBBS 2537T. MISS. 11910I. DEV. 12760T. SIL. 8060T. MONTOYA W.C. 9450T. SIMPSON FUSS.T. ELLEN Band 113015

MCKEE

Tec on BankCanyon 10607 Tewood 12820

12-4-52	14000' test, BR				
DEC 10 1952	RURT		MAR 11 1953		
DEC 17 1952	TD 3049 Lm Fish				
DEC 22 1952	φ 3967 Lm dol.				
JAN 6 1953	TD 4862 Lm R.D.S.T				
	DST 4780 - 4862				
	φ 1.30,				
	Rec 90 S.G.C.M		MAR 18 1953		
JAN 14 1953	φ 6170 Lm		MAR 25 1953		
	DST 4673 - 4862				
	φ 1.40				
	Rec 30 S.G.C.M				
JAN 21 1953	φ 7255 Lm				
JAN 28 1953	φ 8015 Lm Sh.				
FEB 4 1953	φ 8664 Lm				
FEB 11 1953	φ 9290 dol. Sh.				
FEB 18 1953	φ 9730 Lm				
FEB 25 1953	φ 10175 Lm				
MAR 4 1953	TD 10 402 Lm Sh. Fish				
	φ 10 273 - 279 Rec 5' Lm Sh.				
	φ 10 367 - 400 Rec 31'				
	14' dark Brown Lm, fractured				
	13' " " Lm Sh.				
	4' BLK Sh 1/4 Lm				

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[illegible]

IP (Wolfcamp) Perfs 10,045-054' P 51 BOFP. Pot based on 24 hr test. GOR 2980. Grav NR

1987 GL PD 10 054 WO

(Wolfcamp)

(Orig. Sinclair Oil & Gas Co.; comp 11-21-56 thru
(Devonian) Perfs 12,638-668', OGD 12,978', OPB
12,938'; OWO & Re-Cmp 8-16-58 dual thru (Strawn)
Perfs 10,954-998' & (Morrow) Perfs 11,347-435'. OPB
11,472'; OWO & Re-Cmp 3-15-73 thru (Strawn) Perfs
10,954-998', OGD 12,978', OPB 11,340'
OGD 12,978'; FAD 10,140'; Completion

1021-75

PB to 10,140'

Perf (Wolfcamp) 10,045-054' w/1 SPF

Acid (10,045-054') 500 gals

7-26-75

COMPLETION ISSUED

7-4-1 NM

A map of the Pacific Islands, with a small rectangle highlighting the study area in the western Pacific, near the Philippines and Taiwan.

END TOPS

COUNTY LEA FIELD Townsend STATE MN 02791
 OPR V-F PETROLEUM
 1 Dangle Gas Com
 Sec 15, T-16-S, R-35-E
 1980' FSL, 1980' FEL of Sec
 CLASS OWO 39972
 Re-Cap 3-16-72
 FORMATION DATUM FORMATION DATUM
 CSG & SX - TUBING
 13 3/8" at 325' w/350 sx
 9 5/8" at 4710' w/2000 sx
 7" at 12,978' w/500 sx
 LOGS EL OR RA IND HC A
 TD 12,978'; FBD 11,472'
 IP (Morrow) Perfs 11,417-435' CAOF 15,200 MCFGPD. GOR 13,900;
 Grav (gas) .636; (Cond) 62.6; SIWHP 3461#

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CONT. PROP DEPTH 11,435' TYPE WO
 DATE

4-4-72

F.R.C. 4-8-72; Opr's Elev. 3987' GL
 PD 11,435' WO (Morrow)
 (Orig. Sinclair Oil & Gas Co. #1 Dangle, F. J.
 comp 11-21-56 thru (Devonian) Perfs 12,638-668',
 OTD 12,978', OPB 12,938'; OWO & Re-Cap 8-16-58
 thru (Strawn) Perfs 10,954-980', OPB 11,472'
 TD 12,978'; FBD 11,472'; COMPLETE
 Sqzd (10,954-980') w/150 sx
 CO to 11,472'
 Perf 11,417-435' w/4 SPY

4-8-72

(Morrow) FOUR POINT GAUGES:
 Flwd 1299 MCFGPD, .750" orifice, 1 hr, TP 3355#
 Flwd 2415 MCFGPD, .750" orifice, 1 hr, TP 3196#
 Flwd 3774 MCFGPD, .750" orifice, 1 hr, TP 2971#
 Flwd 4889 MCFGPD, .750" orifice, 1 hr, TP 2730#
 COMPLETION REPORTED

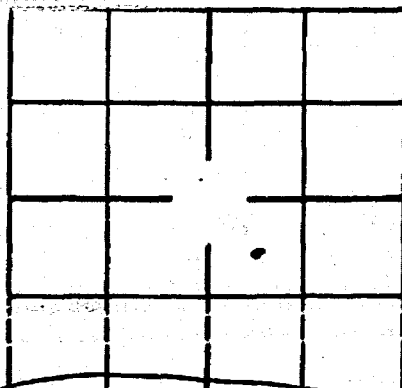
COUNTY TAA

DISCOVERY

STATE New Mexico

(Wildcat)

ELEV. 5117



See Back pg.

12 3/4 325 350

4 7/8 4710 2000

7" 12,978 500

13,200' Test

T. WOOD 12305

OPERATOR Sinclair Oil & Gas Co.

FARM F. J. Danglade

WELL No. 1

SEC. 15 T. 16-S R. 35-E

SEC. BLK. SURVEY

LOC. FR. N. 1980 FR. S. 1980 FR. E. 1980 FR. W. 1980

SPUD. 6-23-56 COMP. 11-21-56 T.D. 12978-1 FB 12978

CONTRACTOR A. Thomas TP 12632 D-4

SHOT A/2500

T. AN. PROD. IP F 484 BO 20

T. SALT GOR. 104 CO. 40.4

B. SALT PRESSURE: CASING 200 TUBING 900

T. YATES 3050 REMARKS: Thatch

T. GRAYBURG E-242 BO 12615

T. S. A. Humbly 4654 Port 12622-468

T. GLOR. 4470 6168 T. T. RIVERS

T. C. F. 7325 T. QUEEN 3960

T. TUBES 7325 T. FACHLER

T. MISS. 4422 4470 log T. DRINK

T. DEV. 12420 12424 log T. ARO 2045 8152

T. SIL. 12420 12424 log T. BONE SPR

T. MONTANA 12420 12424 log T. WOLF C. 9502 9415

T. SIMPSON 10255 T. PENN. 10255

T. ELLEN 10255 T. FUSS Coyote 10933

T. MCKEE

6-20-56	Location.	SEP 2 1956	
JUN 27 1956	<u>4 22.75 L.C. 8</u>		<u>11250.50.56</u>
JUL 3 1956	<u>4 42.85 Ave 6 Lm</u>	<u>12424</u>	<u>OST 10640-221</u>
JUL 11 1956	<u>4 51.36 Lm</u>	<u>8397</u>	<u>OP: 30 12912B</u>
JUL 18 1956	<u>4 65.58 Lm</u>	<u>8437</u>	<u>REC. W.B. + 10 M</u>
JUL 25 1956	<u>4 75.54 Lm 5d</u>		<u>EP 915 50.5ip 1205</u>
AUG 1 1956	<u>4 85.15 Lm</u>		<u>OST 10912-996</u>
AUG 8 1956	<u>4 94.60 Lm</u>		<u>OP: 45 2002 W.B.</u>
AUG 15 1956	<u>4 10.06.51 Lm 5b</u>		<u>Port. W.B. + 10.05 0.1</u>
	<u>OST 9640-9677</u>		<u>94.45</u>
	<u>OP: 30</u>		<u>EP 980-1110 50.5ip 1205</u>
	<u>REC. 1000 W.B. + 30 M</u>		<u>OST 10900 11.25</u>
	<u>EP 435 30.5ip 360</u>		<u>OP: 30 2002 W.B.</u>
AUG 22 1956	<u>4 10.71.19 Lm 5b</u>	SEP 12 1956	<u>OP: 30 2002 W.B.</u>
AUG 29 1956	<u>TD 10866 Lm OST</u>		<u>REC. W.B. + 25 M</u>
	<u>OST 10606-624</u>		<u>EP 435 30.5ip 360</u>
	<u>OP: 30</u>		<u>SEP 12 1956</u>
	<u>REC. 960 W.B. + 10 M</u>	SEP 19 1956	<u>well. Above out 623 @</u>
	<u>EP 430 50.5ip 360</u>		<u>11416 rest 4 10.5 M</u>
	<u>OST 10779-240</u>	SEP 26 1956	<u>CEPD with screen of oil</u>
	<u>OP: 145 1263 W.B.</u>		
	<u>REC. 1463 40.5ip 360</u>		
	<u>+ 60 0.55 CM</u>		
	<u>EP 900 30.5ip 1410</u>		

LOG

CT	Date	Time	Location	Remarks	Observer
CT 3	1956	11:52	10.1		
CT 1	1956	11:52	10.1		
CT 17	1956	12:10	10.1		
CT 24	1956	12:44	10.1		
CT 31	1956	12:42	10.1		
		12:43	10.1		
		12:45	10.1		
		12:47	10.1		
		12:49	10.1		
		12:51	10.1		
		12:53	10.1		
		12:55	10.1		
		12:57	10.1		
		12:59	10.1		
		13:01	10.1		
		13:03	10.1		
		13:05	10.1		
		13:07	10.1		
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		13:13	10.1		
		13:15	10.1		
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		13:19	10.1		
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		14:57	10.1		
		14:59	10.1		
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		15:03	10.1		
		15:05	10.1		
		15:07	10.1		
		15:09	10.1		
		15:11	10.1		
		15:13	10.1		
		15:15	10.1		
		15:17	10.1		

SCOUT TICKET

OUR N

DATE

COUNTY Lea CountySTATE New Mexico

Wildcat

MN02191 J

ELEV.

OPERATOR Sinclair Oil & Gas Co.FARM F. J. DangledeWELL NO. 1SEC. 15T. 16-S 2R. 35-ESEC. BLK.

SURVEY

LOC. FR. N 1980FR. S 1980

FR. E

FR. W

SPUD. COMP.

T.D.

PS

CONTRACTOR

TP

SHOT

T. AN. PROD. IPT. SALT GOR.

GR.

B. SALT PRESSURE: CASING

TUBING

T. YATES REMARKS:

T. GRAYBURG

T. 7-RIVERS

T. S. A.

T. QUEEN

T. GLOR.

T. PENROSE

T. C. F.

T. BROWN

T. TUBES

T. ASO

T. MISS.

T. BONE S.

T. DEV.

T. WOLF E.

T. SIL

T. PENN.

T. MONTOYA

T. FUSE

T. SIMPSON

T. MCKEE

T. ELLEN

NOV 11 1955

TD 12978 dnl Rva Csp

NOV 21 1956

TD 12978 dnl Rva Csp

DST 12766-82P

T37E

qp 1hr

Port 122 12630-62

Rc 1200 WD + 140.55 CM

PR 12457

EP 860 305ip 1670

1/1500 12630-62

DST 12626-92P

NOV 28 1956

TD 12978 dnl Rva Csp

qp 1hr

1/2000 12630-62

Rc 1200 WD + 60.55 CM

+ 60.55 CM

RSEA-955 305ip 505

2nd Re-comp

DST 12926-97P

12-13-71

qp 1hr

port 11417-435

Rc 1100 WD + 379.5 dnl W

EP 890-1250 305ip 1670

CAOF 15.2 mm

Side wall E 11433 Rc sd

+ 72 B Cond / m

gas odor

443

K

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IEA State Shore Ref. N. & Townsend 331

MESA PETROLEUM CO. 30-025-24895

1 Missouri State (M/Su)

Sec 14, T-16-S, R-35-E 5-22-A/E

1980' FSL, 1980' FWL of Sec 10,012' GL

8 mi N & 4 mi E/Buckeye 3980'

11-10-74 1-21-75 DO

13 3/8" at 358' w/375 sx
 9 5/8" at 4168' w/350 sx
 4 1/2" at 12,012' w/975 sx

PERFORATION	DEPTH	PERFORATION	DEPTH

12,012' (MSSP) 11,914'

IP (Wolfcamp) Perfs 10,416-426' F 343 BOPD. Pot based on 24 hr test thru 24/64" chk. GOR 1064; Grav 40; TP 160#

IP (Morrow) Perfs 11,849-869' F 2400 MCF/GPD. Pot based on 24 hr test thru 32/64" chk. TP 375#

Robinson Bros. 3980' GL, 3993' KB 12,200' RT

F.R. 10-28-74
 (Morrow)

3-29-75 AMEND FIELD NAME: Formerly reported as Townsend

11-11-74 TD 360'; WOC

11-18-74 TD 4168'; WOC

12-2-74 Drlg 8245' lm & sh

12-9-74 Drlg 10,140' lm & sh

12-16-74 Drlg 10,580' lm

12-30-74 TD 12,012'; Rng Logs "Tight"

2-24-75 TD 12,012'; "Tight"

3-3-75 TD 12,012'; PHD 11,914'; Complete

 Cored 10,406-454'; rec 37' 11" wiggly lm

 Cored 10,454-486'; rec 32' lm & sh

 DST 10,405-486'; Mis-Run

 DST 10,292-486'; open 3 hrs 2 mins, GTS in 28 mins @ 117 MCF/GPD, rec 9909' GIDP + 200' oil +

LEA
MESA PETROLEUM CO.

Shoe Bar, N. & Townsend NM
1. Monsanto State Page #2
Sec 14, T16S, R35E

3-3-75

Continued

120' G60CM, 2 hr ISIP 3924#, FP 532-1168#,
5 hr 3 min FSIP 3899#, HP 4756-4658#
DST (Strawn) 11,271-344', open 1 hr 30 mins,
(1310' WB), rec WB, 3 hr 2 min ISIP 1059#,
FP 640-640', no FSIP, HP 5286-5273#
Perf (Morrow) 11,849-869' w/2 SPF
Acid (11,849-869') 3000 gals
Flow 2400 MCFGPD in 24 hrs thru 32/64" chh,
IF 375# (11,849-869')
Perf (Wolfcamp) 10,416-426' w/2 SPF
Acid (10,416-426') 4000 gals
TD 12,012'; PBD 11,914'; COMPLETE
Morrow Completed 1-15-75

3-24-75

3-24-75

Continued

LOG TOPS: Yates 3112', Queen 3975', San
Andres 4720', Glorieta 6240', Tubb 7456',
Abo 8158', Wolfcamp 9523', Strawn 11,270',
Atoka 11,395', Mississippian 11,892'

3-29-75

COMPLETION REPORTED

[illegible]

IP (Abo) Perfs 8724-86' P 101 BOPD + 110 BW. Pot based on
24 hr test. GOR 1000; Grav 33

COMM-F-11 Unit, Inc. 3984' DE 9200' TYP. HC

FR 2-5-73

(Abd)

(Orig. Western Natural Gas Co., #1 Eidson "D",
comp 10-21-57 thru (Devonian) Perfs 12,680-
726', OTD 12,780', OPB 12,779'; OWWO & Re-Cmp
10-7-61 thru (Pennsylvanian) Perfs 10,460-484',
OPB 10,500'; Plugged Producer 5-8-67)

TD 12,780'; PRD 8850'; COMPLETE
CO to 8850'

Perf (Abo) 8724-38', 8773-86' w/1 SPF
Acid (8724-86') 11,500 gals

COMPLETION REPORTED.

SCOUT TICKET

OUR NO.

9746

ELEV. 3984

COUNTY LeaSTATE New Mexico

Shoe Bar Devonian

MNO 2805

STANDARD B & P "NOTES" (R)

13" 327 400

9 5/8 4920 5000

5 1/2 12779 900

12,750' Test

DATE	LOC.	TIME	TIME
6/27/57	Loc.	SEP 11 1957	φ 11.303 in. sh
AUG 2 1957	TD 327 RB RURT	SEP 18 1957	φ 11.699 in. sh
AUG 10 1957	φ 4023 in	SEP 25 1957	φ 12.060 in
AUG 17 1957	φ 4707 in	OCT 2 1957	φ 12.372 in. sh
	E 4031 - 4071 Pcc	OCT 9 1957	TD 12705 chl. TEST
	40 dense sdy in	OCT 16 1957	TD 12780 in Run in
AUG 24 1957	φ 5173 in		TEST 12688 - 705
AUG 31 1957	φ 5949		PHR failed
AUG 7 1957	φ 8290 in		TEST 12689 - 705
AUG 14 1957	φ 9000 in		φ 1.10 1000 wlb
AUG 21 1957	φ 10071 in		Rec. wlb + 100 M
AUG 28 1957	TD 10305 in Run logs		ED 512
SEP 4 1957	φ 10848 in. sh		TEST 12689 - 705
	TEST 10450 - 526		φ 1.47 1000 wlb
	φ 1.15 1000 wlb		Rec. wlb + 20 M
	PHR failed		FP 470 30.5 in. 6.15
	Rec. wlb + 500 50' 6 CM		TEST 12689 - 730
	+ 370 M + 500 GCM		φ 1.45 1000 wlb
	TEST 10412 - 528		Rec. wlb + 90 M
	φ 1.36 1000 wlb		FP 560 - 580 30.5 in. 4.50
	G:33		TEST 12702 - 780
	Rec. 1000 0' 6 CM wlb + 300		φ 1.65 1000 wlb
	oil + 620 40' 6 CM		G 2' 40
	FP 60.5 - 82.5 30.5 in. 27.65		Rec. wlb + 480 Dist
			2.121 100.411

RD B & P "NOTES" (R)

OPERATOR Western Natural Gas Co.FARM EidsonWELL NO. 1SEC. 26 T. 16S R. 35ESEC. BLK. SURVEYLOC. 1980 FR. N. FR. S. FR. E. 990 FR. W.SPUD 6-30-57 COMP. 4-12-57 T.D. 12780 in FB 12779CONTRACTOR Rot. Parker Dole TP 12680 Rev.SHOT 4/5000T. AN. 1481 PROD. IP E 536 10 + 91.2 in.T. SALT 2054 GOR. GR. 520

B. SALT. PRESSURE: CASING TUBING

T. YATES 5180 REMARKS: good 2"T. GRAYBURG Ref 12680 - 705T. S. A. 4788T. GLOR. 6254

T. J. RIVERS

T. C. F. 6877T. QUEEN 4044T. TUBBS 7497

T. PENROSE

T. MISS 10942 11820

T. DRINK

T. DEV. 12686 12779T. AND 12400

T. GIL

T. GUNE SIB

T. MONTOYA

T. WOLF 5512

T. SIMPSON

T. PENN. Canyon 10676

T. ELLEN

T. FUSS 5180 11876T. word 12532T. MCKEE Bend 11300

LOG

12/31/1957	EP 625-730	50 C in 4055	
	TO 12780	3069	
	Pent 51	12650-694	
	" 80	12704-726	
	A/5000		
	F 63 RD +21	Atwood 56m	
30 1957			
T. Army.	1412	-2092	
T. Dr. La.			YB 1412 & 1412
T. Fates	3152	-3152	
T. Owen	4033	-51	
T. S. Andres	4727	-803	
T. Claretta	4272	-1288	
T. Spring			
T. Dr. Sa.	7415	-3211	
T. Lm	1212	-4239	
T. W. A. P.	1172	-5126	EDP TONS
B. Parrish			
T. Penn. S.R.	11232	-7248	
T. Kues.	11230	-7226	
T. Woodford	12533	-577	
T. Devonian	12678	-8794	
T. U. Sil.			
T. Fues.			
T. Montoya			
T. Stinson			
T. P. H.			
T. El.			
T. Gra.			

F

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WELL CLASS	INITIALS	DIGIT	ELEVATION
STANDARD	STANDARD	STANDARD	4002568
			4002568
ID 12,900'	(CSTR)	PWD	12,866'

3

5/22/79
Loy Reid

(Morrow)

12-8-78 TD 425'; Rep BOP
12-11-78 Drlg 1070'
12-28-78 Drlg 4470'
1-5-79 Drlg 4579' anhy
1-12-79 Drlg 7008' cht
1-19-79 Drlg 9270' sh
1-26-79 Drlg 11,010' sh
2-1-79 Drlg 12,260' im & sh
2-9-79 TD 12,404'; "Tight"
2-13-79 Drlg 13,468' "Tight"
2-23-79 TD 12,900'; Prep Run Csg
DST (Morrow) 12,180-316', open 38 mins, rec 1500'
WD : 90' DF, 1 hr 38 min ISIP 1191#, FP 829-782#,
1 hr 30 min FSIP 902#, HP 6325-6312#, BHT 183 deg
4-4-24 NM

LEA
AMOCO PRODUCTION CO.

Townsend
1 State "GH"
Sec 21, T16S, R35E

NM
Page #2

2-26-79 TD 12,900'; MORT
3-9-79 TD 12,900'; PBD 12,866'; SI/BHP
Perf (Morrow) 12,611-627' w/4 SPF
Flwd 1100 MCFGPD in 11 hrs thru 30/64"
chk, TP 4800# (12,611-627')
3-29-79 Perf (Morrow) 12,392-410' w/2 SPF
TD 12,900'; PBD 12,866'; WOSP
Flwd 11,000 MCFGPD in 24 hrs thru 20/64"
chk (12,392-627')
4-23-79 TD 12,900'; PBD 12,866'; Complete
Natural
LOG TOPS: San Andres 4808', Glorieta 6327',
Tubb 7575', Wolfcamp 9742', Cisco 10,719',
Strawn 11,790', Atoka 11,934', Morrow
4-4-24 NM

4-23-79 Continued
12,240', Chester 12,848'
LOGS RUN: CNDL. DILL
4-28-79 Rig Released 2-25-79
COMPLETION ISSUED

4-4-24 NM
IC 30-025-70409-78

K

3

WELL CLASS: INIT D FIN		D ELEV 402 IDEAS	
TERMINATION	DATUM	TERMINATION	DATUM
			402H OR
110 13.309'	(MRRW)	PHD	

DRY & ABANDONED

CONTR	MGF #26	EXPENSE	4008' GL	PD	13,000' RT
-------	---------	---------	----------	----	------------

3

4-6-79 TD 408'; WOC
4-16-79 TD 4920'; Trip
4-20-79 TD 5203'; Prep Drill
4-30-79 TD 8730'; Trip
5-4-79 Drlg 10,115' lm
5-10-79 Drlg 11,301' lm & sh
DST (Cisco) 11,150-246', open 2 hrs 30 mins,
rec small amt FO + 1300' WB (Sampler rec 450
CFG + 100 cc's oil + 950 cc's GGM @ 450#), 1 hr
30 min ISIP 1761#, FP 678-678#, 2 hr 30 min FSIP
1108#, HP 5905-5905#, BHT 164 deg
5-18-79 Drlg 12,393' lm & sh
5-23-79 TD 12,910' lm & sh; Rng DST
6-1-79 TD 13,001'; PBD 8400'; Prep Run Dynadrill

9-3-12 NM

LEA
AMOCO PRODUCTION CO.

Townsend
1 State "HC"
Sec 21, T16S, R35E

NM
Page 2

6-1-79 Continued
DST (Morrow) 12,704-13,001', open 1 hr,
rec 3000' WB + 75' DM (Sampler rec 2.1 CFG +
1700 cc's mud @ 1050#), 1 hr. ISIP 2750#, FP
1585-1607#, 2 hr FSIP 4171#, HP 7468-7377#,
BIII 190 deg
6-8-79 TD 13,001'; ST-TD 9213' Trip
PB to 8400' & Drilled off
6-15-79 TD 13,001'; Drlg by @ 9725' 1m
6-22-79 TD 13,001'; Drlg by @ 10,522' 1m
6-29-79 TD 13,001'; Drlg by @ 11,334' 1m & sh
7-6-79 TD 13,001'; Drlg by @ 11,874' 1m & sh
7-11-79 TD 13,001'; Drlg by @ 12,447' 1m & sh
9-3-12 NM

7-20-79 Drlg 13,171'
7-25-79 TD 13,309'; D&A
9-10-79 TD 13,309'; Dry & Abandoned
9-15-79 Will Re-Issue If Log Tops Become Available
COMPLETION ISSUED

9-3-12 NM
IC 30-025-70093-79

② Petroleum Information.

RE-ISSUED COMPLETION

COUNTY LEA FIELD Shoebar, S. STATE NM
 OPR HNG OIL CO. API 30-025-26186
 NO 1 LEASE N. M. State "28" MAP
 Sec 28, T16S, R35E, 2710 FUL CO-ORD
 660' FSL, 1980' FEL of Sec 4-2-5 NM
 17 mi NE/Maljammar SPI 1-21-79 CMP 3-5-79

13 3/8" at 412' w/500 sx
 9 5/8" at 4868' w/2750 sx
 5 1/2" at 13,055' w/1050 sx

WELL CLASS: INIT WF IN DG ELEV			
FORMATION	DATUM	FORMATION IN	DATE IN

TD 13,055' (MRRW) PBD 12,969'
 IP (Atoka) Perfs 12,453-482' CAOP 8173 MCFGPD. GOR Dry; gty
 (Gas) .630; SIWHP 4756#; SIBHP 6190#

CONTR Parker #38 OPR ELEV 3990' GL PD 13,100' RT

F.R. 1-15-79
 (Atoka)
 1-23-79 TD 408'; WOC
 1-30-79 Drlg 2718'
 2-5-79 TD 4868'; Rng 9 5/8" Csg
 2-12-79 Drlg 7963'
 2-19-79 Drlg 10,665' lm & sh
 2-27-79 Drlg 12,365' lm & sh
 3-5-79 TD 13,055'; WOCU
 3-12-79 TD 13,055'; PBD 12,969'; SI
 Perf (Morrow) 12,453-482' (overall)
 Acid (12,453-482') 3000 gals (15%)
 Flwd 2600 MCFGPD thru 13/64" chk, TP 3500#
 (12,453-482')
 3-19-79 TD 13,055'; PBD 12,969'; SI
 3-26-79 TD 13,055'; PBD 12,969'; SI
 4-2-79 TD 13,055'; PBD 12,969'; SI

4-2-5 NM

LEA
HNG OIL CO.

Shoebar, S.
1 N. M. State "28"
Sec 28, T16S, R35E

NM
Page #2

4-9-79

TD 13,055'; PBD 12,969'; Complete
(Atoka) FOUR POINT GAUGES:
Flwd 349 MCFGPD, 1.5" orifice, 60 mins,
TP 4692#
Flwd 719 MCFGPD, 1.5" orifice, 60 mins,
TP 4592#
Flwd 1331 MCFGPD, 1.5" orifice, 60 mins,
TP 4395#
Flwd 2538 MCFGPD, 1.5" orifice, 60 mins,
TP 3947#
LOG TOPS: Yates 3210', San Andres 4890',
Glorieta 6394', Tubb 7665', Wolfcamp
9815', Pennsylvanian 11,338', Strawn
11,870', Atoka 12,040', Mississippian
12,942'
4-2-5 NM

4-14-79
4-28-79

COMPLETION ISSUED
RE-ISSUE TO AMEND FIELD NAME & LEASE
NAME: Formerly reported as Wildcat &
State "28"

4-2-5 NM
IC 30-025-70003-79

4th Well Number			
State	County	Unique	S/N

WI	☐	RI	☐
OWNWO	☐	Expl. Auth.	☐
OFF. WI	☐	OFF. RI	☐
Other	☐		
WC	☐	IMP	☐

Map No. _____

[illegible]

COUNTY	LEA	FIELD	Townsend	STATE	NM
OPR	DORCHESTER EXPLORATION, INC.			API	30-025-26285
NO	1	LEASE	Edison Com.	MAP	
Sec 28, T16S, R35E			CROSS		
1980' FNL, 1980' FEL of Sec					
7 mi N/Buckeye					
CSC	WELL CLASS		INIT	FIN	ELEV
	FORMATION		DATUM	FORMATION	DATUM
ID		FND			

CONTR F.R. 4-2-79
(Morrow)
8-20-79 AMEND LOCATION: Formerly reported as 660'
FNL, 1980' FNL of Sec

(see back)

IC 30-025-70119-79

TOWNSEND (Morrow): (4-2-79); 13,000' RT; ne nw Sec 28-164-35e; 1980' FNL, 1980' FEL Sec; 7 mi N/Buckeye; Opr's Elev: 3999' GL; Contr/Forster 84;
WELL HISTORY: Spud 9-5-79; 13-3/8" 474'/450' sx; 9-5/8" 4600'/1220' sx; DST (CSC) 10,850-920'; op 1 hr w/weak blow, rec 2000' WB w/tr Oil + 180' Mud (Sampler rec 1.4 CFG @ 650' + 2000 cc's GCM); 1 hr ISIP 4057#; FP 902-928#; 1 hr 30 min FSIP 3500#; HP 4995-4995#; BHT 160 deg; DST (ATOK) 12,185-600'; op 1 hr w/weak blow, rec 4000' WB + 10' CCDI (Sampler rec 3 CFG + 800 cc's DM @ 1200#); 1 hr ISIP 2893#; FP 1794-1794#; 1 hr 30 min FSIP 4723#; HP 6828-6809#; BHT 176 deg; DST (MRRW) 12,651-13,050'; op 3 hrs 5 mins w/good blow; GTS in 50 mins @ 3450' MCFGPD decr to 2320' MCFPD thru 1/2" chk; rec 2500' cond CwB (Sampler rec 8.85 CFG + 150 cc's cond @ 1200#); 1 hr 30 min ISIP 7210#; FP 1881-1528#; 4 hr FSIP 6548#; HP 7322-7504#; DST-SP (ATOK) 12,436-604'; op 1 hr 5 mins w/wk Blow; rec 3970' WB (Sampler rec 2000 cc's mud); 2 hr ISIP 3004#; FP 2647-1875#; 2 hr FSIP 2352#; HP 7297-7211#; BHT 240 deg;
COMPLETION INFORMATION: TD 13,050' (MRRW); SUSPENDED OPERATIONS 2-18-80
LOG TOPS: None
LOGS RUN: DILL, CNDL, MINL, GRL

RE-ISSUED COMPLETION

LEA	Undesignated	State NM
NAME HNG OIL CO.	API 30-025-26261	
1 11AM NM 33 State Com.	MAP	
Sec 33, T16S, R35E	COORD	
1980' FNL. 660' FEL of Sec	9-4-8 NM	
17 1/2 mi W/Malimar	SPD 3-9-79	CMP 9-15-79
13 3/8" at 420' w/500 sx	WELL CLASS: INIT D FIN D ELEV L & S	
9 5/8" at 4850' w/3500 sx	FORMATION	DATUM
5 1/2" at 12,892' w/650 sx		
	TD 13,000' (MSSP)	POD

DRY & ABANDONED

DATE 3-9-79 3981' GL PD 13,000' RT

- F.R. 3-12-79
(Morrow)
- 9-22-79 AMEND LEASE: Formerly reported as Shoebar Ranch "33"
- 3-12-79 Drlg 2153'
- 3-19-79 Drlg 4745' anhy & dolo
- 3-26-79 Drlg 6900' dolo
- 4-2-79 Drlg 9525' lm, sh & dolo
- 4-9-79 Drlg 11,250' lm, sh & dolo
- 4-16-79 Drlg 12,970' lm & sh
- 4-23-79 TD 13,000'; Prep Test
Perf (Morrow) 12,440-444' w/8 shots
Acid (12,440-444') 4000 gals
- 4-30-79 TD 13,000'; Recg Ld
Frac (12,440-444') 27,000 gals + 14,000# sd
- 5-7-79 TD 13,000'; Jetting Ld

9-4-8 NM

LEA
OIL CO.

Undesignated
1 NM 33 State Com.
Sec 33, T16S, R35E

Page #2

5-21-79 TD 13,000'; PBD 12,418'; Prep Acid
Perf (Morrow) 12,404-409' w/2 SPF
6-4-79 TD 13,000'; PBD 12,418'; SD
Acid (12,404-409') 5000 gals (7 1/2%)
Jetted dry in 14 hrs (12,404-409')
Sqzd 12,404-409' & DOC to 12,418'
Perf (Morrow) 12,040-048', 12,064-072'
Acid (12,040-072') 5000 gals
Swbd 3 BWPH w/SG (12,040-072')
6-18-79 TD 13,000'; PBD 11,670'; SI
PB to 11,670'
Perf (Morrow) 11,300-333' w/12 shots (overall)

9-4-8 NM

6-18-79 Continued
Acid (11,300-333') 5000 gals (15%)
Swbd 1d w/SG (11,300-333')
7-9-79 TD 13,000'; PBD 10,180'; SI
Set BP @ 10,771'
Perf (Morrow) 10,256-262', 10,296-299',
10,338-344' w/1 SPF
Acid (10,256-344') 4500 gals (15%)
Swbd 50 BF w/SEC (10,256-344')
Set BP @ 10,180'
Perf (Morrow) 10,113-118' w/2 SPF
Acid (10,113-118') 4250 gals (15%)
Swbd 90 BF w/NS in 10 hrs (10,113-118')
10-15-79 TD 13,000'; Dry & Abandoned
9-22-79 TEMPORARY COMPLETION ISSUED
10-20-79 RE-ISSUE OF SUSPENDED COMPLETION

9-4-8 NM
IC 30-025-70089-

PTA 10-7-74

LEA
GREAT WESTERN DRILG. CO.

Eidson NM Sec 7, T16S, R35E
1 Harrod, E. L. Page #2

1-22-73 Continued
2 hr ISIP 5008#, FP 893-1957#, 7 hr FSIP 4796#,
HP 5472-5430#
1-29-73 TD 12,297'; Trip
DST 11,995-12,025', open 1 hr 30 mins (1027' WB;
rec WB + 10' mud, 1 hr ISIP 858#, FP 470-470#;
2 hr FSIP 166#
2-5-73 Drilg 12,625' lm, sh & sd
2-12-73 TD 13,060'; Prep PB
DST 12,888-962', open 2 hrs, rec 2400' WB + 93'
DM, 1 hr ISIP 3702#, FP 1139-1182#, 3 hr FSIP
3745#, HP 6772-6691#
SP-DST 11,240-312', Pkrs Failed
Ran Logs to TD

2-20-73 TD 13,060'; PBD 11,382'; WOCU
PB to 11,382'
DST 11,240-382', Missrun
Ran 4 1/2" csg
2-26-73 TD 13,060'; PBD 11,382'; Tstg
Perf 11,268-294' w/1 SPF
Acid (11,268-294') 500 gals MA
Flwd 105 BO + 1900 MCFGPD to 1195 MCFGPD in 3
hrs thru 1/4" chk, TP 600#
3-5-73 TD 13,060'; PBD 11,382'; Tstg
3-12-73 TD 13,060'; PBD 11,382'; SIWHP
3-19-73 TD 13,060'; PBD 11,382'; Prep Test
3-26-73 TD 13,060'; PBD 11,382'; SI
4-2-73 TD 13,060'; PBD 11,382'; SI
Flwd 273 BOPD in 24 hrs thru 1/4" chk, TP 790#
4-9-73 TD 13,060'; PBD 11,382'; ST

LEA
GREAT WESTERN DRLG. CO.

Edison NM Sec 7, T16S, R35E
1 Harrod, E. L. Page #3

4-16-73

TD 13,060'; PBD 11,382'; COMPLETE
LOG TOPS: Anhydrite 1787', Yates 2973',
Glorieta 6210', Yeso 6547', Clearfork 6769',
Tubb 7375', Abo 8033', Canyon 11,160', Strawn
11,919', Lower Atoka 12,193', Morrow Sand 12,923',
Chester 13,018'
COMPLETION REPORTED

4-21-73

SCOUT TICKET

OUR NO.

0242

ELEV.

4037

COUNTY LeaSTATE New Mexico

(Townsend Wolfcamp)

MN02757

OPERATOR Shell Oil CompanyFARM State WETAN WELL NO. 2SEC. 8 T. 16-S R. 35-ESEC. BLK. SURVEYLOC. FR. N. 1980 FR. S. 660 FR. E. FR. W.SPUD 6-24-55 COMP. 8-25-55 T.D. 10537'w PB 10472'CONTRACTOR TP 10377 WolfcampSHOT 1/2000T. AN. PRCD. 12 F 370 2000T. SALT GOR. 1177 GR. 40B. SALT PRESSURE: CASING 0 TUBING 560T. YATES REMARKS: 242 Ch 2 10489T. GRAYBURG F 240 RD 10489T. S. A. Perf 10377-468

T. GLOR.

T. C. F. T. 7 RiversT. TUBBS T. QueenT. MISS. T. D-1T. DEV. T. AboT. SIL. T. Wolf C.T. MONTOYA T. PennT. SIMPSON T. FussT. ELLEN T. McKee

STANDARD E&P "NOBAR"

6-29-55 RURT 10,600' Test

7-6-55 d. 9576 AnJUL 13 1955 d. 4581 cm AnJUL 20 1955 d. 4581 cm AnJUL 27 1955 d. 6144AUG 3 1955 d. 7910 cmAUG 10 1955 d. 9125 cmAUG 17 1955 d. 10178 cmAUG 24 1955 TD 10550 cm Sh. Perf. CapAUG 31 1955 TD 10537 cm Perf. 10472'SLM 10550-537Perf 364 10377-468w/500 A/1500

PD B&P "NOBAR"

COUNTY LEA FIELD Wildcat

STATE NM MN 02757

OPR AVANCE OIL & GAS CO.

MAP

2 State "ETA"

Sec 8, T-16-S, R-35-E

CO-ORD

1980' FSL, 660' FEL of Sec.

Re-Spd 6-1-69

Re-Cmp 9-4-69

CLASS

OWDF

BL 40372

CAS & EX. TUBING

13 3/8" at 366' w/400 sx

8 5/8" at 4690' w/3450 sx

5 1/2" at 10,537' w/450 sx (Pulled)

5 1/2" at 10,004' w/425 sx

4" Inr 12,886-13,363' w/60 SX

LOSS EL OR RA IND MC A

FORMATION

DATUM

FORMATION

DATUM

TD 13,365'; PBD 11,900'

IP (Morrow) Perfs 11,770-786' CAOF 6891 MCFGPD. GOR 124,069;
 Grav (cond) 53.6; Grav (gas) .631; SIWHP 4802#.

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CONT. CACTUS
DATE

PROP MAP IN

Comp. Acquis. Vels
 Ind. Etc.
 Perfor. Caliper

F.R. 5-27-69

PD 13,500' RT (Devonian)

Contractor - Cactus

(Orig. Shell Oil Co. #2 State "ETA", comp
 8-25-55 thru Perfs 10,377-468', OTD 10,537',
 OPB 10,497')

10-9-69

AMEND OPERATOR, Formerly reported as WILLIAMSON,
 BRUNNER & DUNLAP.

6-2-69

TD 10,537'; CO @ 5200'

6-9-69

TD 10,537'; Drig. by @ 7111'
 Whipstock @ 6714'

6-16-69

TD 10,537'; Drig. by @ 9123' 1m

6-23-69

Drig. 11,050' 1m, sh & chr

6-30-69

TD 11,548' sh & sd; On Trip

DST 11,118-207', open 2 hrs, CTS 28 min,
 rec 9000' GIDP + 530' O&GCM, no ISIP, FP 173-224#,
 4 hr FSIP 3705#

7-7-69

TD 11,795'; Prep Drill
DST 11,684-722', open 5 hrs, Pkr Failed
DST 11,653-722', open 4 hrs (1000' WB)
GTS 12 min @ 260-216 MCFCGP, rec WB + 270'
GCM & cond, no ISIP, FP 464-517#, 4 hr FSIP
5764#
DST 11,653-795', open 35 min (1000' WB),
G&WBTS during 5 min pre-flow, show cond to
surface in 16 min & heading @ end 35 min
Flwd 5.5 MMFCGP in 7 min thru 1" chk,
SFP 100#
Flwd 8.0 MMFCGP in 12 min thru 1" chk,
SFP 300#
Flwd 11.0 MMFCGP in 18 min thru 1" chk,

7-7-69

Continued
SFP 450#
Flwd 13.0 MMFCGP in 28 min thru 1" chk,
SFP 500#
Flwd 14.2 MMFCGP in 35 min thru 1" chk,
SFP 552#
Rec 100' cond, 30 min ISIP 6318#, FP 1980-
3185#, 1 hr 40 min FSIP 6243#

7-14-69

TD 12,264' lm & sh; On Trip

7-21-69

Drig. 12,670' lm

7-28-69

TD 13,004'; WOC

8-4-69

TD 13,104'; Circ

8-12-69

DST @ 13,104' Drill Pipe Leaked

Drig. 13,237' lm

SIC
DST 13,004-104', open 3 hrs 5 min, GTS lined,
@ 100 MCFCGP, SFP 72-26#, rec 4752' GCO + 391'
O&GCM (Sampler rec 660 cc's oil + 9 CFG),
1 hr ISIP 4250#, FP 796-1735#, 6 hr FSIP 2334#

LEA Wildcat NM Sec 8. T168. R35E
ADVANCE OIL & GAS CO. 2 State "WTM" Page 44

10-6-69

TD 13,365'; PBD 11,900'; COMPLETE
FOUR POINT GAUGES :
Flwd 3170 MCFGPD thru 2.00" orifice, 270 min,
TP 4050#
Flwd 4158 MCFGPD thru 2.00" orifice, 75 min,
TP 3547#
Flwd 5046 MCFGPD thru 2.00" orifice, 120 min,
TP 2775#
Flwd 5838 MCFGPD thru 2.00" orifice, 90 min,
TP 2165#
SAMPLE TOPS: Atoka 11,760', Lower Mississippian
12,180', Woodford 12,896', Devonian 13,034',
Silurian 13,325'
(Morrow Discovery)

10-9-69

COMPLETION REPORTED

8-12-69

Continued

DST 13,004-127', open 3 hrs 5 min, rec 5500' GCO
 (Sampler rec 1120 cc's oil (grav 59.7), GOR
 1900 @ 900# PSI), 1 hr ISIP 3944#, FP 853-1691#,
 6 hr FSIP 2231#

DST 13,004-127', Pkrs Failed

DST 13,004-200', open 1 hr 5 min, rec 2430'
 OGCM + 1800' cond (Sampler rec 184) cc's oil
 & GCM + 9 CPG), 1 hr ISIP 3573#, FP 715-1151#,
 2 hr FSIP 2707#

8-18-69

TD 13,365'; PBD 13,360'; Prep Perf

DST 13,004-365', open 2 hrs 5 min, rev out 10
 BGCM w/trace oil + 5 BGSCM + 20 B salt wtr,
 Pkr Stuck, 1 hr ISIP 5041#, FP 719-5041#,
 4 hr FSIP 5029#
 Ran 4" Liner

8-25-69

TD 13,365'; PBD 13,226'; MORT

Perf 13,043-055', 13,069-077', 13,128-131',
 13,143-146', 13,154-158', 13,179-185' w/2 SPF

9-3-69

TD 13,365'; PBD 13,226'; Prep PB to Morrow
 Swbd 75 BLW + dist CM + sli show gas,
 Swbd dry (13,043-185')

Acid (13,043-185') 5000 gals (MCA)

Swbd 10 BF (50% dist + 50% AW) (13,043-185')

Acid (13,043-185') 5000 gals (15%) NE

Swbd dry (13,043-185')

9-8-69

TD 13,365'; PBD 11,900'; Prep Potential
 PB to 11,900'

Perf 11,770-785' w/2 SPF

Flwd gas @ 7.4 MMCFGPD

9-16-69

TD 13,365'; PBD 11,900'; WO Potential

9-29-69

TD 13,365'; PBD 11,900'; WO Potential

151
 151

104
 34
 70
 100
 GTS @ 100
 Perf

SCOUT TICKET

COUNTY LasSTATE New Mexico (Townsend Wolfcamp)

MN02761

CUR NO.

8135

ELEV. 4019

			0

OPERATOR Gulf Oil Corp.FARM Hulda TownsendWELL NO. 2SEC. 9 T. 16-S R. 35-ESEC. BLK. SURVEYLOC. FR. N. 2310 FR. S. 660 FR. E. FR. W.SPUD 11-9-55 COMP 12-15-55 T.D. 22650 lmbCONTRACTOR Rot. McVey & Stafford TR 10533 WolfcampSHOT W/500T. AN. 1824 PROD. IP F 100 BO + 4 Row 28T. SALT 1907 COR. 39.8B. SALT 2960 PRESSURE: CASING 250 TUBING 220T. YATES 2960 REMARKS: 74Ch 2" 10630

T. GRAYBURG

T. S. A. 5659T. GLOR. 6205T. C. F. 7344T. TUBBS 7344T. MISS. 7344T. DEV. 7344T. SIL. 7344T. MONTROIA 7344T. SIMPSON 7344T. ELLEN 7344

T. 7 Rivers

T. Quinn 4112

T. Drink

T. Abo 8080T. Wolf C. 9500 9520

T. Penn

T. Full

T. McKee

13 1/2 374 3258 1/2 4599 26505 1/2 10544 120

	10-5-55	10.650' test. Location
OCT 12 1955	<u>φ 376 RB</u>	
OCT 19 1955	<u>φ 4075 Ar</u>	
OCT 26 1955	<u>φ 5100 lmb</u>	
NOV 2 1955	<u>φ 5253 lmb</u>	
NOV 9 1955	<u>φ 7954 lmb</u>	
NOV 16 1955	<u>φ 9210 lmb</u>	
NOV 22 1955	<u>φ 10640 lmb</u>	
NOV 30 1955	<u>φ 10530 3h</u>	
DEC 7 1955	<u>TD 10650 lmb. 109</u>	
	<u>257 m417.595</u>	
	<u>21 31.5 6:30</u>	
	<u>Rec. HO 0.5CM + 180</u>	
	<u>11</u>	
	<u>11 150-275 1550-2125</u>	
DEC 14 1955	<u>TD 10650 lmb. 3wdg</u>	
DEC 21 1955	<u>TD 10650 lmb. 3wdg</u>	
	<u>3wdg dry</u>	
	<u>W/500</u>	

1EA
GULF OIL CORP.

Townsend
#2 Hulda Townsend
Sec 9, T16S, R35E

NM
Page #2

4-10-74 Drilg 11,844' sd, lm & sh
4-17-74 TD 11,919'; LD DP
4-24-74 TD 11,919'; Prep Test
5-1-74 TD 11,919'; 1stg
Perf 11,632-789' w/12 shots (overall)
Acid (11,632-789') 1585 gals (KCL)
Swbd dry (11,632-789')
5-7-74 TD 11,919'; Prep Test
Swbd dry (11,632-789')
5-15-74 TD 11,919'; PB 11,569'; WD Pot
PB to 11,569'
Perf 11,374-390' w/4 SPF

5-15-74 Cont'd
Acid (11,374-390') 1000 gals (15% NEA)
Flwd 339 BO + 53 BW in 16 hrs (11,374-390')
5-20-74 TD 11,919'; PB 11,569'; COMPLETE
5-25-74 COMPLETION REPORTED

COUNTY FA FIELD I WL-213 STATE TX
 OPER GULF CO. CORP. API NO 02761
 NO 2 LEASE Holds T. W. Reed SERIAL WOT 001/50
 Sec 9, T-16-S, R-4-E
 2310' FSI, 650' DEPT 1 S.

Re- CSO	Re- CSO	CLASS	D.T.	ELEV	L.S.
2-13-74	5-10-74	FORMATION	DATUM	FORMATION	DATUM
13 3/8" at 374' w/375 sv					
9 5/8" at 4599' w/2650 sk					
5 1/2" at 10,523' w/150 sk					
4 1/2" Lnx at 9991-11,919' w/10 =					
		TO 11,919'	(811X)	POD 11,569'	

IP (Strewn) Peris 11,374-390' 1wd 24" KOPA + 111 RW.
 Pot based on 24 hr test thru 24/64" sk. GOR (NA), 614V (NA),
 CP Pkr, TP 650'

CONTR Capitar OPER ELEV 1009' CL 40.9' DT PD PD 11,901' TYPE RT

*Log need.
15-8-74*

F.R. 12-10-73

(Morrow)

(Orig. comp 12-10-51 from (Wolfeamp)

OM 10,559-10,650'; OXD 10,650')

2-13-74 TD 10,650'; Flg 1bg
 2-19-74 TD 10,650'; PB 10,478'; SW Weather
 2-27-74 TD 10,650'; PB 10,478'; SW WO Equip
 3-6-74 Drlg 10,690' 1-1c
 3-13-74 Drlg 10,915' sh & 1m
 3-20-74 Drlg 11,170' 1m & sh
 3-27-74 Drlg 11,493' sh & 1m
 4-3-74 Drlg 11,683' sd & sh

COUNTY	LEA	FIELD	Townsend	OWDD	STATE	RM	02767
NAME	V-F PETROLEUM						
	1 Humble - Townsend						
	Sec 9, T-16-S, R-35-E						
	1980' F3L, 660' FWL of Sec						
	Re-Spd 9-8-71						
	Re-Cmp 10-22-71						
	FORMATION	DATUM	FORMATION	DATUM	CLASS		
					OWDF 4033		
CSS & SX - TUBING							
11 3/4" at 439' w/375 sx							
8 5/8" at 4700' w/2100 sx							
5 1/2" at 10,585' w/940 sx							
4" Inr 10,349-11,850' w/100 sx							
LOSS EL OR RA IN? MC A							
							TD 11,850'

IP (Atoka) Perfs 11,800-810' CACF 2350 MCF/GPD. GOR 33,380; Grav (Gas) .636; (Cond) 49.6; SIWHP 4187#.

520 GAS GRADIENT

MORROW

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CONT. Tom Brown Drig. Co. PROP DEPTH 12,000' TYPE RT
DATE

F.R. 9-7-71; Opr's Klev. 4033' DF

PD 12,000' RT (Atoka)

Contractor - Tom Brown Drig. Co.

(Orig. Humble Oil & Refg. Co., #8 Townsend

Hulda A. A/C-2 comp. 12-31-55 thru (Wolfcamp)

Perfs 10,401-476', OTD 10,585', OPB 10,539',

Plugged Producer 11-18-50)

1-13-72 AMEND FIELD NAME: Formerly reported as Undesignated.

9-13-71 TD 10,585'; Milling @ 3014'

9-21-71 TD 10,585'; Prep Drill

CO to TD, Ran 5 1/2" tie in Csg

9-28-71 Drig. 10,904' sh & lm

10-5-71 Drig. 11,259' sh & lm

10-11-71 Drig. 11,670' lm & sh

10-18-71 TD 11,850'; MORT

Deepened from 10,585' to 11,850'

Ran 4" Inr

LEA

Townsend

NM

Sec 9, T168, R32E

W-2 PETROLEUM

51 Humble - Townsend

Page 42

10-25-71 TD 11,850'; WO Test Equip
Perf 11,800-810' w/2 SPF
Acid (11,800-810') 250 gals
11-2-71 TD 11,850'; RU Equip
11-9-71 TD 11,850'; Tstg
11-16-71 TD 11,850'; WO Pot
CAOF 2350 MCFGPD + 30 B cond per MM (11,800-810')
1-10-72 TD 11,850'; COMPLETE
(Atoka) THREE POINT GAUGES:
Flwd 1028 MCFGPD, 3/4" orifice, 4 hrs, TP 28529
Flwd 1487 MCFGPD, 3/4" orifice, 5 hrs 30 mins, TP 21768
Flwd 1874 MCFGPD, 3/4" orifice, 9 hrs, TP 13974
1-13-72 COMPLETION REPORTED

SCOUT TICKET

OUR NO.

COUNTY Lee (W offset to Stanolind Lease #15981)

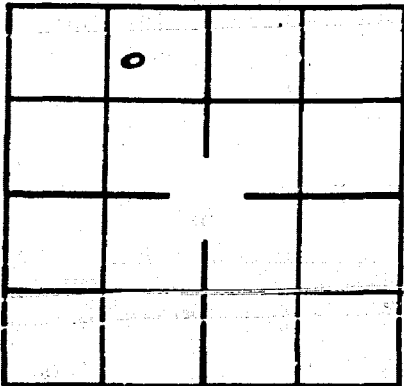
7213

STATE New Mexico (Tombsend Well)

ANN 02775

ELEV. 4500

STANDARD B & P "NOTES"



OPERATOR Pure Oil Co.
 FARM State-Les "A" WELL NO. 2
 SEC. 10 T. 16-S R. 35-E
 SEC. 660 BLK. 660 SURVEY 1980
 LOC. 660 FR. N. 660 FR. S. 660 FR. E. 660 FR. W. 660
 SPUD 11-24-53 COMP. 11-24-53 T.D. 11599 FB 11597
 CONTRACTOR TP 10522
 SHOT NET
 T. AM. 1944 PROD. IP 1721 BO 24
 T. SALT GOR. 1425 GR. 414
 B. SALT PRESSURE: CASING 1151 TUBING 875
 T. YATES 5050 REMARKS: 1151 2" 1057
 T. GRAYBURG 1151 1057
 T. S. A. 4610 1151
 T. GLCR. 2250 1151
 T. C. F. 1151
 T. TUBES 2400 1151
 T. MISS. 1151
 T. DEV. 1151
 T. SIL. 1151
 T. MONTOKA 1151
 T. SIMPSON 1151
 T. ELLEN 1151

DATE	TIME	TEST LOCATION	TEST RESULTS
OCT 21 1953		10600' test. Location.	
OCT 28 1953			
NOV 4 1953			
NOV 10 1953			
NOV 18 1953			
NOV 24 1953			
DEC 2 1953			
DEC 9 1953			
DEC 16 1953			
DEC 22 1953			
JAN 6 1954			
JAN 13 1954			
JAN 20 1954			
JAN 27 1954			
FEB 3 1954			

STANDARD B & P "NOTES"

LOG

FEB 10 1954 TO 11596 km Sd 41310600
 Prof 76 10500-519
 " 49 10532-549
 " 42 10554-566
 2" with PIR 10443
 E-21 BO RH 34m 344 Co

FEB 17 1954

T. An. 1235 (+2188)
 T. Yates 3065 (+958)
 T. Queen 2415 (+118)
 T. San A. 4630 (-607)
 T. Gierista 6790 (-2217)
 T. Dr. Sd. 7410 (-3387)
 T. Abc 8020 (-3997)
 T. Uelfamp 9575 (-5552)
 T. Penn 10580 (-6557)

EDF TOPS

[illegible]

OPR'S ELEV 3992' GL NO 12,523' WO

10-2-4 NM

RE-ISSUED COMPLETION

Undersigned

STATE NM

V-P PETROLEUM, INC.

30-025-24493

1 Edison

Sec 15, T-16 S R-35 E

1980' FNL, 1980' FWL of Sec

9-30-73 3-20-75

GL 3992

13 3/8" at 195' w/400 ss
9 5/8" at 4610' w/600 ss

FORMATION	DATUM	FORMATION	DATUM

DRY & ABANDONED

TD 12,700' (D. NN)

CONTR Robt.

3992 1.1

RE-ISSUED COMPLETION 7-12-75
(Orig. Temp Comp 10-28-74)
F.R. 8-27-73
(Devonian)

AMEND OPERATOR. Formerly reported as Harding Oil Company

- 10-7-74
- 10-4-73 Drlg 90' 1m
- 10-10-73 Drlg 120' 1m
- 10-17-73 Drlg 155' 1m
- 10-24-73 Drlg 190'
- 10-31-73 Drlg 220'
- 11-7-73 Drlg 260'
- 11-14-73 Drlg 290'
- 11-28-73 Drlg 340' 1m & redbed
- 12-5-73 Drlg 375'

LEA
V-F PETROLEUM, INC.

Undesignated
1 Eidson
Sec 15, T16S, R35E

NM
Page 2

LEA
V-F

12-12-73	TD 375'; Reaming @ 130'	7-
12-19-73	TD 375'; Reaming @ 147'	7-
1-3-74	TD 375'; Reaming @ 180'	8-
1-16-74	TD 375'; Reaming @ 196'	7-
1-24-74	TD 375'; Reaming @ 209'	
1-31-74	TD 375'; Reaming @ 240'	
2-6-74	TD 375'; Bailing	
2-13-74	TD 375'; Reaming	
3-14-74	TD 375'; S1	
5-28-74	Drig 4440' ashly & 1m	
6-5-74	Drig 6477'	
6-13-74	Drig 8498'	
6-20-74	TD 10,071'; Prep Drill	
	DST (Wolfcamp) 10,038-071', open 2 hrs 15 mins,	

6-20-75	Continued	
	GTS in 20 mins @ TSTM, rec 270' OCDM, 1 hr 30 min ISIP 3677#, FP 66-100#, 4 hr FSIP 3651#, HP 4324-4307#	
6-26-74	Drig 11,055'	
7-10-74	TD 12,588'; On DST	
	DST (Strawn) 10,944-11,180', open 1 hr 30 mins, rec 150' VSGCDM, Pressures NA	
7-17-74	TD 12,630'; Prep Drill Ahead	
	DST (Devonian) 12,446-588', open 1 hr 30 mins, rec 124' DM, 1 hr ISIP 4167#, FP 1138-1964#, 4 hr FSIP 5479#, HP 5809-5809#	
	DST (Devonian) 12,238-630', open 1 hr 30 mins (2300' WB), GTS in 108 mins @ TSTM, rec WB + 564' Cond, 1 hr ISIP 4680#, FP 1263-1354#, 3 hr FSIP 4793#, HP 5652-5652#	

EA
V-F PETROLEUM, INC.

Undesignated
1 Eidson
Sec 15, T16S, R35E

NM
Page 3

7-24-74 TD 12,700'; MORT
7-31-74 TD 12,700'; WOO
8-19-74 ID 12,700'; SI
7-7-75 ID 12,700'; Dry & Abandoned
LOG TOPS: Anhydrite 1860', Yates 3020',
Queen 3881', San Andres 4640', Glorieta
6150', Tubb 7318', Abo 8047', Pennsylvanian
10,240', Strawn 10,911', Mississippian 11,455',
Devonian 12,488'
11-2-74 COMPLETION ISSUED
7-12-75 RE-ISSUED COMPLETION

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[illegible]

NEARLY COMPLETED

CONTR	MILITARY	OPRS ELEV	3992'	GL	DE	13 300'	TYPE	PL
-------	----------	-----------	-------	----	----	---------	------	----

P.R. 8-27-73
(Devonian)

10-7-74 AMZND OPERATOR: Formerly reported as Harding
Oil Company

10-4-73 Drig 90' lm

10-10-73 Drig 120' lm

10-17-73 Drig 155' lm

10-24-73 Drig 190'

10-31-73 Drig 220'

11-7-73 Drig 260'

11-14-73 Drig 290'

11-28-73 Drig 340' lm & redbed

12-5-73 Drig 375'

LEA
V-F PETROLEUM, INC.

Undesignated
1 Edison
Sec 15, T16S, R35E

NM
Page #2

12-12-73 TD 375'; Reaming @ 130'
12-19-73 TD 375'; Reaming @ 147'
1-3-74 TD 375'; Reaming @ 180'
1-16-74 TD 375'; Reaming @ 196'
1-24-74 TD 375'; Reaming @ 209'
1-31-74 TD 375'; Reaming @ 240'
2-6-74 TD 375'; Bailing
2-13-74 TD 375'; Reaming
3-14-74 TD 375'; SI
5-28-74 Drlg 4440' anhy & lm
6-5-74 Drlg 6477'
6-13-74 Drlg 8498'
6-20-74 TD 10,071'; Prep Drill
DST 10,038-071'; open 2 hrs 15 mins. GTS

6-20-74 Continued
in 20 mins @ TSTM, rec 270' OCDM, 1 hr
30 min ISIP 3677#, FP 66-100#, 4 hr
FSIP 3651#, HP 4324-4307#,
6-26-74 Drlg 11,055'
7-10-74 TD 12,588'; On DST
DST (Strawn) 10,944-11,180', open 1 hr 30
mins, rec 150' VSGCDM, Pressures NA
7-17-74 TD 12,630'; Prep Drill Ahead
DST (Devonian) 12,446-588', open 1 hr 30
mins, rec 124' DM, 1 hr ISIP 4167#, FP 1138-
1964#, 4-hr FSIP 5479#, HP 5809-5809#
DST 12,238-630', open 1 hr 30 mins (2300'
WB), GTS in 108 mins @ TSTM, rec WB + 564'
Cond, 1 hr ISIP 4680#, FP 1263-1354#, 3 hr
FSIP 4793#, HP 5652-5652#

NM
Page #2

LEA
V-F PETROLEUM, INC.

Undesignated
1 Eidson
Sec 15, T16S, R35E

NM
Page #3

, R35E

7-24-74	TD 12,700'; MORT
7-31-74	TD 12,700'; WOO
8-19-74	TD 12,700'; SI
10-28-74	TD 12,700'; TEMPORARILY COMPLETED
11-2-74	COMPLETION REPORTED

hrs 15 mins, GTS

270' OCDM, 1 hr
66-100#, 4 hr
07#

,180', open 1 hr 30
Pressures NA
Ahead
588', open 1 hr 30
r ISIP 7167#, FP 1138-
, HP 5809-5809#
1 hr 30 mins (2300'
TSTM, rec WB + 564'
FP 1263-1354#, 3 hr
52#

IN 511 10-48

SECRET
VIN 02792

9214

OPERATOR Sinclair Oil & Gas Co.

FAHM C.W. McCheser WELL NO. 1
SEC. 15 T. 16-S R. 35-E
SEC. _____ BLK. _____ SURVEY _____
LOC. 1980 FR. N. _____ FR. S. 1980 FR. E. _____ FR. W. _____
SPUD. 10-31-56 COMP. 2-24-57 T.D. 12691 1/2 PB. 12600
CONTRACTOR Rot. TP. 12542
SHOT A/4500
T. AN. _____ PROD. IP. F 480 3020
T. SALT _____ GOR. 420 GR. 60
B. SALT _____ PRESSURE: CASING _____ TUBING 100
T. YATES 3040 REMARKS: 34 1/2
T. GRAYBURG _____ F 541 60
T. S. A. 4631 Perf 3543-422
T. GIOR. 6280 6160 Queen 5000
T. C. F. _____
T. TUBBS 7311 Abc 1057 8000
T. MIRE 4442 11170 11 1/2 104 3200
T. DEV. 12375 12365 Flow 10200
T. SIL. _____
T. MONTOYA _____
T. SIMPSON _____
T. ELLEN _____

Wood ~~1225~~ 1225

11-1-56	RURT.	FEB 18 1957
NOV 7 1956	φ 3280 Aa	TO 12 691m WRC
NOV 14 1956	φ 4535 Aa	E 12530-420 Rec
NOV 21 1956	φ 49781m	13' lay. oil
NOV 28 1956	φ 56851m	4 1/2' lay. steam
DEC 5 1956	φ 6542.5	50' lay. 6 1/2' steam
DEC 12 1956	φ 76911m	E 12600-40 Rec
DEC 19 1956	φ 87121m	50' lay. steam
JAN 9 1957	φ 104861m Ch	FEB 27 1957
JAN 10 1957	φ 108671m	TO 12 691m WRC
JAN 16 1957	φ 112151m Sd	Perf 312 12542-620
JAN 23 1957	E 10990-11045 Rec 53' lay. oil	E 49 12542-620
JAN 30 1957	φ 115381m	24 hrs.
FEB 6 1957	E 117211m	up 500
FEB 12 1957	φ 122661m Sb	500 36' lay. oil - 5' steam
	E 12605	+ 20' steam
	DST 12 740-490	30' lay. oil
	OP 1:30 2000 WRC	
	Rec. WRC + 700 oil + 90 OCM	
	EP 1300 305ip 4260	
	DST 12 490-570	
	OP 1:30 2300 WRC	
	Rec. OEGC WRC + 650 oil	
	+ 40 H.C. OCM	
	EP 1400 305ip 5115	

1865 + 2124

~~TOP TOPS~~

COUNTY LEA FIELD Underfooted STATE 30-025-24018

OPR BROWN, TGI, INC. MAP

1 Speight, June D.

Sec 15, T-16-S, R-35-E

CO-ORD

1980' FSL, 910' FSL of Sec

Spd 2.5-72

Comp 3-25-72

CLASS

EL

4004 DF

3992 GR

CSS & SK - TUBING
12 3/4" at 473' w/575 SK
8 5/8" at 4725' w/350 SK

FORMATION	DATUM	FORMATION	DATUM

LOSS EL ON RA INP HC A

TD 11,760'

PLUGGED & ABANDONED

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CONT.
DATE

FORM MAP 12,000' TYPE K1

2-5-72
23
42

F.R. 1-18-72
PD 12,600' RT (Devonian)
1-25-72 AMEND LEASE NAME: Formerly reported as Danglade
2-7-72 TD 473'; Prep Drill
2-14-72 TD 4725'; WOC
2-21-72 Drlg. 6190'
2-28-72 Drlg. 8050' lm
3-6-72 Drlg. 9318' lm & sh
3-13-72 Drlg. 10,710' lm, sh & cht
3-20-72 Drlg. 11,468' lm & sh
DST 11,029-124', open 1 hr, CTS 40 mins,
rec 14' oil + 460' G&OCM, 1 hr ISIP 863#,
FP 118-237#, 2 hr FSIP 639#, HP 5108-5108*

LEA
BROWN, TOM, INC.

Undesignated M Sec 15, T168, R35E
1 Spaight, June D. Page #2

3-27-72

TD 11,760': P&A (Holding for Tops)
DST 11,702-760', Pkr failed
DST 11,612-760', open 1 hr, rec 349' mud,
1 hr 30 min ISIP 213#, FP 118-239#, 2 hr
FSIP 260#, HP 5425-5425#

4-3-72

TD 11,760': PLUGGED & ABANDONED
SAMPLE TOP: Strawn 11,024'
LOG TOPS: Strawn 11,194', Atoka 11,706',
Mississippian 11,734'

4-8-72

COMPLETION REPORTED

DRY & ABANDONED

CONTR _____ OPN'S ELEV 3982' GL _____ PD 10,500' WO _____

F.R. 2-9-76 OWWO
(Wolfcamp)
(Orig. Sinclair Oil & Gas Co. #1 Blackmon, L.
M., D&A 5-10-57, OTD 12,962')
3-8-76 TD 12,962'; CO @ 4541'
3-15-76 TD 12,962'; PBD 10,600'; Prep Perf
CO to 10,663' & PB to 10,600'
3-22-76 TD 12,962'; PBD 10,600'; SI
Perf (Wolfcamp) 10,240-252' w/4 SPF
Acid (10,240-252') 2000 gals
3-29-76 TD 12,962'; PBD 10,600'; SI
Swbd dry (10,240-252')
Attempted to Acidize & Had Communications
4-5-76 TD 12,962'; PBD 10,600'; SI
Acid (10,240-252') 2000 gals
4-12-76 TD 12,962'; PBD 10,600'; SI
Swbd 5-7 BF (50% oil + 50% LW) (10,240-252')
5-2-12 NM

LEA
MESA PETROLEUM CO.

Shoe Bar, N.
1 Blackmon
Sec 15, T16S, R35E

4-19-76 TD 12,962'; PED 10,600'; Prep D&A
4-26-76 TD 12,962'; D&A
5-3-76 TD 12,962'; Dry & Abandoned
5-8-76 COMPLETION ISSUED

5-2-12 NM
IC 30-025-70042-76

911 10-45
NM COUNTY Lea
PAGE STATE New

24
17

COUNTY LeaSTATE New Mexico~~Without~~ Undesignated

MN02790

ELEV. 3981 Gr.

2811 954 ER			
7675			

OPERATOR Sinclair Oil & Gas Co.FARM L. M. BlackmonWELL NO. 1SEC. 15 T. 16-S R. 35-ESEC. BLK. SURVEYLOC. FR. N. 660 FR. S. 660 FR. E. FR. W.SPUD. 10-30-56 COMP. 5-10-57 T.D. 12,962 ft PB 11035CONTRACTOR Rot. TP

SHOT

T. A. PROD. IF 2 FAT. SALT GOR. GR.B. SALT PRESSURE: CASING TUBINGT. YATES REMARKS:

T. GRAYBURG

T. S. A. 4650T. GLOR. 6192

T. C. F.

T. TUBBS Abn 8025T. MISS. 11616 11632 11014 9152T. DEV. 12171 2200 11525

T. SIL.

T. MONTOYA

T. SIMPSON

T. ELLEN

Wood 12403 12355

12,800' Test

11-7-56	Drig. 283 RB.	JAN 10 1957	<u>11,431.56</u>
NOV 14 1956	<u>3715 An</u>	JAN 16 1957	<u>11,748.12</u>
NOV 21 1956	<u>4737.10</u>	JAN 23 1957	<u>12,062.10</u>
NOV 28 1956	<u>5422.10, 56</u>	JAN 30 1957	<u>12,370.10</u>
NOV 28 1956	<u>6922.10</u>	FEB 1 1957	<u>12,662.10</u>
DEC 5 1956	<u>8409.10, 56</u>		<u>12,512.587</u>
DEC 12 1956	<u>9691.10, 56</u>		<u>26,10.46</u>
DEC 19 1956	<u>10,362.10</u>		<u>Rec. 30 M</u>
JAN 8 1957	<u>11,100.10</u>		<u>FP 500-600 305ip 1260</u>
	<u>12,806.536</u>	FEB 12 1957	<u>12,916.10</u>
	<u>21.35</u>		<u>12,565.662</u>
	<u>Rec. 400 + 30.5GCM</u>		<u>26,12.46</u>
	<u>FP 410 305ip 530</u>		<u>Rec. 400 + 10.15</u>
	<u>12,978.110.46</u>		<u>FP 400 305ip 1460</u>
	<u>21.34</u>		<u>12,662.10</u>
	<u>Rec. 400 + 150</u>		<u>2700.46</u>
	<u>5CM</u>		<u>FP 400 + 60.50CM</u>
	<u>FP 410 305ip 2625</u>		<u>FP 1360 305ip 4545</u>
			<u>12,760.860</u>
			<u>26,00.46</u>
			<u>Rec. 400 + 1300.10 + 4600</u>
			<u>40</u>
			<u>FP 410-4160 305ip 5260</u>

LOG

FEB 18	1957	TD 12 9621m	WOC		
FEB 27	1957	TD 12 9621m	PA 12770	prep A/	
		Perf 40	12 740 - 750		
		w/500			
		Swb 9 BAW + 50 BAW 12 hrs			
		retainer 12 706			
		Sg 12740 - 750 w/100			
		Perf 12 12 44-602			
		PKR 12 571			
MAR 1	1957	TD 12 9621m	PA 12770	p/plp	
		w/1000	12 644-602		
		Swb 47 BAW			
		A/3000	12 644-602		
		Swb 66 BAW + 49 BAW + 70 BAW 20 hrs			
		Swb 30 BAW 4 hrs			
		Sg 12 644-602 w/84			
MAR 13	1957	TD 12 9621m	PA 12770	Swb	T. Amby
		Perf 72	12 644-662		T. Del. Ls.
		A/4000	12 644-662		T. Yates
		Swb 63 BAW + 48 BAW 17 hrs			T. Queen
		Re A/5000			
MAR 20	1957	TD 12 9621m	PA 12706	Swb	T. S. Andres
		Swb 34 BAW + 15 BAW 9 hrs			T. Glorista
		Perf 1	12 676		T. B. Spring
		Re A/500	12 644-676		T. Dr. Sd.
		Swb 65 BAW + 50 BAW 12 hrs			T. Abo
		Re A/2000	12 644-676		
		Swb 60 BAW + 30 BAW 15 hrs			T. Wolfman
MAR 27	1957	TD 12 9621m	PA 12600	p/plp	B. Fernian
		Perf 136	12 526-560		T. Penn.
		PKR 12 479			T. Miss
		A/1000	12 526-560		T. Woodford
		Swb 72 BAW 16 hrs			T. Devonian
		Re A/3000	12 526-560		T. U. Sil.
		Swb 90 BAW + 8 BAW 24 hrs			T. Fuso
		Re A/6000	12 526-560		T. Monhys
		Swb 37 BAW + 32 BAW 24 hrs			T. Simpson
					T. McKee
					T. Ellen.
					T. Granite

SCOUT TICKET

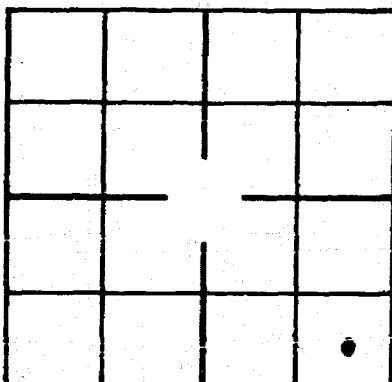
OUR NO.

9213

COUNTY LasSTATE New Mexico

Undesignated

ELEV.

OPERATOR Sinclair Oil & GasFARM L. M. BlackmonWELL NO. 1SEC. 15 T. 16-S R. 35-ESEC. BLK. SURVEYLOC. FR. N. 660 FR. S. 660 FR. E. FR. W.SPUD. COMP. T.D. PSCONTRACTOR TP

SHOT

T. AN. PROD. IPT. SALT. GOR.B. SALT. PRESSURE: CASING TUBINGT. YATES REMARKS

T. GRAYBURG

T. S. A. T. 7-RIVERST. GLOR. T. QUEENT. C. F. T. PENROSET. TUBBS T. DRINK.T. HILLS T. BOYT. DEV. T. EONE SPR.T. SIL. T. WOLF C.T. MONTOYA T. PENN.T. SIMPSON T. FUSS.T. ELLEN T. MCKEE

APR 3 1957

TD 12962 in PA 12706 T3T6

AE/19000 12526-676

F 30 BLD 1:30

Sub 7 BLD + 16.5 BAW 16 hrs.

APR 10 1957

TD 12962 in PA 11070 T3T6

Sub 3 BLD + 7.5 BAW +

24.3 BAW 24 hrs from 12526-676

AP 12485

Perf 24 11003-24

BP 11070

PKR 10935

Sub 4.5 BLD 14 hrs E Sub dry

from 11003-24

A/1000 11003-24

Sub 4.5 BLD + 24 BAW + 60

BAW 16 hrs.

APR 17 1957

TD 12962 in PA 11035 T3T6

Sub 9.6 BAW 8 hrs

casing @ 10760

Eq. 11003-24 w/100

Post 11035

Re Perf 24 11003-24

PKR 10935

Sub 4.5 BLD 12 hrs

E Sub dry

APR 24 1957 TD 12962 in

PA 11035 T3T6

Re A/1000 11003-24

Sub 4.5 BLD + 80 BAW

14 hrs.

MAY 1

1957 TD 12962 in PA 11035

5T

Sub 1 BAW 72 hrs

MAY 8

1957 TD 12962 in PA 11035

prep to PEA

MAY 18

1957

LOG

T. ANN	1712 (- 2072)
T. YOUNG	3082 (- 2022)
T. G. ...	2721 (- 1)
T. S. A.	4070 (- 237)
T. G. ...	6182 (- 220)
T. D. ...	7360 (- 3383)
T. ...	7982 (- 4000)
T. W. ...	7452 (- 2470)
T. PENN (NISC)	10503 (- 1321)
T. MISS.	11043 (- 765)
T. W. ...	12334 (- 8372)
T. D. ...	12488 (- 8506)

EDP TOPS

Hi

LEA	INFO Undesignated	STATE NM
YATES PETROLEUM CORP.		API 30-025-26219
1 IFAM Edson Ranch "KL"		MAP 522AE
Sec 22, T16S, R35E		(COORD) T4N4'S E4W
1980' FNL, 660' FLL of Sec		7-2-5 NM
8 mi NE/Buckeye	SPD 4-3-79	MAP 5-28-79

3/8" at 415' w/325 sx
3/8" at 4550' w/1640 sx

[illegible]

ABANDONED

Forster #4

OPRSLEV 3978¹ GL

PD 11,700' RT

14-75

4-9-79

44-16-79

44-16-79

1-21-73

44-38861-79

79

1:79

5-21-79

5-29-73

2.73

4194,
59914

7-2-5 NM

AMERICAN PETROLEUM CORP.

Undesignated
1 Eidson Ranch "KL"
Sec 22, T16S, R35E

NM
Page #2

Continued

DST-SP (Straw) 11,108-210', mis-run
LOG TOPS: San 4752', Glorieta 6225',
Abo 8170', Wolfcamp 9530', Canyon 10,744',
Straw 11,134', Atoka 11,232', Mississippian
11,582'
LOGS RUN: CNDL, DILL
COMPLETION ISSUED

7-2-5 NM

IC 30-025-70087-79

SCOUT TICKET

COUNTY Lea

STATE New Mexico

Shoe Bar Devonian

NINO2805

ELEV. 3451

OPERATOR Western Natural Gas Co.
 FARM Eidson WELL NO. 1
 SEC. 26 T. 16S R. 35E
 SEC. BLK. SURVEY
 LOC. 1980 FR. N. FR. S. FR. E. 990 FR. W.
 SPUD. 6-30-57 COMP. 10-12-57 T.D. 12780 PS. 12774
 CONTRACTOR Rot. Parker Drlg. TP. 12680 Rev.
 SHOT Alt 1000
 T. AN. 1981 PROD. IP E. 336 10 + 968
 T. SALT 2084 GOR. GR. 20
 B. SALT PRESSURE: CASING TUBING
 T. YATES 5180 REMARKS: GOR 2"
 T. GRAYBURG Ref 12680-726
 T. S. A. 4788
 T. GLOR. 6254 T. 7 RIVERS
 T. C. F. 12000 T. 12000
 T. TUBBS 7197 T. BENROSE
 T. MISS. 11820 T. CRINK
 T. DEV. 12680 T. APP. 8220
 T. SIL. T. BONE SPR.
 T. MONTOYA T. WOLF C. 9512
 T. SIMPSON T. PENN. 12680
 T. ELLEN T. FUSS 11820
 T. MCKEE 11820

STANDARD B&P "NOTAR" (R)

13" 327 400

9 5/8 4920 5000

5 1/2 12779 900

12,750' Test

6/27/57	Loc.	SEP 11 1957	<u>φ 11.303 in. 56</u>
JUL 2 1957	<u>T.D. 327 RB RURT</u>	SEP 18 1957	<u>φ 11.699 in. 56</u>
JUL 10 1957	<u>φ 10.236</u>	SEP 25 1957	<u>φ 12.060 in.</u>
JUL 17 1957	<u>φ 10.707</u>	OCT 2 1957	<u>φ 12.372 in. 56</u>
	<u>E 4031 - 4071</u>	OCT 9 1957	<u>T.D. 12705 ch. 1 DST</u>
	<u>40 dense sdy. in</u>	OCT 16 1957	<u>T.D. 12780 in. Run in</u>
JUL 24 1957	<u>φ 5173 in</u>		<u>DST 12688 - 705</u>
JUL 31 1957	<u>φ 5010</u>		<u>DNR failed</u>
AUG 7 1957	<u>φ 5200 in</u>		<u>DST 12688 - 705</u>
AUG 14 1957	<u>φ 9000 in</u>		<u>Q.P. 1.10 1000 w.b.</u>
AUG 21 1957	<u>φ 10071 in</u>		<u>Rec. WB + 100 M</u>
AUG 28 1957	<u>T.D. 10505 in Run in</u>		<u>FP 560 205 p 1205</u>
SEP 4 1957	<u>φ 10848 in. 56</u>		<u>DST 12689 - 705</u>
	<u>DST 10450 - 526</u>		<u>Q.P. 4.3 1000 w.b.</u>
	<u>Q.P. 1.5 1000 w.b.</u>		<u>Rec. WB + 20 M</u>
	<u>PHL failed</u>		<u>FP 472 3.5 p 615</u>
	<u>Ln. WB + 500 50.5 GCM</u>		<u>DST 12689 - 720</u>
	<u>+ 370 M + 500 GCM</u>		<u>Q.P. 4.5 1000 w.b.</u>
	<u>DST 10412 - 528</u>		<u>Rec. WB + 90 M</u>
	<u>Q.P. 3 hrs 1000 w.b.</u>		<u>FP 560 - 580 30.5 p 1205</u>
	<u>G. 3.3</u>		<u>DST 12722 - 780</u>
	<u>Rec. 1000 OEGCWB + 300</u>		<u>Q.P. 4 hrs 1000 w.b.</u>
	<u>oil + 620 40.5 GCM</u>		<u>G. 2.40</u>
	<u>FP 105 - 235 30.5 p 12765</u>		<u>Rec. WB + 480 DST</u>

B&P "NOTAR" (R)

LOG

OCT 23 1957	FP 625-730	30510 48.55		
	TO 12780	3069		
	Perf. 56	12642-694		
	" 80	12706-726		
	A/5000			
	F 63 RD + 21	ASW 51W 5hrs		
OCT 30 1957				
T. Army.	1112	4212	YB 1/12 6? Hueso zone	
T. D.L. La.				
T. Yates	3170			
T. Owen	4033	- 51		
T. S. Andres	4187	- 51		
T. Clontara	6272	- 1000		
T. S. Spring				
T. D.L. Sd.	7413	- 231		
T. Abc	8213	- 4121		
T. Williams	4472	- 5424	EDP TOPS	
B. Permian				
T. Penn. St.	11232	- 7248		
T. Miss.	11820	- 7226		
T. Woodford	12533	- 2579		
T. Devonian	12678	- 2674		
T. U. Sil.				
T. Fuss.				
T. Montoya				
T. Simpson				
T. P. 10				
T. El. 1.				
T. Geo. 10				

4

IP (Abo) Perfs 8724-86' P 101 BOPD + 110 BW. Pot based on
24 hr test. GCR 1000; Grav 33

CONTR Well Unit, Inc. OPNS ELEV 3984' DF PD 9200' TYPE WO

(Abo)

(Orig. Western Natural Gas Co., #1 Eidson "D",
comp 10-21-57 thru (Devonian) Perfs 12,680-
726', OTD 12,780', OPB 12,779'; OWWO & Re-Cmp
10-7-61 thru (Pennsylvanian) Perfs 10,460-484',
OPB 10,500'; Plugged Producer 5-8-67)

2-26-73

TD 12,780'; PBD 8850'; COMPLETE
CO to 8850'

Perf (Abo) 8724-38', 8773-86' w/1 SPF
Acid (8724-86') 11,500 gals

2-3-73

COMPLETION REPORTED

SCOUT TICKET

MANO 2796

COUNTY Lee

STATE New Mexico (Shoe Bar Devonian)

9375

ELEV. 11-2

11-2 SP 1/2

OPERATOR Western Natural Gas Co.

FARM Eidson "A" WELL NO. 3

SEC. 26 T. 16-S R. 35-E

SEC. BLK. SURVEY

LOC. FR. N 1980 FR. S FR. E 990 FR. W

SPUD. 1-22-57 COMP. 5-9-57 T.D. 12,675' 12,675'

CONTRACTOR Rot. Lowe Drig. TP 12,516' Dev.

SHOT 4/5000

T. AN. 1985 PROD. IP E 360 80 PD

T. SALT GOR. GR. 57

B. SALT PRESSURE: CASING PER TUBING 72

T. YATES 5177 REMARKS: 7/11

T. GRAYBURG E 180 40 12,516'

T. S. A. 4712 T. Z. RIVERS Port 12,516'

T. GLOR. T. QUEEN 4047

T. C. F. T. PENROSE

T. TUBBS T. DANK

T. MISS. 11714 T. A20

T. DEV. 12,505' (28' low to high) T. DONE SPR

T. SIL. T. WOLF C. 9253

T. MONTOYA T. PENN. 13,110'

T. SIMPSON T. FUS3. 5422

T. ELLEN T. MCKEE

12 1/2 244 400

5 1/2 4900 450

5 1/2 12,675 850

1-16-57	12,750' test. Loc.	APR 3 1957	APR 10 1957
JAN 30 1957	<u>3348' An</u>		
	<u>4450' An</u>		
	<u>E 4033' - 81 Rec. 46' sd</u>	APR 21 1957	<u>12,455' in</u>
FEB 12 1957	<u>74,824' in</u> <u>1100</u>	MAY 8 1957	<u>12,675' in</u>
FEB 18 1957	<u>74,824' in</u>	MAY 18 1957	<u>7/11 12,675' in</u>
FEB 27 1957	<u>74,824' in</u>		<u>Port 12,675'</u>
MAR 6 1957	<u>74,824' in</u>		<u>Port ME 12,512' - 57</u>
MAR 13 1957	<u>74,824' in</u>		<u>64 12,554' - 57</u>
MAR 20 1957	<u>74,824' in</u>		<u>56 12,576' - 57</u>
MAR 27 1957	<u>74,824' in</u>		<u>126 12,538' - 57</u>
	<u>257 10,249' - 57</u>		<u>4/5000</u>
	<u>257 2,30 6 1,30</u>		
	<u>Rec. 245 12,550 CM</u>		
	<u>EP 120' - 57</u>		
	<u>E 10,249' - 412 Rec. 5' in</u>		
	<u>Port 5' - 57</u>		
	<u>257 10,249' - 327</u>		
	<u>257 2,30 6 1,30</u>		
	<u>Oil 112</u>		
	<u>Port 5' - 57</u>		
	<u>Rec. 245 12,550 CM</u>		
	<u>EP 120' - 57</u>		

PB 10775 7/11
 10312 372
 IPF 420 BOPD 1/4

I. Anbg. 1927 (+1991)

3120 (REV)

T. Queen 4038 (1-40)

T. S. Andrew 4783 (1-205)

~~T. Clonidine 2260 1-2262~~

T. Dr. Sd. 7483 (-35cc)

T. 115 8218 (copy)

Uniform 9440 (6541)

2. **Post-1990**

[illegible]

4192 (-3873)

11/13 07235

Woodroffe 12350 (-8372)

Devonshire 12505 (18547)

[illegible]

1. Russ.	
West.	

Montoya

ACKED _____

English.

[illegible]

EDP TOPS

The map shows the northern Adriatic coastline from the Gulf of Genoa to the Gulf of Venice. A star marks the sampling station location in the northern Adriatic. Latitude lines are marked from 44°N to 46°N, and longitude lines from 10°E to 14°E. A scale bar indicates distances up to 100 km.

ED: TOPS

T. H. H.	191517	17911	
T. H. H.	3180(-)	791	
T. S. H.	4790(-)	814	
T. G. H.	6210(-)	214	
T. D. H.	7480(-)	314	EDS TOPS
T. A. H.	8200(-)	414	
T. E. H.	9415(-)	514	
T. S. H. L.	11025(-)	7047	
T. S. H. L.	11115(-)	7117	
T. S. H. L.	12305(-)	8327	
T. D. H.	12455(-)	8417	

Petroleum Information

RE-ISSUED COMPLETION

COUNTY IFA

Shoe Bar

OPR HMG OIL CO.

API 30-025-26292

NO 1 LEASE N. M. "34" State Com.

MAP

Sec 34. T16S. R35E

(ORD)

1980' FNL. 1980' FWL of Sec

7-3-4 NM

18 mi E/Malimar

WU 4-27-79 IMP 6-6-79

CM.

13 3/8" at 420' w/500 sx
9 5/8" at 4850' w/3500 sx
5 1/2" at 12,900' w/825 sx

WELL CLASS: INIT D FIN DO LLEV

TERMINATION	INITIAL	TERMINATION	INITIAL

TD 12,900' (ATOK) PWD 12,825'

IP (Atoka) Perfs 12,448-502' F 15 BOPD. Pot based on 24 hr test thru chk (NR). GOR 113; gty 47.1; CP Pkr; TP 1700'

CONR Parker #38

OPRSLEV 3980' GL

PD 13,100' RT

F.R. 4-16-79

(Atoka)

7-21-79

AMEND FIELD: Formerly reported as Undesignated

4-23-79

AMEND LOCATION: Formerly reported as 990' FNL

1980' FWL of Sec

4-30-79

Drlg 2280' salt & anhy

5-7-79

Drlg 4858' dolo & anhy

5-14-79

Drlg 6665' dolo

5-21-79

Drlg 9154' dolo, lm & sh

6-4-79

TD 12,900'; Rng Logs

6-11-79

TD 12,900'; PBD 12,825'; WOSP

Perf (Atoka) 12,448-502' w/12 shots

Acid (12,448-502') 5000 gals (10%)

7-16-79

TD 12,900'; PBD 12,825'; Complete

LOG TOPS: Rustler Anhydrite 2000', Talc

3253', San Andres 4941', Glorieta 6460', Also

8538', Wolfcamp 9868', Pennsylvanian 11,000'

Strawn 11,890', Atoka 12,088'

7-3-4 NM

LEA
HNG OIL CO.

Shoe Bar
1 N. M. "34" State Com.
Sec 34, T16S, R35E

NM
Page 2

7-21-79
8-18-79

COMPLETION ISSUED
RE-ISSUE TO AMEND FIELD: Formerly
reported as Shoe Bar, S. (Atoka)

7-3-4 NM
IC 30-025-70133-79

F



-79-

ID	12-900	(ATOK)	PRO	12-825
----	--------	--------	-----	--------

CONTR	Parker #38	OPRS ELEV	3980' GL	PD	13,100' RT
-------	------------	-----------	----------	----	------------

COMPLETION ISSUED

IC 30-025-70123-79

LOG

JAN 27 1954	TO 12725	km ch	PH 12361	Station	110
	RNT 120		12310-30		
	2 nd 12335		NK 12297		
	F 20000	MCF600	up 2412	unit	0032111
	F 3000	MCF600	14 ch		
	S-CP 5800				

B 3 1058
EB 10 1954

ILLEGIBLE

4000

2684

21103524NOOPASAN LOS 301 AND DIL COMPANY

SHOE BAR RANCH UNIT 32

NEI MEXICO 0060174SHOE BAR AIOKA (GAS)

PA

ACT ACV PEA

NONE

2 LEA

12-78

7-71
7-71
1-81

549748
547478
587945

18749
735417

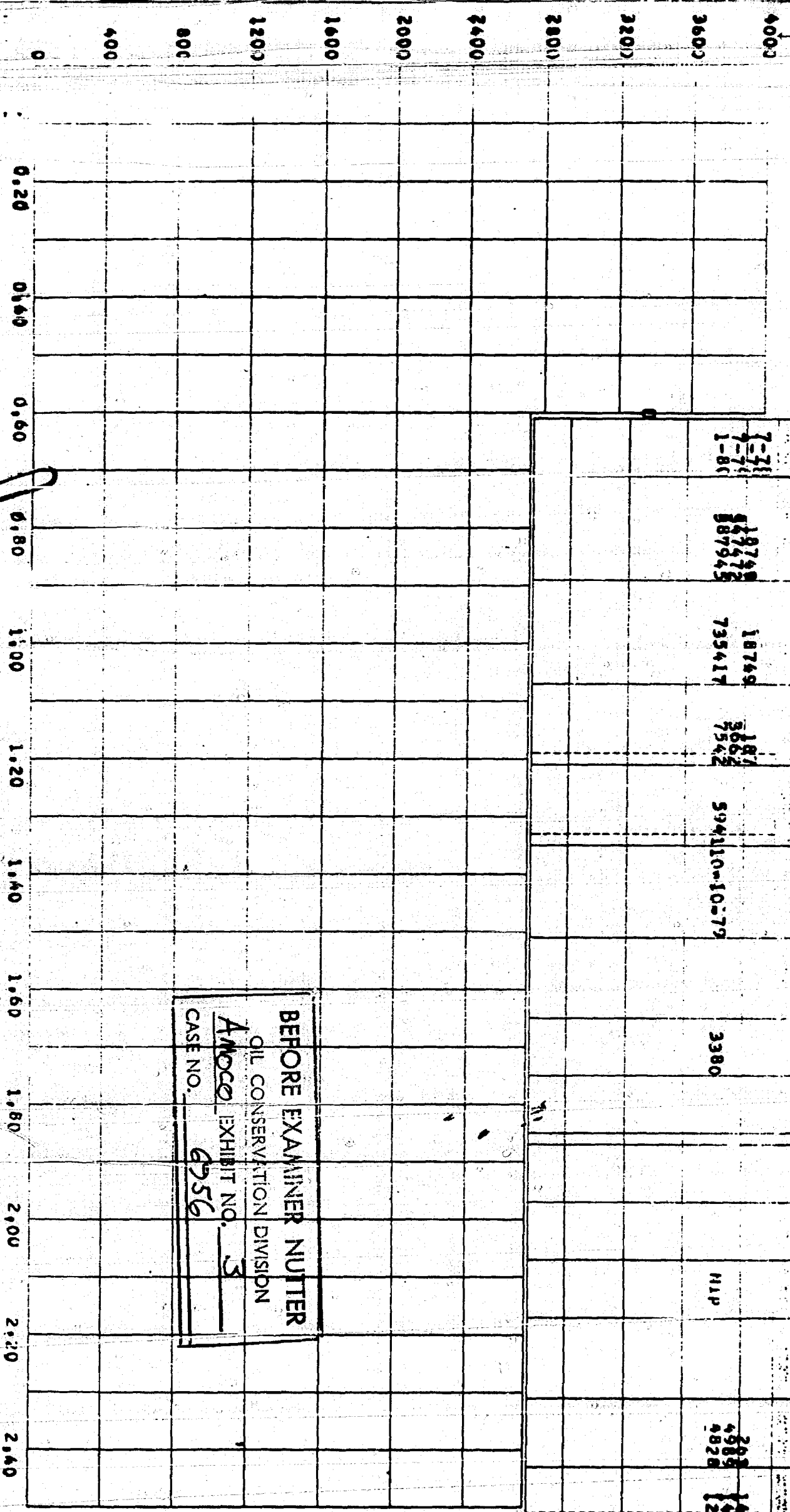
187
3662
7542

594110-10-79

3380

HLP

4988
4820
124



BEFORE EXAMINER NUTTER
OIL CONSERVATION DIVISION
Amoco EXHIBIT NO. 3
CASE NO. 6256

1201 EXCHANGE DR. RICHARDSON, TEXAS 75081

ALABAMA
COUNTY OF ...
...

NONE

SEE EXHIBIT 80032645WDE BAR HONORABLE SCOTT (0031)

PM

ACT NOV 2008

111778 07-78 605 121278 6422 4777 9,040 13056 12558-14474 53,000

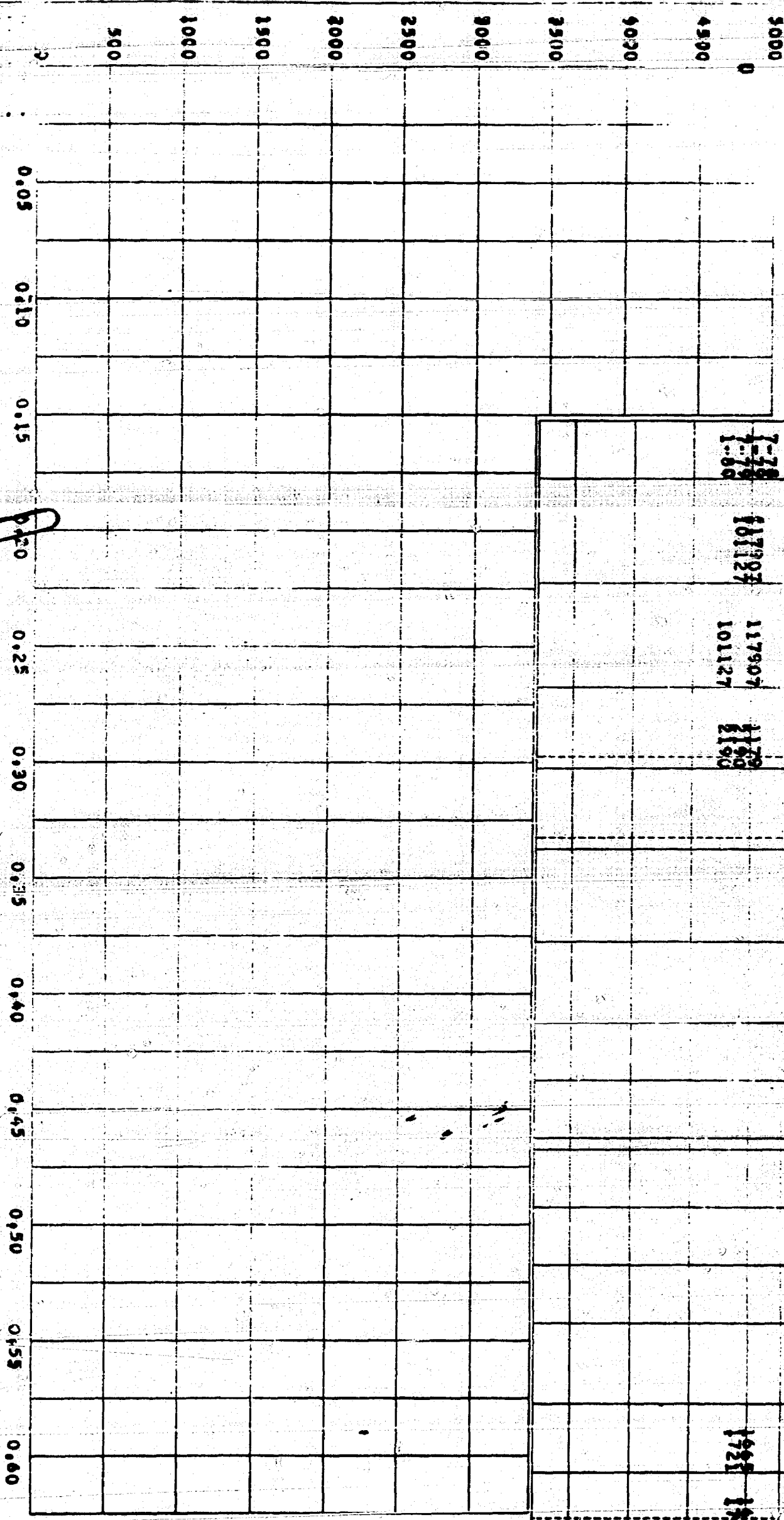
7-78
1-78
1-80

687397
101127

117907
101127

117907
101127

1921 1921



DOWIGHTS
1201 EXCHANGE DR. RICHARDSON, TEXAS 75081



0.966

NEW MEXICO 007350TOWNSEND MINUDY (CAS)

P4

ACT INQ

PC

	0.0	2.0	4.0	6.0	8.0	10.0	12.0	14.0	16.0	18.0	20.0	22.0	24.0
7500													
6750													
6000													
5250													
4500													
3750													
3000													
2250													
1500													
750													
0													

1201 EXCHANGE DR. RICHARDSON, TEXAS 75081



NEW MEXICO 007350TOWNSPND MORROW (045)

0.946

2 LEA

07-72

PM

ACT NWU TPC

7-72	42734	427	250607-10-74	2721	NIP	336	708
4-72	107705	1504			NIP	504	1867
4-72	198418	2449	449907-09-75	2281	NIP	1402	154
4-72	186226	4371	631407-14-76	1983	NIP	1308	144
4-72	176717	8013			NIP	1018	148
4-72	166625	8805	896207-20-77	1858	NIP	1000	130
4-72	146796	8524	833006-14-78	1718	NIP	852	130
4-72	124906	10824	1073005-31-79	1465	NIP	825	130
1-80		11524				852	130

0.40 0.80 1.20 1.60 2.00 2.40 2.80 3.20 3.60 4.00 4.40 4.80

1201 EXCHANGE DR. RICHARDSON, TEXAS 75081



NONE

NEW MEXICO 00732207GINSEND MOJAVE 1343

PM

AND

THE

NINE

2-LEA

5

06-79

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1201 EXCHANGE DR. RICHARDSON, TEXAS 75081



UNITED STATES
DEPARTMENT OF AGRICULTURE
WASHINGTON, D. C. 20250

NONE

NEW YORK, N. Y. 10001
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PA
ACI NUC PER
1201 EXCHANGE DR. RICHARDSON, TEXAS 75081

0	0.20	0.40	0.60	0.80	1.00	1.20	1.40	1.60	1.80	2.00	2.20	2.40
5000												
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7-78 61.158 934.101 995.450 4.14 010579 06-79 63.031679 61.73 4767 892 1.4025 12453-12403 499 97 12693 150

COMMENTS



STATE "GH" GAS COM. #1 OFFSETS

WELL	OPERATOR	LOCATION	TD	COMPL. INTER.	HORIZON	MORROW TESTS
M. H. Townsend #3	Wilshire Oil	N-4-16-35	10494'			
Townsend 'A' #46	Wilshire Oil	P-5-16-35	10484'			
E. L. Harrod #1	Great Western	I-7-16-35	13060'	11,268-294'	PEIN	DST 11995-12,025' Rec MB + 1' MUD; 12888-962' 240' MB + 93' DM
Hulda A. Townsend #1	Sinclair O & G	J-7-16-35	10720'			
State "EDA" #1	Shell Oil	N-7-16-35	10725'			
Hulda A. Townsend #4	Humble Oil and Fe.	O-7-16-35	10730'			
Hulda A. Townsend #2	Humble Oil	P-7-16-35	10756'			
State "ETA" #1	Shell Oil Co.	A-8-16-35	10490'			
State "ETA" #4	Shell Oil Co.	H-8-16-35	10535'			
State "ETA" #2	Shell Oil Co.	I-8-16-35	13365'	11770-786' BHP 5764	MORROW	11653'-795'; DST-13004-365' 10 BGCM w/trace oil + 5 BG&MCM + 5 BSH
State "ETA" #7	Shell Oil Co.	J-8-16-35	10518'			
State "ETA" #8	Shell Oil Co.	K-8-16-35	10626'			
State "ETA" #6	Shell Oil Co.	N-8-16-35	10638'			
State "ETA" #5	Shell Oil Co.	O-8-16-35	10517'			
State "ETA" #3	Shell Oil Co.	P-8-16-35	10550'			
Townsend #1	Cone, Markham & Simmons	A-9-16-35	10522'			
Hulda A. Townsend #1	Humble Oil	B-9-16-35	10497'			

270/A/3

BEFORE EXAMINER NOTAR
OIL CONSERVATION DIVISION
AMOCO EXHIBIT NO. 4
CASE NO. 6256

WELL	OPERATOR	LOCATION	TD	COMPL. INTER.	HORIZON	MORROW TESTS
H. A. Townsend #3	Humble Oil	C-9-16-35	10494'			
H. A. Townsend #5	Humble Oil	D-9-16-35	10575'			
H. A. Townsend #10	Humble Oil	E-9-16-35	10501'			
H. A. Townsend #6	Humble Oil	G-9-16-35	10570'			
Townsend #2	Simmons, Markham, Cone	H-9-16-35	10543'			
Hulda Townsend #2	Gulf Oil Corp.	I-9-16-35	11919'	11374-390'	STR/MN	
Townsend #1	Gulf Oil	J-9-16-35	10660'			
H. A. Townsend #7	Humble Oil	K-9-16-35	10556'			
Humble-Townsend #1	V-F Petroleum	L-9-16-35	11850'	11803-810'	MOROM	IBHP 4707
H. A. Townsend #9	Humble Oil	M-9-16-35	10548'			
State-lea "A" #2	Pure Oil Co.	C-10-16-35	11599'	10500-566	WFCF	
Lea State "A" #1	Pure Oil Co.	D-10-16-35	10585'			
State Lea "A" #3	Pure Oil Co.	E-10-16-35	10611'			
10 State #32	M. A. Machris	G-10-16-35	10659'			
State-lea "A" #4	Pure Oil Co.	F-10-16-35	10639'			
State 42-10	M. A. Machris	H-10-16-35	10664'			
New Mexico State-26 #1	Superior Oil	J-10-16-35	10663'			
St. N. M. "J" #2	Texas Pacific C&O	K-10-16-35	10640'			
St. N. M. "J" #1	Texas Pacific C&O	L-10-16-36	10550'			
State Lea "B" #1	Pure Oil	M-10-16-35	13048'	10500-538	WFCF	DST 12997-13048 Rec WB + 450' SW
Monsanto State #1	Mesa Petroleum	K-14-16-35	12012'	10416-426' 11849-859'	WFCF/Mor.	

270/A/4

WELL	OPERATOR	LOCATION	TD	COMPL. INTER.	HORIZON	MORROW TESTS
Edison #1	A. K. Trobough	F-15-16-35	12700'	12421-523'	DEVONIAN	
G. W. Nickson #1	Sinclair O & G.	G-15-16-35	12691'	12542-620'	DEVONIAN	
F. J. Danglede No. 1	Sinclair O & G.	J-15-16-35	12978'	12045-054'	WFCP	
J. D. Speight #1	Tom Brown	L-15-16-35	11760'			
Blackmon #1	Mesa Petro.	P-15-16-35	12962'		E & A	
H. M. State "AL" #1	Humble O & R	D-16-16-35	10691'			
Humble "A" State #1	Tom Brown Inc.	E-16-16-35	11960'	11903-912'	NORROM	DST 11816-96C Rec 566' GCM + 90' OCM INITIAL 3HP 4505
Lowe-State #1	Great Western	A-17-16-35	12581'	12449-465'	NORROM	DST 12423-576' Rec 1379' HSCM INITIAL 8HP 6283
State-lea "C" #2	Pure Oil Co.	B-17-16-35	10578'			
Jobbs "D" #1	Skelly Oil	C-17-16-35	10682'			
State Sta #1	Amerada	D-17-16-35	10750'			
Edison Com #1	Read & Stephens	K-17-16-35	13085'		D & A	
Mexico "R" #1	Skelly Oil Co.	A-18-16-35	10765'			
Mexico "R" #2	Skelly Oil Co.	B-18-16-35	10727'			
Mexico "R" #3	Skelly Oil	C-18-16-35	10736'			
State "C" #1	Skelly Oil	K-18-16-35	13647'	D & A		
State "GH" #1	Amoco Prod.	F-21-16-35	12900'	12392-627'	NORROM	DST 12180-316' Rec 1500' WB + 90' DF INITIAL 8HP 6450

270/A/5

<u>WELL</u>	<u>OPERATOR</u>	<u>LOCATION</u>	<u>TD</u>	<u>COMPL. INTF.</u>	<u>HORIZON</u>	<u>MORROW TESTS</u>
State HC #1	Amoco Prod.	K-21-16-35	13309'	D & A	MORROW	DST 12704-1300' Rec 3000' WB + 75' DM IPHP 4171
Edison Ranch "KL" #1	Vates Petro.	H-22-16-35	11620'	D & A		
Stokes #1	Delaware Apache	O-23-16-35	10630'			
Edison Ranch #1	Remuda Oil & Gas	E-26-16-35	12780'	8724'-86'	BS	
Edison "C" MN #3	Sinclair O & G	F-26-16-35	10442'			
J. E. Stokes et al #1	Ashmund & Hilliard	G-26-16-35	10490'			
Stokes #1	Remuda O & G	G-26-16-35	9000'			
Edison #1	Ashmund & Hilliard	J-26-16-35	10500'			
Edison "A" MN #4	Sinclair	K-26-16-35	10431'			
Edison "A" #3	Western Natural Gas	L-26-16-35	12675'	10342-378'	WFCP	
Hilliard Edison #2	Western Natural Gas	N-26-16-35	12688'	12474-484'	DEVONIAN	
NM 33 State Com. #1	HNG Oil	H-33-16-35	13000'	D & A		
NM 34 State Com. #1	HNG Oil	F-34-16-35	12900'	12448-502'	ATOKA	
Grambling-State #1	Western Natural Gas	A-34-16-35	12775'	12310-350'	PEIN	
Schaubauer #1	Monsanto	D-35-16-35	10550'			
State 28 No. 1	HNG	O-28-16-35	13051'	12,453-482'	Morrow	IP 2600 MCFD SIBHP 6170
Schaubauer Edison #1	Magnolia Petroleum	B-29-16-35	5300'			
Edison Com #1	Dorchester	G-28-16-35		13,050'	D&P	

270/V6

X-SECTION WELLS

BEFORE EXAMINER NUTTER
OIL CONSERVATION DIVISION
AMOCO EXHIBIT NO. 2
CASE NO. 6956

10-23

District 4

SCOUT TICKET

MN02801

K

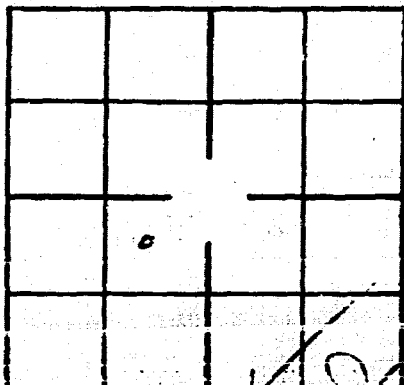
OUR NO.

7113

ELEV. 4055

COUNTY Lea

STATE New Mexico (Bideon Penn)



OPERATOR Buffalo Oil Co.

FARM State C

WELL NO. 1

SEC. 18 T. 16-S R. 35-E

SEC. BLK. SURVEY

LOC. FR. N. 1980 FR. S. FR. E. 1915 FR. W.

SPUD 8-29-53 COMP. 2-9-54 T.D. 13647' L.P.

CONTRACTOR TP

SHOT

T. AN. 1775 PROD. IP. P.E.A.

T. SALT GUN. OR.

B. SALT PRESSURE: CASING TUBING

T. YATES 2926 REMARKS:

T. GRAYBURG 4318 4310

T. S. A. 4540 (SET Taps)

T. GLOR. 6190 (6215)

T. C. F. 6762

T. 7 Rivers

T. TUBBS 7357

T. Queen 3845

T. 1100 12153

I. LITON

T. DEV.

T. Abo 8140 8145

T. SIL.

T. Wolf C. 9699

T. MONTOYA

T. Penn 10622

T. SIMPSON

T. Fuss

T. ELLEN

T. McKeg

Taps on bank

14500 test.

8-20-53	10600' test. location.		
AUG 26 1953	17114		Re. 1100 GCH + 35' C
SEP 2 1953	1406 RI		+ 900 GCSOCSH' CWT
SEP 9 1953	3100 Lm		5715 GCSH' W
SEP 16 1953	4657 dol		FP 3450 1400 3050
SEP 23 1953	5170 Lm	NOV 18 1953	TD 11010 Lm 11' Rm.
SEP 30 1953	TD 6583 Lm SDR		DST 10801-888
OCT 7 1953	7500 Lm		90' 4th 1000 Lm
OCT 12 1953	8910 Lm Sh.		Re. 1000 GCSH' + 40'
OCT 21 1953	9965 Lm		90' SHM
OCT 28 1953	10365 Lm	NOV 24 1953	FP 50.5 301.3540
NOV 4 1953	10725 Sh.	DEC 2 1953	11022 Lm
	10658-687 Re. 29' dol.		1125 Lm
	10657-710 Re. 19' dol.		DST 11058-076
NOV 10 1953	10885 Lm		90' 3th G:7
	10710-10751 Re. 37		Re. 650' GCH + 35'
	564 Lm		dol 83 gravity
	DST 10661-751	DEC 9 1953	FP 100-130 2051 16
	90' 1st 903 WB		11452 Lm 11
	Re. 1100 GCH + 35' M Lm - 100'		DST 11140-259
	FP 0		90' 5th G:12
	DST 10805-880		Re. 220' M + 30' GCH
	90' 2nd 1000 WB		FP 90 200' 690
	62:43		DST 11375-416
			90' 3rd 816

LOG

Rec 240 Oil + 30' 50' GCM
 EP 130-275 204.2765
 DEC 16 1953 d 11829 Lm Sh
 DIST 11924-527
 GO 2.50
 Pin Rec 150' GCM
 EP 100 204.300
 DEC 22 1953 d 12120 Lm
 JAN 6 1954 d 12694 Lm Sh
 JAN 13 1954 TO 12040 (Dist 1215 12040)
 JAN 20 1954 TO 13154 Lm Sh
 DIST 12899-13040
 GO 4 Lm 20100 R
 G 38 12.305 MCF
 Rec 418 + 930 H GCM Trace Dist
 EP 1060-1125 204.4370
 JAN 29 1954 d 13246 Lm Sh
 FEB 3 1954 d 13498 Lm Sh Ch
 FEB 10 1954

T. Ac. 1780 (+2275)
 T. Yates 2985 (+1070)
 T. San H. 4630 (-525)
 T. Clavette 6190 (-2135)
 T. Dr. Sd. 7400 (-3245)
 T. Abo 8025 (-3980)
 T. Wolfcamp 9695 (-5640)
 T. Penn (?) 10880 (-6825)
 T. Miss. ls. 13475 (-9420)

EDP TOPS

ONDD

COUNTY LEA FIELD Townsends STATE NH NH 02794

OPR GREAT WESTERN DRIG. CO. MAP

1 Lower - State

Sec 17 T-16-S. D-25-W CO-GRD

330' FNL, 330' FEL of Sec

Re-Spd 1-26-72

Re-Cmp 4-19-72

FORMATION	DATUM	FORMATION	DATUM
CLASS <i>OWF</i> E. 4033			
CSG & SZ TUBING			
11 3/4" at 367' w/850 sx			
8 5/8" at 4649' w/2200 sx			
5 1/2" at 10,565' w/375 sx			
4 1/2" at 12,581' w/900 sx			
LOGS EL GR RA IND MC A			
TD 12,581'			

IP (Morrow) Perfs 12,449-465' CAOF 2750 MCF/GPD. GOR 46,000
 Grav (gas) .710; (cond) 64; SIWHP 4670#

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CONT. Big West PROP DEPTH 11,900' TYPE RT
 DATE

*you will
 4-23-73*

F.R. 1-18-72; Opr's Elev. 4033' DF
 PD 11,900' RT (Morrow)
 Contractor - Big West
 BHL: 1977' FNL, 898' FEL of Sec
 (Orig. Pure Oil Co. #1 State - Lea "C", comp
 7-22-55 thru (Cisco) Perfs 10,508-548',
 OTD 10,566', OPB 10,560', Plugged Producer 10-20-70)
 2-1-72 TD 10,566'; Drig. by @ 7292'
 Drilled off w/Dyna Drill @ 7292'
 2-7-72 TD 10,566'; STD 7671'; Trip
 Drilled to 7889' & went back in old hole to 7922'
 PB to 7373' w/150 sx
 Drilled off w/Turbodrill @ 7622'
 2-14-72 TD 10,566'; Drig. by @ 8314' lm & sh
 2-21-72 TD 10,566'; Drig. by @ 9350' lm & sh

2-28-72 TD 10,566'; Drig. by @ 10,245' lm & sh
3-13-72 Drig. 11,420' lm & sh
 DST 11,238-396', open 3 hrs 15 mins, rec 60'
 oil + 30' G&OCM + 590' sli G&OCM, 1 hr ISIP
 5244#, FP 332-332#, 2 hr FSIP 1135#, HP 5289-
 5289#
3-20-72 Drig. 11,916' lm
3-27-72 TD 12,082'; Fshg
4-3-72 Drig. 12,301' sd & sh
4-10-72 TD 12,581'; Prep DST (Morrow)
4-17-72 TD 12,581'; Prep Perf
 DST (Morrow) 12,423-576', open 2 hrs 30 mins,
 GTS during pre-flow @ max 570 MCFGPD thru
 1/4" chk, SFP 280#, rec 1379' HGCM, (Sampler
 rec 200 cc's cond & mud) 1 hr ISIP 6282#,

4-17-72 Continued
 FP 663-1228#, 2 hr FSIP 6283#, HP 6842-
 6842#
 Ran 4 1/2" Casing
4-24-72 TD 12,581'; Tstg
 Perf 12,449-465' w/2 SFP
 Flwd @ 2516 MCFGPD thru 12/64" chk, 30 min
 SITP 3200#
 Flwd @ 3 1/2 B cond PH in 2 hrs thru 1/4" chk,
5-1-72 TD 12,581'; WO OCC Potential
 CAOF 2750 MCFGPD (12,449-465')
5-8-72 TD 12,581'; COMPLETE
 (Morrow) FOUR POINT GAUGES:
 Flwd 637 MCFGPD, 7/16" orifice, 1 hr, TP 4220#
 Flwd 1158 MCFGPD, 5/8" orifice, 1 hr, TP 3701#
 Flwd 1755 MCFGPD, 5/8" orifice, 1 hr, TP 2944#
 Flwd 2517 MCFGPD, 5/8" orifice, 1 hr, TP 1639#

5-8-72

Continued

Side Track Hole LOG TOPS: Tubb 7303',
Abo 7944', Wolfcamp 8574', Cisco 10,690',
Strawn 11,836', Atoka 12,014', Morrow Pay
12,442', Mississippian 12,542'

5-13-72

COMPLETION REPORTED

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STATE NM

APR 30-025-24452

1870 *curcul*

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CO-ORD *Cm/34*

LEV. 4036 L.A.

CLASH

FORMATION

DATUM

FORMATION

DATUM

TUNE

13-065

11

PLUGGED & ABANDONED

CONTR Markham

OPRS ELEV

12.200'

TYPE RT

7-5-73

2. 8. 2673

$$\begin{array}{r} 26 \\ 26 \\ \hline 52 \end{array}$$

Lag tree'd
(5-13-74)

F.R. 7-2-73

(MORROW)

7-9-73

Dr 1g 3284'

7-16-73

7110 5400

7-23-73

Drig 8100' 1m

7-30-73

Drlg 10.298' 1m

8-6-73

Dir lg 11,300' lm & sh

8-13-73

Dr 18 12 015"

8-13-73

Gas Kick @ 11:30-11:31

8-20-73

Dr 18 12 494'

DST (Strawn) 12,035-12,097', open 1 hr, DP collapsed, 1 hr ISIP 2317#, FP 1011-1011#, 30 min FSIP 1507#, HP 6679-6640#, BHT 165 deg

LEA
READ & STEVENS

Wildcat
1 Eidson Com

NM Sec 17, T16S, R35E
Page #2

8-27-73

TD 13,085'; Rng logs

9-4-73

TD 13,085'; PBD 4634'; Swbg

Perf 4236-4248'

Acid (4236-4248') 15,000 gals

Swbd dry-

Acid (4236-4248') 750 gals

Swbd 40 BLW + 20 BNW

9-10-73

TD 13,085'; PLUGGED & ABANDONED

Swbd wtr

SAMPLE TOPS: Abo 890', Seaman 11,295', Strawn
12,125'

LOG TOPS: Anhydrite 1837', Salt 1948', Yates
3028', Queen 3930', San Andres 4706', Clearfork
6849', Wolfcamp Lime 9840', Cisco 11,098',

9-15-73

Atoka Shale 12,108', Morrow 12,645', Mississippian
13,040'

COMPLETION REPORTED

6-12-72

Continued

DST 11,816-960', open 2 hrs, GTS 30 mins @
260 MCFGPD, rec 566' GCM + 90' OCM, 1 hr 30
min ISIP 2981#, FP 138-184#, 1 hr 20 min
FSIP 4505#, HP 6:57-6:182f

6-20-72

TD 11,960'; Flwg 1d
Perf 11,903-912' w/4 SFF
Acid (11,903-912') 250 gals MA
Acid (11,903-912') 2000 gals (7½%)

6-26-72

TD 11,960'; Tstg

7-17-72

TD 11,960'; Tstg

7-24-72

TD 11,960'; COMPLETE

LOG TOPS: Anhydrite 1875', Yates 3045', San
Andres 4640', Glorieta 6220', Tubb 7400',
Pennsylvanian 11,665', Mississippian 11,940'

566
90
656
7914

7-29-72

COMPLETION REPORTED

566
90
656

Dist. 4

SCOUT TICKET

OUR NO.

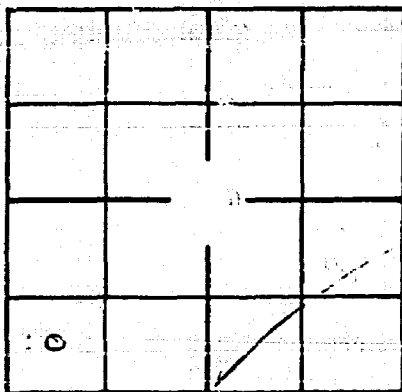
6627

COUNTY Lea (3/4 mile SW of Stanolind Lea #45981)

STATE New Mexico (Wildcat)

MINO2719

ELEV. 4014



11 3/4 324 450

8 1/2 4673 2550

OPERATOR The Pure Oil Co.

FARM State Lea "BN"

WELL NO. 1

SEC. 10 T. 16-3 R. 35-E

SEC. BLK. SURVEY

LOC. FR. N. 660 FR. S. FR. E. 660 FR. W.

SPUD 12-9-52 COMP. 6-20-53 T.D. 1924' 6" PB 5.00

CONTRACTOR TP

SHOT

T. AN. 12.35 PROD. IP

T. SALT GOR. GR.

B. SALT PRESSURE: CASING TUBING

T. YATES 3029 REMARKS:

T. GRAYBURG

T. S. A. 4543

T. GLOR. 1190

T. C. F. 6740

T. TUBBS 2537

T. MISS. 11970

T. DEW 13960

T. SIL.

T. MONTOTA

T. SIMPSON

T. ELLIN

Set Taps

QUEEN

SEVEN R.

DRINK

BRO. 8060

W.G. 9424

PUSS

McKEE

CANYON 10607 TUNOOD 12820

12-4-52	14000' test, BR				
DEC 10 1952	RURT		MAR 11 1953	E 10400-402 Rm 1 log	
DEC 17 1952	TD 3049 An. Fish			TD 10505' 11' 11" 11"	
DEC 22 1952	φ 3967 An. del.			E 10402-447 Rm 2-5	
JAN 6 1953	TD 4662' Rm. DST			Sh Ch.	
	DST 4750-4862			E 10447-455 Rm 2' 11" 11"	
	φ 1.30			E 10455-505 Rm 50' 11" 11"	
	Rm 90 S.G.C.M.		MAR 18 1953	E 10663' 11" 11"	
JAN 14 1953	φ 6170' 11" 11"		MAR 25 1953	φ 10. 644' 11" 11"	
	DST 4613-4862			E 10643-600 Rm 4' 11" 11"	
	φ 1.10			10' Rm 11' 11" 11"	
	Rm 30 S.G.C.M.			14' " Rm 11' 11" 11"	
JAN 21 1953	φ 2255' 11" 11"			order Rm 11' 11" 11"	
JAN 28 1953	φ 8015' 11" 11"			4' Sh.	
FEB 4 1953	φ 8664' 11" 11"			12' 2nd coll. 11' 11" 11"	
FEB 11 1953	φ 9290' 11" 11"			1' 11" 11" 11"	
FEB 18 1953	φ 9730' 11" 11"			DST 10609-692	
FEB 25 1953	φ 10175' 11" 11"			φ 2' 11" 11"	
MAR 4 1953	TD 10402' 11" 11" Sh. Fish			Rm 90 M	
	E 10273-279 Rm 5' 11" 11"			FP 70 20.1.70	
	E 10367-400 Rm 31'				
	14' dark Brown Rm 11' 11" 11"				
	13' " " 11' 11" 11"				
	4' BK 5614' 11" 11"				

LOG

APR 1	1953	d 11 130 l m Sh.
APR 8	1953	E 11 310 l m E 11 262-372 Rm 50' Sh, l m
APR 15	1953	d 11 454 l m E 11 272-384 Rm 53' gray tan l m & Sh. Por. E 11 304-359 Rm 35' l m, Sh. Por. DIT 11 291-359 CP 120 Rm 35' S&CM EP 70 135' 70
APR 22	1953	d 11 612 l m Sh.
APR 29	1953	d 11 919 l m
MAY 6	1953	d 12 076 l m Sh.
MAY 13	1953	d 12 227 l m Sh.
MAY 20	1953	d 12 327 l m Sh.
MAY 27	1953	d 12 473 l m Sh.
JUN 3	1953	d 12 651 l m Sh.
JUN 10	1953	d 12 834 l m Sh.
JUN 15	1953	+ 13 025 m m l.
JUN 24	1953	TD 13045 del PB 8260 TSTG E 12992-13045 Rm 51' del Por Print Por. DIT 13000-13045 CP 225C 2000 WB Rm 450' SHU = 570' SHU EP 250-300 200' 5250 Rm 075 Velocity PB 8260 Total 2106-2252 Sub day JUL 1 1953 TD 13045 del PB 8260 PKF 8096-8106 Sub used
T. A-Lodriges 1240 (+0174)		
T. Kufse 2051 (+949)		
T. Queen 2605 (+129)		
T. San Andres 4625 (-611)		
T. Clavio 6130 (+2176)		
T. Drinkwater SD 7345 (-3331)		
T. Als 9060 (-4046)		
T. K.L... 9370 (-5356)		
T. Miss. Is 11910 (-7856)		
T. Woodford Sh. 12015 (-2801)		
T. Derrington 12960 (-8946)		

COMPANY **V-F PETROLEUM, INC.** (W. L. Insler)
 NO. **15. T-16-S. R-35-E**
 1980' FSL. 1960' FEL of Sec

STATE **NM**
 API NO. **02791**
 SERIAL **OWO**
 MAP
 CO-ORD

SPD CSE	DATE	CLASS		ELEV		L & S	
		FORMATION	DATUM	FORMATION	DATUM		
13 3/8" at 325' w/350 sx 9 5/8" at 4710' w/2000 sx 7" at 12,978' w/500 sx	3-15-73						
		TO 12,978'		PBD 11,330'			

IF (Strawn) Perfs 10,954-989' P 62 BOPD. Pot based on 24 hr test. GOR 1871; Grav NR

CONTR OPR ELEV 3987' GL PD 11,330' TYPE WO

F.R.C. 4-7-73

(Strawn)
 (Orig. Sinclair Oil & Gas Co., comp 11-21-56 thru (Devonian) Perfs 12,638-668', OTD 12,978', OPB 12,938'; OWO & Re-Cmp 8-16-58 thru (Strawn) Perfs 10,954-980', OPB 11,472'; OWO & Re-Cmp 3-16-72 thru (Morrow) Perfs 11,417-435', OPB 11,472')

4-2-73 TD 12,978'; PBD 11,330'; COMPLETE
 PB to 11,330'

Perf 10,954-989' w/1 SPF
 Acid (10,954-989') 2000 gals (15%)
 COMPLETION REPORTED

4-7-73

COUNTY	LEA	FIELD	Townsend	OWO	STATE	MN 02791
OPR	V-P PETROLEUM				MAP	
1. Danglede Co. Com						
Sec 15, T-16-S, R-35-E				CO-ORD		
1980' FSL, 1980' FEL of Sec						
Re-Cap 3-16-72		CLASS	OWO EL 39972			
		FORMATION	DATUM	FORMATION	DATUM	
CSG & SX - TUBING						
13 3/8" at 325' w/350 sx						
9 5/8" at 4710' w/2000 sx						
7" at 12,978' w/500 sx						
LOGS EL GR RA IND MC A						
		TD 12,978'; PBD 11,472'				
IP (Morrow) Perfs 11,417-435' CAOF 15,200 MCFGPD. GOR 13,900;						
Grav (gas) .636; (Cond) 62.6; SIWHP 3461#						

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CONT. DATE PROP DEPTH 11,435' TYPE WO

4-4-72 F.R.C. 4-8-72; Opr's Elev. 3987' GL
PD 11,435' WO (Morrow)
(Orig. Sinclair Oil & Gas Co. #1 Danglede, F. J.
comp 11-21-56 thru (Devonian) Perfs 12,638-668',
OTD 12,978', OPB 12,938'; OWO & Re-Cap 8-16-58
thru (Strawn) Perfs 10,954-980', OPB 11,472'
TD 12,978'; PBD 11,472'; COMPLETE
Sqzd (10,954-980') w/150 sx
CO to 11,472'
Perf 11,417-435' w/4 SPF
(Morrow) FOUR POINT GAUGES:
Flwd 1209 MCFGPD, .750" orifice, 1 hr, TP 3355#
Flwd 2419 MCFGPD, .750" orifice, 1 hr, TP 3196#
Flwd 3774 MCFGPD, .750" orifice, 1 hr, TP 2971#
Flwd 4889 MCFGPD, .750" orifice, 1 hr, TP 2730#
4-9-72 COMPLETION REPORTED

COUNTY Lea

Lea

STATE New Mexico

New Mexico

(Wildcat)

OPERATOR Sinclair Oil & Gas Co.

EARN F. J. Dangle

WILL No. 1

8965

FILED 2112

334

A 4x4 grid of squares. A thick black cross is drawn over the grid, with its vertical bar centered between the second and third rows and its horizontal bar centered between the second and third columns. A small black dot is located in the square at the intersection of the third row and the fourth column.

See Back pg-

12 $\frac{3}{4}$ 325 350

9 5/8 4710 2000

7ⁿ 12,972 500

13,200' Test

T. Wood 12305

6-20-56	Location.	SEP 2 1956
JUN 27 1956	Q 2285 A.E.S.	Q 11222.5d.5h
JUL 3 1956	Q 4285 A.E.S.	QST 10840-221
JUL 11 1956	Q 5136 Lm	Q 12424
JUL 18 1956	Q 6558 Lm	Q 5117
JUL 25 1956	Q 7558 Lm Sh	Q 8437
AUG 1 1956	Q 8515 Lm	REC. WB + 10 M
AUG 8 1956	Q 9480 Lm	EP 915 30 Sip 1025
AUG 15 1956	Q 10,063 Lm Sh	QST 10912-996
	QST 9640-9677	Q 1045 30 Sip 1025
	Q 130	REC. WB + 10 M
	REC. 1000 WB + 30 M	EP 920 30 Sip 1025
	EP 435 30 Sip 560	QST 10999-10035
AUG 22 1956	Q 10,519 Lm Sh	Q 130 30 Sip 1025
AUG 29 1956	TD 10855 Lm QST	REC. WB + 25 M
	QST 10606-624	EP 920 30 Sip 1025
	Q 130	TD 10416 Lm Sh 511
	REC. 960 WB + 10 M	Well Blow out Gas @
	EP 430 30 Sip 360	10416 at 4 to 5 Meters
	QST 10779-840	CERD with spray of oil
	Q 165 1263 WB	
	REC. 1063 HOSGWB	
	+ 60 OFGCM	
	EP 900 30 Sip 1410	

LOG

CT 3	1956	d 115871m Cl			
CT 1	1956	d 118101m Cl			
CT 17	1956	d 121021m Cl			
CT 24	1956	d 124412 5h			
CT 31	1956	T.D. 1262R del	DST 1257R-622		
		DST 12430-460			
		qp. PKR failed			
		DST 12445-478			
		qp. 3hrs. 5:205			
		Rec. 1500WA + 764 Oil + 100 HOE6CM			
		EP 765-885 30 Sip 5000			
		DST 12475-522			
		qp. 4hrs. 5:78			
		Rec. 1580 WA + 8847 Oil gn 54.9			
		+ 278 M50CW			
		EP 842-9150 30 Sip 5030			
		DST 12524-572			
		qp. 1hr.	T. Anhy		
		Rec. 1530 WA + 30 M	T. Del. Is.		
		EP 760 30 Sip 980	T. Yates		
NOV 7	1956	T.D. 125221m	DST		
		DST 12576-628	T. Queen		
		qp. 50	T. S. Andreas		
		Rec. 1200 WA + 60 M	T. Glorietta		
		EP 855 30 Sip 2075	T. J. Spring		
		DST 12626-678	T. Dr. Sd.		
		qp. 1hr.	T. Wollman		
		Rec. 1530 GCWA + 60 O.E.6CM Whisky Salty	B. Permain		
		EP 795-818 30 Sip 4690	T. Miss		
		DST 12674-722	T. Woodford		
		qp. 1hr.	T. Devonian		
		Rec. 1800 WA + 80 Salty M. + 20 Menn	T. U. Sil.		
		EP 885-915 30 Sip 4120	T. Fuss.		
		DST 12726-778	T. Montoya		
		qp. 1.55	T. Sheppard		
		Rec. 1800 WA + 10 M	T. McKee		
		EP 860 30 Sip 1085	T. Ellen		
		DST 12766-822	T. Grants		
		PKR failed			

SCOUT TICKET

OUR No.

8965

COUNTY Lea County

MN02191 J

STATE New Mexico

Wildcat

ELEV.

OPERATOR Sinclair Oil & Gas Co.

FARM F. J. Danglede

WELL NO. 1

SEC. 15 T. 16-S 2 R. 35-E

SEC. BLK. SURVEY

LOC. FR. N. 1980 FR. S. 1980 FR. E. FR. W.

SPUD. COMP. T.D. PS

CONTRACTOR TP

SHOT

T. AN. PROD. IF

T. SALT GOR. GR.

B. SALT PRESSURE: CASING TUBING

T. YATES REMARKS:

T. GRAYBURG T. 7-RIVERS

T. S. A. T. QUEEN

T. GLOR. T. PENROSE

T. C. F. T. DRINK

T. TUNNE T. ASO

T. MISS. T. BONE-SPR.

T. DEV. T. WOLF G.

T. SIL. T. PENN.

T. MONTOYA T. FUSS.

T. SIMPSON T. MCKEE

T. ELLEN

NOV 21 1955 TO 12978 ch/ Run C39

DST 12766-828

op. 1 hr.

Rec. 1800 WD + 100.56 CM

EP 860 70.5 in 4870

DST 12826-928

op. 1 hr.

Rec. 1800 WD + 60.56 CM

+ 60.56 CM

EP 890-925 70.5 in 5185

DST 12926-978

op. 1 hr.

Rec. 1800 WD + 379.5 du/w

EP 890-1050 70.5 in 1070

side wall E 114.33 Rec. sd

gas odor.

NOV 21 1956

TO 12978 ch/ PH 12

7376

Perf 122 12638-68

PKR 12457

A/500 12638-68

NOV 26 1956

TO 12978 ch/ PH 12

A/2000 12638-68

2nd Re-comp

12-13-71

perf 11417-435

CAOF 15.2 mmcf

+ 72 B Cond / m

LOG

T. Anbr.	1982	-2116	
T. Del. Lo.			
T. Yates	3030	-728	
T. Queen			
T. S. Andrew	4650	-652	
T. Giorio	6155	-2157	
T. B. Spring			
T. Dr. Sd.	7320	-3322	
T. Abo	9052	-4054	
T. Wolfenb.	9410	-3412	
B. Per. 30	10440	-6442	EDP TOPS
T. Penn.			
T. Miss.	71460	-7462	
T. Wol. Card	17242	-8215	
T. Devonish	12422	-8424	
T. U. S. 1			
T. Fur.			
T. Mont. 30			RENT F. I. YLR
T. Steps			
T. McKee			
T. Ellen			
T. Grand.			

PROPERTY		Shoe Per. N. & Townsend		30-025-24895	
MESA PETROLEUM CO.				11-15-74	
1 MESA Monsanto State				11-22-74	
Sec 14, T-16-S, R-35-E				11-22-74	
1980' FSL, 1980' FWL of Sec				11-22-74	
8 mi N & 4 mi E/Buckeye				11-22-74	
11-10-74		1-21-75		11-22-74	
13 3/8" at 358' w/375 sx 9 5/8" at 4168' w/350 sx 4 1/2" at 12,012' w/975 sx		WELL CLASS: INT		DO	
		FORMATION		DEPTH	
		12,012' (MSSR)		11,912'	
IP (Wolfcamp) Perfs 10,416-426' F 343 BOPD. Pot based on 24 hr test thru 24/64" chk. GOR 1064; Grav 40; TP 160# IP (Morrow) Perfs 11,849-869' F 2400 MCFGPD. Pot based on 24 hr test thru 32/64" chk. TP 375#					
-Robinson Bros. 3980' GL, 3993' KR 12,200' R					

3-29-75 AMEND FIELD NAME: Formerly reported as Townsend
11-11-74 TD 360'; WOC
11-18-74 TD 4168'; WOC
12-2-74 Drlg 8245' lm & sh
12-9-74 Drlg 10,140' lm & sh
12-16-74 Drlg 10,580' lm
12-30-74 TD 12,012'; Rng Logs "Tight"
2-24-75 TD 12,012'; "Tight"
3-3-75 TD 12,012'; PBD 11,914'; Complete
Cored 10,406-454'; rec 37' sli vuggy lm
Cored 10,454-486'; rec 32' lm & sh
DST 10,405-486'; Mis-Run
DST 10,292-486'; open 3 hrs 2 mins, GTS in 28
mins @ 117 MCF/GPD, rec 9909' GIDP + 200' oil +

3-3-75

Continued
120' GSOCM, 2 hr ISIP 3924#, FP 532-1168#,
5 hr 3 min FSIP 3899#, HP 4756-4658#
DST (Strawn) 11,271-344', open 1 hr 30 mins,
(1310' WB), rec WB, 3 hr 2 min ISIP 1059#,
FP 640-640', no FSIP, HP 5286-5273#
Perf (Morrow) 11,849-869' w/2 SPF
Acid (11,849-869') 3000 gals
Flwd 2400 MCFGPD in 24 hrs thru 32/64" chk,
TP 375# (11,849-869')
Perf (Wolfcamp) 10,416-426' w/2 SPF
Acid (10,416-426') 4000 gals
TD 12,012'; PFD 11,914'; COMPLETE
Morrow Completed 1-15-75

3-24-75

3-24-75

Continued
LOG TOPS: Yates 3112', Queen 3975', San
Andres 4720', Glorieta 6240', Tubb 7456',
Abo 8158', Wolfcamp 9523', Strawn 11,270',
Atoka 11,395', Mississippian 11,892'

3-29-75

COMPLETION REPORTED

4

IP (Abo) Perfs 8724-86' P 101 BOPD + 110 BW. Pot based on
24 hr test. GOR 1000; Grav 33

CONTR Well Unit, Inc. OPRS ELEV 3984' DF PD 9200' TYPE WO

(Abo)

(Orig. Western Natural Gas Co., #1 Eidson "D",
comp 10-21-57 thru (Devonian) Perfs 12,680-
726', OTD 12,780', OPB 12,779'; OWO & Re-Cmp
10-7-61 thru (Pennsylvanian) Perfs 10,460-484',
OPB 10,500'; Plugged Producer 5-8-67)
TD 12,780'; PBD 8850'; COMPLETE
CO to 8850'

2-26-73

Perf (Abo) 8724-38', 8773-86' w/1 SPF

Acid (8724-86'), 11,500 gals

3-3-73

COMPLETION REPORTED.

SCOUT TICKET

Our No.

9746

Elev. 3984

COUNTY LeaSTATE New Mexico

Shoe Bar Devonian

MN02605

OPERATOR W. Shuman Natural Gas Co.
 FARM Eldson nph WELL NO. 1
 SEC. 26 T. 16S R. 35E
 SEC. BLK. SURVEY
 LOC. 1980 FR. N. FR. S. FR. E. 990 FR. W.
 SPUD. 6-30-57 COMP. 10-12-57 T.D. 12750' m PS 12779
 CONTRACTOR Rot. Parker Dr. Ig. TP 12680' Rev.
 SHOT 415000
 T. AN. 1481 PROD. IP E 376 80 + 91.5' m
 T. SALT 2084 GOR. GR. 50
 B. SALT 5180 PRESSURE: CASING TUBING
 T. YATES 5180 REMARKS: 2" 2"
 T. GRAYBURG Ref 12680-726
 T. S. A. 4788
 T. GLOR. 6254
 T. C. F. 6877
 T. TUBBS 7497
 T. MISS. 11820
 T. DE. 11820
 T. SIL. 11820
 T. MONTOYA 11820
 T. SIMPSON 11820
 T. ELLEN 11820
 T. 7 RIVERS
 T. QUEEN 1044
 T. PENROSE
 T. DRINK
 T. ABO 8220
 T. BONE SPR.
 T. WOLF C. 9512
 T. PENN. Canyon 10476
 T. FUSS 11176
 T. MCKEE Bend 11500

STANDARD B & P "NOTEPAR" ®

13" 327 4009 5/8 4920 50005 1/2 12779 900

12,750' Test

Date	Loc.	Notes
6/27/57	Loc.	SEP 11 1957 <u>415000 m. sh</u>
AUG 2 1957	<u>TD 327 RB RURT</u>	SEP 18 1957 <u>41699 m. sh</u>
AUG 10 1957	<u>41027 m</u>	SEP 25 1957 <u>412060 m</u>
AUG 17 1957	<u>41707 m</u>	OCT 2 1957 <u>412372 m. sh</u>
	<u>E 4031 - 4071 P. m</u>	OCT 9 1957 <u>TD 12705 d. 1 DST</u>
	<u>40 dense sdy m</u>	OCT 16 1957 <u>TD 12780 m Run log</u>
AUG 24 1957	<u>415173 m</u>	<u>DST 12688-705</u>
AUG 31 1957	<u>41629</u>	<u>PRR failed</u>
AUG 7 1957	<u>418290 m</u>	<u>DST 12688 - 705</u>
AUG 14 1957	<u>419000 m</u>	<u>CD 1.10 1000 wlb</u>
AUG 21 1957	<u>410071 m</u>	<u>Rec wlb + 100 M hold log</u>
AUG 28 1957	<u>TD 10505 m Run log</u>	<u>FR 560 205 p 1205</u>
SEP 4 1957	<u>410848 m. sh</u>	<u>DST 12689-705</u>
	<u>DST 10450-526</u>	<u>CD 4.47 1000 wlb</u>
	<u>CD 1.15 1000 wlb</u>	<u>Rec wlb + 20 M</u>
	<u>PRR failed</u>	<u>FR 470 305 p 1215</u>
	<u>Rec wlb + 500 505 GCM</u>	<u>DST 12689-730</u>
	<u>+ 370 M + 500 GCM</u>	<u>CD 4.45 1000 wlb</u>
	<u>DST 10412-528</u>	<u>Rec wlb + 90 M</u>
	<u>CD 3.45 1000 wlb</u>	<u>FR 560-580 305 p 1210</u>
	<u>G. 3.79</u>	<u>DST 12722-780</u>
	<u>Rec 1000 056 GCM + 300</u>	<u>CD 4.45 1000 wlb</u>
	<u>Oil + 620 405 GCM</u>	<u>G 2.40</u>
	<u>FR 605-825 305 p 12765</u>	<u>Rec wlb + 480 Dist</u>
		<u>+ 120 1000 wlb</u>

STANDARD B & P "NOTEPAR" ®

23 1957 EP 125-730 50.50 4055
 TO 12750 12750
 Pent 51 12650-694
 " 80 12706-726
 A/5000
 F 63 AD + 21 Atwe 1W 5hr

30 1957

T. Andy. 1112 -2002

T. Del. La.

T. Yates 2:52 -3:52T. Queen 4595 -51T. S. Andres 4727 -103T. Charlotte 4272 -1288

T. J. BORIN

T. Dr. So. 7415 -3511T. Am. 1213 -4239T. W. 1:15 -1:21

FDP 1025

B. Parnian

T. Penn. Sr. 11232 -7248T. Miss. 1130 -7526T. Woodford 12533 -1577T. Deverian 12672 -894

T. U. Sil.

T. Fues.

T. Montoya

T. Simpson

T. P. --- ---T. E. --- ---T. G. --- ---

Petroleum Information.

LEA TOWNSEND STATE NM (SW)
 AMOCO PRODUCTION CO. API: 30-025-26154
 1 State "GH" MAP 533 NE
 Sec 21, T16S, R35E TOWNSEND
 1980' FNL, 1980' FWL of Sec 4-4-24 NM
 7 mi NE/Buckeye WPI 12-6-78 CWP 3-7-79

13 3/8" at 423' w/400 sx
 9 5/8" at 4550' w/1550 sx
 5 1/2" at 12,900' w/2300 sx

WELL DATA	INITIAL	DATE	TIME	DEPTH
12,900' (CSTR)				12,866'

IP (Morrow) Perfs 12,392-627' F 11,000 MCFCPD. Pot based on
 24 hr test thru 20/64" chk. GOR (NR); gty (NR); CP Pkr; TP
 2000#

CONTR Delta #3 (OPR) 111V 4005' GL to 13,000' RT

5/22/79
 Log Rec'd.

F.R. 12-4-78
 (Morrow)
 12-8-78 TD 425'; Rep BOP
 12-11-78 Drlg 1070'
 12-28-78 Drlg 4470'
 1-5-79 Drlg 4579' anhy
 1-12-79 Drlg 7008' chr
 1-19-79 Drlg 9270' sh
 1-26-79 Drlg 11,010' sh
 2-1-79 Drlg 12,260' 1m & sh
 2-9-79 TD 12,404'; "Tight"
 2-13-79 Drlg 13,468' "Tight"
 2-23-79 TD 12,900'; Prep Run Csg
 DST (Morrow) 12,180-316', open 38 mins, rec 1500'
 WB + 90' DF, 1 hr 38 min ISIP 1191#, FP 829-782#,
 1 hr 30 min FSIP 902#, HP 6325-6312#, BHT 183 deg
 4-4-24 NM

LEA
AMOCO PRODUCTION CO.

Townsend
1 State "GH"
Sec 21, T16S, R35E

NM
Page #2

2-26-79 TD 12,900'; MORT
3-9-79 TD 12,900'; PBD 12,866'; SI/BHP
Perf (Morrow) 12,611-627' w/4 SPF
Flwd 1100 MCFGPD in 11 hrs thru 30/64"
chk, TP 4800# (12,611-627')
3-29-79 Perf (Morrow) 12,392-410' w/2 SPF
TD 12,900'; PBD 12,866'; WOSP
Flwd 11,000 MCFGPD in 24 hrs thru 20/64"
chk (12,392-627')
4-23-79 TD 12,900'; PBD 12,866'; Complete
Natural
LOG TOPS: San Andres 4808', Glorieta 6327',
Tubb 7575', Wolfcamp 9742', Cisco 10,719',
Scrawn 11,790', Atoka 11,934', Morrow
4-4-24 NM

4-23-79 Continued
12,240'. Chester 12,848'
LOGS RUN: CNDL, DILL
Rig Released 2-25-79
4-28-79 COMPLETION ISSUED

4-4-24 NM
IC 30-025-70409-78

Petroleum Information.

COMPANY **AMOCO PRODUCTION CO.** STATE **NM**
 NO **1** LEASE **State "HC"** API **30-025-26270**
 Sec **21, T16S, R35E** MAP **40 522 NE**
1980' FSL, 1980' FWL of Sec **9-3-12 NM**
7 mi NE/Buckeye SPD **3-5-79** (MP) **8-27-79**

13 3/8" at 408' w/400 SX
 9 5/8" at 5203' w/1750 SX

WELL CLASS: INIT D PIN D ELEV (102) DEES			
FORMATION	DATUM	FORMATION	DATUM
			4004 OR
ID 13,309' (MRRW)		PND	

DRY & ABANDONED

CONTR **MCF #26** OPENED **4008' GL** PD **13,000' RT**

F.R. 3-19-79
 (Morrow)
 4-6-79 TD 408'; WOC
 4-16-79 TD 4920'; Trip
 4-20-79 TD 5203'; Prep Drill
 4-30-79 TD 8730'; Trip
 5-4-79 Drlg 10,115' lm
 5-10-79 Drlg 11,301' lm & sh
 DST (Cisco) 11,150-246', open 2 hrs 30 mins,
 rec small amt FO + 1300' WB (Sampler rec 450
 CFG + 100 cc's oil + 950 cc's GCM @ 450#), 1 hr
 30 min FSIP 1761#, FP 678-678#, 2 hr 30 min FSIP
 1108#, HP 5905-5905#, BHT 164 deg
 5-18-79 Drlg 12,393' lm & sh
 5-23-79 TD 12,910' lm & sh; Rng DST
 6-1-79 TD 13,001'; PBD 8400'; Prep Run Dynadrill

9-3-12 NM

LEA
AMOCO PRODUCTION CO.

Townsend
1 State "HC"
Sec 21, T16S, R35E

NM
Page 2

6-1-79 Continued
DST (Morrow) 12,704-13,001', open 1 hr,
rec 3000' WB + 75' DM (Sampler rec 2.1 CFG +
1700 cc's mud @ 1050#), 1 hr ISIP 2750#, FP
1585-1607#, 2 hr FSIP 4171#, HP 7468-7377#,
BHT 190 deg
6-8-79 TD 13,001'; ST-TD 9213' Trip
PB to 8400' & Drilled off
6-15-79 TD 13,001'; Drlg by @ 9725' lm
6-22-79 TD 13,001'; Drlg by @ 10,522' lm
6-29-79 TD 13,001'; Drlg by @ 11,334' lm & sh
7-6-79 TD 13,001'; Drlg by @ 11,874' lm & sh
7-11-79 TD 13,001'; Drlg by @ 12,447' lm & sh
9-3-12 NM

7-20-79 Drlg 13,171'
7-25-79 TD 13,309'; D&A
9-10-79 TD 13,309'; Dry & Abandoned
Will Re-Issue If Log Tops Become Available
9-15-79 COMPLETION ISSUED

9-3-12 NM
IC 30-025-70093-79

LEA
HMC OIL CO.

Shoebar, S.
1 N. M. State "28"
Sec 28, T16S, R35E

NM
Page #2

4-9-79

TD 13,055'; PBD 12,969'; Complete
(Atoka) FOUR POINT GAUGES:

Flwd 349 MCFGPD, 1.5" orifice, 60 mins,
TP 4692#

Flwd 719 MCFGPD, 1.5" orifice, 60 mins,
TP 4592#

Flwd 1331 MCFGPD, 1.5" orifice, 60 mins,
TP 4395#

Flwd 2538 MCFGPD, 1.5" orifice, 60 mins,
TP 3947#

LOG TOPS: Yates 3210', San Andres 4890',
Glorieta 6394', Tubb 7665', Wolfcamp
9815', Pennsylvanian 11,338', Strawn
11,870', Atoka 12,040', Mississippian
12,942'

4-2-5 NM

4-14-79
4-28-79

COMPLETION ISSUED
RE-ISSUE TO AMEND FIELD NAME & LEASE
NAME: Formerly reported as Wildcat &
State "28"

4-2-5 NM
IC 30-025-70003-79

Fr. From Line: N _____ E _____ S _____ W _____

Property
No. _____
Ctr. _____

Date Completed 9-1-77 TO 13, 231
PFS _____ IP _____
CH _____ TP _____ GOR _____ GTY _____

[illegible]

Other _____

[illegible][illegible]

CONTR	OPRSELEV	3999' GL	PD 13,000' RT
	F.R. 4-2-79		
	(Morrow)		
8-20-79	AMEND LOCATION: Formerly reported as 660'		
	FNL. 1980' FWL of Sec		

(see back)

IC 30-025-70119-79

TOWNSEND (Morrow): (4-2-79); 13,000' RT; ne nw Sec 28-16s-35e; 1960' FNL.
1980' FEL Sec; 7 mi N/Buckeye; Opr's Elev. 3998' G. Cont'r/Forster #4.
WELL HISTORY: Spud 9-5-79; 13-3/8" 424'/450' sx; 9-5/8" 4600'/1220' sx; DST
(CSCD) 40,850-920'; op 1 hr w/weak blow, rec 2000' WB w/lt Oil + 160' Mud
(Sampler rec 1.4 CFG @ 650' + 2000 cc's GCM), 1 hr ISIP 4037#, FP 902-928#
1 hr 30 min FSIP 3500#, HP 4995-4995#, BHT 160 deg; DST (ATOK) 12,385-500',
op 1 hr w/weak blow, rec 4000' WB + 10' GCDM (Sampler rec 3 CFG + 800 cc's DM @ 1200#), 1 hr ISIP 2893#,
FP 1794-1794'; 1 hr 30 min FSIP 4723#, HP 6828-6809#, BHT 176 deg; DST (MRRW) 12,951-13,050'; op 3 hrs 5
mins w/good blow, GTS in 50 mins @ 3450 MCFPD decr to 2320 MCFPD thru 1/2" CRK; rec 2500' cond CWB
(Sampler rec 8.85 CFG + 150 cc's cond @ 1200#), 1 hr 30 min ISIP 7210#, FP 1881-1528#, 4 hr FSIP 6548#, HP
7322-7504#; DST-SP (ATOK) 12,436-604'; op 1 hr 5 mins w/wk Blow, rec 3970' WB (Sampler rec 2000 cc's mud),
2 hr ISIP 3004#, FP 2047-1875#, 2 hr FSIP 2352#, HP 7297-7211#, BHT 240 deg;
COMPLETION INFORMATION: TD 13,050' (MRRW); SUSPENDED OPERATIONS 2-18-80
LOG TOPS: None
LOGS RUN: DILL, CNDL, MINL, GRL

H

② Petroleum Information. RE-ISSUED COMPLETION

LEA Undesignated STATE NM

HNG OIL CO. API 30-025-26261

1 11AM NM 33 State Com. MAP

Sec 33, T16S, R35E COORD

1980' ENL, 660' FEL of Sec 9-4-8 NM

17 1/2 mi W/Mallismar SPD 3-9-79 CMP 9-15-79

13 3/8" at 420' w/500 ex
9 5/8" at 4850' w/3500 ex
5 1/2" at 12,892' w/650 ex

WELL CLASS: INIT D FIN D ELEV L & S			
PERMITS	DATUM	PERMITS	DATUM
TD 13,000' (MSSP)		PBO	

DRY & ABANDONED

CONTR Parker #38 OPER 3981' GL PD 13,000' RT

F.R. 3-12-79
(Morrow)

9-22-79 AMEND LEASE: Formerly reported as Shoebar Ranch "33"

3-12-79 Drlg 2153'

3-19-79 Drlg 4745' anhy & dolo

3-26-79 Drlg 6900' dolo

4-2-79 Drlg 9525' lm, sh & dolo

4-9-79 Drlg 11,250' lm, sh & dolo

4-16-79 Drlg 12,970' lm & sh

4-23-79 TD 13,000'; Prep Test
Perf (Morrow) 12,440-444' w/8 shots
Acid (12,440-444') 4000 gals

4-30-79 TD 13,000'; Recg Ld
Frac (12,440-444') 27,000 gals + 14,000# sd

5-7-79 TD 13,000'; Jetting Ld

9-4-8 NM

LEA
HNG OIL CO.

Undesignated
1 NM 33 State Com.
Sec 33, T16S, R35E

NM
Page #2

5-21-79 TD 13,000'; PBD 12,418'; Prep Acid
Perf (Morrow) 12,404-409' w/2 SPF
6-4-79 TD 13,000'; PBD 12,418'; SD
Acid (12,404-409') 5000 gals (7 1/2X)
Jetted dry in 14 hrs (12,404-409')
Sqzd 12,404-409' & DOC to 12,418'
Perf (Morrow) 12,040-048', 12,064-072'
Acid (12,040-072') 5000 gals
Swbd 3 BWPH w/SG (12,040-072')
6-18-79 TD 13,000'; PBD 11,670'; SI
PB to 11,670'
Perf (Morrow) 11,300-333' w/12 shots (overall)

9-4-8 NM

6-18-79 Continued
Acid (11,300-333') 5000 gals (15X)
Swbd 1d w/SG (11,300-333')
7-9-79 TD 13,000'; PBD 10,180'; SI
Set BP @ 10,771'
Perf (Morrow) 10,256-262', 10,296-299',
10,338-344' w/1 SPF
Acid (10,256-344') 4500 gals (15X)
Swbd 50 BF w/SSG (10,256-344')
Set BP @ 10,180'
Perf (Morrow) 10,113-118' w/2 SPF
Acid (10,113-118') 4250 gals (15X)
Swbd 90 BF w/NS in 10 hrs (10,113-118')
10-15-79 TD 13,000'; Dry & Abandoned
9-22-79 TEMPORARY COMPLETION ISSUED
10-20-79 RE-ISSUE OF SUSPENDED COMPLETION

9-4-8 NM
IC 30-025-70089--

250

260

21.25 HENDON PASHIN 10.1 352 AND OIL CONTAIN

SHOE BAR KANCH UNIT 34

ACTING PEG

DATE SAMPLED
1-80

NONE

2 LEA

12-78

PA

ACTING

PEG

4000

3600

3200

2800

2400

2000

1600

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800

400

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0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.20 2.40

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BEFORE EXAMINER NOTED
OIL CONSERVATION DIVISION
AMOCO EXHIBIT NO. 3
CASE NO. 6956

201 EXCHANGE DR. RICHARDSON, TEXAS 75081

ACT	Net	CP
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1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
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The diagram illustrates a 1D lattice chain. A horizontal line represents the chain, with several black dots representing atoms. The dots are connected by horizontal lines, indicating interactions. Labels 'a' and 'b' are placed below the chain, indicating distances between atoms. A vertical line segment is labeled 'L'.



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NEW MEXICO 007355110HNSND MURRON GARS

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THE NEW YORK TIMES



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NEW MEXICO 8073550TOWNSFND MORRON (GAS)

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ACT INC TPC

0.40 0.80 1.20 1.60 2.00 2.40 2.80 3.20 3.60 4.00 4.40 4.80

1201 EXCHANGE DR. RICHARDSON, TEXAS 75081



7-72	42734	427	250607-10-	2721	NIP	339
7-73	107705	15044	449907-00-	2281	NIP	364
7-74	158418	34482	631607-14-	1983	NIP	381
7-75	84224	43711	805207-20-	1858	NIP	404
7-76	87344	60112	933606-14-	1718	NIP	421
7-77	79385	85073	1073005-31-	1465	NIP	438
7-78	76398	10824				455
7-79	59120	11522				472
7-80	69782					489

DATE	DESCRIPTION	AMOUNT	CHECK NO.	INITIALS
10/10/50	PAID TO [illegible]	100.00	101	[illegible]
10/15/50	PAID TO [illegible]	50.00	102	[illegible]
10/20/50	PAID TO [illegible]	25.00	103	[illegible]
10/25/50	PAID TO [illegible]	75.00	104	[illegible]
10/30/50	PAID TO [illegible]	125.00	105	[illegible]
11/05/50	PAID TO [illegible]	175.00	106	[illegible]
11/10/50	PAID TO [illegible]	225.00	107	[illegible]
11/15/50	PAID TO [illegible]	275.00	108	[illegible]
11/20/50	PAID TO [illegible]	325.00	109	[illegible]
11/25/50	PAID TO [illegible]	375.00	110	[illegible]
11/30/50	PAID TO [illegible]	425.00	111	[illegible]
12/05/50	PAID TO [illegible]	475.00	112	[illegible]
12/10/50	PAID TO [illegible]	525.00	113	[illegible]
12/15/50	PAID TO [illegible]	575.00	114	[illegible]
12/20/50	PAID TO [illegible]	625.00	115	[illegible]
12/25/50	PAID TO [illegible]	675.00	116	[illegible]
12/30/50	PAID TO [illegible]	725.00	117	[illegible]
1/05/51	PAID TO [illegible]	775.00	118	[illegible]
1/10/51	PAID TO [illegible]	825.00	119	[illegible]
1/15/51	PAID TO [illegible]	875.00	120	[illegible]
1/20/51	PAID TO [illegible]	925.00	121	[illegible]
1/25/51	PAID TO [illegible]	975.00	122	[illegible]
1/30/51	PAID TO [illegible]	1025.00	123	[illegible]
2/05/51	PAID TO [illegible]	1075.00	124	[illegible]
2/10/51	PAID TO [illegible]	1125.00	125	[illegible]
2/15/51	PAID TO [illegible]	1175.00	126	[illegible]
2/20/51	PAID TO [illegible]	1225.00	127	[illegible]
2/25/51	PAID TO [illegible]	1275.00	128	[illegible]
2/30/51	PAID TO [illegible]	1325.00	129	[illegible]
3/05/51	PAID TO [illegible]	1375.00	130	[illegible]
3/10/51	PAID TO [illegible]	1425.00	131	[illegible]
3/15/51	PAID TO [illegible]	1475.00	132	[illegible]
3/20/51	PAID TO [illegible]	1525.00	133	[illegible]
3/25/51	PAID TO [illegible]	1575.00	134	[illegible]
3/30/51	PAID TO [illegible]	1625.00	135	[illegible]
4/05/51	PAID TO [illegible]	1675.00	136	[illegible]
4/10/51	PAID TO [illegible]	1725.00	137	[illegible]
4/15/51	PAID TO [illegible]	1775.00	138	[illegible]
4/20/51	PAID TO [illegible]	1825.00	139	[illegible]
4/25/51	PAID TO [illegible]	1875.00	140	[illegible]
4/30/51	PAID TO [illegible]	1925.00	141	[illegible]
5/05/51	PAID TO [illegible]	1975.00	142	[illegible]
5/10/51	PAID TO [illegible]	2025.00	143	[illegible]
5/15/51	PAID TO [illegible]	2075.00	144	[illegible]
5/20/51	PAID TO [illegible]	2125.00	145	[illegible]
5/25/51	PAID TO [illegible]	2175.00	146	[illegible]
5/30/51	PAID TO [illegible]	2225.00	147	[illegible]
6/05/51	PAID TO [illegible]	2275.00	148	[illegible]
6/10/51	PAID TO [illegible]	2325.00	149	[illegible]
6/15/51	PAID TO [illegible]	2375.00	150	[illegible]
6/20/51	PAID TO [illegible]	2425.00	151	[illegible]
6/25/51	PAID TO [illegible]	2475.00	152	[illegible]
6/30/51	PAID TO [illegible]	2525.00	153	[illegible]
7/05/51	PAID TO [illegible]	2575.00	154	[illegible]
7/10/51	PAID TO [illegible]	2625.00	155	[illegible]
7/15/51	PAID TO [illegible]	2675.00	156	[illegible]
7/20/51	PAID TO [illegible]	2725.00	157	[illegible]
7/25/51	PAID TO [illegible]	2775.00	158	[illegible]
7/30/51	PAID TO [illegible]	2825.00	159	[illegible]
8/05/51	PAID TO [illegible]	2875.00	160	[illegible]
8/10/51	PAID TO [illegible]	2925.00	161	[illegible]
8/15/51	PAID TO [illegible]	2975.00	162	[illegible]
8/20/51	PAID TO [illegible]	3025.00	163	[illegible]
8/25/				

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NEW MEXICO 807.352 OTOWNS END MORRISON (CASA)

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1201 EXCHANGE DR. RICHARDSON, TEXAS 75081



THE

453-17615

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43-

Q

STATE "GUL" GAS COM. #1 OFFSETS

WELL	OPERATOR	LOCATION	TD	COMPL. INTER.	HORIZON	MORROW TESTS
M. H. Townsend #3	Wiltshire Oil	N-4-16-35	10494'			
Townsend 'A' #46	Wiltshire Oil	P-5-16-35	10484'			
E. L. Harrod #1	Great Western	I-7-16-35	13060'	11,268-294'	PENN	DST 11995-12,025' Rec WB + 1' MUD; 12888-962' 2400' WB + 93' DM
Hulda A. Townsend #1	Sinclair O & G	J-7-16-35	10720'			
State "EDA" #1	Shell Oil	N-7-16-35	10725'			
Hulda A. Townsend #4	Humble Oil and Ref.	O-7-16-35	10730'			
Hulda A. Townsend #2	Humble Oil	P-7-16-35	10756'			
State "ETA" #1	Shell Oil Co.	A-8-16-35	10490'			
State "ETA" #4	Shell Oil Co.	H-8-16-35	10535'			
State "ETA" #2	Shell Oil Co.	I-8-16-35	13365'	11770-786' BHP 5764	MORROW	11653'-795'; DST-13004-365' 10 BGCM w/trace oil + 5 BGCM + 5 BSM
State "ETA" #7	Shell Oil Co.	J-8-16-35	10513'			
State "ETA" #8	Shell Oil Co.	K-8-16-35	10626'			
State "ETA" #6	Shell Oil Co.	N-8-16-35	10638'			
State "ETA" #5	Shell Oil Co.	O-8-16-35	10517'			
State "ETA" #3	Shell Oil Co.	P-8-16-35	10550'			
Townsend #1	Stone, Markham & Simmons	A-9-16-35	10522'			
Hulda A. Townsend #1	Humble Oil	B-9-16-35	10497'			

270/A/3

BEFORE EXAMINER NUTTER
OIL CONSERVATION DIVISION
AMOCO EXHIBIT NO. 4
CASE NO. 6956

WELL	OPERATOR	LOCATION	TD	CMPL. INTER.	HORIZON	MORROW TESTS
H. A. Townsend #3	Humble Oil	C-9-16-35	10494'			
H. A. Townsend #5	Humble Oil	D-9-16-35	10575'			
H. A. Townsend #10	Humble Oil	E-9-16-35	10501'			
H. A. Townsend #6	Humble Oil	G-9-16-35	10570'			
Townsend #2	Simmons, Markham, Cone	H-9-16-35	10543'			
Hulda Townsend #2	Gulf Oil Corp.	I-9-16-35	11919'	11374-390'	STRAWN	
Townsend #1	Gulf Oil	J-9-16-35	10660'			
H. A. Townsend #7	Humble Oil	K-9-16-35	10556'			
Humble-Townsend #1	V-F Petroleum	L-9-16-35	11850'	11800-810'	MORROW	18HP 4707
H. A. Townsend #9	Humble Oil	M-9-16-35	10548'			
State-lea "A" #2	Pure Oil Co.	C-10-16-35	11599'	10500-566	WFCP	
Lea State "A" #1	Pure Oil Co.	D-10-16-35	10585'			
State Lea "A" #3	Pure Oil Co.	E-10-16-35	10611'			
10 State #32	M. A. Machris	G-10-16-35	10659'			
State-lea "A" #4	Pure Oil Co.	F-10-16-35	10639'			
State 42-10	M. A. Machris	H-10-16-35	10664'			
New Mexico State-26 #1	Superior Oil	J-10-16-35	10663'			
St. N. M. "J" #2	Texas Pacific Oil	K-10-16-35	10640'			
St. N. M. "J" #1	Texas Pacific Oil	L-10-16-35	10550'			
State Lea "B" #1	Pure Oil	M-10-16-35	13043'	10500-538	WFCP	DST 12997-13048 Rec WB + 450' SW
Monsanto State #1	Nissa Petroleum	<-14-16-35	12012'	10416-426' 11849-869'	WFCP/Mor.	

270/A/4

<u>WELL</u>	<u>OPERATOR</u>	<u>LOCATION</u>	<u>TD</u>	<u>COMPL. INTER.</u>	<u>HORIZON</u>	<u>MORROW TESTS</u>
Edison #1	A. K. Trobough	F-15-16-35	12700'	1242'-523'	DEVONIAN	
G. W. Nickson #1	Stinchair O & C.	G-15-16-35	12691'	1254'-620'	DEVONIAN	
F. J. Danglade No. 1	Stinchair O & C.	J-15-16-35	12978'	1004'-054'	WFCO	
J. D. Speight #1	Tom Brown	L-15-16-35	11760'			
Blackmon #1	Mesa Petro.	P-15-16-35	12962'		D & A	
N. M. State "AL" #1	Humble O & R	D-16-16-35	10691'			
Humble "A" State #1	Tom Brown Inc.	E-16-16-35	11960'	1190'-912'	MORROW	DST 11816-960 Rec 566' GCM + 90' OCM INITIAL BHP 450E
Lowe-State #1	Great Western	A-17-16-35	12581'	1244'-465'	MORROW	DST 12423-576' Rec 1379' HGM INITIAL BHP 6283
State-lee "C" #2	Pure Oil Co.	B-17-16-35	10578'			
Hobbs "D" #1	Skelly Oil	C-17-16-35	10682'			
State Sta #1	Amerada	D-17-16-35	10750'			
Edison Com #1	Read & Stephen	K-17-16-35	13085'		D & A	
Mexico "R" #1	Skelly Oil Co.	A-18-16-35	10765'			
Mexico "R" #2	Skelly Oil Co.	B-18-16-35	10727'			
Mexico "R" #3	Skelly Oil	C-18-16-35	10736'			
State "C" #1	Skelly Oil	K-18-16-35	13647'	D & A		
State "GH" #1	Amoco Prod.	F-21-16-35	12900'	1239'-627'	MORROW	DST 12180-316' Rec 1500' WB + 90' OF INITIAL BHP 6450

270/A/5

<u>WELL</u>	<u>OPERATOR</u>	<u>LOCATION</u>	<u>TD</u>	<u>COIL. INTER.</u>	<u>HORIZON</u>	<u>MORROW TESTS</u>
State HC #1	Amoco Prod.	K-21-16-35	13309'	D & A	MORROW	DST 12704-13001' Rec 3000' WB + 75' DM IFHP 4171
Edison Ranch "KL" #1	Yates Petro.	H-22-16-35	11620'	D & A		
Stokes #1	Delaware Apache	O-23-16-35	10630'			
Edison Ranch #1	Remuda Oil & Gas	E-26-16-35	12760'	8724'-86'	BS	
Edison "C" WN #3	Stinclair O & C	F-26-16-35	10442'			
J. E. Stokes et al #1	Ashmund & Hilliard	G-26-16-35	10490'			
Stokes #1	Remuda O & G	G-26-16-35	9000'			
Edison #1	Ashmund & Hilliard	J-26-16-35	10500'			
Edison "A" WN #4	Stinclair	K-26-16-35	10431'			
Edison "A" #3	Western Natural Gas	L-26-16-35	12675'	10342-378'	WFCP	
Hilliard Edison #2	Western Natural Gas	M-26-16-35	12638'	12474-484'	DEVONIAN	
NM #3 State Com. #1	HNG Oil	H-33-16-35	13000'	D & A		
NM #4 State Com. #1	HNG Oil	F-34-16-35	12900'	12448-502'	ATOKA	
Granbling-State #1	Western Natural Gas	A-34-16-35	12775'	12310-350'	PENN	
Schairbauer #1	Monsanto	L-35-16-35	10550'			
State 28 No. 1	HNG	C-28-16-35	13051'	12,453-482'	Morrow	IP 2600 MCFD SIEHP 6170
Schurbauer Edison #1	Magnolia Petroleum	E-29-16-35	5300'			
Edison Com #1	Dorchester	G-28-16-35		13,050'	D&A	

#70/A/6



Amoco Production Company

Houston, Texas
May 29, 1980

FILE: HHR-1047-UF

RE: Justification of a New Reservoir
State "GH" Gas Com No. 1
Lea County, New Mexico

BEFORE EXAMINER NUTTER

OIL CONSERVATION DIVISION

Amoco EXHIBIT NO. 7

CASE NO. 6756

MEMORANDUM TO FILE

The subject well is completed in a new reservoir based on two facts:
(1) even though the well is completed in a gross interval correlative to offset producers, individual porosity stringers completed in the subject well do not correlate to pay stringers in offset wells thereby prohibiting hydraulic communication (and the ability for offsets to effectively drain the reservoir at the subject location) between producers; and;
(2) the bottom-hole pressure was found to be that of a virgin reservoir even though offset producers are currently demonstrating a depleted reservoir condition.

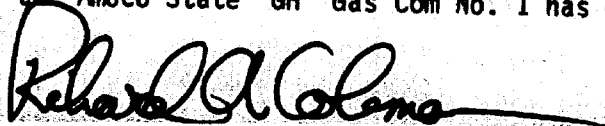
The attached structural cross section shows all Morrow completions within a 2.5 mile radius of the subject well. As can be seen from the cross section, all seven Morrow completions are within the same gross lower Morrow interval. However, attempts to correlate precise pay stringer from well to well is not possible. This is expected because of the lenticular development of the Morrow pay due to depositional environment throughout the area and is true throughout most of Southeastern New Mexico. This lends credibility to Amoco's position that the Morrow reserves at this location could not be recovered without production of these pay stringers from the subject wellbore.

Current bottom hole pressures at the offset producing wells (refer to structure map for well locations) range from 2094 to 3214 psi. Pressures at completion in these same wells (refer to Offset Well Test and Completion Data Tabulation) range from 4505 to 5762 psi. Original bottom-hole pressure in the subject well is calculated to be 6500 psi (based on a drilling "kick" encountered at 12,404' using 10.0 ppg mud). This indicates: (1) this reservoir is at a higher virgin pressure than encountered in any other field well, and; (2) even though the remainder of the wells are in a depleted state, the subject well is not in communication with

Memo to File
Page 2
May 29, 1980

other field wells and has encountered virgin pressure. It should be noted that the offset well tabulation shows all well completions within 2.5 miles of the subject well. All wells deep enough to penetrate the Morrow have their completion intervals given along with all available test data from the Morrow. All wells with positive test data from the Morrow were completed in the Morrow, thereby discounting the possibility of any behind-the-pipe reserves in any offset wells.

Therefore, based on pressure and production data and well log correlations, the Amoco State "GH" Gas Com No. 1 has encountered a new reservoir.



Richard Coleman

RC/11
270/A/2
Attachment

CLASS		REV		LOG	
FORMATION	DATUM	FORMATION	DATUM	FORMATION	DATUM
13 3/8" at 306' w/370 sx				25	4057
8 5/8" at 4660' w/1150 sx					
4 1/2" at 11,382' w/300 sx					
TO 13,060'		POD	11,382'		

CONTR Big West OPNS ELEV 4040' GL PD 12,800' TYPE RT

Long Paid
2/15/73

PLA 10-7-74

LEA
GREAT WESTERN DRILG. CO.

Eidson NM Sec 7, T16S, R35E
1 Harrod, E. L. Page #2

1-22-73 Continued
2 hr ISIP 5008#, FP 893-1957#, 7 hr FSIP 4796#,
HP 5472-5430#
1-29-73 TD 12,297'; Trip
DST 11,995-12,025', open 1 hr 30 mins (1027' WB);
rec WB + 10' mud, 1 hr ISIP 858#, FP 470-470#,
2 hr FSIP 166#
2-5-73 Drig 12,825' lm, ch & ad
2-12-73 TD 13,060'; Prep PB
DST 12,888-962', open 2 hrs, rec 2400' WB + 93'/
DM, 1 hr ISIP 3702#, FP 1139-1182#, 3 hr FSIP
3745#, HP 6772-6691#
SP-DST 11,240-312', Pkrs Failed
Ran Logs to TD

2-20-73 TD 13,060'; PBD 11,382'; WOCU
PB to 11,382'
DST 11,240-382', Missrun
Ran 4 1/2" csg
2-26-73 TD 13,060'; PBD 11,382'; Tstg
Perf 11,268-294' w/1 SPF
Acid (11,268-294') 500 gals MA
Flwd 105 BO + 1900 MCFGPD to 1195 MCFGPD in 3
hrs thru 1/4" chk, TP 600#
3-5-73 TD 13,060'; PBD 11,382'; Tstg
3-12-73 TD 13,060'; PBD 11,382'; SIBHP
3-19-73 TD 13,060'; PBD 11,382'; Prep Test
3-26-73 TD 13,060'; PBD 11,382'; SI
4-2-73 TD 13,060'; PBD 11,382'; SI
Flwd 273 BOPD in 24 hrs thru 1/4" chk, TP 790#
4-9-73 TD 13,060'; PBD 11,382'; SI

LEA
GREAT WESTERN DRIG. CO.

Edison NM Sec 7, T16S, R35E
1 Harrod, E. L. Page #3

4-16-73

TD 13,060'; PBD 11,382'; COMPLETE
LOG TOPS: Anhydrite 1787', Yates 2973',
Glorieta 6210', Yeso 6547', Clearfork 6769',
Tubb 7375', Abo 8033', Canyon 11,160', Strawn
11,919', Lower Atoka 12,193', Morrow Sand 12,923',
Chester 13,018'
COMPLETION REPORTED

4-21-73

CONCLUSIONS

8248

ELEV. 4057

COUNTY Lea

STATE New Mexico (Townsend Wolfcamp)

~~MMN02757~~

Shell Oil Company

STANDARD P. & P. "NOTAR"

13 $\frac{3}{4}$ 366 400

25 June 1964

450 ۱۰۵۳ داس

OPERATOR Shell Oil Company 1001

FARM State NE TAN WELL NO. 2

SEC. 8 T. 16-S R. 35-E

SEC. BLK. SURVEY

LOC. FR. N. 1980 FR. S. 660 FR. E. FR. W.

SPUD 6-28-55 COMP. 6-25-55 T.D. 10537 1/4 FB 10427

CONTRACTOR TP 10377 W. H. C. W. P.

SHOT A/2000

T. AN. PROD. IP F 372 BO RD

T. SALT. GOR. 1177 GR. 40

B. SALT. PRESSURE: CASING 0 TUBING 56.0

T. YATES REMARKS: 50% CH 2" 10459

T. GRAYBURG F 220 BO 10455

T. S. A. Perf 10377-468

T. GLOR.

T. C. F. T. 7 Rivets

T. TURRIS T. Quinn

T. MISS. T. Drink

T. DEV. T. Abo

T. SIL. T. Wolf C.

T. MONTOYA T. Penn

T. SIMPSON T. Fuss

T. ELLEN T. McKee

Date	Time	Altitude	Remarks
6-29-55	RURT	10,600'	Test
7-6-55		9576	Alt
JUL 13 1955		9591	km Alt
JUL 20 1955			
JUL 27 1955		6744	
AUG 3 1955		7910	km
AUG 10 1955		9155	km
AUG 17 1955		10178	km
AUG 24 1955		10550	km. 52 km. 500'
AUG 31 1955		10550	km. 52 km. 500'
		SLM 10550 - 537	
		Perf 324 10550 - 460	
		14/500	Alt

I

TOWNSEND

COUNTY LEA FIELD Wildcat STATE NM MN 02757
 OPR AVANCE OIL & GAS CO. MAP
 2 State "ETA"
 Sec 8, T-16-S, R-35-E CO-ORD
 1980' PSL, 660' FEL of Sec.
 Re-Spd 6-1-69
 Re-Cmp 9-4-69 CLASS OWOF EL 40372

	FORMATION	DATUM	FORMATION	DATUM
C&G & EX. TUBING				
13 3/8" at 366' w/400 SX				
8 5/8" at 4690' w/3450 SX				
5 1/2" at 10,537' w/450 SX (PULLED)				
5 1/2" at 10,004' w/425 SX				
4" lnr 12,886-13,363' w/60 SX				
LOSS EL OR RA IND NC A				
	TD 13,365'; PBD 11,900'			

IP (Hollow) Perfs 11,770-786' CAOT 6091 MCF/GD. GOR 124,009;
 Grav (cond) 53.6; Grav (gas) .631; SIWHP 4802#.

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 CONT. Cactus PROP DEPTH 13,500' TYPE RT
 DATE

Comp. Acous. Vely
 Und. Elic.
 Contact Calign

F.R. 5-27-69
 PD 13,500' RT (Devonian)
 Contractor - Cactus
 (Orig. Shell Oil Co. #2 State "ETA", comp
 8-25-55 thru Perfs 10,377-468', OTD 10,537',
 OPB 10,497')
 10-9-69 AMEND OPERATOR, Formerly reported as WILLIAMSON,
 BRUNNER & DUNLAP.
 6-2-69 TD 10,537'; CO @ 5200'
 6-9-69 TD 10,537'; Drlg. by @ 7111'
 Whipstock @ 6714'
 6-16-69 TD 10,537'; Drlg. by @ 9123' 1m
 6-23-69 Drlg. 11,050' 1m, sh & cht
 6-30-69 TD 11,548' sh & sd; On Trip
 DST 11,118-207', open 2 hrs, GTS 28 min,
 rec 9000' GIDP + 530' O&GCM, no ISIP, FP 173-224#,
 4 hr FSIP 3705#

7-7-69

TD 11,795'; Prep Drill
DST 11,684-722', open 5 hrs, Pkr Failed
DST 11,653-722', open 4 hrs (1000' WB)
GTS 12 min @ 260-216 MCFGPD, roc WB + 270'
GCM & cond, no ISIP, FP 464-517#, 4 hr FSIP
5764#
DST 11,653-795', open 35 min (1000' WB),
GCM & cond during 5 min pre-flow, show cond to
surface in 16 min & heading @ end 35 min
Flwd 5.5 MCFGPD in 7 min thru 1" chk,
SFP 100#
Flwd 8.0 MCFGPD in 12 min thru 1" chk,
SFP 300#
Flwd 11.0 MCFGPD in 18 min thru 1" chk,

7-7-69

Continued
SFP 450#
Flwd 13.0 MCFGPD in 28 min thru 1" chk,
SFP 500#
Flwd 14.2 MCFGPD in 35 min thru 1" chk,
SFP 552#
Rec 100' cond, 30 min ISIP 6318#, FP 1980-
3185#, 1 hr 40 min FSIP 6243#
7-14-69 TD 12,264' lm & sh; On Trip
7-21-69 Drlg. 12,670' lm
7-28-69 TD 13,004'; WOC
8-4-69 TD 13,104'; Circ
8-12-69 DST @ 13,104' Drill Pipe Leaked
Drlg. 13,237' lm
DST 13,004-104', open 3 hrs 5 min, GTS immed.
@ 100 MCFGPD, SFP 72-26#, rec 4752' GCO + 391'
O&GCM (Sampler rec 660 cc's oil + 9 CFG),
1 hr ISIP 4250#, FP 796-1735#, 6 hr FSIP 2334#

8-12-69

Continued

DST 13,004-127', open 3 hrs 5 min, rec 5500' GCO
 (Sampler rec 1120 cc's oil (grav 59.7), GOR
 1900 @ 900# PSI), 1 hr ISIP 3944#, FP 853-1691#,
 6 hr FSIP 2231#

DST 13,004-127', Pkrs Failed

DST 13,004-200', open 1 hr 5 min, rec 2430'
 O&GCM + 1800' cond (Sampler rec 1840 cc's oil
 & GCM + 9 CFG), 1 hr ISIP 3573#, FP 715-1151#,
 2 hr FSIP 2707#

8-18-69

TD 13,365'; PBD 13,360'; Prep Perf

DST 13,004-365', open 2 hrs 5 min, rev out 10
 BGCM w/trace oil + 5 BG&WCM + 20 E salt wtr,
 Pkr Stuck, 1 hr ISIP 5041#, FP 719-5041#,
 4 hr FSIP 5029#
 Ran 4" Liner

8-25-69

TD 13,365'; PBD 13,226'; MORT

Perf 13,043-055', 13,069-077', 13,128-131',
 13,143-146', 13,154-158', 13,179-185' w/2 SPF

9-3-69

TD 13,365'; PBD 13,226'; Prep PB to Morrow
 Swbd 75 BLW + dist CM + sli show gas,

Swbd dry (13,043-185')

Acid (13,043-185') 5000 gals (MCA)

Swbd 10 BF (50% dist + 50% AW) (13,043-185')

Acid (13,043-185') 5000 gals (15%) NE

Swbd dry (13,043-185')

9-8-69

TD 13,365'; PBD 11,900'; Prep Potential
 PB to 11,900'

Perf 11,770-786' w/2 SPF

Flwd gas @ 7.4 MMCFGPD

9-16-69

TD 13,365'; PBD 11,900'; WO Potential

9-29-69

TD 13,365'; PBD 11,900'; WO Potential

153
 151

104
 70' CTS @ 100
 100' - perf

LEA Wildcat NM Sec 8, T16S, R35E
AVANCE OIL & GAS CO. 2 State "ETA" Page #4

10-6-69

TD 13,365'; PBD 11,900'; COMPLETE

FOUR POINT GAUGES :

Flwd 3170 MCFGPD thru 2.00" orifice, 270 min,
TP 4050#

Flwd 4158 MCFGPD thru 2.00" orifice, 75 min,
TP 3547#

Flwd 5046 MCFGPD thru 2.00" orifice, 120 min,
TP 2775#

Flwd 5838 MCFGPD thru 2.00" orifice, 90 min,
TP 2165#

SAMPLE TOPS: Atoka 11,760', Lower Mississippian
12,180', Woodford 12,896', Devonian 13,034',
Silurian 13,325'
(Morrow Discovery)

10-9-69

COMPLETION REPORTED

SCOUT TICKET

OUR No.

8435

COUNTY LeeSTATE New Mexico (Townsend Wolfcamp)

MN02761

ELEV. 4019

			0

OPERATOR Gulf Oil Corp.FARM Hulda TownsendWELL No. 2SEC. 9 T. 16-S R. 35-ESEC. BLK. SURVEYLOC. FR. N. 2310 FR. S. 660 FR. E. FR. W.SPUD 1-9-55 COMP. 12-15-55 T.D. 10650 lmbCONTRACTOR Rot. McVay & Stafford TP 10533 WolfcampSHOT W/500T. AN. 1824 PROD. IP F 184 60 + 4 Rev 24 hrsT. SALT 1997 GR. 39.8B. SALT 2960 PRESSURE: CASING 250 TUBING 200T. YATES 2960 REMARKS: 154Ch 2" 10638

T. GRAYBURG

T. S. A. 5659T. GLOR. 6205

T. C. F.

T. 7 Rivers

T. TUBBS 2344T. Queen 4119

T. Mier

T. Drink

T. DEV.

T. Abo 2024

T. SIL.

T. Wolf C 9600 9570

T. MONTOYA

T. Penn

T. SIMPSON

T. Fuss

T. ELLEN

T. McKee

13 1/2 374 3758 1/2 4599 26505 1/2 10599 150

10-5-55 10,650' test. Location

OCT 12 1955 4 376 RLOCT 19 1955 4 4075 AOCT 26 1955 4 5100 lmbNOV 2 1955 4 6253 lmbNOV 9 1955 4 7954 lmbNOV 16 1955 4 9270 lmbNOV 22 1955 4 10040 lmbNOV 30 1955 4 10550 3hDEC 7 1955 TO 10650 lmb 189OST 10417.5954.5 hrs 6.30Rec. 180 0.55 CM + 18017TP 150-275 1550 275DEC 14 1955 TO 10650 lmb 3w69DEC 21 1955 TO 10650 lmb 17Swb dryW/500

1EA
GULF OIL CORP.

Townsend
#2 Hulda Townsend
Sec 9, T16S, R35E

NM
Page #2

4-10-74 Drilg 11,844' sd, 1m & sh
4-17-74 TD 11,919'; LD DP
4-24-74 TD 11,919'; Prep Test
5-1-74 TD 11,919'; Testg
Perf 11,632-789' w/12 shots (overall)
Acid (11,632-789') 1565 gals (KCL)
Swbd dry (11,632-789')
5-7-74 TD 11,919'; Prep Test
Swbd dry (11,632-789')
5-15-74 TD 11,919'; PB 11,569'; WQ Pot
PB to 11,569'
Perf 11,374-390' w/4 SPF

5-15-74 Cont'd
Acid (11,374-390') 1000 gals (15% NEA)
Flwd 339 EO + 53 EW in 16 hrs (11,374-390')
5-20-74 TD 11,919'; PB 11,569'; COMPLETE
5-25-74 COMPLETION REPORTED

I

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COUNTY FA FIELD [W-1-1] STATE NM

OPR GULF CO. OIL FIELD API NO 02761

NO 2 LEASE Hinds T. Wood SERIAL WDN 0m/5u

Sec 9. T-16-S, E-3-E MAP [Signature]

2310' FSI, 650' DEPT 1 St. CO-ORD 5-5-211E

Re	Re	CLASS D.1	ELEV	L.S.
2-13-74	5-10-74	FORMATION	DATUM	FORMATION
13 3/8" at 374' w/375 sv				
8 5/8" at 4599' w/2650 sx				
5 1/2" at 10,533' w/150 sx				
4 1/2" Inr at 9992-11,919' w/10 =				
		TO 11,919' (STIX)	POD 11,569'	

IP (Strewer) Perfs 11,324-390' 1:wd 24" KOP + 111 RW.
 Pot based on 24 hr test thru 24/64" sk. GOR (NA), Gray (NA).
 GP Pkr, TP 650#

CONTR Capital. OPR ELEV 1009' (G), 4019' D. PD 11,900' TYPE RT

*Log rec'd.
 5-8-74*

I.R. 12-10-73

(Morrow)

(Orig. Comp 12-10-51 from (Wulfcamp)

OH 10,533-10,650'; OMD 10,650')

2-13-74 ID 10,650'; Flg 1hg

2-19-74 ID 10,650'; PS 10,458'; SD Weather

2-27-74 ID 10,650'; PE 10,458'; SE WO Equip

3-6-74 Drlg 10,690' 1st

3-13-74 Drlg 10,915' sh & 1m

3-20-74 Drlg 11,170' 1m & sh

3-27-74 Drlg 11,493' sh & 1m

4-3-74 Drlg 11,687' sh & sh

TICKET
NN02761

CUR N.

84.90

COUNTY _____ Los

STATE New Mexico (Townsend Wolfcamp)

ELEV. 4033

0			

OPERATOR **Humble Oil & Refg. Co.**

FARM Hulda A. Townsend WELL NO. 8

SEC. 9 T 16-S R. 35-E

SEC. _____ BLK. _____ SURVEY _____

Loc. _____ FR. N. 1980 _____ FR. S. _____ FR. E. 660 _____ FR. W. _____

SPUD. 10-21-55 COMP. 12-31-55 T.D. 105856 PD 10535

Ret. 10401 10415-20

SHOT ALSO

T. AN. _____ PROD. IP. F 262 50PP

T. SALT _____ GR. 1229 GR. 40

B. SALT _____ PRESSURE: CASING PRL TUBING 630

T. YATES REMARKS: *20* *2" 10.350*

T. GRAYBURG F215 B0 6 hrs

T. S. A. 4620 Perf 10401-476

T. GLOR: _____

T. C. F. _____ T. 7 Rivers

T. TUBBS _____ T. Quinn _____

T. Drink

T. DEV. T. Abo 7343

T. Wolf C. 8652

T. MONTONA

THE FIRST

T. ELLEN

11 3/4 439 375

8 1/4 1700 2300

54 10585 940

10-26-55	10,500' test. RURT		
NOV 2 1955	φ 3354 An		
NOV 9 1955	φ 4560 An		
NOV 16 1955	φ 5225 lm		
NOV 22 1955	φ 6436 lm		
NOV 30 1955	φ 7626 lm		
DEC 7 1955	φ 8792 lm		
DEC 14 1955	φ 9730 lm Sl		
DEC 21 1955	ε 10354 lm		
JAN 4 1956	TO 10585 lm 10 11.535		
	ε 10350 - 344 Rec 27.54.56		
	lm Per i stain		
	ε 10344 - 432 Rec 10' lm		
	Per ε 100 10401 - 426		
	" 152 10438 - 476		
	A/500 10401 - 476		

OWDD

COUNTY LEA FIELD TOWNSEND STATE NEW MEX 02767

OPR V-F PETROLEUM MAP

1 Humble - Townsend

Sec 9. T-16-S. R-35-E CO-ORD

1980' FSL, 660' FWL of Sec

Re-Spd 9-8-71 CLASS OWDF EL 4033

Re-Cmp 10-22-71

	FORMATION	DATUM	FORMATION	DATUM
Csg & SX - TUBING				
11 3/4" at 439' w/375 sx				
8 5/8" at 4700' w/2100 sx				
5 1/2" at 10,585' w/940 sx				
4" lnr 10,349-11,850' w/100 sx				
LOGS EL OR RA IN? NC A				
	TD 11,850'			

IP (Atoka) Perfs 11,800-810' CACF 2350 MFCFDP. GGR 35,380; Grav (Gas) .636; (Cond) 49.6; SIWEP 4187#.

+ 520 GAS GRADIENT

MORROW

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CONT. Tom Brown Drilg. Co. CROP DEPTH 12,000' TYPE RT

DATE

F.R. 9-7-71; Opr's Elev. 4033' DF
 PD 12,000' RT (Atoka)
 Contractor - Tom Brown Drilg. Co.
 (Orig. Humble Oil & Refg. Co., #8 Townsend
 Hulda A. A/C-2 comp. 12-31-55 thru (Wolfcamp)
 Perfs 10,401-476', OTD 10,585', OPB 10,539',
 Plugged Producer 11-18-60)

1-13-72 AMEND FIELD NAME: Formerly reported as Undesignated.
 9-13-71 TD 10,585'; Milling @ 3014'
 9-21-71 TD 10,585'; Prep Drill
 CO to TD, Ran 5 1/2" tie in Csg

9-28-71 Drilg. 10,904' sh & lm
 10-5-71 Drilg. 11,259' sh & lm
 10-11-71 Drilg. 11,670' lm & sh
 10-18-71 TD 11,850'; MORT
 Deepened from 10,585' to 11,850'
 Ran 4" lnr

LEA
V-F PETROLEUM

Townsend NM
#1 Humble - Townsend

Sec 9, T16S, R35E
Page #2

10-25-71 TD 11,850'; WO Test Equip
Perf 11,800-810' w/2 SPF
Acid (11,800-810') 250 gals
11-2-71 TD 11,850'; RU Equip
11-9-71 TD 11,850'; Testg
11-16-71 TD 11,850'; WO Pot
CAOF 2350 MCFGPD + 30 B cond per MM (11,800-810')
1-10-72 TD 11,850'; COMPLETE
(Atoka) THREE POINT GAUGES:
Flwd 1028 MCFGPD, 3/4" orifice, 4 hrs, TP 2852#
Flwd 1487 MCFGPD, 3/4" orifice, 5 hrs 30 mins, TP 2178#
Flwd 1874 MCFGPD, 3/4" orifice, 9 hrs, TP 1397#
1-13-72 COMPLETION REPORTED

[illegible]

LOG

FEB 10 1954 TO 11596 km SL 11110600 115.3.

Prof 76 10500 - 519

" 49 10532 - 549

" 42 10556 - 566

2" with PIR 10443

F 21 130 RH 2 km 2 1/4 + Co.

FEB 17 1954

T. An. 1955 (-2188)

T. TITTS 3065 (+958)

T. QUEEN 3415 (+118)

T. San A. 4630 (-607)

T. GLORIETA 6290 (-2217)

T. DOR. SD. 7410 (-3287)

T. ALR. 8020 (-3477)

T. WILFANG 9575 (-5552)

T. PEDON 10580 (-6557)

EDE TOPS

[illegible]

IP (Devonian) Perfs 12,421-523' F 148 BOPD. Pot based on 24 hr test thru 14/64" chk, GOR 203, Grav 57.4, TP 250#

OPR'S ELEV 3992' GL " 12,523' WO

F.R.C. 10-11-75 OWWO
(Devonian)

(Orig. Harding Oil Co.; Temp comp 3-20-75, OTD
12,700'; Plugged 3-20-75 as V-F Petroleum, Inc.)
TD 12,700'; PBD 12,603'; Complete
CO to 12,700'

10-6-75

Ran 5 1/2" csg

Perf (Devonian) @ 12,421', 12,424', 12,432',
12,464', 12,493', 12,510', 12,516', 12,523'
Acid (12,421-523') 2500 gals

10-11-75

COMPLETION ISSUED

10-2-4 NM

(U) U.S. GOVERNMENT PRINTING OFFICE: 1964 O - 348-000-000-000
 FORM 10-64 (Rev. 1-64)
 REF-15 COMPLETION
 Undesignated
 STATE NM
 COUNTY 30-025-24493
 TOWNSHIP
 SECTION
 SEC 15, T-16 S R-35 E
 1980' FNL, 1980' FWL of Sec
 9-30-73 3-20-75
 WELL CLASS: D
 NAME: GL 3992
 DATE: 12-76
 PERMITS: 1
 DATE: 12-76
 13 3/8" at 395' w/400
 9 5/8" at 4610' w/400
 DRY ABANDONED

CONTR 000% elev 1997 01 PD

RE-ISSUED COMPLETION 7-12-75
(Orig. Temp Comp 10-28-74)
F.R. 8-27-73

F.R. 8-27-73
(Devonian)

AMEND OPERATOR. Formerly reported as Harding Oil
Company
Dr lg 90' 1m

10-7-74
10-4-73
10-10-73
10-17-73
10-24-73
10-31-73
11-7-73
11-14-73
11-28-73
12-5-73

(Devonian)
AMEND OPERATOR.
Company
Dr lg 90' 1m
Dr lg 120' 1m
Dr lg 135' 1m
Dr lg 190'
Dr lg 220'
Dr lg 260'
Dr lg 290'
Dr lg 340' 1m & redbeds
Dr lg 375'

LEA
V-F PETROLEUM, INC.

Undesignated
1 Eidson
Sec. 15, T16S, R35E

NM
Page 2

LEA
V-F

12-12-73	TD 375'; Reaming @ 130'	7-
12-19-73	TD 375'; Reaming @ 147'	7-
1-3-74	TD 375'; Reaming @ 180'	8-
1-16-74	TD 375'; Reaming @ 196'	7-
1-24-74	TD 375'; Reaming @ 209'	
1-31-74	TD 375'; Reaming @ 240'	
2-6-74	TD 375'; Bailing	
2-13-74	TD 375'; Reaming	
3-14-74	TD 375'; SI	
5-28-74	Drlg 4440' anhy & lm	
6-5-74	Drlg 6477'	
6-13-74	Drlg 8498'	
6-20-74	TD 10,071'; Prep Drill	
	DST (Wolfcamp) 10,038-071', open 2 hrs 15 mins,	

6-20-75	Continued GTS in 20 mins @ TSTM, rec 270' OCDM, 1 hr 30 min ISIP 3677#, FP 66-100#, 4 hr FSIP 3651#, HP 4324-4307#
6-26-74	Drlg 11,055'
7-10-74	TD 12,588'; On-DST DST (Strawn) 10,944-11,180', open 1 hr 30 mins, rec 150' VSGCDM, Pressures NA
7-17-74	TD 12,630'; Prep Drill Ahead DST (Devonian) 12,440-566', open 1 hr 30 mins, rec 124' DM, 1 hr ISIP 4167#, FP 1138-1964#, 4 hr FSIP 5479#, HP 5809-5809# DST (Devonian) 12,238-630', open 1 hr 30 mins (2300' WB), GTS in 108 mins @ TSTM, rec WB + 564' Cond, 1 hr ISIP 4680#, FP 1263-1354#, 3 hr FSIP 4793#, HP 5652-5652#

LEA
V-F PETROLEUM, INC.

Undesignated
1 Eidson
Sec 15, T16S, R35E

NM
Page 3

7-24-74 TD 12,700'; MORT
7-31-74 TD 12,700'; WOO
8-19-74 TD 12,700'; SI
7-7-75 TD 12,700'; Dry & Abandoned
LOG TOPS: Anhydrite 1860', Yates 3020',
Queen 3881', San Andres 4640', Glorieta
6150', Tubb 7318', Abo 8047', Pennsylvanian
10,240', Strawn 10,911', Mississippian 11,455',
Devonian 12,488'
11-2-74 COMPLETION ISSUED
7-12-75 RE-ISSUED COMPLETION

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[illegible]

NOT NEARLY COMPLETED

3500' LE HAWCOO LSE 538E89

F.R. 8-27-73

(Devonian)

10-7-74

AMEND OPERATOR: Formerly reported as Harding Oil Company

10-4-73

Drig 90' 1m

10-10-73

Drig 120' 1m

10-17-73

Dr1g 153' 1m

10-24-73

Dr1g 130'

10-21-73

Dr 1g 220'

11-7-73

Dr18 260'

11-14-73

Dr 12 2901

11-28-73

Dr 1g 340' 1x 5 redbed

12-5-73

Dr ig 375'

LEA
V-F PETROLEUM, INC.

Undesignated
1 Eidson
Sec 15, T16S, R35E

NM
Page #2

12-12-73 TD 375'; Reaming @ 130'
12-19-73 TD 375'; Reaming @ 147'
1-3-74 TD 375'; Reaming @ 180'
1-16-74 TD 375'; Reaming @ 196'
1-24-74 TD 375'; Reaming @ 209'
1-31-74 TD 375'; Reaming @ 240'
2-6-74 TD 375'; Reaming
2-13-74 TD 375'; Reaming
3-14-74 TD 375'; SI
5-28-74 Drlg 4440' anhy & lm
6-5-74 Drlg 6477'
6-13-74 Drlg 8498'
6-20-74 TD 10,071'; Prep Drill
DST 10,038-071', open 2 hrs 15 mins, GTS

6-20-74 Continued
in 20 mins @ TSTM, rec 270' OCDM, 1 hr
30 min ISIP 3677#, FP 66-100#, 4 hr
FSIP 3651#, HP 4324-4307#,
6-26-74 Drlg 11,055'
7-10-74 TD 12,588'; On DST
DST (Strawn) 10,944-11,180', open 1 hr 30
mins, rec 150' VSGCDM, Pressures NA
7-17-74 TD 12,630'; Prep Drill Ahead
DST (Devonian) 12,446-588', open 1 hr 30
mins, rec 124' DM, 1 hr ISIP 4167#, FP 1138-
1964#, 4 hr FSIP 5479#, HP 5809-5809#
DST 12,238-630', open 1 hr 30 mins (2300'
WB), GTS in 108 mins @ TSTM, rec WB + 564'
Cond, 1 hr ISIP 4680#, FP 1263-1354#, 3 hr
FSIP 4793#, HP 5652-5652#

NM
Page #2

LEA
V-F PETROLEUM, INC.

Undesignated
1 Eidson
Sec 15, T16S, R35E

NM
Page #3

R35E

7-24-74	TD 12,700'; MORT
7-31-74	TD 12,700'; WOO
8-19-74	TD 12,700'; SI
10-28-74	TD 12,700'; TEMPORARILY COMPLETED
11-2-74	COMPLETION REPORTED

15 mins, 615

70' OCDM, 1 hr
-100#, 4 hr
#,

80', open 1 hr 30
Pressures NA
head

88', open 1 hr 30
ISIP 167#, FP 1138-
HP 5809-5809#
hr 30 mins (2300'
STM, rec WB + 564'
FP 1263-1354#, 3 hr
2#

ILLEGIBLE

STANDARD

District 4

FORM 511 10-48

SCOUT TICKET

MIN 02792

OUR NO.

9214

COUNTY Los

STATE New Mexico

Wildcat Undesignated

ELEV. 9214

21 N 7 S E 1			
Top 3			

OPERATOR Sinclair Oil & Gas Co.

FARM G.W. Nickson

WELL NO. 1

SEC. 15

T. 16-S

R. 35-E

SEC. BLK.

SURVEY

LOC. 1980

FR. N.

FR. S.

1980

FR. E.

FR. W.

SPUD. 10-31-56 COMP. 2-24-57 T.D. 12691' FB 12600'

CONTRACTOR Rot.

TP 12542'

SHOT A4502

T. AN.

PROD. IP F 480 8020

T. SALT

CCR. 200 Cn. 60

B. SALT

PRESSURE: CASING TUBING 1000

T. YATES 3040

REMARKS: 34 1/2

T. GRAYBURG

F 541 60 1000

T. S. A. 4631

Port 12542-120

T. GLOR. 6230 6160

Quarry 55'

T. C. F.

T. TUBBS 7211

Abn. 2000 8000

T. MISS. 4457 11470

W. 1/2 9000 2000

T. DEV. 10375 12365

Prod. 10000

T. SIL.

T. MONTOYA

T. SIMPSON

T. ELLEN

12,800' Test

Wood 10000 12500

DATE	TIME	DEPTH	REMARKS	DATE	TIME	DEPTH	REMARKS
NOV 7 1956				FEB 18 1957			
NOV 14 1956		3220	Ac			12542-120	Prod.
NOV 21 1956		4525	30			13' 1/2" oil	
NOV 28 1956		4978	10			4 1/2" oil	
DEC 5 1956		5685	10			20' 1/2" oil	
DEC 12 1956		6540	10			12640-80	Prod.
DEC 19 1956		7681	10			scattered	
JAN 5 1957		8715	10	FEB 27 1957			
JAN 10 1957		10486	10 Ch			Port 512 12542-120	
JAN 17 1957		10867	10			F 49 12542-120	
JAN 24 1957		11315	10-50			2 1/2" oil	
JAN 31 1957		10930	10-50			41500	
FEB 7 1957		11558	10			500 36 1/2" oil	
FEB 14 1957		11921	10			+ 20' oil	
FEB 21 1957		12266	10-50			12542-120	
FEB 28 1957		12600					
		12542-490					
		92 1/2" 2000 W.B.					
		Rec. W.B. + 700 oil + 90 OCM					
		FR 1900 30 5/8" 4800					
		12542-120					
		92 1/2" 2000 W.B.					
		Rec. OSGC W.B. + 650 oil					
		+ 450 HC 1/2" OCM					
		- 10 1/2" 2000 W.B.					

1865 + 2124

T. Adams	1002	2122	
T. Del. Ls.			
T. Yates	3040	+ 749	
T. Queen	3883	+ 106	
T. S. Andres	4640	- 651	
T. Glorieta	6148	- 2139	
T. B. Spring			
T. Dr. Rd.	7335	- 3346	
T. Abo	7953	- 3964	
T. Wolfcamp	9403	- 5414	WDP TOPS
B. Permian			
T. Penn.	10422	- 6433	
T. Miss.	11471	- 7481	
T. Woodford	12240	- 8251	
T. Devonian	12365	- 8276	
T. U. Sil.			
T. Fuss.			
T. Montoya			
E. Simpson			
E. McKee			
E. Ellen.			
E. Granite			

2-5-72
2³/₂
2³/₄

IEA
BROWN, TOM, INC.

Undesignated NM Sec 15, T16S, R33E
1 Speight, June D. Page #2

3-27-72

TD 11,760'; P&A (Holding for Tops)
DST 11,702-760', Pkr failed
DST 11,612-760', open 1 hr, rec 349' mud,
1 hr 30 min ISIP 213#, FP 118-239#, 2 hr
FSIP 260#, HP 5425-5425#

4-3-72

TD 11,760'; PLUGGED & ABANDONED
SAMPLE TOP: Strawn 11,024'
LOG TOPS: Strawn 11,194', Atoka 11,706',
Mississippian 11,734'

4-8-72

COMPLETION REPORTED

RE- 3-7-76	Re-4-22-76	DX	D
------------	------------	----	---

13 3/8" at 305' w/350 ex
9 5/8" at 4732' w/3700 ex
7" at 12,806' w/500 ex

12,962 (DVNN)

DIRTY & ABANDONED

[illegible]

F.R. 2-9-76 OWWO
(Wolfcamp)
(Orig. Sinclair Oil & Gas Co. #1 Blackmon, L.
M., DSA 5-10-57, OTD 12,962')
TD 12,962'; CO @ 4541'
TD 12,962'; PBD 10,600'; Prep Perf
CO to 10,663' & PB to 10,600'
TD 12,962'; PBD 10,600'; SI
Perf (Wolfcamp) 10,240-252' w/4 SPF
Acid (10,240-252') 2000 gals
TD 12,962'; PBD 10,600'; SI
Swbd dry (10,240-252')
Attempted to Acidize & Had Communications
TD 12,962'; PBD 10,600'; SI
Acid (10,240-252') 2000 gals
TD 12,962'; PBD 10,600'; SI
Swbd 5-7 BF (50% oil + 50% LW) (10,240-252')
5-2-12 NM

IEA
MESA PETROLEUM CO.

Shoe Bar, N.
1 Blackmon
Sec 15, T16S, R35E

4-19-76	TD 12,962'; PBD 10,600'; Prep D&A
4-26-76	TD 12,962'; D&A
5-3-76	TD 12,962'; Dry & Abandoned
5-8-76	COMPLETION ISSUED

5-2-12 NM
IC 30-025-70042-76

811 10-43

Dis

Lea

NM

Page

STATE

New

218

TA

10-49

MN02790

9213

City _____ Lea _____

DATE **New Mexico**

Wahington 10/15/1917

ELEV. 3782.5.

[illegible]

13⁵/₈ 305 350

9 5/8 4732 3740

7 12 206 500

12.500: Test

Wood ~~10-10-3~~ 12 355

11-1-56	Dr lg. 283 RB.	JAN 10 1957	411,431.5h
NOV 14 1956	4 3715 As	JAN 16 1957	4 1174E1m.5h
NOV 21 1956	4 47371m	JAN 23 1957	4 12062 1m.5h
NOV 28 1956	4 5422 1m.5h	JAN 30 1957	4 12370 1m.5h
DEC 5 1956	4 6922 1m		70 12652 1m. 25T
DEC 12 1956	4 8409 1m.5h		25T 12512-587
DEC 19 1956	4 9691 1m.5d		40:30 2630WB
JAN 8 1957	4 10354 1m.		Rec. 30 M
	4 1100 1m		FP 500-600 305p 1200
	25T 10806-836	FEB 12 1957	4 12916 1m.5h
	40:35 800WB		25T 12565-663
	Rec. WA + 30.5GCM		40:30 2612WB
	FP 410 305p 530		Rec. WA + 10 M
	25T 10898-11046		FP 200 305p 1460
	40:36 1500WB		25T 12652-1100
	5:34		40:30 2700WB
	Rec. NOFGCM + 150		Rec. WB + 60.50CM
	5CM		FP 1380 305p 4545
	FP 845 305p 2625		25T 12760-260
			40:130 2500WB
			Rec. WB + 1300 M + 4600
			FW
			FP 1625-4160 305p 5260

LOG

FEB 18	1957	TD 12 96210	WOC		
FEB 27	1957	TD 12 96210	PD 12770	prep A/	
		Perf 40	12 740-750		
		w/100			
		Swb 9 BND + 50 BSW 12 hrs			
		Automatic 12701			
		Sp 12740-750 w/100			
		Perf 152	12 444-602		
		PKR 12571			
MAR 2	1957	TD 12 96210	PD 12770	prep A/	
		w/100	12 644-602		
		Swb 47 BND			
		A/3000	12 644-602		
		Swb 66 BND + 49 BND + 70 BND 20 hrs			
		Swb 30 BND + 10 BND			
		Sp 12644-602 w/100			
MAR 13	1957	TD 12 96210	PD 12770	Swb	T. Army.
		Re Perf 72	12 644-602		T. Del. Is.
		A/1000	12 644-602		T. Yates
		Swb 65 BND + 48 BND 12 hrs			T. Queen
		Re A/5000			T. S. Andres
MAR 20	1957	TD 12 96210	PD 12706	Swb	T. Glorieta
		Swb 34 BND + 15 BND 9 hrs			T. B. Spring
		Perf 1	12 676		T. Dr. Sd.
		Re A/500	12 644-676		T. Abo
		Swb 65 BND + 50 BND 12 hrs			T. Wolfman
		Re A/2000	12 644-676		B. Periman
MAR 27	1957	TD 12 96210	PD 12600	prep A/	T. Penn.
		Perf 136	12 526-560		T. Miss
		PKR 12479			T. Woodford
		A/1000	12 526-560		T. Devonian
		Swb 72 BND 16 hrs			T. U. Sil.
		Re A/3000	12 526-560		T. Pass.
		Swb 40 BND + 8 BND 24 hrs			T. Montoya
		Re A/6000	12 526-560		T. Simpson
		Swb 32 BND + 32 BND 24 hrs			T. McKee
					T. Ellen.
					T. Granite

SCOUT TICKET

CUT NO.

9213

ELEV.

COUNTY LeaSTATE New Mexico

Undesignated

OPERATOR Sinclair Oil & GasFARM L. M. BlackmonWELL NO. 1SEC. 15T. 16-SR. 35-E

SEC.

BLK.

SURVEY

LOC.

FR. N. 660FR. S. 660

FR. E.

FR. W.

SPUD.

COMP.

T.D.

FB.

CONTRACTOR

TP.

SHOT

T. AN.

PROD. IP.

T. SALT

GOR.

B. SALT

PRESSURE CASING

TURNING

T. YATES

REMARKS:

T. GRAYBURG

T. S. A.

T. 7-RIVERS

T. GLOR.

T. QUEEN

T. C. F.

T. PENROSE

T. JUBBS

T. DRINK.

T. MISS.

T. ABO

T. DEV.

I. LONE SPR.

T. SIL.

T. WOLF C.

T. MONTOYA

T. PENN.

T. SIMPSON

T. FUSS.

T. ELLEN

T. MCKEE

APR 9 1957

TD 12962 in PA 12706 T376

AF/10000 12526-676

F 30 BLD 1:30

Sub 7 BLD + 16.5 BAW 16 hrs.

APR 10 1957

TD 12962 in PA 11070 T376

Sub 3 BLD + 7.5 BAW +

243 BAW 24 hrs from 12526-676

AP 12485

Perf rd 11003-24

AP 11070

P/R 10935

Sub 4.5 BLD 14 hrs E Sub dry

from 11003-24

A/1000 11003-24

Sub 4.5 BLD + 24 BAW + 60

BAW 16 hrs.

APR 17 1957

TD 12962 in PA 11035 T376

Sub 96 BAW 6 hrs

attained @ 10950

Sp. 11003-24 w/100

Perf 11035

Perf rd 11003-24

P/R 10935

Sub 4.5 BLD 12 hrs

E Sub dry

APR 24 1957 TD 12962 in

PA 11035 T376

Perf A/5000 11003-24

Sub 4.5 BLD + 80 BAW

16 hrs.

MAY 1

1957 TD 12962 in PA 11035

T376

Sub 1 BAW 72 hrs

MAY 8

1957 TD 12962 in PA 11035

prep to P/A

MAY 18

1957

LOG

T. AMER	1912 (- 2072)
T. YOUNG	3042 (- 2922)
T. O. S. S.	2721 (- 2711)
T. S. A.	4772 (- 4771)
T. G. S. S.	6182 (- 2271)
T. D. S. S.	7363 (- 3383)
T. P. S.	7942 (- 4002)
T. W. S. S.	9452 (- 5470)
T. PENN (A. S. S.)	10503 (- 1531)
T. MISS.	11222 (- 7651)
T. WOODFORD	12311 (- 9372)
T. DEN.	12488 (- 8506)

EDP TOP6

41



[The following text is extremely faint and largely illegible due to heavy scanning artifacts and noise. It appears to be a list or index of names and dates.]

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ABANDONED

F.R. 3-5-79

(Morrow)

AMEND FIELD: Formerly reported as Townsend

9-79

Dr1g 52' w/CT

16-79

TD 415'; Prep DO

• 23-79

TD 4550; Rng Csg

4-36-79

Drlg 5383'

-79

Dr 1g 7880'

1:79

Dr1g 10,120'

5-21-79

Drlg 11,570'

4-29-73

TD 11,620'; D&A (Hold)

• 2.73

TD 11,620'; Dry & Abandoned

DST (Atoka) 11,215-300', op 30 mins, rec 359'

DF (Sampler rec 50 cc's DF), 1 hr 30 min ISLP
100% DF 216 251# 0.1 ECIP 2/2# UP 5001

4197. FP 256-2567, 2 hr FSIP 3497, HP 5991-5001#

5991#

7-2-5 NM

AMERICAN PETROLEUM CORP.

Undesignated
1 Eidson Ranch "KL"
Sec 22, T16S, R35E

NM
Page #2

Continued

DST-SP (Strawp) 11,108-210', mis-run

LOG TOPS: San 4752', Glorieta 6225',

Abo 8170', Wolfcamp 9530', Canyon 10,744',

Strawp 11,134', Atoka 11,232', Mississippian
11,582'

LOGS RUN: CNDL, DILL

COMPLETION ISSUED

7-2-5 NM

IC 30-025-70087-79

SCOUT TICKET

OUR NO.

9746

COUNTY LeaSTATE New MexicoShoe Bar Devonian

MINO2805

ELEV. 3151

OPERATOR Western Natural Gas Co.FARM Eidson #11WELL NO. 1SEC. 26T. 16SR. 35ESEC. BLK.

SURVEY

LOC. 1980

FR. N.

FR. S.

FR. E.

990 FR. W.

SPUD. 6-30-57 COMP. 10-12-57 T.D. 12760 lb. PB 12779CONTRACTOR Rot. Parker Drlg. TP 12680 Rev.SHOT 4/3000T. AN. 1481PROD. IP E 376 80 + 96.8 34 hrs.T. SALT 20.94

GOR

GR 50

B. SALT

PRESSURE: CASING

TUBING

T. YATES 5180

REMARKS:

OPEN 2"

T. GRAYBURG

Perf 12680-726T. S. A. 4788T. GLOR. 6254

T. 7 RIVERS

T. C. F. 6877T. QUEEN 4044T. TUBES 7197

T. BENROSE

T. MISC. 11820

T. DRINK

T. DEV. 12680 12678T. ABO 8220

T. SIL.

T. BONE S22

T. MONTOYA

T. WOLF C. 9512

T. SIMPSON

T. PENN. 11176

T. ELLEN

T. FUSS 11176T. WOOD 12532T. MCKEE Bend 11,900

12,750' Test

6/27/57	Loc.	SEP 11 1957	<u>φ 11.323 in. sh</u>
<u>JUL 2 1957</u>	<u>T.D. 327 RB RURT</u>	<u>SEP 18 1957</u>	<u>φ 11.099 in. sh</u>
<u>JUL 10 1957</u>	<u>φ 10.32 in.</u>	<u>SEP 25 1957</u>	<u>φ 12.060 in.</u>
<u>JUL 17 1957</u>	<u>φ 10.32 in.</u>	<u>OCT 2 1957</u>	<u>φ 12.372 in. sh</u>
	<u>E 4031 - 4071</u>	<u>OCT 9 1957</u>	<u>T.D. 12705 in. DST</u>
	<u>40 dense sdy in</u>	<u>OCT 16 1957</u>	<u>T.D. 12780 in. Run in</u>
<u>JUL 24 1957</u>	<u>φ 5173 in</u>		<u>DST 12688 - 705</u>
<u>JUL 31 1957</u>	<u>φ 5319</u>		<u>DKR failed</u>
<u>AUG 7 1957</u>	<u>φ 5222 in</u>		<u>DST 12688 - 705</u>
<u>AUG 14 1957</u>	<u>φ 9000 in</u>		<u>OP 1.10 1000 wlb</u>
<u>AUG 21 1957</u>	<u>φ 10071 in</u>		<u>Rec. wlb + 100 M. tol. 12</u>
<u>AUG 28 1957</u>	<u>T.D. 10505 in. Run in</u>		<u>FR 560 20.5 p 1205</u>
<u>SEP 4 1957</u>	<u>φ 10848 in. sh</u>		<u>DST 12689 - 705</u>
	<u>DST 10450 - 536</u>		<u>OP 43 1000 wlb</u>
	<u>OP 1.5 1000 wlb</u>		<u>Rec. wlb + 26 M.</u>
	<u>DKR failed</u>		<u>FR 470 30.5 p 1205</u>
	<u>Rec. wlb + 500 50.5 p 1205</u>		<u>DST 12689 - 730</u>
	<u>+ 370 M. + 500 GCM</u>		<u>OP 45 1000 wlb</u>
	<u>DST 10412 - 528</u>		<u>Rec. wlb + 90 M.</u>
	<u>OP 3 hrs 1000 wlb</u>		<u>FR 560 - 580 30.5 p 1205</u>
	<u>G. 33</u>		<u>DST 12722 - 780</u>
	<u>Rec. 1000 0.5 GCM wlb + 300</u>		<u>OP 4 hrs 1000 wlb</u>
	<u>OP 1 + 620 40.5 GCM</u>		<u>G. 2' 40</u>
	<u>FR 1100 - 0.5 30.5 p 1205</u>		<u>Rec. wlb + 480' Dist</u>

STANDARD 3 & P "NOTICE" ©

B & P "NOTICE" ©

LOG

OCT	23
1957	
T. Army.	1112 - 1112
T. Del. La.	
T. Yates	3178 - 3178
T. Q. ren	H ²³ - SA
T. S. Andrew	4787 - 4787
T. Clorinda	6272 - 1222
T. Spring	
T. Dr. Sud.	7413 - 391
T. Abc	8213 - 4121
T. Wellcome	4472 - 5422
B. Permian	
T. Penn. Jr.	11232 - 7248
T. Miss.	11820 - 7821
T. Woodford	12533 - 2549
T. Devonian	12672 - 2694
P. U. Sil.	
T. Fuss.	
T. Montoya	
T. Simpson	
T. P. M. B.	
T. El.	
T. Gra.	

1. **Letter is**

9375

ELEV. 2

OPERATOR Western Natural Gas Co.
FARM Eidson "A" WELL NO. 3
SEC. 26 T. 16-S R. 35-E
SEC. BLK. SURVEY ...
LOC. FR. N 1980 FR. S. FR. E 990 FR. W. ...
SPUD. 1-29-57 COMP. 5-9-57 T.D. 12 675-440 121 57
CONTRACTOR Rot. Lows Drlg. TP 12512 Dev.
SHOT 4/5000
T. AN. 1925 PROD. IP F. 360 80 PD
T. SALT. COR. GR. 59
B. SALT. PRESSURE: CASING 222 TUBING 75
T. YATES 5177 REMARKS: Rich
T. GRAYBURG F 180 40 12 1/2
T. S. A. 4958 T. 7. RIVERS Port 12512-44
T. GLOR. T. QUEEN 2014
T. C. F. T. PENROSE
T. TUBBS T. FRANK.
T. MISS. 11714 T. ADD
T. DEV. 12 505 (28' from top of lignite) T. DONE SPR
T. SIL. well in top of T. WOLF C. 9-56
T. MONTOYA SE 11714 T. FENN. 12 1/2
T. SIMPSON T. FUSG. 54-11
T. ELLEN T. MCKEE 12 1/2

1-16-57	12,750' test. Loc.	APR 3 1957	12,750' test. Loc.
JAN 30 1957	φ 3348 in	APR 10 1957	φ 10832 in
FEB 12 1957	φ 4150 in	APR 17 1957	φ 12250 in
FEB 12 1957	E 4033-E1 Rec'd 46' sd	APR 24 1957	φ 12250 in
FEB 12 1957	TO 8940 in	MAY 1 1957	TO 126750 in
FEB 12 1957	φ 665 in	MAY 18 1957	TO 126750 in
FEB 27 1957	φ 7510 in		TO 126750 in
MAR 6 1957	φ 8647 in		TO 126750 in
MAR 13 1957	φ 9306 in		TO 126750 in
MAR 20 1957	φ 10007 in		TO 126750 in
MAR 27 1957	φ 10519 in		TO 126750 in
	TEST 10289-525		TO 126750 in
	TO 2:30 G (12)		TO 126750 in
	Rec 205 055CM		TO 126750 in
	FN 125 055CM		TO 126750 in
	E 10507-412 TO 126750 in		TO 126750 in
	Rec 55-210		TO 126750 in
	TEST 10527-527		TO 126750 in
	OP 127 G (12)		TO 126750 in
	OP 112		TO 126750 in
	FO 450 10 PM G (12)		TO 126750 in
	Rec 205 055CM		TO 126750 in
	FN 125 055CM		TO 126750 in

LOG

1. 1917 (+1991)

T. Dal. Is.	
T. Yates	3140 (+837)
T. Queen	4038 (-60)
T. S. Andres	4783 (-805)
T. Charlotte	4260 (-2262)
T. S. Spring	
T. Dr. Sd.	7483 (-3500)
T. And	8218 (-5242)
T. Wolfen	9440 (-5462)
B. Permian	
T. Penn.	1172 (-2774)
T. Wicks	11713 (-9935)
T. Woodford	12350 (-8372)
T. Devonian	12500 (-8527)
T. U. Sil.	
T. T. S.	
T. Montoya	
T. Simpson	
T. McKee	
T. Ellen.	
T. Granite	

EDP TOPS

TABLE

FORM 511 10-48

District 4

SCOUT TICKET

OUR NO.

7390

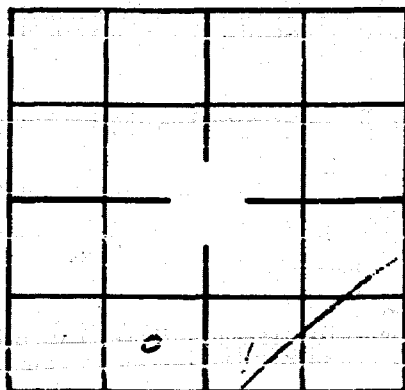
COUNTY Lea

MINO2800

17

STATE New Mexico (Shoe-Bar Devonian)

ELEV.



OPERATOR Western Nat. Gas Co.
FARM Millard Eidson WELL NO. 2
SEC. 26 T. 16-S R. 35-E
SEC. BLK. SURVEY
LOC. FR. N. 660 FR. S. FR. E. 1980 FR. W.
SPUD. 1-31-54 COMP. 1-13-54 T.D. 12621' 10" PB
CONTRACTOR Parker Drlg. TP 12454' 10" PB
SHOT 11:50
T. AN. 1977 PROD. IP 15 9-27 11.1
T. SALT GOR. 400 CH. 57.1
B. SALT Pressure: CASING 1000 TUBING 1000
T. YATES 5177 REMARKS: 1400 3" 12-18
T. GRAYBURG 15 357 10" 1000
T. S. A. 4722
T. GLOR. 222
T. C. F. 442
T. TUBBS 24-2
T. MISS. 11590
T. DEV. 12872 12454
T. SIL. 12464 12454
T. MONTOYA 12464 12454
T. SIMPSON 12464 12454
T. ELLEN 12464 12454
T. 7 Rivers
T. Queen
T. Drink
T. Abo
T. Wolf C.
T. Penn
T. Fuss
T. McKee

13-3/8 @ 345 w/350

Date	Test	Drilling	RB
2-3-54	13000'	test.	Drilling 430' RB
FEB 10 1954	4 4222	Am	Am
FEB 17 1954	4 4222	Am	Am
FEB 24 1954	4 4222	Am	Am
MAR 3 1954	4 4222	Am	Am
MAR 10 1954	4 4222	Am	Am
MAR 17 1954	4 4222	Am	Am
MAR 24 1954	4 4222	Am	Am
MAR 31 1954	4 4222	Am	Am
APR 7 1954	4 4222	Am	Am
APR 14 1954	4 4222	Am	Am
APR 21 1954	4 4222	Am	Am
APR 28 1954	4 4222	Am	Am
MAY 5 1954	4 4222	Am	Am
MAY 12 1954	4 4222	Am	Am
MAY 19 1954	4 4222	Am	Am

LOG

T. H.W.	1985(+ 1991)		
T. H.W.C.	3180(+ 294)		
T. S. H.	4790(+ 514)		
T. W.H.C.	6240(+ 224)		
T. Dr. sd	7480(+ 354)	EDP TOPS	
T. H.W.	8200(+ 424)		
T. W.C.	9465(+ 514)		
T. STREAM L.S.	1025(+ 704)		
T. H.W. L.S.	1165(+ 764)		
T. L.W. L.S.	1230(+ 834)		
T. Dev.	1245(+ 844)		

Petroleum Information

RE-ISSUED COMPLETION

COUNTY LEA FIELD Shoe Bar STATE NM
 OPER HNG OIL CO. API 30-025-26292
 NO 1 LEASE N. M. "34" State Com. MAP
Sec 34, T16S, R35E (CORD)
1980' FNL, 1980' FWL of Sec 7-3-4 NM
18 mi E/Mallamar SPD 4-27-79 MAP 6-6-79

WELL CLASS: INIT D FIN DO ELIV			
FORMATION	DATUM	FORMATION	DATUM
TD 12,900' (ATOK)		PBD	12,825'

IP (Atoka) Perfs 12,448-502' F 15 BOFD. Pot based on 24 hr test thru chk (NR). GOR 113; gty 47.1; CP Fkr; TP 1700#

CONTR Parker #38 OPERSELEV 3980' GL. PG 13,100' RT

F.R. 4-16-79
 (Atoka)
 7-21-79 AMEND FIELD: Formerly reported as Undesignated
 4-23-79 AMEND LOCATION: Formerly reported as 990' FNL,
 1980' FWL of Sec
 4-30-79 Drlg 2280' salt & anhy
 5-7-79 Drlg 4858' dolo & anhy
 5-14-79 Drlg 6665' dolo
 5-21-79 Drlg 9154' dolo, lm & sh
 6-4-79 TD 12,900'; Rng Logs
 6-11-79 TD 12,900'; PBD 12,825'; WOSP
 Perf (Atoka) 12,448-502' w/12 shots
 Acid (12,448-502') 5000 gals (10%)
 7-16-79 TD 12,900'; PBD 12,825'; Complete
 LOG TOPS: Rustler Anhydrite 2000', Yates
 3253', San Andres 4941', Gloricta 6460', Abo
 8538', Wolfcamp 9868', Pennsylvanian 11,368',
 Strawn 11,890', Atoka 12,088'

7-3-4 NM

LEA
HNG OIL CO.

Shoe Bar
1 N. M. "34" State Com.
Sec 34, T16S, R35E

NM
Page 2

7-21-79
8-18-79

COMPLETION ISSUED
RE-ISSUE TO AMEND FIELD: Formerly
reported as Shoe Bar, S. (Atoka)

7-3-4 NM
IC 30-025-70133-79

F

-79

CONR Parker #38 OPRSELV 3980' GL PD 13,100' RT

7-3-4 NM
IC 30-025-70133-79

THE GIBBLE

FORM 311 10-49

District 4

SCOUT TICKET

OUR NO.

7135

COUNTY

Loc (1 mile north Stanolind Loc #10566)

STATE

New Mexico (Wildcat)

MNO2807

ELEV.

OPERATOR _____ Western Natural Gas

FARM _____ Crambling-State _____ WELL No. 1

SEC. 34 T. 16-S R. 35-W

SEC. _____ BLK. _____ SURVEY _____

LOC. 640 FR. N. _____ FR. S. 640 FR. E. _____ FR. W. _____

SPUD. 9-4-53 COMP. 2-9-54 T.D. 12722.4 PB. 12340

CONTRACTOR _____ TP. 12340 FEED

SHOT Net

T. AN. 2210 PROD. IP. 15 314 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

T. SALT _____ GOR. _____ GR. 100

B. SALT _____ PRESSURE. CASING _____ TUBING _____

T. YATES 2210 REMARKS: 1" 4" 12" 14" 16" 18" 20" 22" 24" 26" 28" 30" 32" 34" 36" 38" 40" 42" 44" 46" 48" 50" 52" 54" 56" 58" 60" 62" 64" 66" 68" 70" 72" 74" 76" 78" 80" 82" 84" 86" 88" 90" 92" 94" 96" 98" 100"

T. GRAYBURG _____

T. S. A. 4500 1-2-3 Part 12310-350

T. GLOR. 6374

T. C. F. 2210

T. TUBBS 2210

T. MISS. _____

T. DEV. _____

T. SIL. _____

T. MONTOYA _____

T. SIMPSON _____

T. ELLEN _____

T. 7 Rivers _____

T. Queen _____

T. Drink _____

T. Abo 2210 4500

T. Wolf C. 2210 4500

T. Penn _____

T. Fuss _____

T. McKee _____

2-2-53	127001 test. WDE	JUN 2 1953	11254
SEP 9		DEC 9 1953	
SEP 16 1953	TD 2128 AN Fish	DEC 16 1953	12260
SEP 23 1953	φ 4245 anky	DEC 22 1953	12260
	PP 1500 intermediate part		
	fish		
SEP 30 1953	φ 4246 anky		
OCT 7 1953	φ 4247 anky		
OCT 12 1953	φ 4248 anky		
OCT 21 1953	φ 4249 anky		
OCT 25 1953	φ 4250 anky		
NOV 4 1953	φ 4251 anky	JAN 6 1954	12260
NOV 10 1953	φ 4252 anky	JAN 13 1954	12260
	φ 4253 anky	JAN 20 1954	12260
	φ 4254 anky		
	φ 4255 anky		
	φ 4256 anky		
	φ 4257 anky		
	φ 4258 anky		
	φ 4259 anky		
	φ 4260 anky		
	φ 4261 anky		
	φ 4262 anky		
	φ 4263 anky		
	φ 4264 anky		
	φ 4265 anky		
	φ 4266 anky		
	φ 4267 anky		
	φ 4268 anky		
	φ 4269 anky		
	φ 4270 anky		
	φ 4271 anky		
	φ 4272 anky		
	φ 4273 anky		
	φ 4274 anky		
	φ 4275 anky		
	φ 4276 anky		
	φ 4277 anky		
	φ 4278 anky		
	φ 4279 anky		
	φ 4280 anky		
	φ 4281 anky		
	φ 4282 anky		
	φ 4283 anky		
	φ 4284 anky		
	φ 4285 anky		
	φ 4286 anky		
	φ 4287 anky		
	φ 4288 anky		
	φ 4289 anky		
	φ 4290 anky		
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	φ 4292 anky		
	φ 4293 anky		
	φ 4294 anky		
	φ 4295 anky		
	φ 4296 anky		
	φ 4297 anky		
	φ 4298 anky		
	φ 4299 anky		
	φ 4300 anky		

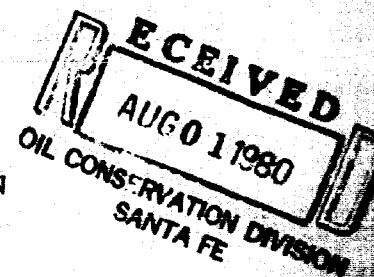
THE

JAN 27 1954	TD 12725	Ln Sh	PL 12341	Section	12345
	Rt 123	12313-345			
	2 12335	PL 12297			
	F 2222	MCF600	May 16	Unit	052111
	F 3333	MCF600	74 Sh.		
	CP 5802				

FEB 3 1954				
FEB 10 1954				

FEB 10 1954

BEFORE THE OIL CONSERVATION COMMISSION
STATE OF NEW MEXICO



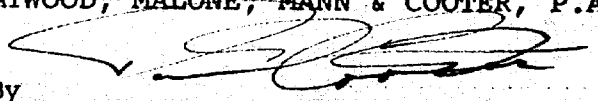
IN THE MATTER OF THE APPLICATION)
OF AMOCO PRODUCTION COMPANY FOR)
AN NGPA DETERMINATION, LEA COUNTY,)
NEW MEXICO.)

NO. 6956

ENTRY OF APPEARANCE

The undersigned hereby enter their appearance on
behalf of Amoco Production Company with C. A. Mote of Houston,
Texas.

ATWOOD, MALONE, MANN & COOTER, P.A.

By 

P. O. Drawer 700
Roswell, New Mexico 88201

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
STATE LAND OFFICE BLDG.
SANTA FE, NEW MEXICO
9 July 1980

EXAMINER HEARING

IN THE MATTER OF:

Application of Amoco Production Com-
pany for an NGPA determination, Lea
County, New Mexico.

CASE
6956

BEFORE: Daniel S. Nutter

TRANSCRIPT OF HEARING

A P P E A R A N C E S

For the Oil Conservation
Division:

Ernest L. Padilla, Esq.
Legal Counsel to the Division
State Land Office Bldg.
Santa Fe, New Mexico 87501

SALLY W. BOYD, C.S.R.

Rt. 1 Box 193-B
Santa Fe, New Mexico 87501
Phone (505) 455-7409

1 MR. NUTTER: We'll call next Case Number
2 6956.

3 MR. PADILLA: Application of Amoco Pro-
4 duction Company for an NGPA determination, Lea County, New
5 Mexico.

6 MR. NUTTER: Applicant in this case has
7 requested continuance.

8 Case Number 6956 will be continued to the
9 Examiner Hearing scheduled to be held at this same place at
10 9:00 o'clock a. m. August 6th, 1980.

11
12 (Hearing concluded.)
13
14
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SALLY W. BOYD, C.S.R.

El Paso, Texas 79901
Santa Fe, New Mexico 87501
Phone (505) 455-1409

C E R T I F I C A T E

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

Sally W. Boyd C.S.R.

I do hereby certify that the foregoing is a complete record of the proceedings in the Examiner hearing of Case No. 6950 heard by me on 7/9 1980.

[Signature] Examiner
Oil Conservation Division

SALLY W. BOYD, C.S.R.

Rt. 1 Box 193-B
Santa Fe, New Mexico 87501
Phone (303) 433-7409

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
STATE LAND OFFICE BLDG.
SANTA FE, NEW MEXICO
2 July 1990

EXAMINER HEARING

IN THE MATTER OF:

Application of Amoco Production Com-
pany for an NGPA determination, Lea
County, New Mexico.

CASE
6956

BEFORE: Daniel S. Nutter

TRANSCRIPT OF HEARING

A P P E A R A N C E S

For the Oil Conservation
Division:

Ernest L. Padilla, Esq.
Legal Counsel to the Division
State Land Office Bldg.
Santa Fe, New Mexico 87501

SALLY W. BOYD, C.S.R.

Rt. 1 Box 191-B
Santa Fe, New Mexico 87501
Phone (505) 455-7409

1 MR. NUTTER: We'll call next Case Number
2 6956.

3 MR. PADILLA: Application of Amoco Pro-
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5 Mexico.

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8 Case Number 6956 will be continued to the
9 Examiner Hearing scheduled to be held at this same place at
10 9:00 o'clock a. m. August 6th, 1980.

11
12 (Hearing concluded.)
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SALLY W. BOYD, C.S.R.

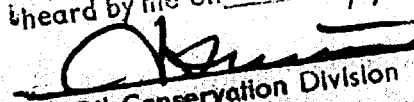
Rt. 1 Box 191-B
Santa Fe, New Mexico 87501
Phone (505) 435-7409

C E R T I F I C A T E

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

SALLY W. BOYD, C.S.R.

Rt. 1 Box 193-B
Santa Fe, New Mexico 87501
Phone (505) 435-7409

I do hereby certify that the foregoing is
a complete record of the proceedings in
the Examiner hearing of Case No. 6953
heard by me on 7/9 1980.
 Examiner
Oil Conservation Division

CASE 6992: Application of Amoco Production Company for an NCPA determination, Lea County, New Mexico. Applicant, in the above-styled cause, seeks a new onshore reservoir determination in the Morrow formation for its Anderson 3 Com. Well No. 1 in Unit R of Section 3, Township 16 South, Range 32 East.

CASE 6956: (Continued from July 9, 1980, Examiner Hearing)

Application of Amoco Production Company for an NCPA determination, Lea County, New Mexico. Applicant, in the above-styled cause, seeks a new onshore reservoir determination in the Morrow formation for its State "CH" Well No. 1 located in Unit F of Section 21, Township 16 South, Range 35 East.

CASE 6957: (Continued from July 9, 1980, Examiner Hearing)

Application of Amoco Production Company for an NCPA determination, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks a new onshore reservoir determination in the Morrow formation for its State HK Com Well No. 1 located in Unit L of Section 6, Township 24 South, Range 25 East.

CASE 6993: Application of Tom Bolack for compulsory pooling, San Juan County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests in the Dakota formation underlying the S/2 of Section 1, Township 30 North, Range 12 West, 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, designation of applicant as operator of the well, and a charge for risk involved in drilling said well.

CASE 6994: Application of Enserch Exploration, Inc. for compulsory pooling, Lea County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests in the Wolfcamp thru Siluro-Devonian formations underlying the N/2 of Section 14, Township 25 South, Range 34 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, designation of applicant as operator of the well, and a charge for risk involved in drilling said well.

CASE 6995: Application of Petro-Lewis Corporation for downhole commingling, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval for the downhole commingling of Penrose Skelly, Blinbry, and Drinkard production in the wellbore of its L. G. Warlick Well No. 2 located in Unit B of Section 19, Township 21 South, Range 37 East.

CASE 6996: Application of John E. Schalk for compulsory pooling, Rio Arriba County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests in the Blanco Mesaverde Pool underlying the NE/4 of Section 8, Township 25 North, Range 3 West, 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, designation of applicant as operator of the well, and a charge for risk involved in drilling said well.

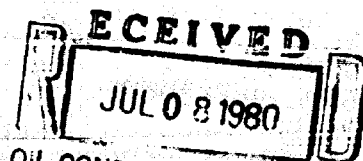
CASE 6982: (Continued from July 23, 1980, Examiner Hearing)

In the matter of the hearing called by the Oil Conservation Division on its own motion to permit Aminoil USA to appear and show cause why its 1980 Plan of Operation/Development for its Willow Lake Unit Area, Eddy County, New Mexico, should not be disapproved.

CASE 6997: Application of Benson-Montin-Greer Drilling Corporation for amendment of pool rules, Rio Arriba County, New Mexico. Applicant, in the above-styled cause, seeks the amendment of the Special Rules and Regulations for the West Puerto Chiquito-Mancos Oil Pool, as promulgated by Order No. R-2565-a, which currently prescribe 320-acre spacing for pool.

Applicant proposes that said rules be amended to provide for 640-acre spacing units with wells to be located within 165 feet of the center of a governmental quarter section.

Applicant further seeks approval for the following non-standard spacing units in Township 24 North, Range 1 East: two 640-acre units being the E/2 of Section 7 and W/2 of 8, and the W/2 of Section 17 and E/2 of 18; and two 480-acre units being the N/2 of Section 19 and NW/4 of 20, and the S/2 of Section 19 and SW/4 of 20; in Township 24 North, Range 1 West: a 320-acre unit being the N/2 of Section 1 and two 640-acre units being the N/2 of Sections 23 and 24, and the S/2 of Sections 23 and 24; also the following eight 640-acre units: the W/2 of Section 29 and E/2 of 30, Township 25 North, Range 1 East; the E/2 of Section 19 and W/2 of 20, Township 26 North, Range 1 East; the E/2 of Sections 5 and 8; the W/2 of Sections 5 and 8; the E/2 of Sections 17 and 20; and the W/2 of Sections 17 and 20, all in Township 26 North, Range 1 West; the W/2 of Sections 1 and 12, and the W/2 of Sections 13 and 24, all in Township 27 North, Range 1 West; also three 600-acre units being the W/2 of Section 25 and all of 26; all of Section 27 and the E/2 of 28; and the W/2 of Section 28 and all of 29, Township 27 North, Range 1 West; and one 400-acre unit in the same township comprising all of Section 30.



Amoco Production Company
Houston Region SANTA FE
500 Jefferson Building
Post Office Box 3092
Houston, Texas 77001

J. R. Barnett
Regional Engineering
Manager

July 1, 1980

File: JCA-936.51NM-3006

Re: NGPA Determinations
Lea and Eddy Counties, New Mexico

*Added to
Aug 6*

State of New Mexico
Energy and Minerals Department
Oil Conservation Division
P. O. Box 2088
Santa Fe, NM 87501

Attention: Mr. Joe D. Ramey

Gentlemen:

Amoco Production Company requests the continuance of Case
Nos. 6956 and 6957 from the July 9 Docket to the August 6,
1980 Docket.

Yours very truly,

J. R. Barnett
HMB/rw

Dockets Nos. 22-80 and 23-80 are tentatively set for July 23 and August 6, 1980. Applications for hearing must be filed at least 22 days in advance of hearing date.

DOCKET: EXAMINER HEARING - WEDNESDAY - JULY 9, 1980

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

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

- CASE 6953:** Application of Gulf Oil Corporation for an unorthodox location and simultaneous dedication, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval for the simultaneous dedication of a previously approved 240-acre non-standard gas proration unit comprising the NE/4 and E/2 NW/4 of Section 17, Township 20 South, Range 37 East, Eumont Gas Pool, to its Theodore Anderson Well No. 4 located in Unit B, and its No. 7, at an unorthodox location 1980 feet from the North line and 660 feet from the East line of Section 17.
- CASE 6954:** Application of Harvey E. Yates Company for amendment of Order No. R-6303, Lea County, New Mexico. Applicant, in the above-styled cause, seeks the amendment of Order No. R-6303 which authorized the directional drilling of a well, the surface location of which is 660 feet from the North line and 1980 feet from the West line of Section 32, Township 13 South, Range 36 East. Applicant seeks approval for the bottom hole location of the well at a point 654 feet from the North line and 2158 feet from the West line of said Section 32.
- CASE 6921:** (Readvertised)
Application of Harvey E. Yates Company for compulsory pooling, Lea County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests in the Wolfcamp-Mississippian formations underlying the S/2 of Section 33, Township 13 South, Range 36 East, to be dedicated to a well to be drilled at an unorthodox location 660 feet from the South line and 990 feet from the East line of Section 33. 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, designation of applicant as operator of the well, and a charge for risk involved in drilling said well.
- CASE 6932:** (Continued from June 25, 1980, Examiner Hearing)
Application of Yates Petroleum Corporation for an unorthodox gas well location, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks approval for the unorthodox location of its State "JM" Well No. 2, a Morrow test to be drilled 660 feet from the South and East lines of Section 25, Township 18 South, Range 24 East, the S/2 of said Section 25 to be dedicated to the well.
- CASE 6934:** (Continued from June 25, 1980, Examiner Hearing)
Application of Coronado Exploration Corporation for three compulsory poolings, Chaves County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests in the San Andres formation underlying three 40-acre proration units, being the NW/4 SE/4 of Section 6, the NE/4 SE/4 of Section 28, and the SW/4 NW/4 of Section 33, all in Township 11 South, Range 28 East, each 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 wells and the allocation of the cost thereof as well as actual operating costs and charges for supervision, designation of applicant as operator of the wells, and a charge for risk involved in drilling said wells.
- CASE 6955:** 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 Tapacito-Pictured Cliffs and Blanco Mesaverde production in the wellbore of its San Juan 27-5 Unit Well No. 42 located in Unit M of Section 22, Township 27 North, Range 5 West.
- CASE 6956:** Application of Amoco Production Company for an NGPA determination, Lea County, New Mexico. Applicant, in the above-styled cause, seeks a new onshore reservoir determination in the Morrow formation for its State "GH" Well No. 1 located in Unit F of Section 21, Township 16 South, Range 35 East.
- CASE 6957:** Application of Amoco Production Company for an NGPA determination, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks a new onshore reservoir determination in the Morrow formation for its State HK Com Well No. 1 located in Unit L of Section 6, Township 24 South, Range 25 East.

APPLICATION FOR WELLHEAD
PRICE CEILING CATEGORY DETERMINATION

Case 6956

HWT-459

1. FOR DIVISION USE ONLY

DATE OF: APPLICATION _____
DETERMINATION _____
CONTESTED _____
PARTICIPANTS _____

Kind of Lease
State, Federal or Private State
State Oil & Gas Lease No. L-2374-1
7. Unit Agreement Name
8. Term of Lease (Date)
9. Well No.
10. Field and Pool, or Willbush
Townsend Morrow
12. County Lea

2. Name of Operator Amoco Production Company
3. Address of Operator P. O. Box 3092; Houston, TX 77001
4. Location of Well UNIT LETTER F 1780 FEET FROM THE North LINE AND 1980 FEET FROM THE West LINE, SECTION 21 TOWNSHIP 16-S RANGE 35-E NMPM.
11. Name and Address of Transporter(s)

WELL CATEGORY INFORMATION

Check appropriate box for category sought and information submitted.

1. Category(ies) Sought (By NGPA Section No.) 102 (c)(1)(c)
2. All Applications must contain:
 - ☒ a. C-101 APPLICATION FOR PERMIT TO DRILL, DEEPEN OR PLUG BACK
 - ☒ b. C-105 WELL COMPLETION OR RECOMPLETION REPORT
 - ☐ c. DIRECTIONAL DRILLING SURVEY, IF REQUIRED UNDER RULE 111
 - ☒ d. AFFIDAVITS OF MAILING OR DELIVERY
3. NEW NATURAL GAS UNDER SEC. 102(c)(1)(B) (using 2.5 Mile or 1000 Feet Deeper Test)
 - ☐ a. Location Plat
4. NEW NATURAL GAS UNDER SEC. 102(c)(1)(C) (new onshore reservoir)
 - ☒ a. C-122 Multipoint and one point back pressure test
5. NEW ONSHORE PRODUCTION WELL
 - ☐ a. C-102 WELL LOCATION AND ACREAGE DEDICATION PLAT
 - ☐ b. No. of order authorizing infill program _____
6. STRIPPER GAS
 - ☐ a. C-116 GAS-OIL RATIO TEST
 - ☐ b. PRODUCTION CURVE FOR 12-MONTH PERIOD
 - ☐ c. PRODUCTION CURVE FOR THE 90-DAY PERIOD ON WHICH THE APPLICATION IS BASED

RECEIVED

JUN 22 1979

Oil Conservation

I HEREBY CERTIFY THAT THE INFORMATION CONTAINED
HEREIN IS TRUE AND COMPLETE TO THE BEST OF MY
KNOWLEDGE AND BELIEF.

AMOCO PRODUCTION COMPANY
NAME OF APPLICANT (Type or Print)
Title Regional Gas Sales Manager
Date 6-20-79
Signed *A. S. McDonald*

DIVISION USE ONLY

- ☐ Approved
☐ Disapproved

The information contained herein includes
all of the information required to be
filed by the applicant under Subpart B
of Part 274.

EXAMINER

Exhibit B

FERC-121

1.0 API well number. (If not available, leave blank. 14 digits.)	<u>N/A</u>			
2.0 Type of determination being sought: (Use the codes found on the front of this form.)	<u>102</u> Section of NGPA		<u>4</u> Category Code	
3.0 Depth of the "open completion location": (Only needed if sections 1C3 or 1C7 in 2.0 above.)	<u>12,000</u>			
4.0 Name, address and code number of applicant. (35 letters per line maximum. If code number not available, leave blank.)	Amoco Production Company <u>000569</u> Name <u>P. O. Box 3092</u> Seller Code <u>Houston,</u> TX <u>77001</u> City State Zip Code			
5.0 Location of the well. (Complete (a) or (b).) (a) For producers wells (35 letters maximum for field name.)	Townsend Morrow Field Name County NM State			
(b) For OCS wells	Area Name _____ Block Number _____ Date of Lease _____ Mo Day Yr. OCS Lease Not to Exceed _____			
(c) Name and identification number of this well. (35 letters and digits maximum.)	<u>State "GH" Well No. 1</u>			
(d) If code 4 or 5 in 2.0 above, name of the reservoir. (35 letters maximum.)	_____			
6.0 (a) Name and code number of the purchaser. (35 letters and digits maximum. If code number not available, leave blank.)	Natural Gas Pipeline Co. of America <u>013302</u> Name Buyer Code			
(b) Date of the contract	<u>01/20/79</u> Mo Day Yr.			
(c) Estimated annual production	<u>1795</u> MMcf.			
7.0 Contract price (As of filing date. Complete to 3 decimal places.)	(a) Base Price (\$/MMBtu)	(b) Tax	(c) All Other Prices (Indicate "+" or "-")	(d) Total of (a), (b) and (c)
8.0 Maximum lawful rate (As of filing date. Complete to 3 decimal places.)	2.156	0.146	---	2.302
9.0 Person responsible for this application:	Regional Gas Sales Manager			
Agency Use Only	Name <u>H. I. McDonald</u>			
Date Received by Juris. Agency	Signature <u>H. I. McDonald</u>			
Date Received by FERC	6-21-79 713-652-5588 Date Application is Completed Phone Number			



June 21, 1979

Amoco Production Company

500 Jefferson Building
P.O. Box 3092
Houston, Texas 77001

HWT-459

Re: NGPA
Application For Wellhead Price Ceiling
Category Determination
State "GH" Well No. 1
Townsend Morrow Field
Lea County, New Mexico

RECEIVED

JUN 22 1979

Department of Energy and Minerals
Oil Conservation Division
Box 2088
Santa Fe, NM 87501

~~Oil Conservation~~

Gentlemen:

Pursuant to the requirements as set out in the rules of the Oil Conservation Division of the Energy and Minerals Department of the State of New Mexico, and also pursuant to the requirements of the rules and regulations promulgated by the Federal Energy Regulatory Commission under the Natural Gas Policy Act of 1978, Amoco Production Company (Amoco), an independent producer, transmits herewith for filing with the Oil Conservation Division, an Application For Wellhead Price Ceiling Category Determination, and an Application for Determination of the Maximum Lawful Price Under the Natural Gas Policy Act (FERC 121), together with all necessary and appropriate attachments thereto.

Please address all notices or questions regarding this filing to:

Mr. H. L. McDonald
Amoco Production Company
P.O. Box 3092
Houston, TX 77001

(713) 652-5588

Please acknowledge receipt of this filing on an extra copy of this letter enclosed herewith together with a stamped, self-addressed envelope for your convenience.

Respectfully submitted,

AMOCO PRODUCTION COMPANY

By Richard L. Merrill
Richard L. Merrill, Attorney

RLM/slv

176/U(1)

Enclosures

cc: (with Enclosures)
J. W. Howard
H. L. McDonald

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LAND OFFICE	
OPERATOR	

NEW MEXICO OIL CONSERVATION COMMISSION

RECEIVED
NOV 28 1978
3 DEPT. TEXAS

Form C-101
Revised 1-1-75

5A. Indicate type of Lease
STATE ☒ FEDERAL ☐

5. State Oil & Gas Lease No.
L - 2374 - 1

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work
b. Type of Well
DRILL ☒ DEEPEN ☐ PLUG BACK ☐
OIL WELL ☐ GAS WELL ☒ SINGLE ZONE ☒ MULTIPLE ZONE ☐

2. Name of Operator
Amoco Production Company

3. Address of Operator
P.O. Drawer "A", Levelland, Texas 79336

4. Location of Well
UNIT LETTER **F** LOCATED **1980** FEET FROM THE **North** LINE
AND **1980** FEET FROM THE **West** LINE OF SEC. **21** TWP. **16-S** RGE. **35-E**

7. Unit Agreement No.

8. Form of Lease
State Oil

9. Well No.
1

10. Field and Well Name
Wildcat - Morrow

Lea

11. Proposed Depth 13,000'	12a. Formation Morrow	12b. Method of Casing Rotary
21. Elevations (Show whether DT, RL, etc.) 4005 GR	21A. Kind & Status of Log Used Blanket on File	21B. Drilling Contractor Delta
		22. Approx. Date Work will start 11-27-78

23. PROPOSED CASING AND CEMENT PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP
17 1/2"	13 3/8"	48#	400'	Circulate to surface	surface
12 1/4"	9 5/8"	36#	4700'	Circulate to surface	surface
8 3/4"	5 1/2"	15.5# - 17#	13,000'	Tie back to 9 5/8" Casing	

After reaching TD, logs will be run and evaluations made. Perforate and/or stimulate as necessary in attempting commercial production.

Mud program: 0-400' Native mud and fresh water
400'-4700' Native mud and brine water
4700'-12,250' Adding fresh water to brine and commercial mud to maintain safe hole conditions.
12,250' - TD Add KCl for 6% system. Use brine water for make-up water.
At 12,700' raise viscosity and reduce water loss to 6.0 cc for Morrow penetration.
BOP program is attached
Gas is not dedicated

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: IF PROPOSAL IS TO DEEPEN OR PLUG BACK, GIVE DATA ON PRESENT PRODUCTIVE ZONE AND PROPOSED NEW PRODUCTIVE ZONE. GIVE BLOWOUT PREVENTER PROGRAM, IF ANY.

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

Signed **Kevin Evans** Title **Assist. Admin. Analyst** Date **11/22/78**
(This space for State Use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

0 + 4- NMOC- Lea 1-DE
1-Houston
1-Susp

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FILE	
U.S.G.S.	
LAND OFFICE	
OPERATOR	

NEW MEXICO OIL CONSERVATION COMMISSION WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1. Information Type of Lease	☒ Lease ☐ Other
2. Lease No. or Lease Name	L-2374-1
3. Well No.	
4. Name of Lease (Same as State)	State GH
5. Well Type	1
6. Lease Status (Full, or Partial)	Und. Morrow

10. TYPE OF WELL	OIL WELL ☐ GAS WELL ☒ DRY ☐ OTHER ☐
11. TYPE OF COMPLETION	NEW WELL ☒ WORK OVER ☐ DEEPEN ☐ PLUS BACK ☐ DIFF. RESER. ☐ OTHER ☐
12. Name of Operator	Amoco Production Company
13. Address of Operator	P.O. Drawer "A", Levelland, Texas 79336
14. Location of Well	UNIT LETTER <u>F</u> LOCATED <u>1980</u> FEET FROM THE <u>North</u> LINE AND <u>1980</u> FEET FROM <u>West</u> LINE OF SEC. <u>21</u> TWP. <u>16-S</u> RGE. <u>35-E</u>

15. Date T.D. Reached	12/5/78	16. Date Compl. (Ready to Prod.)	2/21/79	17. Date Compl. (Ready to Prod.)	3/27/79	18. Elevations (D.F., R.H.R., R.I., GR., etc.)	3514 RHR	19. Elev. Casinghead		
20. Total Depth	12,900'	21. Plug Back T.D.	12,866'	22. If Multiple Compl., How Many		23. Intervals Drilled by	Rotary Tools	0-TD	Cable Tools	
24. Producing Interval(s), of this completion - Top, Bottom, Name	12,392' - 12,627' Morrow								25. Was Directional Survey Made	No
26. Type Electric and Other Logs Run	Comp Neutron Form Density; Dual Laterolog Micro SFL								27. Was Well Cored	No

28. CASING RECORD (Report all strings set in well)					
CASING SIZE	WEIGHT LB. FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
13 3/8"	54.4#	425'	17 1/2"	400 sx C1 C	
9 5/8"	36#	4550'	12 1/4"	1350 sx Howcolite + 200 sx C1 C	
5 1/2"	17=20#	12902'	8 3/4"	1400 sx Lite + 900 sx C1 H	

29. LINER RECORD					30. TUBING RECORD		
SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN	SIZE	DEPTH SET	PACKER SET
					2 7/8"	12294'	12199'

31. Perforation Record (Interval, size and number)	32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.
12,392'-12,410'	DEPTH INTERVAL
12,611'-12,627' W/4 JSPF	AMOUNT AND KIND MATERIAL USED

33. PRODUCTION							
Date First Production	3/7/79	Production Method (Flowing, gas lift, pumping - Size and type pump)	Flowing	Well Status (Prod. or Shut-in)	Shut-In		
Date of Test	3/7/79	Hours Tested	24	Choke Size	20/64"	Prod'n. For Test Period	
Flow Tubing Press.	2000	Casing Pressure		Calculated 24-Hour Rate		Oil - Bbl.	0
						Gas - MCF	11000
						Water - Bbl.	0
						Gas - Oil Ratio	
						Oil Gravity - API (Corr.)	

34. Disposition of Gas (Sold, used for fuel, vented, etc.)	Sold	Test Witnessed By	
--	------	-------------------	--

35. List of Attachments	See #26 Above.
-------------------------	----------------

36. I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief.

SIGNED	<u>Ray Cox</u>	TITLE	Admin. Supervisor	DATE	March 30, 1979
--------	----------------	-------	-------------------	------	----------------

O+4-NMOC, H 1-Susp 1-Hou 1-RWA 1-Union Oil

INSTRUCTIONS

This form is to be filled with the appropriate Office of the Commission not later than 20 days after the completion of any newly-drilled or deepened well. It shall be accompanied by one copy of all electrical logs and a summary of all special tests conducted, including full test logs. All logs reported shall be measured in feet. In the case of directionally drilled wells, true vertical depth shall also be reported. For multiple formations, Form No. 34 shall be required for each zone. The form is to be filled in quadruplicate except on state lands, where six copies are required. See Rule 11.5.

INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

Southeastern New Mexico

Northwestern New Mexico

T. Anhy	T. Canyon	T. Ojo Alamo	T. Penn. "B"
T. Salt	T. Strawn 11790'	T. Kittling-Fruitland	T. Penn. "C"
H. Salt	T. Atoka 11934'	T. Pictured Cliffs	T. Penn. "D"
T. Yates	T. Miss	T. Cliff House	T. Leadville
T. 7 Rivers	T. Devonian	T. Mesquite	T. Madison
T. Queen	T. Silurian	T. Point Lookout	T. Elbert
T. Grayburg	T. Montoya	T. Mancos	T. McCracken
T. San Andres 4808'	T. Simpson	T. Gallup	T. Ignacio Quartz
T. Gila 6327'	T. McKee	Base Greenhorn	T. Granite
T. Paddock	T. Ellenburger	T. Dakota	T.
T. Blinberry	T. Gr. Wash	T. Morrison	T.
Tubb 7573'	T. Granite	T. Toddlite	T.
Brinkard	T. Delaware Sand	T. Entrada	T.
Abo	T. Bone Springs	T. Wingate	T.
T. Moncampa 9742'	T. Morrow 12340'	T. Chert	T.
T. Penn.	T. Chester Lime 12848'	T. Permian	T.
T. Cisco (Hough C) 10719'	T.	T. Penn. "A"	T.

OIL OR GAS SANDS OR ZONES

No. 1, from 12392' to 12627'	No. 4, from _____ to _____
No. 2, from _____ to _____	No. 5, from _____ to _____
No. 3, from _____ to _____	No. 6, from _____ to _____

IMPORTANT WATER SANDS

Include data on rate of water inflow and elevation to which water rose in hole.

No. 1, from None to _____ feet	_____
No. 2, from _____ to _____ feet	_____
No. 3, from _____ to _____ feet	_____
No. 4, from _____ to _____ feet	_____

FORMATION RECORD (Attach additional sheets if necessary)

From	To	Thickness in Feet	Formation	From	To	Thickness in Feet	Formation
0	1965	1965	Red Bed	7882	8371	489	Dolomite + Chert + Sand
1965	2027	62	Red Bed + Anhydrite	8371	8940	569	Dolomite + Chert + Shale
2027	3128	1101	Anhydrite	8940	9173	233	Dolomite + Chert
3128	3438	310	Anhydrite + Shale	9173	10048	875	Lime
3438	3747	309	Shale	10048	10643	595	Lime + Chert
3747	3879	132	Shale + Anhydrite	10643	10793	150	Shale
3879	4151	272	Anhydrite	10793	11279	486	Chert
4151	4214	63	Anhydrite + Dolomite	11279	11904	625	Shale + Lime
4214	4440	226	Dolomite	11904	12160	256	Lime + Shale + Sand
4440	4508	68	Dolomite + Shale	12160	12669	509	Shale + Lime
4508	4550	42	Dolomite + Lime	12669	12725	56	Lime
4550	5292	742	Dolomite + Anhydrite	12725	12875	150	Lime + Shale
5292	5678	386	Dolomite + Chert	12875	12900	25	Lime
5678	6626	948	Dolomite				
6626	7882	1256	Dolomite + Chert				

AFFIDAVIT OF MAILING

STATE OF TEXAS |

COUNTY OF HARRIS |

I hereby certify that a true and correct copy of the attached Application for Wellhead Price Ceiling Category Determination (New Mexico Oil Conservation Division Form C-132), together with a true and correct copy of the Application for Determination of the Maximum Lawful Price Under the Natural Gas Policy Act (FERC 121), has been served upon the persons listed on Exhibit "A" attached to this Certificate of Service and made a part hereof, at the addresses shown, by placing the same in the United States mail, postage paid, on the 21 day of JUNE, 1979.

H. L. McDonald
H. L. McDonald
Regional Gas Sales Manager
AMOCO PRODUCTION COMPANY

SUBSCRIBED, SWORN TO, AND ACKNOWLEDGED before me this 21st day of June, 1979.

My Commission Expires:

4-28-80

Lordia J. Brown
Notary Public in and for
Harris County, Texas

RLM/cjb
189/J

NEW MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACREAGE DEDICATION PLAT

Form C-122
Superseded C-122
Effective 1-4-65

All distances must be from the outer boundaries of the Section.

HWT-459

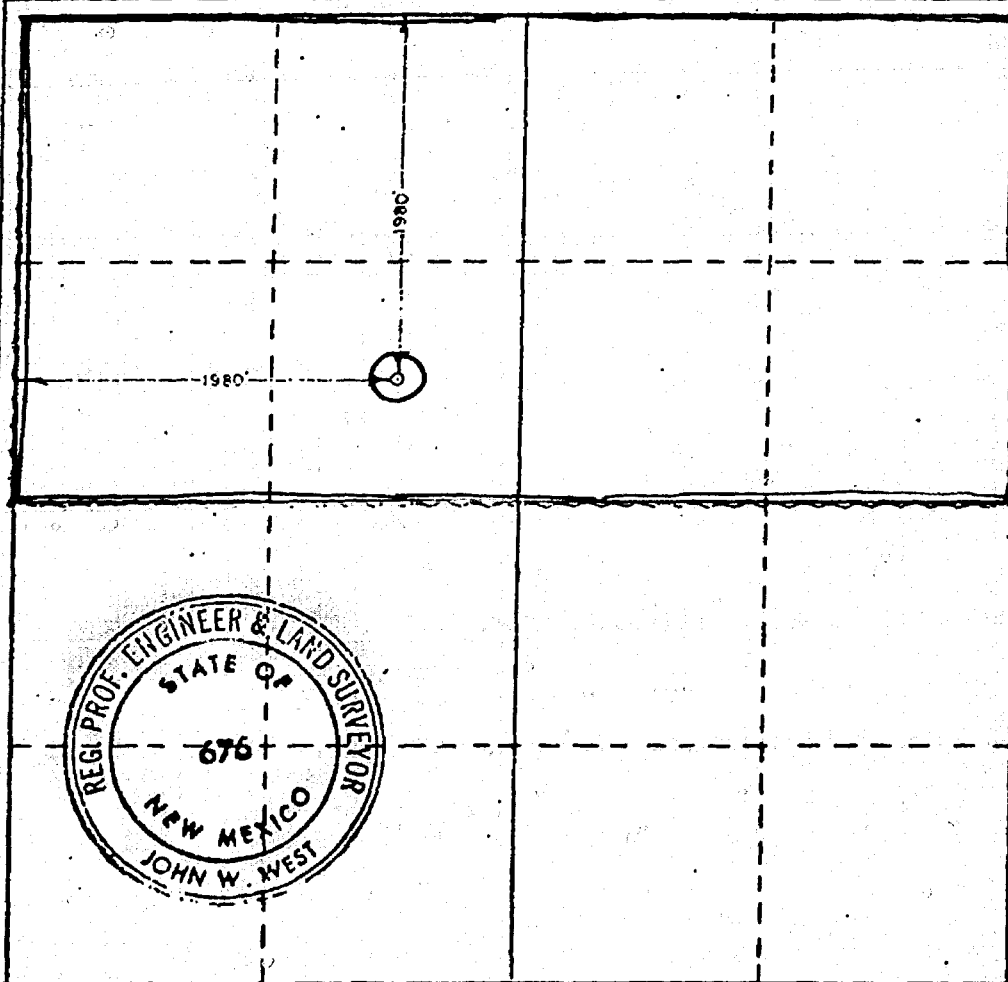
Operator Amoco Production Co.			Lease State G H		
Well Letter F	Section 21	Township 16 South	Range 35 East	County Lea	
Actual Well Location of Well:					
1980 feet from the North line and		1980 feet from the West line			
Ground Level Elev. 4005.9	Producing Formation Moricon	Pool Und. Townsend Morrow	Dedicated Acreage: 3.20		

1. Outline the acreage dedicated to the subject well by colored pencil or hatchure marks on the plat below.
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communization, unitization, force-pooling, etc?

☐ Yes ☐ No If answer is "yes," type of consolidation _____

If answer is "no," list the units and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.) _____

No allowable will be assigned to the well until all interests have been consolidated (by communization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission.



CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

Name **Dennis Evans**
Position **Asst. Admin. Analyst**
Company **Amoco Production Co.**
Date **11-22-78**

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed
November 15, 1978

Registered Professional Engineer and/or Land Surveyor

John W. West

Certificate No. **John W. West 676**
Ronald J. Edson 3239

EXHIBIT "A"

CERTIFICATE OF SERVICE

State of New Mexico
Energy and Minerals Department
Oil Conservation Division
P. O. Box 1980
Hobbs, New Mexico 88240

State of New Mexico
Energy and Minerals Department
Oil Conservation Division
P. O. Drawer NN
Artesia, New Mexico 88210

GAS PURCHASER (S)

United Gas Pipeline Co. of America
P. O. Box 1478, 700 Milam
Houston, TX 77001

NON-OPERATORS

None



HWT-459

Amoco Production Company

Houston, Texas
May 14, 1979

File: HHR-1368-WF

Re: Justification of a New Reservoir
State "GH" Gas COM No. 1
Lea County, New Mexico

MEMORANDUM TO FILE

The subject well is completed in a new reservoir based on three observations: (1) insufficient ultimate drainage by the offsets, (2) lack of condensate production on initial test, and (3) the bottom-hole pressure which was found to be that of a virgin reservoir. Furthermore, the lower sand has not been encountered in any other wellbore in the area.

Drainage calculations based on the ultimate recovery of the Lowe State Well No. 1, located in Section 17, T-16-S, R-35-E, indicate only 315 acres will be drained. This is smaller than the proration unit size of 320 acres.

Anomalous condensate production has been noted. The shallower completions are making condensate, while the deeper completion, the State "GH" Gas Com No. 1, has not produced condensate on test.

The bottom-hole pressure encountered in the upper zone represents a virgin reservoir. The latest bottom-hole pressure data from the four producers located to the north indicated a range of 2500-3450 psi measured during July, 1978. The calculated bottom-hole pressure for the upper zone is 6450 psi. This is based on a "kick" encountered while drilling a 12,404' with a 10.0 lb./gal. mud system.

Therefore, based on drainage calculations, lack of condensate production from State "GH" Well No. 1, and the calculated bottom-hole pressure, the State "GH" Well No. 1 is completed in a new reservoir.

Gary G. Janik

Gary G. Janik

GGJ/cjb
86/P