CASE 6542: SUN OIL COMPANY FOR SPECIAL CASINGHEAD GAS ALLOWABLES, LEA COUNTY, NEW MEXICO

CASE NO.

6542

APPlication,
Transcripts,
Small Exhibits,

ETC.

_	4
Page	I

STATE OF NEW MEXICO
EMERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
State Land Office Building
Santa Fe, New Mexico
9. May 1979

EXAMINER HEARING

TN THE MATTER OF:

Application of Sun Oil Company for special) CASE casinghead gas allowables, Lea County, New) 6542 Mexico.

BEFORE: Daniel S. Nutter

TRANSCRIPT OF HEARING

APPEARANCES

For the Oil Conservation Division:

Ernest L. Padilla, Esq.
Legal Counsel for the Division
State Land Office Building
Santa Fe, New Mexico 87503

For the Applicant:

W. Thomas Kellahin, Esq. KELLAHIN & KELLAHIN 500 Don Gaspar Santa Fe, New Mexico 87501

ALLY WALTON BOYD

ERTIFIED SHORTHAND REPORTER
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Page	2	
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I N D E X CONT'D

Applicant Exhibit Seventeen, Production Curve	11
Applicant Exhibit Eighteen, Tabulation	11
Applicant Exhibit Nineteen, Tabulation	12
Applicant Exhibit Twenty, Order	13

I H D E X CONT'D

Applicant	Exhibit	Seventeen, Production Curve	11
Applicant	Exhibit	Eighteen, Tabulation	1]
Applicant	Exhibit	Mineteon, Tabulation	12
Applicant	Exhibit	Twenty, Order	13

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MR. MUMPER: Call Case 6542.

PADIMA: Application of Sun Oil Company for special casinghead gas allowables, Lea County, New Mexico.

Fe, New Mexico, appearing on behalf of the applicant, and I have one witness, Mr. Examiner, who's already under oath and has been previously qualified in the previous case.

I would ask the Examiner that Mr. Gillett be accepted as an expert in this case, and that the record also reflect that he's still under oath.

MR. NUTTER: Hr. Gillett is qualified and under oath.

MR. KELLAHIN: If the Examiner please,

I'd like to point out that in the previous case there was
an error in the advertisement with regards to the application. In the application we asked that the unorthodox
location be approved and the acreage be simultaneously
dedicated to the two wells.

The advertisement failed to contain a reference to the simultaneous dedication.

MR. NUTTER: That was deliberately done, Mr. Kellahin, because oil wells are not considered simultaneous dedication requiring hearing.

MR. KELLAHIN: Thank you.

STEPHIN GILLEGY

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

DIRECT EXAMINATION /

BY MR. KELLAHIN:

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Wir. Gillett, would you please refer to Q. what has been marked as Exhibit Number One and summarize what Sun Oil is seeking to accomplish in this case.

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Yes, sir. What Sun Oil is seeking to accomplish is to downhole co-mingle two reservoirs, the Drindard and the Granite Wash, and to produce them up one string -- to the standard rules by the Commission are to assign an allowable of the Granite Wash in this particular case, to that mmingle production. That restricts the gas allowable as seen in Exhibit Number One. In Exhibit Number One the top gas allowable for the Drinakard is 852 MCF per day, and for the Granite Wash is 374. Now, were these zones produced up separate strings of tubing a producer would be allowed to produce 1,200 and some odd MCF per day, but because of the commingling we are restricted to 370. What we are asking is to have that restriction amended upwards so we can properly produce

SALLY WALTON BOY CERTIFIED SHORTHAND REPORT 3010Plaza Blanca (505) 471-2 Santa Fe, New Mexico 875 show the estimated current production on the Lynch No. 2 as 3 barrells a day and 290 MCF a day, and the Granite Wash as 3 and 250. That would be after commingling, which would be a total of 6 barrells of oil and 540 MCF a day. Now, we further — once we get this commingled and get it producing we estimate that we will have to rod pump that well within the near future. When we do that we will expect a fifty percent increase in fluid, in all fluid, including gas. So we estimate that we will require the ability to produce 810 MCF per day, so we are asking for 900 MCF per day allowable, which is still less than 75 percent of the allowable that we could get were these zones produced separately.

At the bottom half of that page is the same information for Annie Christmas No. 1. The current estimated production after commingling of the two zones the sum of those two which is 286 MCF in the case of the gas, which is below that 374. The Gyanite Wash and the Christmas is currently rod pumped and the Drinkard is not and when we get these commingled we expect the Drinkard will, gas production will double the reduced head on the formation. This will require — give us an expected production of 412 MCF a day so we are asking for 500, which is less than half of what we could get or what we

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have ability to produce now as a dual well.

- Would you refer to Exhibit Number Two and identify it.
- Exhibit Number Two is part of our workover form indicating briefly what we want to do telling the current production and allowable information on the two formations. It shows that the well the Granite Wash is rod pumped, making 22 oil, no water, and 160 MCF for a GOR of 72/73. It also shows the perforations. Drinkard is flowing and their perforations that it is flowing are 50 pounds against 3264 choke making 5 oil and 126 MCF.
 - Exhibit Number Three.
- Α. Exhibit Number Three is our proposed workover procedure on the Annie Christmas Number 1. Do your want me to go into any detail on that?
- No, sir, it is pretty clear. Exhibit Number Four.
- A. Exhibit Number Four is the history of the Annie Christmas No. 1. That is two pages, Mr. Nutter.
 - Q. Go to Five. What is Exhibit Number Five?
- A. Five is a plat of our lease and the eight sections surrounding that lease forging out the Annie Christmas and it has spotted all Drinkard wells that we have based on the 1978 Annual Report of the

Commission.

Q. Your packet of exhibit contains subsequent plats showing the Drinkard and Granite Wash not
only for the Lynch well but the Christmas Tree?

- A. Yes.
- Q. What is Exhibit Number Six?
- A. Exhibit Number Six is the same plat except the Granite Wash producers are spotted.
- Q. Let's go to Exhibit Number Seven. Would you identify that.

sketch of the Annie Christmas No. 1 the way we would like to produce it as a commingled wellbore. If you will note we have a latch-in standing valve set in the overshot seal divider at 7191. The Granite Wash is a very water sensitive zone and the Drinkard makes little or no water but it makes slight amount and we fell that for safety's sake that we should have that to keep the Drinkard's produced fluids from coming down into the Granite Wash and damaging it.

- Q. Would you refer to Exhibit Number Eight.
- A. Exhibit Number Eight a wellbore sketch of the way the Annie Christmas is currently being produced as a dual well.
 - Q. Would you refer to Exhibit Number Nine

and identify that please.

A. Exhibit Number Hine is a production curve of the oil, gas, and water production from the Granite Wash formation out of the Annie Christmas No. 1.

- Q. Okay, and Exhibit Number Ten.
- A. Exhibit Number Ten is the same curve for the Drinkard formation on that well.
- Q. In your opinion, Mr. Gillett, can the Annie Christmas Tree No. 1 Well be more effectively and efficiently produced as a downhole commingled well?
 - A. Yes, sir, it can.
- Q. Can that be accomplished without damage to either the Drinkard or the Granite Wash formation?
 - A. Yes, it can.
- Q. In your opinion, will the downhole commingling of the Annie Christmas No. 1 Well produce additional hydrocarbons that might not otherwise be produced?
 - A. Yes, it will.
- Q. Will approval of this application with regards to the Annie Christmas No. 1 Well -- can this be accomplished without causing over production of the casing head gas for either the Drinkard or the Granite Wash?
 - A. Yes, it can.

Q, Hould you refer now to Exhibit Humber Eleven and identify it.

Exhibit Number Eleven is the same basic information that we gave you on the Exhibit Number Two except this for the Walter Lynch No. 2 well. This is showing the same information and production rates, so and so-forth. It also has the procedure for this well work. You will note that the Granite Wash is not currently producing on this lease. It has been tested but it is now shut off.

Q. Would you refer to Exhibit Number Twelve.

A. Exhibit Number Twelve is history of the Walter Lynch No. 2 from spud date to present.

Would you refer to Exhibit Number Q. Thirteen.

Exhibit Number Thirteen is the same plat that we had for the Annie Christmas Granite Wash except it has an arrow pointing to the Lynch well.

> Q. All right, and Exhibit Number Fourteen.

It is the same thing for the Drinkard wells.

Would you refer to Exhibits Number Fifteen and Sixteen and compare the schematics between the way the wells currently completed and the suggested

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THEE SHORTHAND REPORTER
Place (605) 471-246
mas Fe. New Morkes 57501

recompletion.

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A. All right. Exhibit Number Fifteen is the proposed downhole set-up. Exhibit Number Sixteen is the way it is now. The only difference between those two is that presently we have a DR plug in the packer at 6939 and we want to pull that out and replace it with brach in standing valves for the same reasons as I explained earlier on the Christmas well.

Q. Okay. Would you refer to Exhibit Number Seventeen and identify it.

A. Exhibit Number Seventeen is a production history curve for the Drinkard formation of Walter Lynch No. 2 showing a gas, oil and water production.

Q. Would you refer to Exhibit Number Eighteen and explain what it is.

tabulation of oil, gas, and water production rates and available bottom hole pressure data for all wells on plats previously entered on previous exhibits. These come out of the 1978 Annual Report of the State of New Mexico.

Q. Are either of the Granite Wash or Drinkard zones in either of the two wells subject to drainage by any offsetting wells in either horizon?

A. Yes, sir, they are.

Q. Would you explain to me what drainage you are subject to and with what particular wells.

You notice in Exhibit Thirteen our Lynch No. 2 is also Marathon's No. 3. Lynch Well and Exxon's S. State No. 30. These wells are producing from the Granite Wash and, in fact, produce the S. State produces 26 barrells of oil and 96 MCF of gas per month. The Marathon No. 8 produces 386 barrells of oil and 5 million 650 thousand cubic feet of gas a month. These are tabulated in Exhibits Eighteen and Nineteen and they are draining our No. 2 location.

Q. If this application were approved, Mr. Gillett, it would afford Sun Oil Company an opportunity to offset the drainage it is currently experiencing from offsetting wells?

A. Yes, sir, it will.

Q. Has the Commission ever approved a similar application as this for the Drinkard and Wantz-Abo formation?

A. Yes, sir, it has in Case No. 6318 requested by Coquina Oil Company. It was approved by Order No. R-5845. That well is located 3-1/2 miles south and 1/2 mile east of our wells.

Q. I show the examiner what we have marked

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as Sun Oil Exhibit Number Twenty, which is a true and correct copy of the Commission Order for the Coquina case and we move that that be introduced into the record of this case. How, tell me again, Mr. Gillett, where the Coquina well is in relation to the Sun well.

- A. That well is 3-1/2 miles south 1/2 mile east.
- Q. Were Exhibits One through Nineteen prepared by you or compiled under your direct supervision?
 - A. Yes, sir, they were.
- Q. And in your opinion, Mr. Gillett, will approval of this application be in the best interest of conservation and the prevention of waste and the protection correlative rights?
 - A. Yes, sir, it will.

MR. KELLAHIN: Mr. Examiner, I move for the introduction of Exhibits One through Twenty.

MR. HUTTER: Sun's Exhibits One through Twenty will be admitted in evidence.

CROSS EXAMINATION

BY MR. NUTTER:

Q. Mr. Cillett, has Sun already secured approval for the downhole commingling of the two zones in each of these two wells?

Yos and no. The Lynch well has been

2	approved by DMC -	
3	Ω,	The Lynch by DEC
4	ă.	272.
5	0.	When was that issued?
6	Λ.	It was dated February 9, 1979.
7	Ω.	And you haven't applied for the Christmas
8	yet?	
9	Α.	Yes, sir, that has been applied for and
10	we checked with M	r. Ulvog and it is waiting administrative
11	approval after th	e 22-day has elapsed.
12	Q.	Okay. The application there is pending?
13	Α.	Yes, sir. That was filed about two
14	weeks ago.	
15	Q.	Now, as I understand the reservoirs
16	under each of the	se two wells, the Drinkard allowable is
17	852 MCF per day?	
18	Α.	That is correct.
19	Q.	And the Granite allowable is 374 MCF
20	per day?	
21	Α.	Correct.
22	Q.	And the rule on downhole commingling
23	provides that the	casing head allowable, the smaller
24	casing head allow	able for the two shall prevail in the
ll l		

case of downhole commingling.

Λ.

O. So the casing head allowable for each of these if it were commingled in the wellbore would be 374 MCF per day, which is the lower casing it allows for the wells?

A. Yes, sir.

Q. But you feel that production will increase with the downhole commingling and that the amount of gas that could be produced from the — that the production for the two zones would probably be within the limit as far as the Drinkard is concerned, but that it would not insofar as the Granite Wash is concerned, is that it?

A. No, sir. Each reservoir we expect to produce less than the top allowable for the reservoir.

In other words, the Drinkard will produce less than 852, the Granite Wash will produce less than 374.

Q. These production figures here are for the Lynch No. 2, the 290 and the 250 are the amounts of gas you expect to produce under the commingling situation?

A. Yes, sir, as flowing wells. The --

Q. How much do you expect to produce when they are pumped from each of those zones?

A. We estimate a 50 percent increase in gas when they are pumped.

Q. From each of the two zones?

So the figure then from the Drinkard

A. That is correct.
Q. And the Granite Wash 250 plus 50 percent
of 250.
A. Yes, sir, which is 375.
Q. And it says here required casing head
gas allowable 810, I think you mentioned 900.
A. Well, what I did there is I took the
540 times 1.5 and that comes to 810, and so I asked for
900 to give me a little pad. It is still well below the
1254.
MR. NUTTER: Are there any further
questions of Mr. Gillett. He may be excused.
Do you have anything further, Mr.
Kellahin?
Kellahin? MR. KELLAHIN: Not in this case.
MR. KELLAHIN: Not in this case.
MR. KELLAHIN: Not in this case. MR. NUTTER: Does anyone have anything
MR. KELLAHIN: Not in this case. MR. NUTTER: Does anyone have anything they wish to offer in Case No. 6542? We will take the

From each.

would be 290 plus 50 percent of 290?

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Senta Fe, New Moxico 87701

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REPORTER'S CERTIFICATE

CERTIFY that the foregoing and attached Transcript of Hearing before the Oil Conservation Division was reported by me; that said transcript is a full, true, and correct record of the hearing, prepared by me to the best of my ability, knowledge, and skill, from my notes taken at the time of the hearing.

Sally W. Boyd, C.S.R.

do hereby certify that the foregoing to a complete record of the proceedings in the Examiner hearing of Case No. 1977 theard by me on Examiner

Oll Conservation Division

SUN OIL COMPANY
WALTER LYNCH #2
ANNIE CHRISTMAS #1

CASE #6542

5-9-79

EXCEPTION TO RULE 303-C INCREASED CASINGHEAD GAS ALLOWABLE

W. LYNCH #2	ESTIMAT	ED PROD.	ALLOWABLE		
	BOPD	MCFD	BOPD	MCFD	
Drinkard	3	290	142	852	
Granite Wash	3	250	187	374	
Total	6	540	187	374	

Estimate 50% increase when rod pumped.

Required casinghead gas allowable: 810 MSCFD

REQUESTED ALLOWABLE: 900 MCFD

A. CHRISTMAS #1

Drinkard	5	126	142	852
Granite Wash	22	160	187	374
Total	6	286	187	374

Drinkard will increase 100% when rod pumped.

Required casinghead gas allowable: 412 MSCFD

REQUESTED ALLOWABLE: 500 MCFD

HELL WORK COST ESTIN	LATE ? DO OCEDIDE	- (Pil	is cone u	i		£		
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zones are	low volume.			antina communication and transportation of the				
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WELL NAME	#1-L		<u>-U</u>					
WELL CLASSIFICATION RESERVOIR NAME	PE Granite Was	n Drink	ard				5	
PERFORATIONS (EL)	7217-7296	6291-6						
PERFORATION (R/A)								
CURRENT CACENDAR ALLOWABLE, B/D	24							
CURRENT MAXIMUM ALLOWABLE, B/O	137	142	·		÷			
PROD. TEST: Date	1/20/79	1/20/	79			2		
DUCTION METHOD	PE							5
TUBING PRESSURE	30. 34 3.3	12 50"	00.464					
TÜBING PRESSURE B CHOXE SIZE OIL/COND., BBLS.	13 x 74 x 1-1 22	<u>/2 50#</u> 5	32/64					
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PROCEDURE:								. 1
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PROBATION

4/9/79

WORKOVER PROCEDURE

NOTE: Granite Wash zone (LT) is highly water sensitive. Do not pump water down well!!!

- MIRU. Unseat pump in lower tbg. Pump 50 bbl hot oil down lower tbg, wait 1 hr. POH w/rods. Install Hydril BOP.
- RIH w/taper tap on sucker rods & screw into 11/16" hole in mechanical hold down @ 4921. Fish & POH and lay down rods.
- 3. Otis set latch in standing valve in "X" nipple at 7180'.
- Kill Drinkard w/dead lease oil thru upper tbg; Un-jay upper tbg from "RDH" pkr @ 4349 3 POH laying down.
- Release "ROH" pkr w/straight pull on lower tbg, pull out of overshot @ 7181'
 & retrieve dual equipment. (Note: 1" UT Retrieve w/LT.)
- 6. Install 7" x 2½" single wellhead & run OS W/O lugs; 1 jt. 2-3/8; Otis "C". Nipple, 900' 2-3/8", 5" TAC, 3950' 2", 4.7#, J-55, & 2000' 2½", 6.5# J-55.
- 7. Run $1\frac{1}{2}$ " insert pump on 86 rod taper (74-1", 74-7/8", 127-3/4") (Do not run paraffin scrapers on rods).
- 8. RD RR. Align pumping unit. POP @ 8 x 74 x 1½. Test.

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ANNIE CHRISTMAS 4/9-79

LOCATION: 669' FSL & 1986' FWL, Section 1, Township 22-S, Range 37-E Unit N. LOGS:

ELEVATION: GL 3350' DF 3361' RT 3362'

(

Well was drilled to a T.D. of 5250' May and June 1945. Had set 13-3/8, 9-5/8 & 7" csgs. Had DST'd 5080-5165'. GTS in 4 min, mud in 11 min, oil in 15 min. Perf Paddock 5165-5185' w/60 shots. Acidized w/1000 gal I.P. F 12 hrs 742 BO, no water, 521 MCF gas.

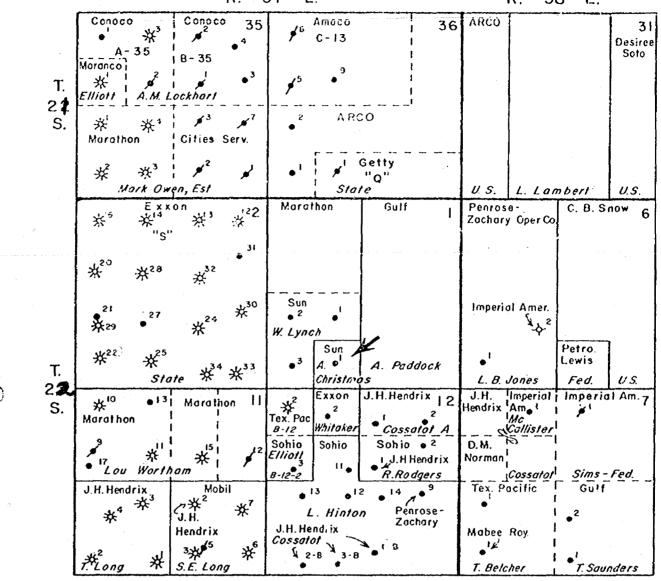
- Oct. 1959; Acdz Paddock perfs 5165-85 w/10,000 gal 15% XLST w/ 60 RCNBS. MP 4000, FP 3400. AIR 6.6 BPM. Before WO 6 BOPD. After W.O. 50 BOPD, 127 MCFPD.
- Mar. 1962; Perf Paddock 5107-14, 18-20 & 28-40' w/2 bullets 1 ft. Frac all perfs w/20,000 gals ref oil & 30,000# sd in 4 stages. MP 5700, Min 5500, AIR 14 BPM. Tested 137 BCPD, no water, 256 MCF, GOR 1940. Before W.O. 7 BOPD, 1½ BW, 62 MCF, 8850 GOR.
- June-Aug. 1973: Deepened well w/6¼" bit to 7402'. R & C 5", 15# & 13#, N-80 & K-55 liner C.S. 7402', FC 7369, T.O.L. 4960'. Cmtd w/200 sx Cl C. Rev 88 sks off top of liner. Tested liner & csg to 700# OK. Perf G.M. 7278-96 w/l JSP2F (10 holes) w/3½" DML C.G. sptd 160 gal 15% NEHCL over perfs. Acdz w/2000 gal BDP 1800/ MP 2400, FP 2000, ISIP 1400. AIR 2.7 BPM. Swbd in. F 24 hrs 81 80 & 2 8W, 24/64 chk, TP 80. Frac perfs w/6000 gal OBUF w/6000# 20-40 sand. BDP 4500, AP 3800, ISIP 2400, 15 min 2000, AIR 5.2 BPM. Pot 24 hrs F 194 B0, 2 8W 16/64 chk, TP 320#, 189.5 MCF. Kill well w/water. Set BP @ 6960. Perf Drinkard 6833', 35, 41, 43, 45, 6925 & 27 w/l-11/16" tbg gun. Acdz w/1500 gal 15% FE HCL & 8 RCNB's. BDP 4500, Min 2300, ISIP 0, gd ball act: Swbd in FARO 3.3 iNCF on 13/64 chk, TP 1720#. Killed well w/S.W. Set Otis W.B. pkr @ 7254 on W.L. Ran dual equipment. Swabbed both zones in (UT) CAOF pot on Drinkard 5/26 MCFPD. (LT) 24 hrs F 100 B0, 1 BW 26/64 chk TP 40-190. Acdz (LT) w/5000 gal 5% NEHCL w/2 gal J-4A/1000 in 4 stgs w/4 RCNB's after first 3 stgs. MP 3000, MP 900, ISIP 1600, 10 min 600, AIR 3.6 BPM, gd ball act. Swbd in. Tested 24 hrs FTP 80-130#, 24/64 chk, 118 BOPD & 1 BWPD.
- Feb & March 1976: Kill well w/lease oil. Perf Granite Wash 7217, 18, 19, 23, 25, 33, 35, 37 w/3-1/8" CG. Acdz perfs w/2000 gal 15% NEHCL w/3 RCNBS after each 500 gal. BDP 2600, MP 2600, FP 2000, ISIP 1200. Swbd in. Flowed 20 BO overnite TP 250#. All water is 2% KCL w/l gal Moroflo/1000. Kill w/oil. Set RBP @ 6750'. Perf Drinkard 6613, 21 & 23 w/l-9/10" gun. BD perfs w/2 bbl water 3100# @ 2 BPM. Acdz w/750 gal w/3 RCNBs. BDP 3100, MP 3100, AP 2400, FP 2200, ISIP 1300#, AIR 1-3/4 BPM. Flowed and swbd well in. Flowed well 2 hrs. TP 1800-400. Kill w/KCL water Set BP @ 6550. Perf Drinkard 6446,48, 69 & 71 w/l-9/16 gun. BP perfs w/2 bbl water 2900# @ 2 BPM. Acdz perfs w/1000 gal 15% NEHCL w/4 RCNBS BDP 2900, MP 2900, AP 2000, FP 2200, ISIP VAC. AIR 1-3/4 BPM. Swbd in. Flowed 1½ hrs TP 1200-700. (Est 2.3 MMCFPD) Fluid hit, flow 3/4 hrs on 16/64 chk 3 BO, 3 BLW, TP 700-800#. Killed well. Set BP @ 6390'. Perf Drinkard 6291, 93, 95, 6307, 11, 13, 17, 19, 23 & 25. W/l-9/16 gun. Acdz w/2500 gal 15% NEHCL w/3 RCNB's after each 500 gal. BDP vac, MP 1150, FP vac. AIR 2 BPM. Swabbed well in. F 6 hrs rec 25 BO & 51 BLW TP 1000-600, 15 min SIP 1300#. Used 760 B.W. to control well while running tbg. Swbd both zones. Before W.O. UT f 7 BO, 1 BW + 330 MCF.

HISTORY (CONT'D)

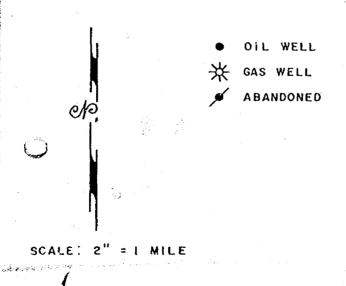
LT f 80 B0 & 5 BW.

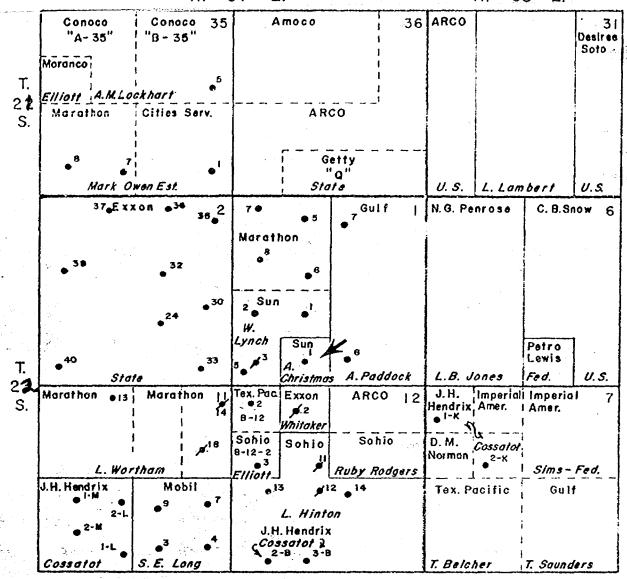
After: UT F 18 BO, 18 BLW, 337 MCF, 18,722 GOR, 32/64, 70# FTP (3/21/74) LT F 106 BO, 0 BW, 118 MCF, 1113 GOR, 20/64, 100# FTP

Ran rods & pump in LT @ 4921' POP 11½ x 76 x 1½ After: LT - 96 BO, O BW, 76 MCF, 792 GOR Before: LT. Dead. 5/76



DRINKARD FIELD SOUTHEAST LEA CO., NEW MEXICO



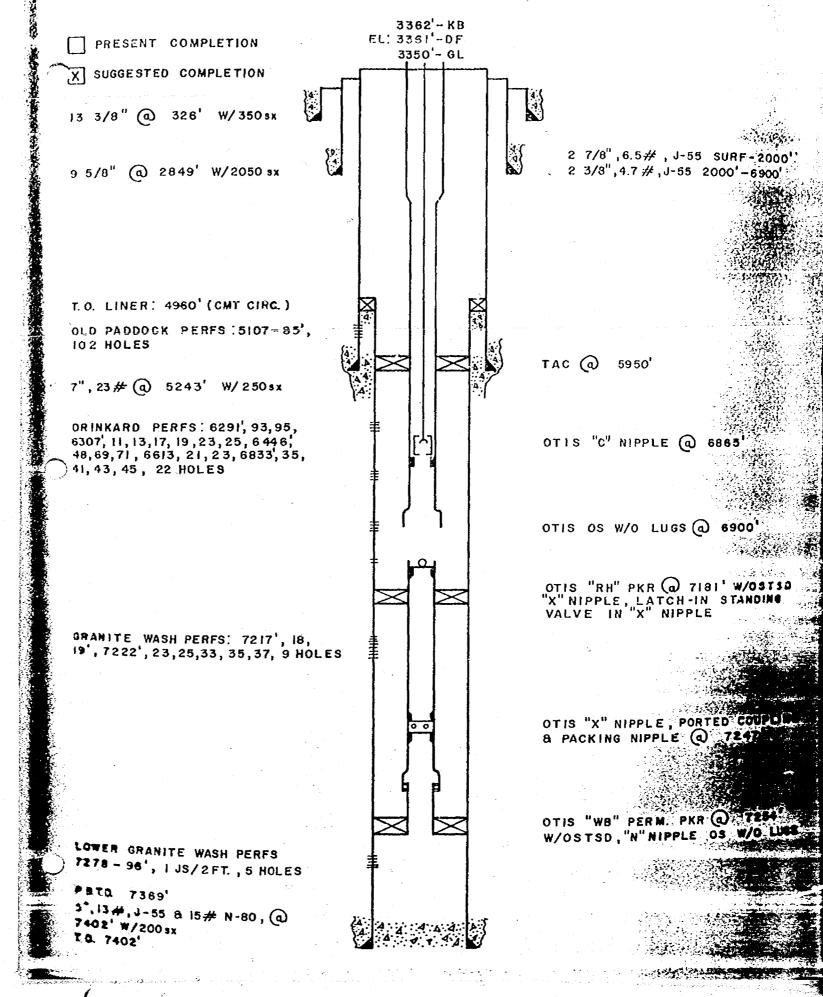


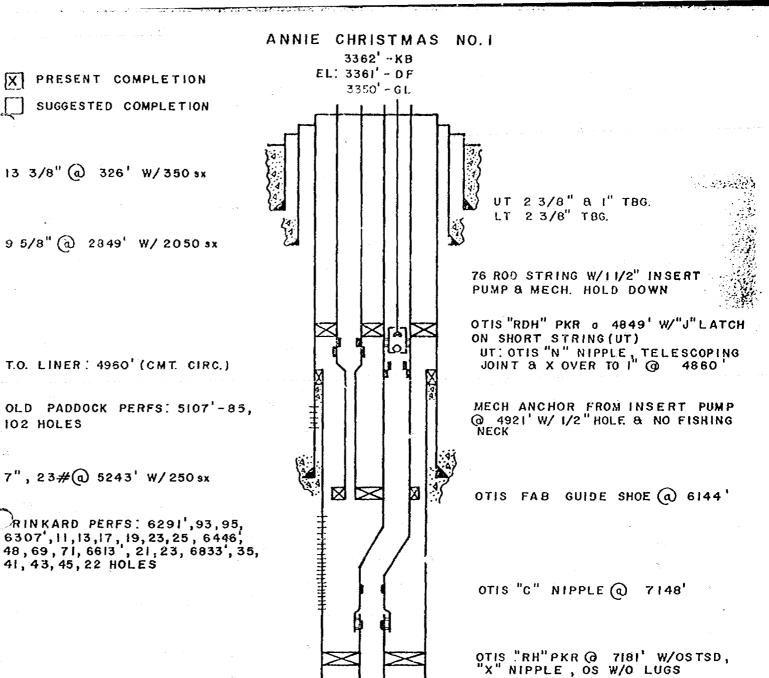
WANTZ GRANITE WASH FIELD SOUTHEAST LEA CO., NEW MEXICO

OIL WELL
GAS WELL
ABANDONED

SCALE; 2" = I MILE

ANNIE CHRISTMAS NO.1





GRANITE WASH PERFS: 7217', 18, 19, 7222', 23', 25, 33,35,37,9 HOLES

X PRESENT COMPLETION

13 3/8" (a) 326' W/350 sx

9 5/8" (a) 2349' W/ 2050 sx

T.O. LINER: 4960 (CMT. CIRC.)

7", 23#@ 5243' W/250 sx

RINKARD PERFS: 6291',93,95,

102 HOLES

OLD PADDOCK PERFS: 5107'-85,

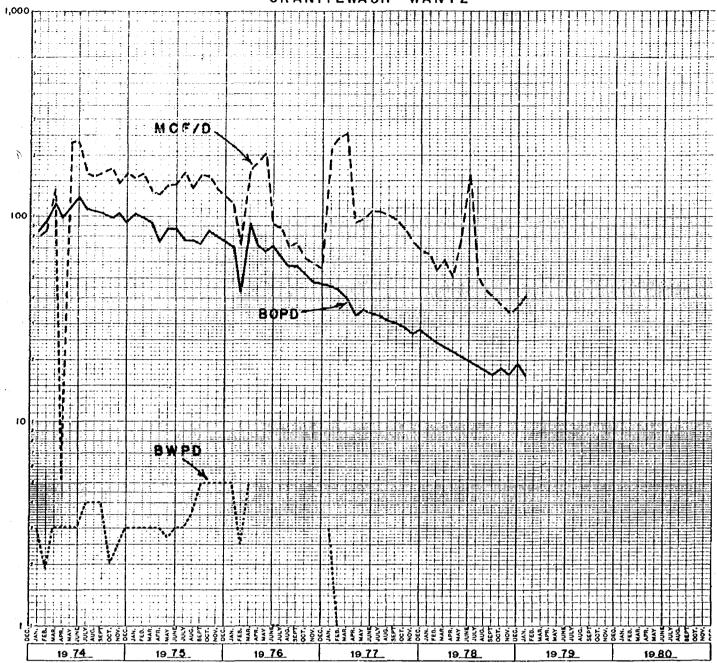
SUGGESTED COMPLETION

LOWER GRANITE WASH PERFS)278'-96, I JS/2FT. , 5 HOLES P. B. T. D. 7369 5", 13#, J-55 a 15#, N-80, @ 7402' W/200 sx T.D. 7402

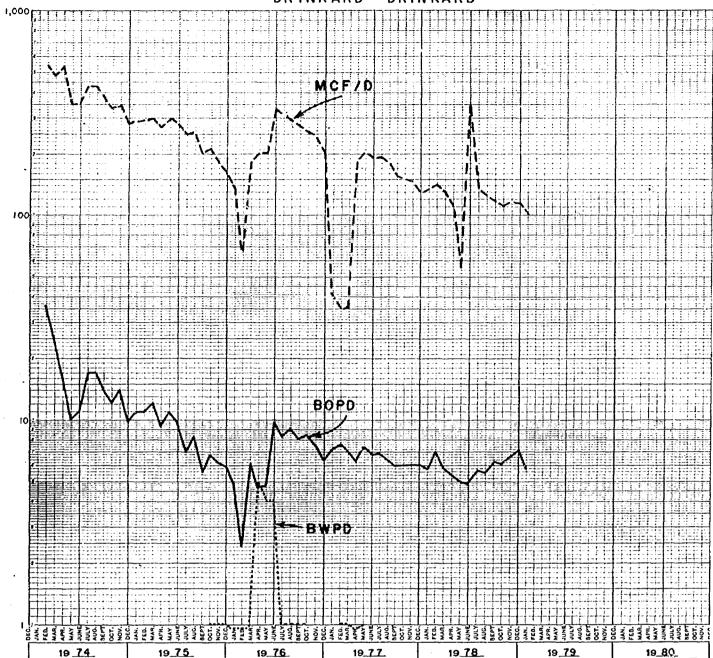
OTIS "X" NIPPLE, PORTED COUPLING 8 PACKING NIPPLE @ 7247

OTIS "WB" PERM PKR @ 7254"
W/OSTSD, "N" NIPPLE, OS W/O LUGS

ANNIE CHRISTMAS NO. IL GRANITEWASH - WANTZ



ANNIE CHRISTMAS NO. IU DRINKARD — DRINKARD



II A -> I (Non Development)						
VELL WORK COST ESTIMATE & PROCEDURE (Z) PWO	CIP8A	Cllowo	() rwo	[<u>]</u>]fcv	
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W. Lynein Si	#2L P	۴۱۶۲۵ Paddock/Drin		Lea	STATE 1117	
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Downhole comming			rinkara as iow	er tubing		
& dual w/Paddocl	k (Upper tubing	3.)	# P - O - O - O - O - O - O - O - O - O -	The second secon		
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		AND AND ADDRESS OF THE PERSON				
			g P			
BEFORE W/O	COIST. USE ON	irA)	· *			
WELL HAMS Lynch 2-1. WELL CLASSIFICATION TA	Lynch 2-L F					
RESERVOIR NAME Granite Was:	n Drinkard			S.		
PERFORATIONS (EL) 7094-7102	657€-6826					
PERFORATION (R/A)						
CURRENT CALENDAR ALLOWABLE, B/D						
CURRENT MAXIMUM 187 x 2000,	/1 142 x 6000	0/1				
PROD. TEST:						
PRODUCTION METHOD TA						
S CHOXE SIZE		2/64				
0!E/COND., B9L5.	3					
WATER, 99LS. & TO BOLS./MMCF.	2 4	10%				
GAS, MCF & GOR		,880				
INPUT GOR & GFR						
LAST PROD. INGEX & DATE						
G/L PRESS., MAX. & OPER.				4		
ESTIMATED INCOME PER DAY	1				. <u> </u>	
1. Otis rig up Tubri	icator on lower	tubing crow	in valve. SI i	well.		
2. Fish "N" plug in 0	OSTSD @ 6939'.	NOTE: Be p	prepared for			
immediate pressure	increase.	>				
3. Run latch in stand	ling valve & se	at in "N" ni	ipple 0 6939'.	РОН		
4. RD. Return to Pro	duction.				1.102.29	
					FILED 1	
10. T			6-101,1	13,111	71 1	
				1735	. 102/	
	<u> </u>			11.15 11.20 14.15 11.00 15.15		
		1	11	<u> </u>		
	——————————————————————————————————————					
WAG/HLB S. A. Gillett	OATE 12	<u>/11/7</u> 8	TO BE USED IF I	REGIONAL APPR	OVAL IS REQUIRED	
OLST, ENGR. APPROVAL THE	STORY ONTE IL	. 1 - ~	GEOLÓGICAL		DATE	
IIIV	12/	11:211:2		()		

HISTORY

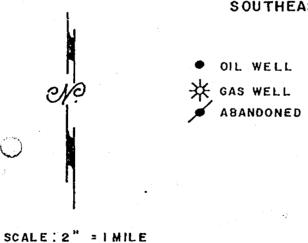
SPUD 8-45

- TD 5220' 10-45 Parf Paddock 5100-60 w/238 holes 4 SPF -Acid - 2500 gal. IP 789 BO, 0 BW, 603 MCF, 764 GOR
- 4-59 Acid - 10,000 gal. Before: 6 BO, 0 BW, 49 MCF, 8540 GOR After: 41 BO, 0 BW, 106 MCF, 2570 GOR
- Perf Paddock 5060-62, 73-75, 80-82, 92-96, 2 SPF Frac all $\psi/20.300$ GeV ref oil & 20,000# 10 - 64Sefere: 10 30°0 After: 81 80, 12 BW, 113 MCF, 1396 GOR
- Deepened NTD 7150' Set liner. Paddock perf behind pipe. Set Otis Perma Latch pkr 0 6939'. Perf G.W. 0 7094-7102, lJS/2Ft., 5 holes. B.D. w/3000 gal oil. FARO 325 MCFD. Set plug in pkr perf Drinkard, 6770, 87, 88, 90, 92, 6801, 16, 20, 24, 25, 26, 11 holes. 6-74 Acid - 1570 gal. Perf Drinkard 6576, 77, 91, 92, 6808, 09, 10, 81 Acid - 1500 gal. Set Otis Perma Latch @ 6403' w/plug Perf Paddock 5018, 25, 26, 29, 31, 46; 6 holes Acid - 1500 gal. Dualed Drinkard & Paddock Drinkard IP 18 BO, 3 BW, 994 MCF, 55,222 GOR 750# FPT on 18/64
 Paddock IP: 23 BO, 7 BW, 345 MCF; 15,000 GOR on pump
 Before: Paddock - 10 BOPD.

WANTZ GRANITE WASH FIELD SOUTHEAST LEA CO., NEW MEXICO

T. Beigher

T. Saunders



Cossatot

S. E. Long

STATE OF THE STATE

DRINKARD FIELD SOUTHEAST LEA CO., NEW MEXICO

L. Hinton

J.H. Hendrix Cossatot

Zachary

Mabee Roy.

T. Belcher

T. Saunders

OIL WELL GAS WELL ABANDONED OP

*Long

3,345

S.E. Long

SCALE: 2" = 1 MILE

EL:3364' DFA KB 3354' GL

PRESENT COMPLETION

X SUGGESTED COMPLETION

17" HOLE

13 3/8",40#@ 338' W/ 350sx 12" HOLE

9 5/8", 38#@ 2854' W/2100 sx

TOP OF 5" LINER @ 4896'

PADDOCK PERFS: 6 HOLES 5018',25,26,29,31,46 (OLD PADDOCK PERFS: 5060'-62, 73-75,80-82,92-96,2 SPF 5100'-60, 4 SPF, 238 HOLES)

7", 23#, J-55,@ 5217' W/350sx

DRINKARD PERFS: 19 HOLES 6576',77,91,92,6608',09,10,81, 6770',87,88,90,92,6801',16,20, 24,25,26

GRANITE WASH PERFS: 5 HOLES 7094', 96,98,7100',02

PB.T.D. 7110' 5",15#, K-55,FJ@ 7149' W/200sx T.D. 7150' LT: 23/8",4.7#,J-55 W/PARALLEL TAC & SEAL DIVIDER OVER SHOT

UT: 23/8",4.7#,J-55 W/TURNED DOWN COLLARS SN - 4825' PN - 4826' MA - 4830' BLANKING DISC. IN COLLAR @

OTIS PARALLEL TBG. ANCHOR @ 4869'

OTIS PERMA-LACH PKR @ 6478' W/TBG. SEAL DIVIDER & "X" PROFILE NIPPLE (1.791 ID)

OTIS PERMA-LACH PKR @ 6939' W/S.V. IN SEAL DIVIDERS ("N" PROFILE)

EL:3364 DF 8 K8

X PRESENT COMPLETION

SUGGESTED COMPLETION

17" HOLE

13 3/8", 40 # @ 338' W/ 350 sx 12" HOLE

9 5/8", 38# @ 2854' W/ 2100 sx

TOP OF 5" LINER @ 4896'

PADDOCK PERFS: 6 HOLES 5018',25,26,29,31,46 (OLD PADDOCK PERFS: 5060'-62, 73-75,80-82,92-96,2SPF 5100'-60,4SPF,238 HOLES)

7", 23#, J-55, @ 5217' W/350sx

DRINKARD PERFS: 19 HOLES 6576',77,91,92,6608',09,10,81, 6770',87,88,90,92,6801',16,20, 24,25,26

GRANITE WASH PERFS: 5 HOLES. 7094', 96,98,7100',02

RB.T.D. 7110' 5",15#, K-55,FJ@ 7149',W/200*x T.D. 7150' 3354 96

LT: 2 3/8", 4.7 #, J-55 W/PARALLEL TAC & SEAL DIVIDER OVER SHOT

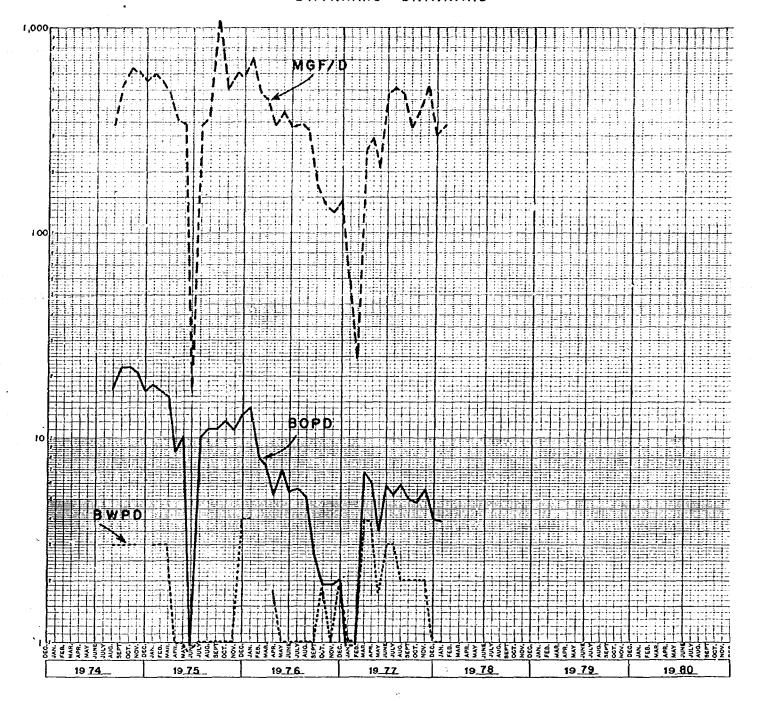
UT: 23/8",4.7#,J-55 W/TURNED DOWN COLLARS SN - 4825' PN - 4826' MA - 4830' BLANKING DISC IN COLLAR @ 4850'

OTIS PARALLEL T8G. ANCHOR @ 4869

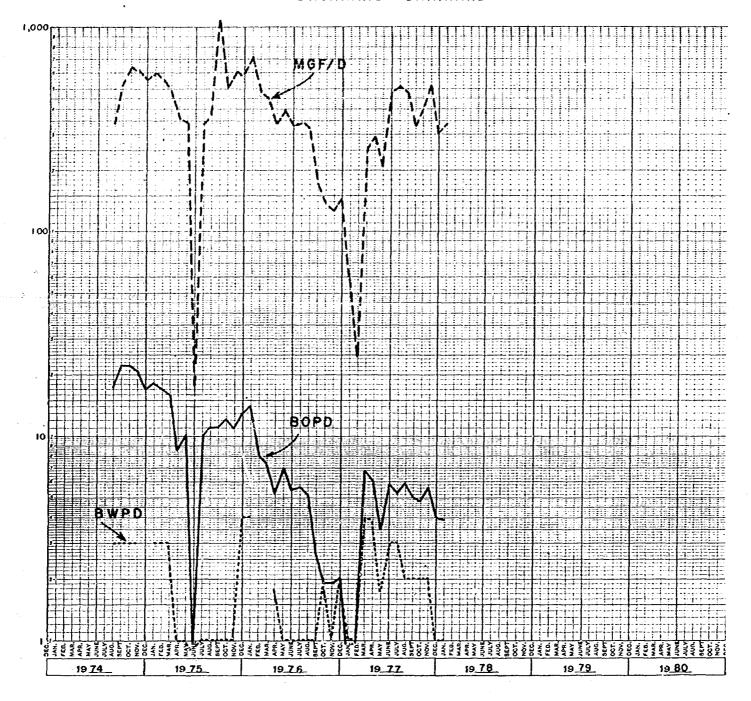
OTIS PERMA-LACH PKR @ 6478' W/TBG, SEAL DIVIDER & "X" PROFILE NIPPLE (1.791 10)

OTIS PERMA-LACH PKR @ 6939' W/PLUS IN SEAL DIVIDERS ("N" PROFILE)

WALTER LYNCH NO. 2L DRINKARD - DRINKARD



WALTER LYNCH NO. 2L DRINKARD - DRINKARD



MONTHLY RATES DRINKARD

	BOPM OIL	MCFPM GAS	BWPM WATER	BHP PSIG DATE
Amoco Production Co. 9F 3621S37E State C Tr. 13	24	78	31	
Atlantic Richfield 1M 3621S37E State 367 2L 3621S37E State 367	79 79	4788 4788	. 9 9	
Cities Service Co. 1P 3521537E Owen 20 3521537E Owen 3J 3521537E Owen 7I 3521537E Owen	ABAND ABAND ABAND TA	ONED		•
Continental Oil Co. 1D 3521S37E Lockhart A 35 2F 3521S37E Lockhart A 35 3C 3521S37E Lockhart A 35(GW)	62 ABAND	2156	31	·
1G 3521S37E Lockhart B 35 2B 3521S37E Lockhart B 35 3H 3521S37E Lockhart B 35 4A 3521S37E Lockhart B 35	ABAND ABAND 116 116		309 0	
Exxon Corp. 12A 222S37E New Mexico S(GW) 13B 222S37E New Mexico S(GW) 14C 222S37E New Mexico S(GW) 16D 222S37E New Mexico S(GW) 20E 222S37E New Mexico S(GW)	206 126 95 0 103	27168 22893 17519 8431 26214	0 0 0 0	
21L 222S37E New Mexico S(GW) 22M 222S37E New Mexico S(GW) 24J 222S37E New Mexico S(GW) 25N 222S37E New Mexico S(GW) 27K 222S37E New Mexico S(GW)	52 0 31 0	15415 15538 19838 4431	0 0 0 0	
28F 222S37E New Mexico S(GW) 29L 222S37E New Mexico S(GW) 30I 222S37E New Mexico S(GW) 31H 222S37E New Mexico S(GW) 32G 222S37E New Mexico S(GW) 33P 222S37E New Mexico S(GW)	0 0 0 SI 26 103	21158 7323 11138 2-77 6861 19815	0 0 0 0	
340 222S37E New Mexico S(GW) 2C 1222S37E Whitaker Perkins Gulf Corp. 10 722S38E H. P. Sanders	0 135	27100 616	0	
2J 722S38E H. P. Sanders	749	567	20	

DRINKARO

•	BOPM OIL	MOTEM GAS	BWP! WATER	BHP PSIG DATE
en e				
John H. Hendrix Corp. 16 1222S37E Cossatot 18 1222S37E Cossatot A 2A 1222S37E Cossatot A 10 1222S37E Cossatot B 2M 1222S37E Cossatot B 3N 1222S37E Cossatot B 2J 1122S37E Cossatot B 2J 1122S37E Thomas Long (GW) 1N 1122S37E Thomas Long (GW) 3K 1122S37E Thomas Long (GW) 4L 1122S37E Thomas Long (GW)	821 300 282 308 257 231 96 7 9	26409 2569 2568 6754 6755 28775 11530 11530 11530 11529	31 0 31 0 31 31 31 0 0	
Penrose-Zachary Oper. Co. Imperial American Mcmt. Co. 2K 622533E L. B. Jones 1C 722538E McAllister 1B 722538E Sims Federal	P&A 90 TA	176	155	
Mabee Petroleum Corp. 1M 722S38E Belcher	60	2866	10	
Marathon Oil Co. 1L 3521S37E Mark Owens (GW) 2M 3521S37E Mark Owens (GW) 3N 3521S37E Mark Owens (GW) 4K 3521S37E Mark Owens (GW) 9E 1122S37E Lou Wortham 10D 1122S37E Lou Wortham (GW) 11F 1122S37E Lou Wortham (GW) 12H 1122S37E Lou Wortham (GW) 13C 1122S37E Lou Wortham (GW) 15G 1122S37E Lou Wortham (GW) 17E 1122S37E Lou Wortham (GW)	15 14 28 ABANDON 14 14 ABANDON 27 27	30141 5689	0 0 0 0 0	924 11-77 987 11-77
Mobil Oil Corp. 30 1122S37E S. E. Long (GW) 50 1122S37E S. E. Long (GW) 6P 1122S37E S. E. Long (GW) 7I 1122S37E S. E. Long (GW)	44 ABANDON 41 89	7325 ED 12365 24708	41 41 41	529 11-77 968 11-77
Moranco 1E 3521S37E E. M. Elliott (GW)	30	5992	3	
Pan American Corp. 5E 3621S37E State C Tr. 13 8D 3621S37E State C Tr. 13	ABANDON ABANDON			.*
Penrose-Zachary Oper. Co. 9I 1222S37E Hinton 1M 622S38E Jones	468 155	5670 0	186 15	994 12-77

DRINKARD

	BOPM OIL	MCEPH GAS	BWAM WATER	BHP PSIG DAT	E
The second secon					
Sohio Petroleum Co.					
3E 1222S37E Elliott B-12-2	88	2754	36		
11F 1222S37E Hinton	126	6306	12		
12K 1222S37E Hinton	148	12521	36		
13L 1222S37E Hinton	6 8	1802	0		
14J 1222S37E Hinton	272	2939	90		
2H 1222S37E Rodgers	160	1698	14		
Sun Oil Company					
1N 122S37E Annie Christmas	224	3554	0	1109	11-74
1K 122S37E Walter Lynch	274	10867	124		
2L 122S37E Walter Lynch	118	8832	0	1426	11-76
3M 122S37E Walter Lynch	396	11869	155		
Texas Pacific Oil Co. Inc.					
1L 722S372 Belcher	120	1712	62		
2D 1222S37E Elliott 8-12 (GW)	0	14738	0		
Tidewates Oil Co.	•				
1N 3621S37E State 0	ABANDON	IED			

WANTZ - GRANITE WASH

	BOPM OIL	MCFPM GAS	BWPM WATER	BHP PSIG DA	\TE
Cities Service Co. 1P 3521S37E Owen	1453	6074	. 0		
Continental Oil Co. 5H 3521S37E Lockhart B-35	193	525	0 -		
Exxon Corp. 2C 1222S37E Whitaker & Perkins	ABANDONED		•	`	
Gulf Cil Corp. 60 122537E Alice Paddock 7B 122537E Alice Paddock	ABANDONED 100	466	120		
John Hendrix Corp. 1N 1122537E Cossatot L 2K 1122537E Cossatot L 2M 1222537E Cossatot B	460 564 181	5071 5071	31 31	917	5-77
3N 1222S37E Cossatot B 1D 722S37E Cossatot K 2F 722S37E Cossatot K	128 384 424	2376 2375 1494 1494	31 31 31 31	936	5-77
1L 1122S37E Cossatot M 2M 1122S37E Cossatot M	329 354	2705 2705	31 31	1287	5-77
Marathon Oil Co. 5C 122S37E Walter Lynch 6F 122S37E Walter Lynch 7D 122S37E Walter Lynch 8E 122S37E Walter Lynch 7N 352IS37E Mark Owen 8M 352IS37E Mark Owen 13C 1122S37E Lou Wortham 14A 1122S37E Lou Wortham 18H 1122S37E Lou Wortham	324 429 386 295 755 123 ABANDONED ABANDONED	5239 6158 5650 370 1150 4821	0 43 0 0 0	1822	5-77
Mobil Oil Corp. 3D 1122S37E S. E. Long 4P 1122S37E S. E. Long 7I 1122S37E S. E. Long 9J 1122S37E S. E. Long	1167 416 682 ABANDONED	2998 591 11650	37 82 26		
Sohio Petroleum Co. 3E 1222S37E Elliott B-12-2 11F 1222S37E Hinton	679 ABANDONED	3222	66	1369	5-77
12K 1222S37E Hinton 13L 1222S37E Hinton 14J 1222S37E Hinton	ABANDONED 716 621	7438 2362	190 50	1059 1886 1206	5-77 5-76 5-77

	BOPM OIL	MCFPM GAS	BWPM WATER	BHP PSIG DATE
Sun Oil Co. 1N 1222537E Annie Ch 1K 1222537E Walter L 3M 1222537E Walter L 5M 1222537E Walter L	ynch 1461 ynch ABANDO	1103 8770 NED 5029	0 0	
Texas Pacific Oil Co. 2D 1222S37E Elliott		9684	0	
Exxon Corp. 24J 222S37E New Mexit 30I 222S37E New Mexit 32G 222S37E New Mexit 33P 222S37E New Mexit 35A 222S37E New Mexit 36B 222S37E New Mexit 37C 222S37E New Mexit 38E 222S37E New Mexit 40M 222S37E New Mexit	co 26 co 309 co 463 co 618 co 258 co 489 co 618	96 286 1384 66 208 133 803 147	0 52 0 14 26 128 155	

STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT OIL CONSERVATION DIVISION

JERRY APODACA

NICK FRANKLIN SECRETARY

Other

May 16, 1979

POST OFFICE BOX 2088 STATE LAND OFFICE BUILDING SANTA FE, NEW MEXICO 87501 (505) 827-2434

nay	10,	1373
Mr. Thomas Kellahin Kellahin & Kellahin Attorneys at Law Post Office Box 1769 Santa Fe, New Mexico	Re:	CASE NO. 6542 ORDER NO. R-6008 Applicant:
		Sun Oil Company
Dear Sir:		
Enclosed herewith are to Division order recently	wo co	opies of the above-referenced ered in the subject case.
Yours very truly, MI Canny JOE D. RAMEY Director		
6		
JDR/fd		•
Copy of order also sent	to:	
Hobbs OCC X Artesia OCC X		

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. 6542 Order No. R-6008

APPLICATION OF SUN OIL COMPANY FOR SPECIAL CASINGHEAD GAS ALLOWABLES, LFA COUNTY, NEW MEXICO.

ORDER OF THE DIVISION

BY THE DIVISION:

This cause came on for hearing at 9 a.m. on May 9, 1979, at Santa Fe, New Mexico, before Examiner Daniel S. Nutter.

NOW, on this 15th day of May, 1979, the Division Director, having considered the testimony, the record, and the recommendations of the Examiner, and being fully advised in the premises,

INDS:

- (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, Sun Oil Company, seeks an exception to Rule 303-C-4 to increase the casinghead gas allowable for its Annie Christmas Well No. 1 and its Walter Lynch Well No. 2, located in Units N and L, respectively, of Section 1, Township 22 South, Range 37 East, Drinkard and Wantz-Granite Wash Pool, Lea County, New Mexico.
- (3) That the applicant proposes to commingle production from the Drinkard zone and the Granite Wash zone in each of said wells pursuant to administrative approval issued under the provisions of Rule 303 C of the Division Rules and Regulations.
- (4) That said Rule 303 C provides that production from a well so commingled shall be subject to the lower of the daily gas-oil ratio limitations applicable to the reservoirs.

-2-Case No. 6542 Order No. R-6008

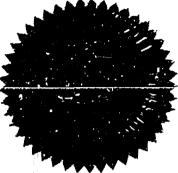
- (5) That the daily casinghead allowables for said Drinkard and Granite Wash zones are 852 MCF and 374 MCF, respectively.
- (6) That the applicant proposes a casinghead allowable per day for the aforesaid Warren Lynch Well No. 2 of 900 MCF and 500 MCF per day for the aforesaid Annie Christmas Well No. 1.
- (7) That 500 MCF per day is a reasonable casinghead gas allowable for said Annie Christmas Well No. 1 and should be permitted, but 900 MCF per day, as requested for said Warren Lynch Well No. 1, is excessive and should not be permitted.
- (8) That 852 MCF per day is a reasonable casinghead gas allowable for said Warren Lynch Well No. 2, and should be permitted.
- (9) That the assignment of such special casinghead gas allowables will better permit the applicant to recover its share of the oil and gas production in each of said zones in the subject wells, will not cause waste, and will not violate correlative rights.
 - (10) That the application should be approved.

IT IS THEREFORE ORDERED: ,

- (1) That Sun Oil Company is hereby granted a special casinghead gas allowable of 500 MCF per day for its Annie Christmas Well No. 1 and 852 MCF per day for its Walter Lynch Well No. 2, located in Units N and L, respectively, of Section 1, Township 22 South, Range 37 East, Drinkard and Wantz-Granite Wash Pools, Lea County, New Mexico.
- (2) That any provisions of the Division's Order No. DHC-272 dated February 9, 1979, approving downhole commingling for applicant's Warren Lynch Well No. 2, and in any future order of the Division approving downhole commingling for applicant's Annie Christmas Well No. 1, not in conflict herewith are hereby continued in full force and effect.
- (3) That jurisdiction of this cause is retained for the entry of such further orders as the Division may deem necessary.

-3-Case No. 6542 Order No. R-6008

DONE at Santa Fe, New Mexico, on the day and year herein-above designated.



SEAL

STATE OF NEW MEXICO
OLL CONSERVATION DIVISION

DOE D. RAMEY, Director

CASE

6542

STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT OIL CONSERVATION DIVISION State Land Office Building Santa Fe, New Mexico 9 May 1979

EXAMINER HEARING IN THE MATTER OF: Application of Sun Oil Company for special casinghead gas allowables, Lea County, New Mexico. BEFORE: Daniel S. Nutter TRANSCRIPT OF HEARING APPEARANCES For the Oil Conservation Ernest L. Padilla, Esq. Legal Counsel for the Division Division: State Land Office Building Santa Fe, New Mexico 87503 For the Applicant: W. Thomas Kellahin, Esq. KELLAHIN & KELLAHIN 500 Don Gaspar Santa Fe, New Mexico 87501

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STEPHEN GILLETT

Direct Examination by Mr. Kellahin Cross Examination by Mr. Nutter 13

EXHIBITS

16

17

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19

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Applicant Exhibit One, Document Applicant Exhibit Two, Workover Procedure Applicant Exhibit Three, Workover Procedure Applicant Exhibit Fcur, History Applicant Exhibit Five, Plat Applicant Exhibit Six, Plat Applicant Exhibit Seven, Sketch Applicant Exhibit Eight, Sketch Applicant Exhibit Nine, Production Curve 9 Applicant Exhibit Ten, Production Curve Applicant Exhibit Eleven, Workover 10 10 Applicant Exhibit Twelve, History 10 Applicant Exhibit Thirteen, Plat 10 Applicant Exhibit Fourteen, Plat 11 Applicant Exhibit Fifteen, Sketch 13. Applicant Exhibit Sixteen, Sketch

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STEPHEN GLLETT

Direct Examination by Mr. Kellahin

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Cross Examination by Mr. Nutter

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EXHIBETS

CERTIFIED SHORTHAND REPORTE
3020Flaza Blanca (605) 471-24(
Santa Fe, New Mexico 3760)

Applicant Exhibit One, Document Applicant Exhibit Two, Workover Procedure Applicant Exhibit Three, Workover Procedure Applicant Exhibit Four, History Applicant Exhibit Five, Plat Applicant Exhibit Six, Plat Applicant Exhibit Seven, Sketch Applicant Exhibit Eight, Sketch Applicant Exhibit Nine, Production Curve Applicant Exhibit Ten, Production Curve 10 Applicant Exhibit Eleven, Workover 10 Applicant Exhibit Twelve, History 10 Applicant Exhibit Thirteen, Plat 10 Applicant Exhibit Fourteen, Plat 11 Applicant Exhibit Fifteen, Sketch 11 Applicant Exhibit Sixteen, Sketch

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MR. NUTTER: Call Case 6542.

MR. PADILLA: Application of Sun Oil Company for special casinghead gas allowables, Lea County,
New Mexico.

MR. KELLAHIN: I'm Tom Kellahin of Santa Fe, New Mexico, appearing on behalf of the applicant, and I have one witness, Mr. Examiner, who's already under oath and has been previously qualified in the previous case.

I would ask the Examiner that Mr. Gillett be accepted as an expert in this case, and that the record also reflect that he's still under oath.

MR. NUTTER: Mr. Gillett is qualified and under oath.

MR. KELLAHIN: If the Examiner please,

I'd like to point out that in the previous case there was
an error in the advertisement with regards to the application. In the application we asked that the unorthodox
location be approved and the acreage be simultaneously
dedicated to the two wells.

The advertisement failed to contain a reference to the simultaneous dedication.

MR. NUTTER: That was deliberately done, Mr. Kellahin, because oil wells are not considered simultaneous dedication requiring hearing.

MR. KELLAHIN: Thank you.

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STEPHEN GILLETT

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

DIRECT EXAMINATION

BY MR. KELLAHIN:

Mr. Gillett, would you please refer to what has been marked as Exhibit Number One and summarize what Sun Oil is seeking to accomplish in this case.

Yes, sir. What Sun Oil is seeking to A. accomplish is to downhole co-mingle two reservoirs, the Drindard and the Granite Wash, and to produce them up one string -- to the standard rules by the Commission are to assign an allowable of the Granite Wash in this particular case, to that commingle production. That restricts the gas allowable as seen in Exhibit Number One. In Exhibit Number One the top gas allowable for the Drinakard is 852 MCF per day, and for the Granite Wash is 374. Now, were these zones produced up separate strings of tubing a producer would be allowed to produce 1,200 and some odd MCF per day, but because of the commingling we are restricted to 370. What we are asking is to have that restriction amended upwards so we can properly produce

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SALLY WALTON BOY
CERTIFIED SHORTHAND REPOR
3020 Plaza Blanca (505) 471-2
Santa Fe, New Moxico 875

this well, these two wells. In Exhibit Number One we show the estimated current production on the Lynch No. 2 as 3 barrells a day and 290 MCF a day, and the Granite Wash as 3 and 250. That would be after commingling, which would be a total of 6 barrells of oil and 540 MCF a day. Now, we further -- once we get this commingled and get it producing we estimate that we will have to rod pump that well within the near future. When we do that we will expect a fifty percent increase in fluid, in all fluid, including gas. So we estimate that we will require the ability to produce 810 MCF per day, so we are asking for 900 MCF per day allowable, which is still less than 75 percent of the allowable that we could get were these zones produced separately.

At the bottom half of that page is the same information for Annie Christmas No. 1. The current estimated production after commingling of the two zones the sum of those two which is 286 MCF in the case of the gas, which is below that 374. The Granite Wash and the Christmas is currently rod pumped and the Drinkard is not and when we get these commingled we expect the Drinkard will, gas production will double the reduced head on the formation. This will require -- give us an expected production of 412 MCF a day so we are asking for 500, which is less than half of what we could get or what we

SALLY WALION BOYE ERTIFIED SHORTHAND REPORTE 110Plaza Blanca (505) 471-241 Santa Fe, New Mexico 87501 9

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have ability to produce now as a dual well.

Q. Would you refer to Exhibit Number Two and identify it.

workover form indicating briefly what we want to do telling the current production and allowable information on the two formations. It shows that the well the Granite Wash is rod pumped, making 22 oil, no water, and 160 MCF for a GOR of 72/73. It also shows the perforations. The Drinkard is flowing and their perforations that it is flowing are 50 pounds against 3264 choke making 5 oil and 126 MCF.

- Q. Exhibit Number Three.
- A. Exhibit Number Three is our proposed workover procedure on the Annie Christmas Number 1. Do you want me to go into any detail on that?
- Q. No, sir, it is pretty clear. Exhibit Number Four.
- A. Exhibit Number Four is the history of the Annie Christmas No. 1. That is two pages, Mr. Nutter.
 - Q. Go to Five. What is Exhibit Number Five?
- A. Five is a plat of our lease and the eight sections surrounding that lease forging out the Annie Christmas and it has spotted all Drinkard wells that we have based on the 1973 Annual Report of the

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Commission.

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sequent plats showing the Drinkard and Granite Wash not only for the Lynch well but the Christmas Tree?

Your packet of exhibit contains sub-

A. Yes.

Q. What is Exhibit Number Six?

A. Exhibit Number Six is the exe plat except the Granite Wash producers are spotted.

Q. Let's go to Exhibit Number Seven. Would you identify that.

A. Exhibit Number Seven is a downhole sketch of the Annie Christmas No. 1 the way we would like to produce it as a commingled wellbore. If you will note we have a latch-in standing valve set in the overshot seal divider at 7181. The Granite Wash is a very water sensitive zone and the Drinkard makes little or no water but it makes slight amount and we fell that for safety's sake that we should have that to keep the Drinkard's produced fluids from coming down into the Granite Wash and damaging it.

Q. Would you refer to Exhibit Number Eight.

A. Exhibit Number Eight a wellbore sketch of the way the Annie Christmas is currently being produced as a dual well.

Q. Would you refer to Exhibit Number Nine

and identify that please.

A. Exhibit Number Nine is a production curve of the oil, gas, and water production from the Granite Wash formation out of the Annie Christmas No. 1.

- Q. Okay, and Exhibit Number Ten.
- A. Exhibit Number Ten is the same curve for the Drinkard formation on that well.
- Q. In your opinion, Mr. Gillett, can the Annie Christmas Tree No. 1 Well be more effectively and efficiently produced as a downhole commingled well?
 - A. Yes, sir, it can.
- Q. Can that be accomplished without damage to either the Drinkard or the Granite Wash formation?
 - A. Yes, it can.
- Q. In your opinion, will the downhole commingling of the Annie Christmas No. 1 Well produce additional hydrocarbons that might not otherwise be produced?
 - A. Yes, it will.
- Q. Will approval of this application with regards to the Annie Christmas No. 1 Well -- can this be accomplished without causing over production of the casing head gas for either the Drinkard or the Granite Wash?
 - A. Yes, it can.

	Q.	Would	you	refer	now	to	Exhibit	Number
Eleven	and ide	entify it.						

Exhibit Number Eleven is the same Α. basic information that we gave you on the Exhibit Number Two except this for the Walter Lynch No. 2 well. This is showing the same information and production rates, so and so-forth. It also has the procedure for this well work. You will note that the Granite Wash is not currently producing on this lease. It has been tested but it is now shut off.

- Would you refer to Exhibit Number Twelve.
- Exhibit Number Twelve is history of A. the Walter Lynch No. 2 from spud date to present.
- Would you refer to Exhibit Number Q. Thirteen.
- A. Exhibit Number Thirteen is the same plat that we had for the Annie Christmas Granite Wash except it has an arrow pointing to the Lynch well.
 - All right, and Exhibit Number Fourteen. Q.
- It is the same thing for the Drinkard wells.
- Q. Would you refer to Exhibits Number Fifteen and Sixteen and compare the schematics between the way the wells currently completed and the suggested

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recompletion.

A. All right. Exhibit Number Fifteen is the proposed downhole set-up. Exhibit Number Sixteen is the way it is now. The only difference between those two is that presently we have a DR plug in the packer at 6939 and we want to pull that out and replace it with brach in standing valves for the same reasons as I explained earlier on the Christmas well.

- Q. Okay. Would you refer to Exhibit Number Seventeen and identify it.
- A. Exhibit Number Seventeen is a production history curve for the Drinkard formation of Walter Lynch No. 2 showing a gas, oil and water production.
- Q. Would you refer to Exhibit Number Eighteen and explain what it is.
- A. Exhibit Number Eighteen is a 3-page tabulation of oil, gas, and water production rates and available bottom hole pressure data for all wells on plats previously entered on previous exhibits. These come out of the 1978 Annual Report of the State of New Mexico.
- Q. Are either of the Granite Wash or Drinkard zones in either of the two wells subject to drainage by any offsetting wells in either horizon?
 - A. Yes, sir, they are.

SALLY WALTON BOY
CERTIFIED SHORTHAND REPORT
3020Plaza Blanca (505) 411-34
Santa Fe, New Mexico 3750

Q. Would you explain to me what drainage you are subject to and with what particular wells.

A. Let me refer back to Exhibit Thirteen.

You notice in Exhibit Thirteen our Lynch No. 2 is also

Marathon's No. 8. Lynch Well and Exxon's S. State No. 30.

These wells are producing from the Granite Wash and, in

fact, produce the S. State produces 26 barrells of oil

and 96 MCF of gas per month. The Marathon No. 8 produces

386 barrells of oil and 5 million 650 thousand cubic feet

of gas a month. These are tabulated in Exhibits

Eighteen and Nineteen and they are draining our No. 2

location.

Q. If this application were approved, Mr. Gillett, it would afford Sun Oil Company an opportunity to offset the drainage it is currently experiencing from offsetting wells?

A. Yes, sir, it will.

Q. Has the Commission ever approved a similar application as this for the Drinkard and Wantz-Abo formation?

A. Yes, sir, it has in Case No. 6318 requested by Coquina Oil Company. It was approved by Order No. R-5845. That well is located 3-1/2 miles south and 1/2 mile east of our wells.

Q. I show the examiner what we have marked

as Sun Oil Exhibit Number Twenty, which is a true and correct copy of the Commission Order for the Coquina case and we move that that be introduced into the record of this case. Now, tell me again, Mr. Gillett, where the Coquina well is in relation to the Sun well.

- A. That well is 3-1/2 miles south 1/2 mile east.
- Q. Were Exhibits One through Nineteen prepared by you or compiled under your direct supervision?
 - A. Yes, sir, they were.
- Q. And in your opinion, Mr. Gillett, will approval of this application be in the best interest of conservation and the prevention of waste and the protection correlative rights?
 - A. Yes, sir, it will.

MR. KELLAHIN: Mr. Examiner, I move for the introduction of Exhibits One through Twenty.

MR. NUTTER: Sun's Exhibits One through Twenty will be admitted in evidence.

CROSS EXAMINATION

BY MR. NUTTER:

Q. Mr. Gillett, has Sun already secured approval for the downhole commingling of the two zones in each of these two wells?

Yes and no. The Lynch well has been

2	approved by DHC -	
3	Q.	The Lynch by DHC
4	Α.	272.
5	Q.	When was that issued?
6	A. **	It was dated February 9, 1979.
7	Q.	And you haven't applied for the Christmas
8	yet?	
9	Α.	Yes, sir, that has been applied for and
10	we checked with M	r. Ulvog and it is waiting administrative
11	approval after the	e 22-day has elapsed.
12	Q.	Okay. The application there is pending?
13	A.	Yes, sir. That was filed about two
14	weeks ago.	
15	Q.	Now, as I understand the reservoirs
16	under each of the	se two wells, the Drinkard allowable is
17	852 MCF per day?	
18	Α.	That is correct.
19	Q.	And the Granite allowable is 374 MCF
20	per day?	
21	Α.	Correct.
22	Q.	And the rule on downhole commingling
23	provides that the	casing head allowable, the smaller
24	casing head allow	able for the two shall prevail in the
- 11		

case of downhole commingling.

A. Yes.

Q. So the casing head allowable for each of these if it were commingled in the wellbore would be 374 MCF per day, which is the lower casing it allows for the wells?

A. Yes, sir.

Q. But you feel that production will increase with the downhole commingling and that the amount of gas that could be produced from the -- that the production for the two zones would probably be within the limit as far as the Drinkard is concerned, but that it would not insofar as the Granite Wash is concerned, is that it?

A. No, sir. Each reservoir we expect to produce less than the top allowable for the reservoir.

In other words, the Drinkard will produce less than 852, the Granite Wash will produce less than 374.

Q. These production figures here are for the Lynch No. 2, the 290 and the 250 are the amounts of gas you expect to produce under the commingling situation?

A. Yes, sir, as flowing wells. The --

Q. How much do you expect to produce when they are pumped from each of those zones?

A. We estimate a 50 percent increase in gas when they are pumped.

Q. From each of the two zones?

So the figure then from the Drinkard

3	would be 290 plus 50 percent of 290?
4	A. That is correct.
5	Q. And the Granite Wash 250 plus 50 percent
6	of 250.
7	A. Yes, sir, which is 375.
8	Q. And it says here required casing head
9	gas allowable 810, 1 think you mentioned 900.
10	A. Well, what I did there is I took the
11	540 times 1.5 and that comes to 810, and so I asked for
12	900 to give me a little pad. It is still well below the
13	1254.
14	MR. NUTTER: Are there any further
15	questions of Mr. Gillett. He may be excused.
16	Do you have anything further, Mr.
17	Kellahin?
18	MR. KELLAHIN: Not in this case.
19	MR. NUTTER: Does anyone have anything
20	they wish to offer in Case No. 6542? We will take the
21	case under advisement.
22	(Hearing concluded.)
23	
24	

From each.

Q.

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REPORTER'S CERTIFICATE

I, SALLY WALTON BOYD, a Court Reporter, DO HEREBY CERTIFY that the foregoing and attached Transcript of Hearing before the Oil Conservation Division was reported by me; that said transcript is a full, true, and correct record of the hearing, prepared by me to the best of my ability, knowledge, and skill, from my notes taken at the time of the hearing.

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. 6547 heard by me on 19.79.

Keun, Examiner

Oil Conservation Division

- CASE 6542: Application of Sun Oil Company for special casinghead gas allowables, Lea County, New Mexico.

 Applicant, in the above-styled cause, seeks an increase in the casinghead gas allowable for its

 Annie Christmas Well No. 1 and its Walter Lynch Well No. 2, located in Units N and L, respectively,
 of Section 1, Township 22 South, Range 37 East, Drinkard and Wantz-Granite Wash Pools, Lea County,
 New Mexico.
- CASE 6523: (Continued and Peadvertised)

Application of Lonnie J. Buck for compulsory pooling, Lea County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests in the Yates and Seven Rivers formations underlying each of the following 40-acre tracts in Section 25, Township 25 South, Range 36 East, Lea County, New Mexico: NW/4 SW/4 to be dedicated to the Brown Well No. 6 located in Unit L and SW/4 SW/4 to be dedicated to the Brown Well No. 7 located in Unit M. Also to be considered will be the cost of recompleting said wells and the allocation of the cost thereof as well as actual operating costs and charges for supervision. Also to be considered will be the designation of applicant as operator of the wells and a charge for risk involved in recompleting said wells.

- CASE 6543: In the matter of the hearing called by the Oil Conservation Division on its own motion for an order creating, abolishing, redesignating, and extending certain pools in Chaves and Lea Counties, New Mexico:
 - (a) CREATE a new pool in Lea County, New Mexico, classified as an oil pool for Bone Spring production and designated as the Airstrip-Bone Spring Pool. The discovery well is Gulf Oil Corporation Lea YH State Well No. 1 located in Unit O of Section 25, Township 18 South, Range 34 East, NMPM. Said pool would comprise:

TOWNSHIP 18 SOUTH, RANGE 34 EAST, NMPM Section 25: SE/4

(b) CREATE a new pool in Lea County, New Mexico, classified as an oil pool for Mississippian production and designated as the North Caprock-Mississippian Pool. The discovery well is Morris R. Antweil Landlady Well No. 1 located in Unit B of Section 8, Township 12 South, Range 32 East, NMPM. Said pool would comprise:

TOWNSHIP 12 SOUTH, RANGE 32 EAST, NMPM Section 8: NE/4

(c) CREATE a new pool in Lea County, New Mexico, classified as a gas pool for Atoka production and designated as the West Bell Lake-Atoka Gas Pool. The discovery well is Amoco Production Company Pederal H Well No. 1 located in Unit L of Section 26, Township 23 South, Range 33 East, NMPM. Said pool would comprise:

TOWNSHIP 23 SOUTH, RANGE 33 EAST, NMPM Section 26: W/2

(d) CREATE a new pool in Lea County, New Mexico, classified as a gas pool for Devonian production and designated as the Langley-Devonian Gas Pool. The discovery well is ARCO Oil and Gas Company Langley Getty Com Well No. 1 located in Unit N of Section 21, Township 22 South, Range 36 East, NMPM. Said pool would comprise:

TOWNSHIP 22 SOUTH, RANGE 36 EAST, NMPM Section 21: S/2

(e) ABOLISH the West Warren-Blinebry Pool in Lea County, New Mexico, described as:

TOWNSHIP 20 SOUTH, RANGE 38 EAST, NMPM Section 19: SE/4
Section 20: SW/4
Section 29: NW/4

(f) REDESIGNATE the Grama Ridge-Bone Spring Pool created by Order No. R-5958 as the East Grama Ridge-Bone Spring Pool, described as:

TOWNSHIP 21 SOUTH, RANGE 34 EAST, NMPM Section 35: SW/4

(g) EXTEND the Blinebry Oil and Gas Pool in Lea County, New Mexico, to include therein:

TOWNSHIP 20 SOUTH, RANGE 38 EAST, NMPM Section 19: SE/4
Section 20: SW/4
Section 26: NE/4
Section 29: NW/4

CASE 6542: Application of Sun Oil Company for special casinghead gas allowables, Lea County, New Mexico. Applicant, in the above-styled cause, seeks an increase in the casinghead gas allowable for its Annie Christmas Well No. 1 and its Walter Lynch Well No. 2, located in Units N and L, respectively, of Section 1, Township 32 South, Range 37 East, Drinkard and Wantz-Granite Wash Pools, Lea County, New Mexico.

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(Continued and Reddvertised)

akv.

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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. 6318 Order No. R-5845

APPLICATION OF COQUINA OIL CORPORATION FOR AN INCREASE IN CASINGHEAD GAS ALLOWABLE, LEA COUNTY, NEW MEXICO.

ORDER OF THE DIVISION

BY THE DIVISION:

This cause came on for hearing at 9 a.m. on September 13, 1978, at Santa Fe, New Mexico, before Examiner Richard L. Stamets.

NOW, on this 14th day of November, 1978, 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, Coquina Oil Corporation, seeks an exception to Rule 303-C-4 to increase the casinghead gas allowable for its Vivian Well No. 1, located in Unit F of Section 30, Township 22 South, Range 38 East, Lea County, New Mexico, the Drinkard and Granite Wash zones in said well being commingled pursuant to Order No. DHC-255 and subject to the GOR limit for the Wantz-Granite Wash Pool.
- (3) That the daily casinghead allowables for said Drinkard and Granite Wash zones are 852 MCF and 374 MCF, respectively.
- (4) That the applicant proposes a casinghead allowable for the subject well of 984 MCF of gas per day, based upon an allowable of 374 MCF per day for the Granite Wash zone and 610 MCF per day for the Drinkard zone.

	E EXAMINER NUTTER ONSERVATION DIVISION
CASE NO.	EXHIBIT NO. 20

- (5) That based upon the division of gas production set out in Order No. DNC-255 the proposed special casinghead gas allowable of 984 MCF per day can be produced by said Vivian Well No. 1 without causing over production of casinghead gas from either the Drinkard zone or the Granite Wash zone.
- (6) That the assignment of such special casinghead gas allowable will better permit the applicant to recover its share of the oil and gas production in each of said zones, will not cause waste, and will not violate correlative rights.
 - (7) That the application should be approved.

IT IS THEREFORE ORDERED:

- (1) That Coquina Oil Corporation is hereby granted a special commingled casinghead gas allowable of 984 MCF per day (610 MCF for the Drinkard zone and 374 MCF for the Granite Wash zone) for its Vivian Well No. 1 located in Unit F of Section 30, Township 22 South, Range 38 East, Lea County, New Mexico.
- (2) That any provisions of the Division's Order No. DHC-255 dated August 14, 1978, not in conflict herewith are hereby continued in full force and effect.
- (3) 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

DOE D. RAMEY, Director

SEAL

dr/

SUN OIL COMPANY
WALTER LYNCH #2
ANNIE CHRISTMAS #1

CASE #6542

DAY

WALTER LYNCH #2

ANNIE CHRISTMAS #1

WALTER LYNCH #2

WALTER LYNCH #4

WALTER LYNCH

5-9-79

EXCEPTION TO RULE 303-C INCREASED CASINGHEAD GAS ALLOWABLE

W. LYNCH #2	ESTIMATE 80PD	D PROD. MCFD	ALLOW BOPU	ABLE MCFD
Drinkard	3	290 ⊬	142	852
Granite Wash	3	250 V	187	374 v
Total	6	540 v	187	374

Estimate 50% increase when rod pumped.

Required casinghead gas allowable: 810 MSCFD

REQUESTED ALLOWABLE: 900 MCFD

A. CHRISTMAS #1

Drinkard	5	126	142	852
Granite Wash	22	160	187	374
Total	6	286 ✓	187	374

Drinkard will increase 100% when rod oumped.

Required casinghead gas allowable: 412 MSCFD

REQUESTED ALLOWABLE: 500 MCFD

(4) (4) (4) (4) (4) (4)

BEFORE EXAMINER NUTTER
OIL CONSERVATION DIVISION
SUM EXHIBIT NO. /

CASE NO. 6542

Downhole o	RWO RWO #11	MIS CODE THE AFERPHOTE WELL HUMSER - #1U Wantz	Ol (J) DWO CT NOWS FOR THE CO PIECO 2 & Drinkar	EDEWO NATIVE ESPECIAL REQUIRED COUNTY/PA d Lea	ETHERN ACCTOR PROPERTY AND THE ACCTOR PROPERTY
WELL NAME WELL CLASSIFICATION RESERVOIF NAME PERFORATIONS (ELS) PERFORATION (#/A) CURRENT CALENDAR ALLOWABLE, B/D CURRENT MAXIMUM ALLOWABLE, B/O PROD. TEST: DATE STADUCTION METHOD TUBING PRESSURE & CHOKE SIZE OIL/COND., BBLS. WATER, BBLS. & TOR BBLS./MMCF, GAS, MCF & GOR INPUT GOR & GFR LAST BHP & DATE LAST PROD. INDEX & CATE	#1-L PE Granite Wash 7217-7296 24 137 1/20/79 PE 13 x 74 x 1-1/2 22 0 - 160 7273	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX			
G/L PRESS., MAX. B OPER.				OIL CONSERV	MINER NUTTER ATION DIVISION BIT NO. 2
PAOCEDURE:	AIR-GAS 9996	POLLUTION COST E	STIMATE - SUN WATER-G		-OIL 9999

rocktion

WORKOVER PROCEDURE

NOTE: Granite Wash zone (LT) is highly water sensitive. Do not pump water down well!!!

- MIRU. Unseat pump in lower tbg. Pump 50 bbl hot oil down lower tbg, wait 1 hr. POH w/rods. Install Hydril BOP.
- 2. RIH w/taper tap on sucker rods & screw into 11/16" hole in mechanical hold down @ 4921. Fish & POH and lay down rods.
- 3. Otis set latch in standing valve in "X" nipple at 7180'.
- 4. Kill Drinkard w/dead lease oil thru upper tbg; Un-jay upper tbg from "RDH" pkr @ 4849 & POH laying down.
- 5. Release "RDH" pkr w/straight pull on lower tbg, pull out of overshot 0 7181' & retrieve dual equipment. (Note: 1" UT Retrieve w/LT.)
- 6. Install 7" x 2½" single wellhead & run OS W/O lugs; l jt. 2-3/8; Otis "C". Nipple, 900' 2-3/8", 5" TAC, 3950' 2", 4.7#, J-55, & 2000' 2½", 6.5# J-55.
- 7. Run 1½" insert pump on 86 rod taper (74-1", 74-7/8", 127-3/4") (Do not run paraffin scrapers on rods).
- 8. RD RR. Align pumping unit. POP @ 8 x 74 x 1½. Test.

BEFORE EXAMINER NUTTER
OIL CONSERVATION DIVISION

SUK EXHIBIT NO. 3

CASE NO. 6542

ANNIE CHRISTMAS

LOCATION: 669' FSL & 1986' FWL, Section 1, Township 22-S, Range 37-E Unit N.

LOGS:

ELEVATION: GL 3350' DF 3361' RT 3362'

(

Well was drilled to a T.D. of 5250' May and June 1945. Had set 13-3/8, 9-5/8 & 7" csgs. Had DST'd 5080-5165'. GTS in 4 min, mud in 11 min, oil in 15 min. Perf Paddock 5165-5185' w/60 shots. Acidized w/1000 gal I.P. F 12 hrs 742 BO, no water, 521 MCF gas.

- Oct. 1959; Acdz Paddock perfs 5165-85 w/10,000 gal 15% XLST w/ 60 RCNBS. MP 4000, FP 3400. AIR 6.6 BPM. Before WO 6 BOPD. After W.O. 50 BOPD, 127 MCFPD.
- Mar. 1962; Perf Paddock 5107-14, 18-20 & 28-40' w/2 bullets 1 ft. Frac all perfs w/20,000 gals ref oil & 30,000 sd in 4 stages. MP 5700, Min 5500, AIR 14 BPM. Tested 137 BOPD, no water, 256 MCF, GOR 1940. Before W.O. 7 BOPD, 1½ BW, 62 MCF, 8850 GOR.
- June-Aug. 1973: Deepened well w/6½" bit to 7402'. R & C 5", 15# & 13#, N-80 & K-55 liner C.S. 7402', FC 7369, T.O.L. 4960'. Cmtd w/200 sx Cl C. Rev 88 sks off top of liner. Tested liner & csg to 700# OK. Perf G.W. 7278-96 w/l JSP2F (10 holes) w/3½" DML C.G. sptd 160 gal 15% NEHCL over perfs. Acdz w/2000 gal BDP 1800/ MP 2400, FP 2000, ISIP 1400. AIR 2.7 BPM. Swbd in. F 24 hrs 81 BO & 2 BW, 24/64 chk, TP 80. Frac perfs w/6000 gal OBUF w/6000# 20-40 sand. BDP 4500, AP 3800, ISIP 2400, 15 min 2000, AIR 5.2 BPM. Pot 24 hrs F 194 80, 2 BW 16/64 chk, TP 320#, 189.5 MCf. Kill well w/water. Set BP @ 6960. Perf Drinkard 6833', 35, 41, 43, 45, 6925 & 27 w/l-11/16" tbg gun. Acdz w/1500 gal 15% FE HCL & 8 RCNB's. BDP 4500, Min 2300, ISIP 0, gd ball act: Swbd in FARO 3.3 iMCF on 13/64 chk, TP 1720#. Killed well w/S.W. Set Otis W.B. pkr @ 7254 on W.L. Ran dual equipment. Swabbed both zones in (UT) CAOF pot on Drinkard 5726 MCFPD. (LT) 24 hrs F 100 BO, 1 BW 26/64 chk TP 40-190. Acdz (LT) w/5000 gal 5% NEHCL w/2 gal J-4A/1000 in 4 stgs w/4 RCNB's after first 3 stgs. MP 3000, MP 900, ISIP 1600, 10 min 600, AIR 3.6 BPM, gd ball act. Swbd in. Tested 24 hrs FTP 80-130#, 24/64 chk, 118 BOPD & 1 BWPD.
- Feb & March 1976: Kill well w/lease oil. Perf Granite Wash 7217, 18, 19, 23, 25, 33, 35, 37 w/3-1/8" CG. Acdz perfs w/2000 gal 15% NEHCL w/3 RCNBS after each 500 gal. BDP 2600, MP 2600, FP 2000, ISIP 1200. Swbd in. Flowed 20 BO overnite TP 250#. All water is 2% KCL w/l gal Moroflo/1000. Kill w/oil. Set RBP @ 6750'. Perf All water is 2% KCL w/l gal Moroflo/1000. Kill w/oil. Set RBP @ 6750'. Perf Drinkard 6613, 21 & 23 w/l-9/10" gun. BD perfs w/2 bbl water 3100# @ 2 BPM. Acdz w/750 gal w/3 RCNBs. BDP 3100, MP 3100, AP 2400, FP 2200, ISIP 1300#, AIR 1-3/4 BPM. Flowed and swbd well in. Flowed well 2 hrs. TP 1800-400. Kill w/KCL water Set BP @ 6550. Perf Drinkard 6446,48, 69 & 71 w/l-9/16 gun. BP perfs w/2 bbl water 2900# @ 2 BPM. Acdz perfs w/1000 gal 15% NEHCL w/4 RCNBS BDP 2900, MP 2900, AP 2000, FP 2200, ISIP VAC. AIR 1-3/4 BPM. Swbd in. Flowed 1½ hrs TP 1200-700. (Est 2.3 MMCFPD) Fluid hit, flow 3/4 hrs on 16/64 chk 3 BO, 3 BLW, TP 700-800#. (Killed well. Set BP @ 6390'. Perf Drinkard 6291, 93, 95, 6307, 11, 13, 17, 19, 23 & 25. W/l-9/16 gun. Acdz w/2500 gal 15% NEHCL w/3 RCNB's after each 500 gal. BDP vac, MP 1150, FP vac. AIR 2 BPM. Swabbed well in. F 6 hrs rec 25 BO & BDP vac, MP 1150, FP vac. AIR 2 BPM. Swabbed well in. F 6 hrs rec 25 BO & SI BLW TP 1000-600, 15 min SIP 1300#. Used 76 B.W. to control well while running tbg. Swbd both zones. Before W.O. UT f 7 BEFORE EXAMINER NUTTER

SUN EXHIBIT NO. 4

45°

HISTORY (CONT'D)

LT f 80 BO & 5 BW.

After: UT F 18 BO, 18 BLW, 337 MCF, 18,722 GOR, 32/64, 70# FTP LT F 106 BO, 0 BW, 118 MCF, 1113 GOR, 20/64, 100# FTP (3/21/74)

Ran rods & pump in LT @ 4921' POP 11½ x 76 x 1½ After: LT - 96 BO, 0 8W, 76 MCF, 792 GOR Before: LT. Dead. 5/76

DRINKARD FIELD SOUTHEAST LEA CO., NEW MEXICO

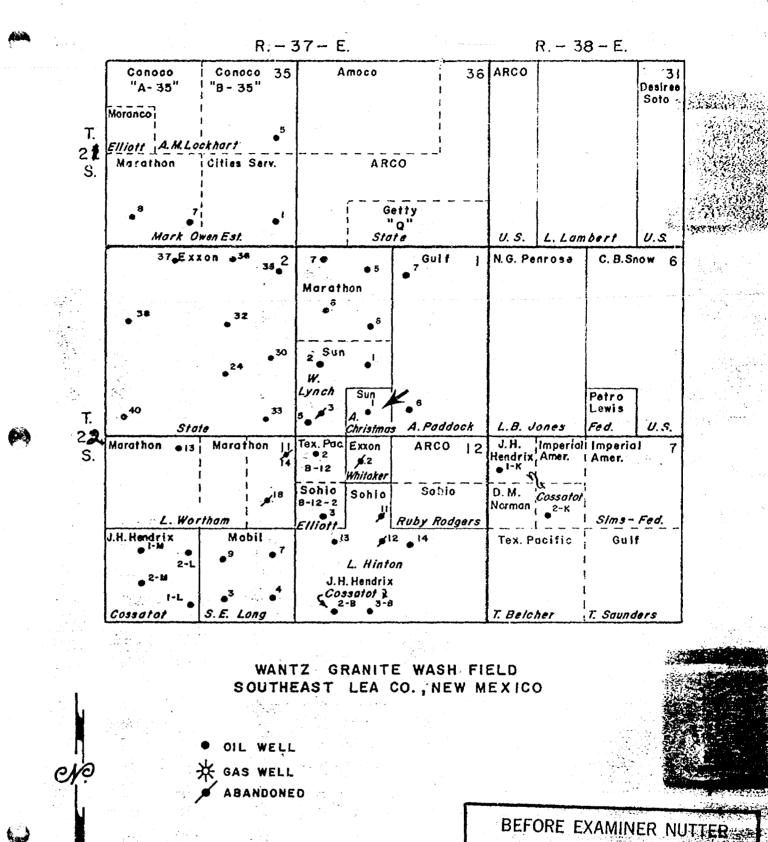
OIL WELL GAS WELL ABANDONED OP

BEFORE EXAMINER NUTTER OIL CONSERVATION DIVISION

EXHIBIT NO.

T. Belcher

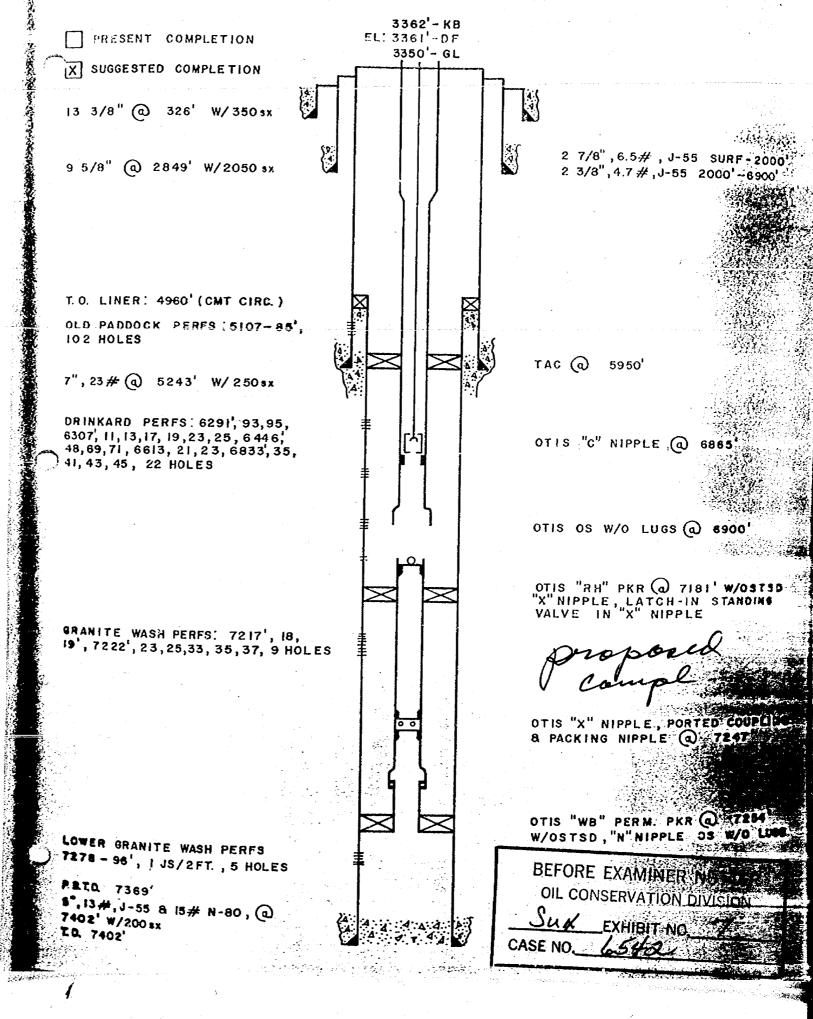
SCALE: 2" = 1 MILE



SCALE: 2" = | MILE

OIL CONSERVATION DIVISION

EXHIBIT NO.



GRANITE WASH PERFS: 7217', 18, 19, 7222', 23', 25, 33, 35, 37, 9 HOLES

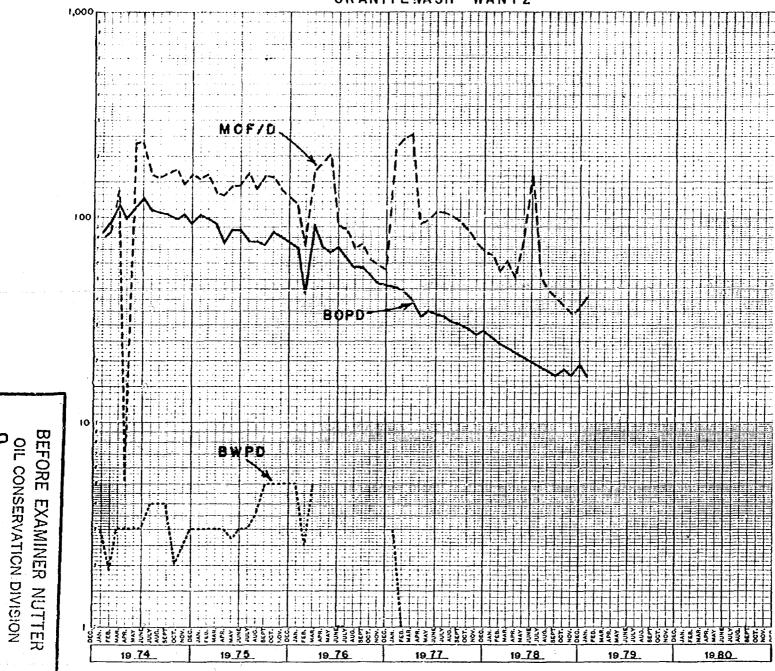
OWER GRANITE WASH PERFS 278'- 96, I JS/2FT., 5 HOLES P. B. T. D. 7369 5", 13#, J-55 & 15#, N-80, @ 7402' W/200sx T.D. 7402'

OTIS "WB" PERM PKR @ 7254' W/OSTSD, "N" NIPPLE, OS W/O LUGS

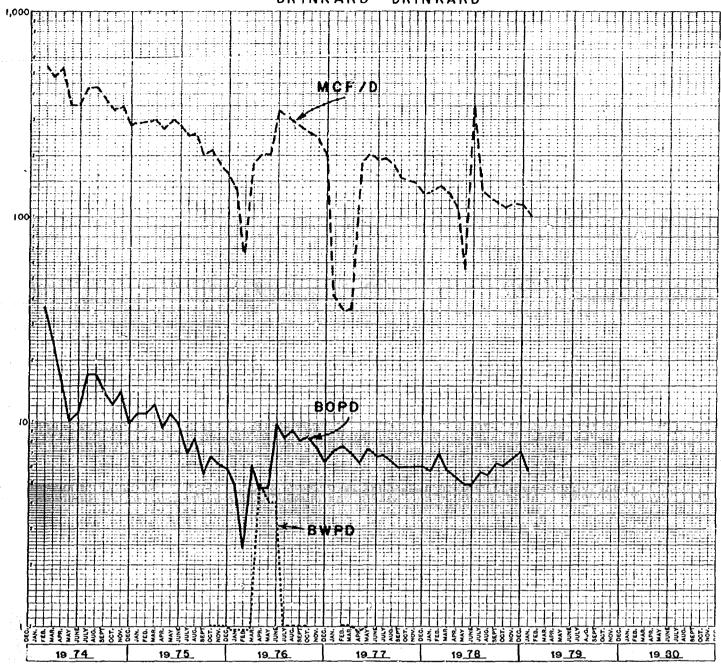
BEFORE EXAMINER NUTTER OIL CONSERVATION DIVISION

SUN EXHIBIT NO. CASE NO.

ANNIE CHRISTMAS NO. IL GRANITEWASH - WANTZ



ANNIE CHRISTMAS NO. I U DRINKARD -- DRINKARD



BEFORE EXAMINER NUTTER OIL CONSERVATION DIVISION

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Southwestern	The second control of	AFE/PHOJES	CT NUMBER	20197 297, 42.	CORP. JANONS	accto, panesate maiarara 853813
W. Lyozhi OOJ	#21		risco ock/Orink	· · · · · · · · · · · · · · · · · · ·	Lea	and the control of th
STATEMENT OF ANDRUSM & HOME RECOMMENDED;	4 15				Compare to a secure according to the second	The state of the s
Downhole comming	le Want	z Granite W	lash & Dr	inkard as	s lower tubi	ng
& dual w/Paddock	(Upper	tubing.)				
			E-resident galgiones comments	-		A MARKET DESCRIPTION OF A STATE OF THE STATE
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			nament to the transfer	8		•
HEFORE W/O		AFTERWO	 .r			
WELL CEASSIFICATION TA	Lyn	ich 2-L				
RESERVOIR NAME Granite Wash		rinkard				
PERFORATIONS (EL) 7094-7102		76-6826				
PERFORATION (R/A)					•	
CURRENT CALENDAR ALLOWABLE, B/O						•
CURRENT MAXIMUM 187 × 2000/	1 142	2 x 6000/1				
PROD. TEST:						×
OATE TA			1			
PERPUTE TA						
ใช้รี่ING PARSSURE 8 CHOKE SIZE	50.)# 22/64	}			
OIL/COND., BBLS.	3			DE	CODE EVALA	
WATER, BOLS. & S		****		DEI	FURE EXAM	INER NUTTER
OR DBLS./MMCF.	2			OI	L CONSERVA	TION DIVISION
GAS, MCF & GOR	290	96,880		1 C		· · · · · · · · · · · · · · · · · · ·
INPUT GOR & GFR LAST DHP & DATE						II NO/
LAST PROD. INDEX & DATE				CASE	NO. 654	2
G/L PRESS., MAX. & OPER.						
ESTIMATED INCOME PER DAY						e e
1. Otis rig up lubric	ator or	n Tower tubi	ing crow	n valve.	SI well.	
2. Fish "N" plug in OS	STCD A	CO2OL NOT	<u> </u>			
2. Fish "N" plug in Os immediate pressure	increa:	3939'. NUTE	F: Re h	repared i	or	************************************
3. Run latch in standi			<u>n "N" nij</u>	pple @ 69	139'. POH.	
4. RO. Return to Prod	luction.	•				1,12,09
					127 /03	7 71226 1
				C-	751,100	-2-71/
					-120 123 T	Aller T
					THE PARTY OF	4.5.7
				<u>~</u>		
	1 4				- Chi-	
WAG/HLB	ライイス	7		<u> </u>		
RECOMMENDED BY 5. A. GILLETT		PATE 12/11/7			ED IF REGIONAL	APPROVAL IS REQUIRED
DIST. ENGR. APPROVAL	، جنهجت	DATE 12/12/7	REG. C	GEOLOGICAL	·	DATE
COST. GEOL. APPROVAL		12/13/	10.3	PHOINEERING		DATE
CIST. GEOL. APPROVACE	<u> </u>	DATE Difference		.Nonecamo		ONIG

HISTORY

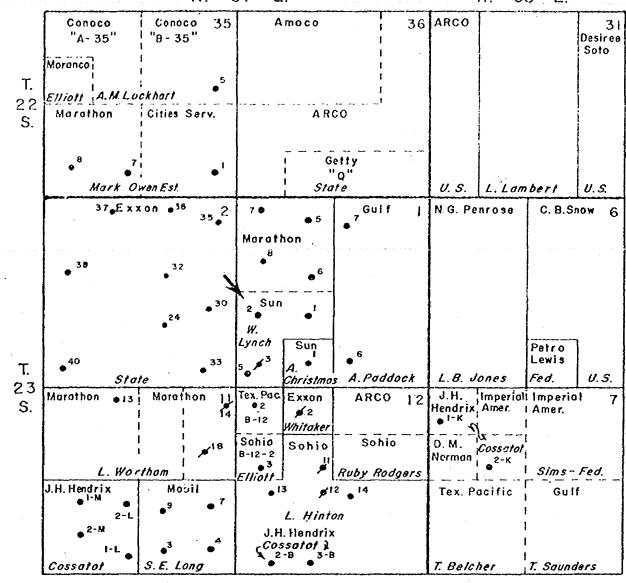
8-45 SPUD

- 10-45 TO 5220'
 Perf Paddock 5100-60 w/238 holes 4 SPF
 Acid 2500 gal. IP 789 BO, 0 BW, 603 MCF, 764 COR
- 4-59 Acid 10,000 gal.
 Before: 6 BO, 0 BW, 49 MCF, 8540 GOR
 After: 41 BO, 0 BW, 106 MCF, 2570 GOR
- 10-64 Perf Paddock 5060-62, 73-75, 80-82, 92-96, 2 SPF Frac all w/23,000 Galref oil & 20,000# Before: 10 8090 After: 81 80, 12 8W, 113 MCF, 1396 GOR
- Deepened NTD 7150' Set liner. Paddock perf behind pipe. Set Otis Perma Latch pkr 0 6939'. Perf G.W. 0 7094-7102, lJS/2rt., 5 holes. B.D. w/3000 gal oil. FARO 325 MCFD. Set plug in pkr perf Drinkard, 6770, 87, 88, 90, 92, 6801, 16, 20, 24, 25, 26, 11 holes. Acid 1570 gal. Perf Drinkard 6576, 77, 91, 92, 6808, 09, 10, 81 Acid 1500 gal. Set Otis Perma Latch 0 6403' w/plug Perf Paddock 5018, 25, 26, 29, 31, 46; 6 holes Acid 1500 gal. Dualed Drinkard & Paddock Drinkard & Paddock Drinkard & Paddock Drinkard & Paddock Paddock Paddock IP: 23 BO, 7 BW, 345 MCF; 15,000 GOR on pump Before: Paddock 10 BOPD.

BEFORE EXAMINER NUTTER
OIL CONSERVATION DIVISION

<u>JUN</u> EXHIBIT NO. 12 CASE NO. 6542

0/1021

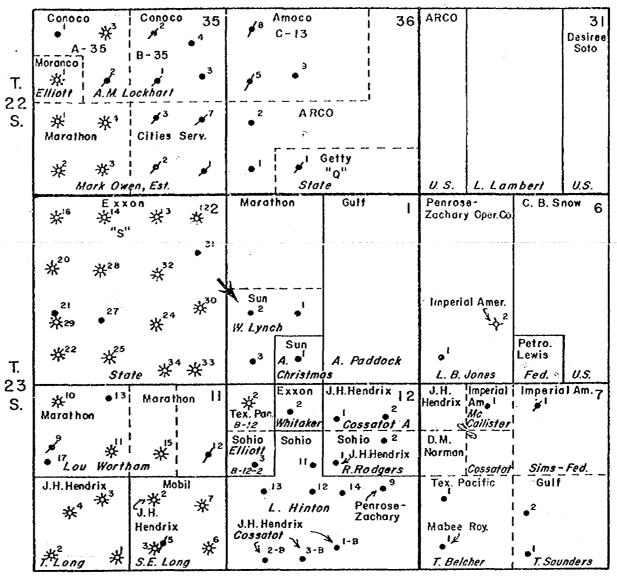


WANTZ GRANITE WASH FIELD SOUTHEAST LEA CO., NEW MEXICO

OIL WELL GAS WELL CNO. ABANDONED SCALE: 2" = I MILE

BEFORE EXAMINER NUTTER OIL CONSERVATION DIVISION

SUN EXHIBIT NO. 13



DRINKARD FIELD SOUTHEAST LEA CO., NEW MEXICO

GAS WELL

ABANDONED

SCALE: 2" = 1 MILE

BEFORE EXAMINER NUTTER
OIL CONSERVATION DIVISION

EXHIBIT NO. 14

EL: 3364' DF& KB

3354 GL PRESENT COMPLETION X SUGGESTED COMPLETION 17" HOLE 13 3/8",40#@ 338'W/ 350sx 12" HOLE LT: 2 3/8", 4.7#, J-55 W/PARALLEL 9 5/8", 38#@ 2854! TAC & SEAL DIVIDER OVER SHOT W/ 2100 sx UT: 2 3/8",4.7#, J-55 W/TURNED DOWN COLLARS SN - 4825 PN - 4826 MA - 4830' BLANKING DISC. IN COLLAR @ OTIS PARALLEL TBG. ANCHOR @ 4869 TOP OF 5" LINER @ 4896" PADDOCK PERFS: 6 HOLES 5018',25,26,29,31,46 (OLD PADDOCK PERFS: 5060'-62, 73-75,80-82,92-96,2SPF 5100'-60, 4 SPF, 238 HOLES) 7", 23#, J-55,@ 5217' W/350sx OTIS PERMA-LACH PKR @ 6478' W/TBG, SEAL DIVIDEP & "X" PROFILE NIPPLE (1,791 ID) DRINKARD PERFS: 19 HOLES 6576',77,91,92,6608',09,10,81,6770',87,88,90,92,6801',16,20, 24,25,26 OTIS PERMA-LACH PKR @ 6939' W/S.V. IN SEAL DIVIDERS ("N" PROFILE) GRANITE WASH PERFS: 5 HOLES BEFORE EXAMINER NUTTER 7094 , 96,98,7100,02 OIL CONSERVATION DIVISION P.B.T.D. 7110' EXHIBIT NO. 5",15#, K-55,FJ@ 7149' W/200sx T.D. 7150' CASE NO.

EL: 3364' DF & KB 3354 GL PRESENT COMPLETION SUGGESTED COMPLETION 17" HOLE 13 3/8",40#@ 338' W/ 3505x 12" HOLE 9 5/8", 38# @ 2854 w/ 2100 sx b TOP OF 5" LINER @ 4896" PADDOCK PERFS: 6 HOLES 5018',25,26,29,31,46 (OLD PADDOCK PERFS: 5060'-62, 73-75,80-82, 92-96, 2 SPF 5100'-60, 4SPF, 238 HOLES) 7", 23#, J-55, @ 5217 W/350sx DRINKARD PERFS: 19 HOLES 6578',77,91,92,6608',09,10,81, 6770',87,88,90,92,6801',16,20, 24,25,26

LTI 2 3/8", 4.7#, J-55 W/PARALLE

UT: 23/8",4.7#, J-55 W/TURNED
DOWN COLLARS
SN - 4825'
PN - 4826'
MA - 4830'
BLANKING DISC IN COLLAR @
4860'
OTIS PARALLEL TBG. ANCHOR @
4869'

OTIS PERMA-LACH PKR @ 6478' W/TBG. SEAL DIVIDER 8 "X" PROFILE NIPPLE (1.791 10)

Present

OTIS PERMA-LACH PKR @ 6939' W/PLUS IN SEAL DIVIDERS ("N" PROFILE)

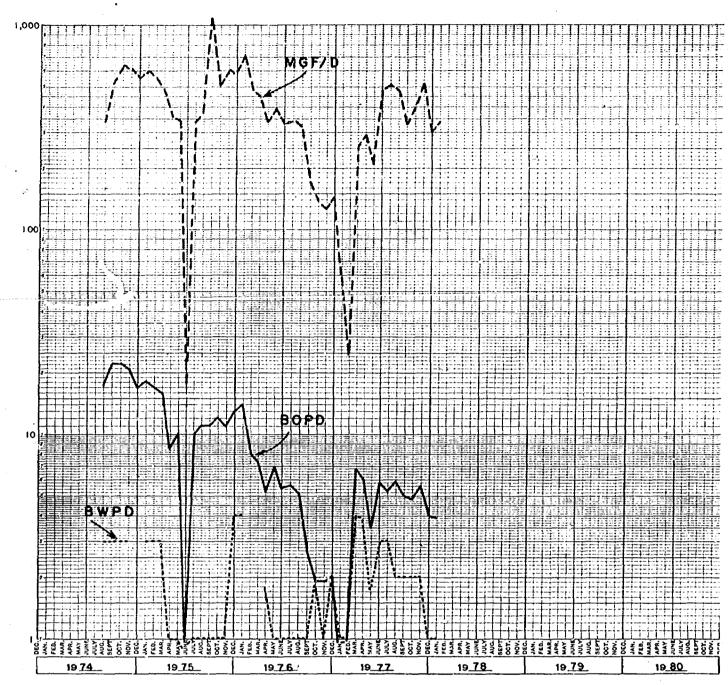
OIL CONSERVATION DIVISION

SUN EXHIBIT NO. 16 CASE NO. 6542

GRANITE WASH PERFS: 5 HOLES. 7094', 98,98,7100',02

> P.B.T.D. 7110' 5",15#, K-55,FJ@ 7149' W/200sx T.D. 7150'

WALTER LYNCH NO. 2L DRINKARD - DRINKARD



BEFORE EXAMINER NUTTER
OIL CONSERVATION DIVISION
SE NO. 4542

MONTHLY RATES DRINKARD

	BOPM OIL	MCFPM GAS	BWPM WATER	BHP PSIG DATE
Amoco Production Co. 9F 3621S37E State C Tr. 13	24	78	31	
Atlantic Richfield 1M 3621S37E State 367 2L 3621S37E State 367	79 79	4788 4788	. 9 9	٠
Cities Service Co. 1P 3521837E Owen 20 3521837E Owen 3J 3521837E Owen	ABANE ABANE ABANE	ONED	in to a single second	
7I 3521S37E Owen Continental Oil Co.	TA			
1D 3521S37E Lockhart A 35 2F 3521S37E Lockhart A 35 3C 3521S37E Lockhart A 35(GW) 1G 3521S37E Lockhart B 35	62 Aband Aband	2156	31	
2B 3521S37E Lockhart B 35 3H 3521S37E Lockhart B 35 4A 3521S37E Lockhart B 35	ABANE 116 116	00NED 1261 2179	309 0	
Exxon Corp. 12A 222S37E New Mexico S(GW) 13B 222S37E New Mexico S(GW) 14C 222S37E New Mexico S(GW)	206 126 95	27168 22893 17519	0 0 0	
16D 222S37E New Mexico S(GW) 20E 222S37E New Mexico S(GW) 21L 222S37E New Mexico S(GW)	0 103	8431 26214	0	. 5
22M 222S37E New Mexico S(GW) 24J 222S37E New Mexico S(GW) 25N 222S37E New Mexico S(GW) 27K 222S37E New Mexico S(GW)	52 0 31 0	15415 15538 19838 4431	0	
28F 222S37E New Mexico S(GW) 29L 222S37E New Mexico S(GW) 30I 222S37E New Mexico S(GW) 31H 222S37E New Mexico S(GW)	0 0 0 SI	21158 7323 11138 2-77	0 0 0 0	e e
32G 222S37E New Mexico S(GW) 33P 222S37E New Mexico S(GW) 340 222S37E New Mexico S(GW) 2C 1222S37E Whitaker Perkins	26 103 0	6861 19815 27100	0 0 0	
Gulf Corp. 10 722538E H. P. Sanders 2J 722538E H. P. Sanders	135 749	616 567	0 20	

DRINKARD

			OIL OIL	MCFFTT GAS	DWW. WATER	BHP PSIG D	ATE
		*					
	2M 1122S37E	Cossatot Cossatot A	821 300 282 308 257 231 96 7 9	26409 2569 2568 6754 6755 28775 11530 11530 11530 11529	31 0 31 0 31 31 31 0 0 31		
		ary Oper. Co.			Ą		
	2K 622S33E 1C 722S38E	rican Mgmt. Co. L. B. Jones McAllister Sims Federal	P&A 90 TA	176	155		
	Mabee Petrol 1M 722S38E	eum Corp. Belcher	60	2866	10		
	4K 3521S37E 9E 1122S37E 10D 1122S37E 11F 1122S37E 12H 1122S37E 13C 1122S37E 15G 1122S37E	Mark Owens (GW) Mark Owens (GW) Mark Owens (GW) Mark Owens (GW) Lou Wortham Lou Wortham (GW)	15 14 14 28 ABANDONE D 14 14 ABANDONE D 27 27	30141 5689	0 0 0 0 0 0	924 987	11-77 11-77
•	50 1122S37E 6P 1122S37E	p. S. E. Long (GW) S. E. Long (GW) S. E. Long (GW) S. E. Long (GW)	44 ABANDONED 41 89	7325 12365 24708	41 41 41	529 968	11-77 11-77
	Moranco 1E 3521S37E	E. M. Elliott (GW)	30	5992	3		•
		Corp. State C Tr. 13 State C Tr. 13	ABANDONED ABANDONED		A)		•
		ry Oper. Co. Hinton Jones	468 155	5670 0	186 15	994	12-77

DRINKARD

	BOPM OIL	MCFPM GAS	BW/M WATER	BHP PSIG DAT	E
Sohio Petroleum Co. 3E 1222S37E Elliott B-12-2	88 126	2754 6306	36 12		
11F 1222S37E Hinton 12K 1222S37E Hinton 13L 1222S37E Hinton 14J 1222S37E Hinton	148 68 272	12521 1802 2939	36 0 90		
2H 1222S37E Rodgers Sun Oil Company 1N 122S37E Annie Christmas	160 224	1698 3554	14 -	1109	11-74
1K 122S37E Walter Lynch 2L 122S37E Walter Lynch 3M 122S37E Walter Lynch	274 118 396	10867 8832 11869	124 0 155	1426	11-76
Texas Pacific Oil Co. Inc. 1L 722S37E Belcher 2D 1222S37E Elliott B-12 (GW)	120 0	1712 14738	62 0	n	•
Tidewates Oil Co. 1N 3621S37E State O	ABANDO	NED			

BEFORE EXAMINER NUTTER
OIL CONSERVATION DIVISION
SUN EXHIBIT NO. 18
ASE NO. 6542

WANTZ - GRANITE WASH

	BOPM OIL	MCFPM GAS	BWPM WATER	- BHP PSIG DATE
Cities Service Co. 1P 3521837E Owen	1453	6074	0	
Continental Oil Co. 5H 3521S37E Lockhart B-35	193	525	0	
Exxon Corp. 2C 1222537E Whitaker & Perkins	ABANDONED		•	ē.
Gulf Cil Corp. 60 122537E Alice Paddock	ABANDONED		and the second s	
7B 122S37E Alice Paddock	100	466	120	
John Hendrix Corp. 1N 1122S37E Cossatot L 2K 1122S37E Cossatot L 2M 1222S37E Cossatot B	460 564 181	5071 5071 2376	31 31 31	917 5-77
3N 1222S37E Cossatot B 1D 722S37E Cossatot K 2F 722S37E Cossatot K 1L 1122S37E Cossatot M	128 384 424 329	2375 1494 1494 2705	31 31 31 31	936 5-77
2M 1122S37E Cossatot M	354	2705	31	1287 5-77
Marathon Oil Co. 5C 122S37E Walter Lynch 6F 122S37E Walter Lynch 7D 122S37E Walter Lynch 8E 122S37E Walter Lynch 7N 3521S37E Walter Lynch 7N 3521S37E Mark Owen 8M 3521S37E Mark Owen 13C 1122S37E Lou Wortham 14A 1122S37E Lou Wortham 18H 1122S37E Lou Wortham	324 429 386 295 755 123 ABANDONED ABANDONED	5239 6158 5650 370 1150 4821	0 43 0 0 0	1822 5-77
Mobil Oil Corp. 3D 1122537E S. E. Long 4P 1122537E S. E. Long 7I 1122537E S. E. Long 9J 1122537E S. E. Long	1167 416 682 ABANDONED	2998 591 11650	37 82 26	
Sohio Petroleum Co. 3E 1222S37E Elliott B-12-2 11F 1222S37E Hinton 12K 1222S37E Hinton	679 ABANDONED ABANDONED	3222	66	1369 5-77 1059 5-77
13L 1222S37E Hinton 14J 1222S37E Hinton	716 621	7438 2362	190 50	1886 5-76 1206 5-77

		BOPM OIL	MCFPM GAS	BWPM WATER	BHP PSIG DATE
Sun Oil Co.		e jest			
1N 1222S37E	Annie Christmas	<i>ნ</i>	1103	0	
1K 1222S37E	Walter Lynch	1461	8770	0	
3M 1222S37E	Walter Lynch	FBANDONED			
5M 1222S37E	Walter Lynch	639	5029	O	
Texas Pacifi 2D 1222S37E	c Oil Co. Elliott B-12	4057	9684	0	
Exxon Corp.	-	9			
24J 222S37E	New Mexico	ABANDONED			
30I 222S37E	New Mexico	26	96	○ 0	
32G 222S37E	New Mexico	309	286	52	. *
33P 222S37E	New Mexico	463	1384	0	
35A 222S37E	New Mexico	618	66	14	
36B 222S37E	New Mexico	258	203	26	
37C 222S37E	New Mexico	489	133	128	
38E 222S37E	New Mexico	618	803	155×	
40M 222S37E	New Mexico	103	147	0	

BEFORE EXAMINER MUTTER
OIL CONSERVATION DIVISION
SUM_EXHIBIT NO_19
ASE NO. 6542

SUN OIL COMPANY
WALTER LYNCH #2
ANNIE CHRISTMAS #1

CASE #6542

5-9-79

EXCEPTION TO RULE 303-C INCREASED CASINGHEAD GAS ALLOWABLE

W. LYNCH #2	D PROD.	ALLOWABLE		
	BOPD	MCFD	BOPD	MCFD
Drinkard	3	290 +50% 290	142	852
Granite Wash	3	250 +50%250	187	374
Total	6	540	187	374

Estimate 50% increase when rod pumped.

Required casinghead gas allowable: 810 MSCFD

REQUESTED ALLOWABLE: 900 MCFD

A. CHRISTMAS #1

Drinkar	d	5	126+100% 126	142	852
Granite	Wash	22	160	187	374
	Total	6	286	187	374

Drinkard will increase 100% when rod pumped.

Required casinghead gas allowable: 412 MSCFD

REQUESTED ALLOWABLE: 500 MCFD

126

252 160 412

3UN-2038.A		MIS COL	DE 01		
WELL WORK COST ESTIM	ATE & PROCEDURE (∏P&A	(II) owo	∏£₩0	[]] FCV
11:62	AMICT	AF F/A	1	IN . APPROVAL PAGE HAFE	ACCIO, PROPERTO NOVASTO
1555	4	WELL NUMBER	FIELD	YES XX NO COUNTY/PARISH	817106 STATE
A. Christinas	#1	L - #1U Wa	intz & Drinkard	Lea	
Downhole co	o-mingle Drinkar	d and Granite	Wash. Drinkar	d needs artifical	lift and both
zones are	low volume.				
	Saudio Tally at anno 7 oile 19 de anno 19 agus Tally anno ann ann ann ann ann ann	***************************************			nai ann a seolatean (- 8-84 debilikkilit (en france mante) - enkan arag
CONTROL OF METERS OF THE SAME ASSESSED AS ASSESSED OF A SAME AS	e para para per la manda de la manda d	THE STREET PROPERTY OF STREET AND STREET	a page 1991 - No pro administrativo de processor (no especial de la constantiva della constantiva dell		· · · · · · · · · · · · · · · · · · ·
	PEFORE W/O	XXXXXXXXXXX	e e e e e e e e e e e e e e e e e e e		
WELL NAME	#1-L	#1-U		• •	
WELL CLASSIFICATION	PE Granite Wash	F Drinkard			
RESERVOIF HAME PERFORATIONS (EL)	7217-7296	6291-68-45		· · · · · · · · · · · · · · · · · · ·	
PERFORATION (R/A)				and the second s	
CURRENT CALENDAR ALLOWABLE, BVO	24	6			
CURRENT MAXIMUM ALLOWABLE, B/D	137	142			
PROD. TEST:		142			
DATE	1/20/79 PE	1/20/79 F			
CHODUCTION METHOD	<u>re</u>	-			
TUBING PRESSURE & CHOKE SIZE	13 x 74 x 1-1/2 22		4_	. •	
OIL/COND., BBLS.		55		•	
WATER, BBLS. & % OH BBLS./MMCF,	0 -	0		•	\$ 1.5°
GAS, MCF & GOR INPUT GOR & GFR	<u>160</u> 7273	126 25.2	00		•
LAST BHP & DATE					
LAST PROD. INDEX & DATE G/L PRESS., MAX. & OPER.					
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		POLLUTION CO	ST ESTIMATE - SUN NET	•	
	AIR-GAS 9996	AIR-OIL 9997	WATER-GAS 9	998 WATER-OIL	9999
PROCEDURE:			13		
SEE ATT	ACHED				

WORKOVER PROCEDURE 4/9/79

NOTE: Granite Wash zone (LT) is highly water sensitive. Do not pump water down well!!!

- 1. MIRU. Unseat pump in lower tbg. Pump 50 bbl hot oil down lower tbg, wait 1 hr. POH w/rods. Install Hydril BOP.
- RIH w/taper tap on sucker rods & screw into 11/16" hole in mechanical hold down Q 4921. Fish & POH and lay down rods.
- 3. Otis set latch in standing valve in "X" nipple at 7180'.
- 4. Kill Drinkard w/dead lease oil thru upper tbg; Un-jay upper tbg from "RDH" pkr 0 4849 & POH laying down.
- Release "RDH" pkr w/straight pull on lower tbg, pull out of overshot @ 7181'
 & retrieve dual equipment. (Note: 1" UT Retrieve w/LT.)
- 6. Install 7" x 2½" single wellhead & run OS W/O lugs; 1 jt. 2-3/8; Otis "C". Nipple, 900' 2-3/8", 5" TAC, 3950' 2", 4.7#, J-55, & 2000' 2½", 6.5# J-55.
- 7. Run $1\frac{1}{2}$ " insert pump on 86 rod taper (74-1", 74-7/8", 127-3/4") (Do not run paraffin scrapers on rods).
- 8. RD RR. Align pumping unit. POP @ 8 x 74 x 1½. Test.

ANNIE CHRISTMAS 4/9-79

LOCATION: 669' FSL & 1986' FWL, Section 1, Township 22-S, Range 37-E Unit N.

ELEVATION: GL 3350' DF 3361' RT 3362'

(

Well was drilled to a T.D. of 5250' May and June 1945. Had set 13-3/8, 9-5/8 & 7" csgs. Had DST'd 5080-5165'. GTS in 4 min, mud in 11 min, oil in 15 min. Perf Paddock 5165-5185' w/60 shots. Acidized w/1000 gal I.P. F 12 hrs 742 B0, no water, 521 MCF gas.

- Oct. 1959; Acdz Pardock perfs 5165-85 w/10,000 gal 15% XLST w/ 60 RCNBS. MP 4000, FP 3400. AIR 6.6 BPM. Before WO 6 BOPD. After W.O. 50 BOPD, 127 MCFPD.
- Mar. 1962; Perf Paddock 5107-14, 18-20 & 28-40' w/2 bullets 1 ft. Frac all perfs w/20,000 gals ref oil & 30,000# sd in 4 stages. MP 5700, Min 5500, AIR 14 BPM. Tested 137 BOPD, no water, 266 MCF, GOR 1940. Before W.O. 7 BOPD, 1½ BW, 62 MCF, 8850 GOR.
- June-Aug. 1973: Deepened well w/64" bit to 7402'. R & C 5", 15# & 13#, N-80 & K-55 liner C.S. 7402', FC 7369, T.O.L. 4960'. Cmtd w/200 sx Cl C. Rev 88 sks off top of liner. Tested liner & csg to 700# OK. Perf G.W. 7278-96 w/l JSP2F (10 holes) w/3½" DML C.G. sptd 160 gal 15% NEHCL over perfs. Acdz w/2000 gal BDP 1800/ MP 2400, FP 2000, ISIP 1400. AIR 2.7 BPM. Swbd in. F 24 hrs 81 B0 & 2 BW, 24/64 chk, TP 80. Frac perfs w/6000 gal OBUF w/6000# 20-40 sand. BDP 4500, AP 3800, ISIP 2400, 15 min 2000, AIR 5.2 BPM. Pot 24 hrs F 194 B0, 2 BW 16/64 chk, TP 320#, 189.5 MCF. Kill well w/water. Set BP @ 6960. Perf Drinkard 6833', 35, 41, 43, 45, 6925 & 27 w/i-11/16" tbg gun. Acdz w/1500 gal 15% FE HCL & 8 RCNB's. BDP 4500, Min 2300, ISIP 0, gd ball act: Swbd in FARO 3.3 iMCF on 13/64 chk, TP 1720#. Killed well w/S.W. Set Otis W.B. pkr @ 7254 on W.L. Ran dual equipment. Swabbed both zones in (UT) CAOF pot on Drinkard 5726 MCFPD. (LT) 24 hrs F 100 B0, 1 BW 26/64 chk TP 40-190. Acdz (LT) w/5000 gal 5% NEHCL w/2 gal J-4A/1000 in 4 stgs w/4 RCNB's after first 3 stgs. MP 3000, MP 900, ISIP 1600, 10 min 600, AIR 3.6 BPM, gd ball act. Swbd in. Tested 24 hrs FTP 80-130#, 24/64 chk, 118 BOPO & 1 BWPD.
- Feb & March 1976: Kill well w/lease oil. Perf Granite Wash 7217, 18, 19, 23, 25, 33, 35, 37 w/3-1/8" CG. Acdz perfs w/2000 gal 15% NEHCL w/3 RCNBS after each 500 gal. BDP 2600, MP 2600, FP 2000, ISIP 1200. Swbd in. Flowed 20 80 overnite TP 250#. All water is 2% KCL w/l gal Moroflo/1000. Kill w/oil. Set RBP @ 6750'. Perf Drinkard 6613, 21 & 23 w/l-9/10" gun. BD perfs w/2 bbl water 3100# @ 2 BPM. Acdz v/750 gal w/3 RCNBs. BDP 3100, MP 3100, AP 2400, FP 2200, ISIP 1300#, AIR 1-3/4 BPM. Flowed and swbd well in. Flowed well 2 hrs. TP 1800-400. Kill w/KCL water Set BP @ 6550. Perf Drinkard 6446.48, 69 & 71 w/l-9/16 gun. BP perfs w/2 bbl water 2900# @ 2 BPM. Acdz perfs w/1000 gal 15% NEHCL w/4 RCNBS BDP 2900, MP 2900, AP 2000, FP 2200, ISIP VAC. AIR 1-3/4 BPM. Swbd in. Flowed 1½ hrs TP 1200-700. (Est 2.3 MMCFPD) Fluid hit, flow 3/4 hrs on 16/64 chk 3 B0, 3 BLW, TP 700-800#. Killed well. Set BP @ 6390'. Perf Drinkard 6291, 93, 95, 6307, 11, 13, 17, 19, 23 & 25. W/l-9/16 gun. Acdz w/2500 gal 15% NEHCL w/3 RCNB's after each 500 gal. BDP vac, MP 1150, FP vac. AIR 2 BPM. Swabbed well in. F 6 hrs rec 25 B0 & 51 BLW TP 1000-600, 15 min SIP 1300#. Used 760 B.W. to control well while running tbg. Swbd both zones. Before W.O. UT f 7 B0, 1 BW + 330 MCF.

HISTORY (CONT'D)

LT f 80 BO & 5 BW.

After: UT F 18 BO, 18 BLW, 337 MCF, 18,722 GOR, 32/64, 70# FTP (3/21/74) LT F 106 BO, 0 BW, 118 MCF, 1113 GOR, 20/64, 100# FTP

Ran rods & pump in LT @ 4921' POP $11\frac{1}{2}$ x 76 x $1\frac{1}{2}$ After: LT - 96 BO, O BW, 76 MCF, 792 GOR Before: LT. Dead. 5/76

DRINKARD FIELD SOUTHEAST LEA CO., NEW MEXICO

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T. Belchei

Cossatot 3-B

OIL WELL

GAS WELL

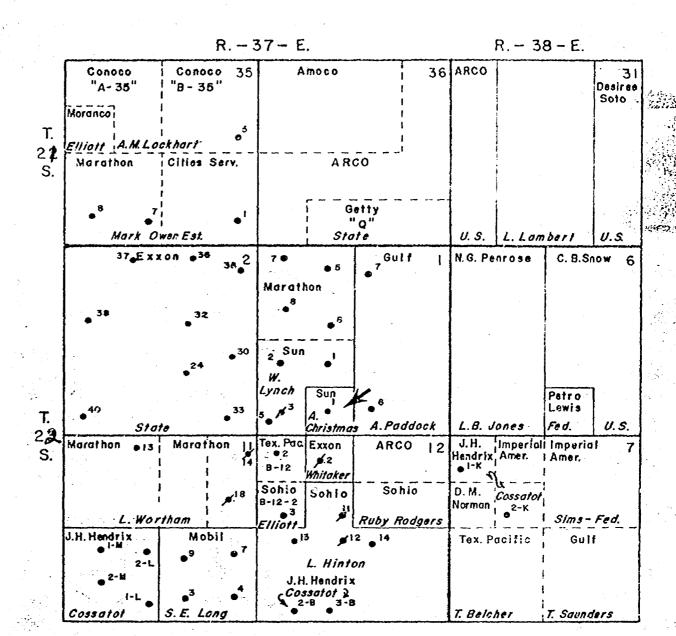
ABANDONED

SCALE: 2" = 1 MILE

7. Long

3***5

S.E. Long

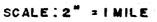


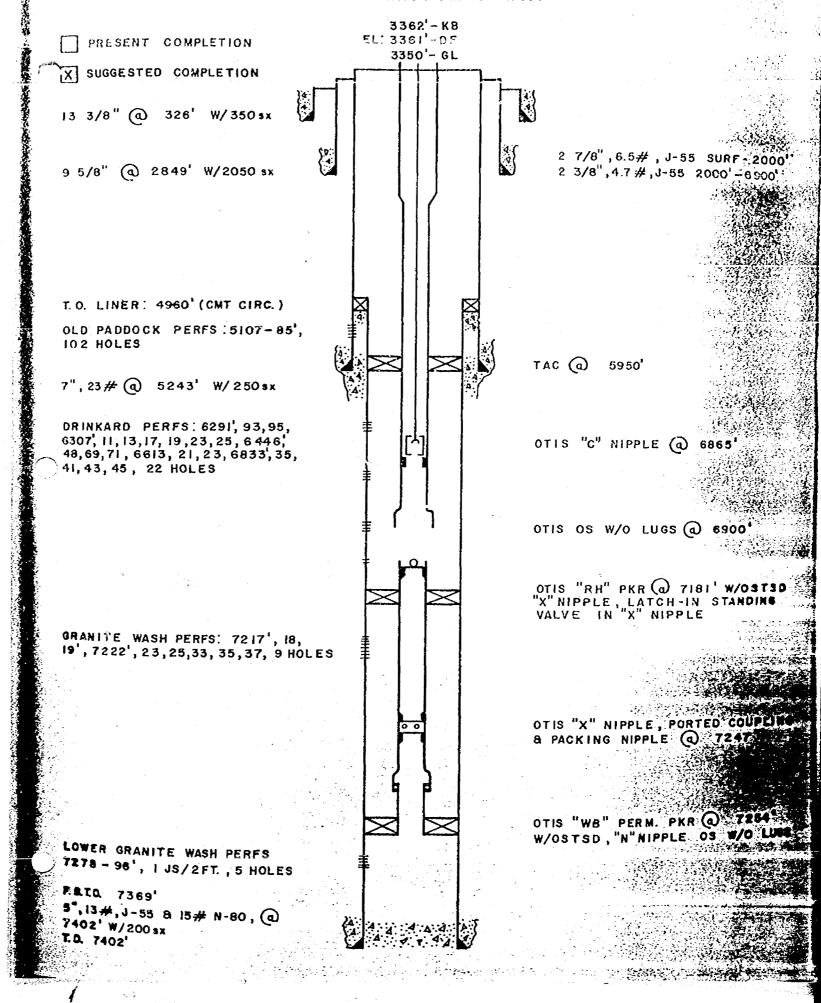
WANTZ GRANITE WASH FIELD SOUTHEAST LEA CO., NEW MEXICO



GAS WELL

ABANDONED





X PRESENT COMPLETION

SUGGESTED COMPLETION

13 3/8" (a) 326' W/350 sx

9 5/6" (W 2849' W/2050 sx

T.O. LINER: 4960' (CMT. CIRC.)

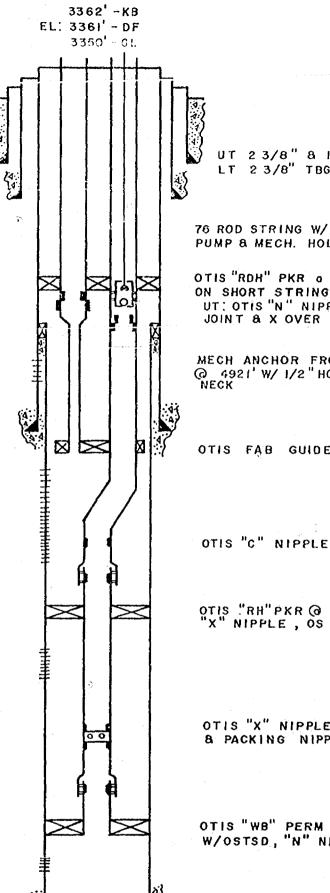
OLD PADDOCK PERFS: 5107'-85, 102 HOLES

7", 23#@ 5243' W/250 sx

RINKARD PERFS: 6291',93,95, 6307',11,13,17,19,23,25,6446', 48,69,71,6613',21,23,6833',35, 41,43,45,22 HOLES

GRANITE WASH PERFS: 7217', 18, 19, 7222', 23', 25, 33,35,37,9 HOLES

LOWER GRANITE WASH PERFS 278'-96, I JS/2FT., 5 HOLES P. B. T. D. 7369' 5", 13#,J-55 & 15#, N-80, @ 7402' W/200sx T.D. 7402



UT 23/8" 8 1" TBG. LT 23/8" TBG.

76 ROD STRING W/1 1/2" INSERT PUMP & MECH. HOLD DOWN

OTIS "RDH" PKR a 4849 W/"J" LATCH ON SHORT STRING (UT)

UT: OTIS "N" NIPPLE, TELESCOPING

JOINT & X OVER TO 1" @ 4860

MECH ANCHOR FROM INSERT PUMP @ 4921' W/ I/2" HOLE & NO FISHING NECK

OTIS FAB GUIDE SHOE @ 6144

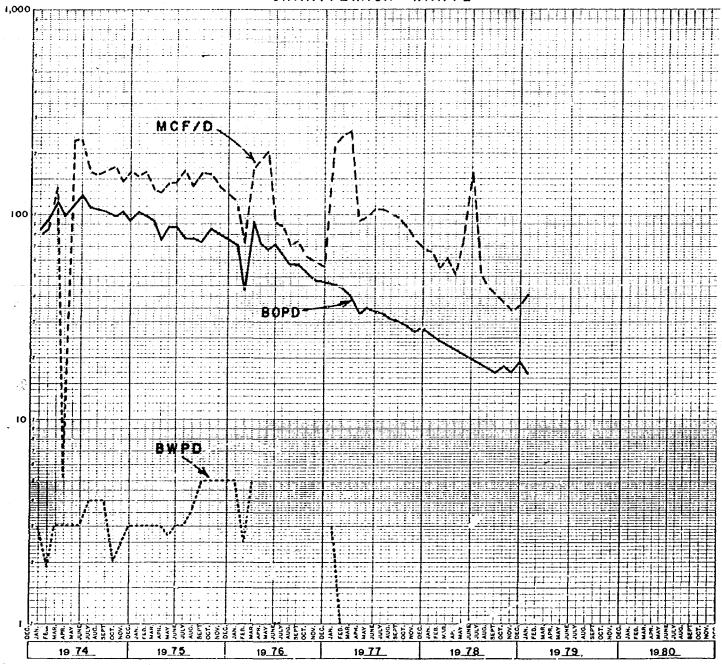
OTIS "C" NIPPLE @ 7148'

OTIS "RH"PKR @ 7181' W/OSTSD, "X" NIPPLE, OS W/O LUGS

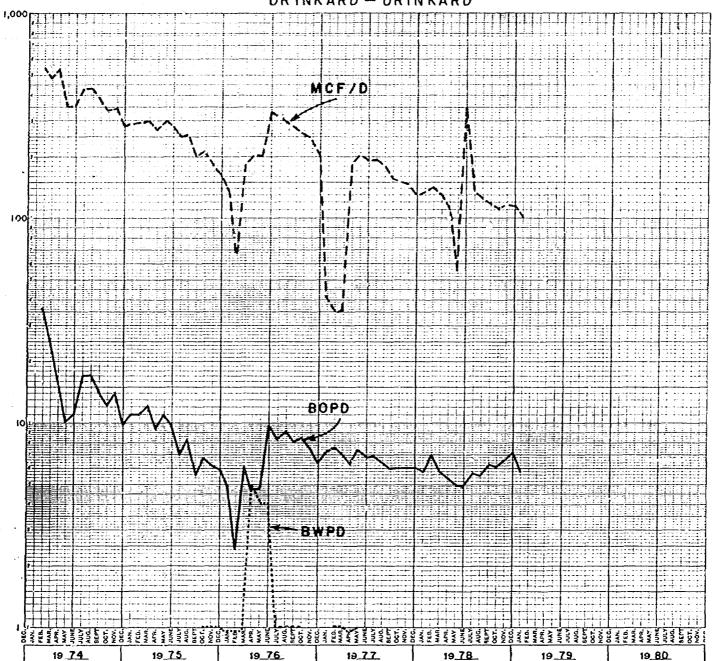
OTIS "X" NIPPLE, PORTED COUPLING 8 PACKING NIPPLE @ 7247

OTIS "WB" PERM PKR @ 7254' W/OSTSD, "N" NIPPLE, OS W/O LUGS

ANNIE CHRISTMAS NO. IL GRANITEWASH - WANTZ



ANNIE CHRISTMAS NO. IU DRINKARD — DRINKARD

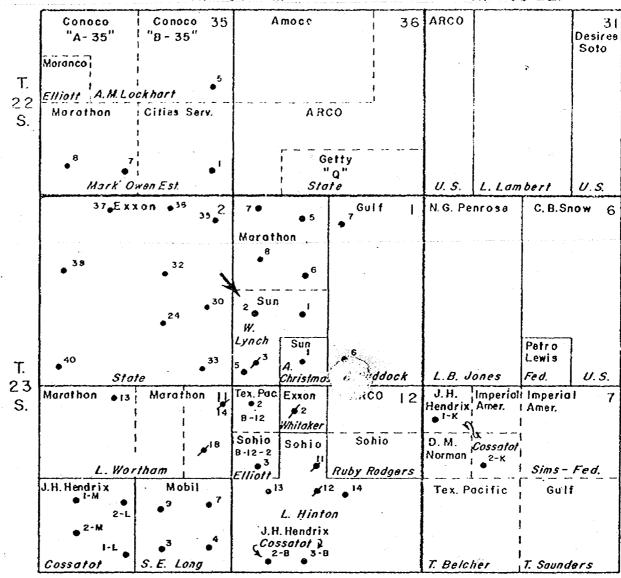


Sin-cooks II A > I (Non Development)						
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The first think the second control of the se		h terres and the season of the	asii a bi	ilikala a	3 Tower Lubing	is more constitutive and the second of the s
& dual w/Paddock	(upper	tubing.)	rachine er marine isange gisanasis			
		·	d and to be the second of probabilities			. As arms to the set with a definition determined one may demand your set which is a designation of a designation of
BEFORE W/O		AFTER W/O				
WELL NAME Lynch 2-1.		ch 2-L	ſ			
WELL CLASSIFICATION TA RESERVOIR NAME Granite Wash		F rinkard				
PERFORATIONS (EL) 7094-7102	~ 	76-6826				
PERFORATION (R/A)	_					
CURRENT CALENDAR ALLOWASLE, B/D						
	7.00	6000 13		De la companya della companya della companya de la companya della		
PROD. TEST:	142	x 6000/1				
DATE			1			
АТ ОООНТЯН КОТОИОСЯ	_					
TOTING PARSSUAE B CHOKE SIZE	50.	# 22/64	<u> </u>			
OIL/COND., BBLS.	_ 3		Ì			
WATER, BBLS. & T OR BBLS./NMCF.	2	40%			-	
GAS, MCF 8 GOR	290					
INPUT GOR & GFR	-[
LAST PHOD. INDEX & DATE					,	
G/L PRESS., MAX. & OPER. ESTIMATED INCOME PER DAY			<u>.</u>	-		
PROCEGURE: 1. Otis rig up lubrica	ton or	a Taylon tub		0 121110		
1. Outs rig up lubrica	itur oi	i lower cub	ing crow	ii vaive.	31 Well.	· · · · · · · · · · · · · · · · · · ·
2. Fish "N" plug in OSI	SD @ 6	5939'. NOTI	E: Be p	repared f	or	
immediate pressure i	ncreas	se.				
3. Run latch in standin	g valv	/e & seat ir	n "N" ni	pple 0 69	939'. РОН.	3
4. RD. Return to Produ	ction.					1.17.19
						-1220 1
				C-	101,103,107	73 / 22
					135 135	
		: 			AP / 6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	<u>-</u>
<u> </u>					7,7	,
HAC AU D	100			tim -		
WAG/HLB RECOMMENDED BY S. A. Gillett)N	ATE 12/11/7	<u>'</u> 8	TO BE US	SED IF REGIONAL APP	PROYAL IS REQUIRED
DIST, ENGR. APPROVAL	≥€	DATE 12/12/7	REG. 6	EOLOGICAL		OATE
OUST, GUOL, APPROVALS	no-	DATE 12/13/	13 REG. E	NCINEERING	1.7	OATE

∮ .:

- 8-45 SPUD
- TD 5220' 10-45 Perf Paddock 5100-60 W/238 holes 4 SPF Acid - 2500 gal. IP 789 BO, 0 BM, 603 MCF, 764 GOR
- 4-59 Acid - 10,000 gal. Before: 6 BO, 0 BW, 49 MCF, 8540 GOR After: 41 BO, 0 BW, 106 MCF, 2570 GOR
- Perf Paddock 5060-62, 73-75, 80-82, 92-96, 2 SPF Frac all w/20,000 Gal ref oil & 20,000# 10-64 Before: 10 80PD After: 31 80, 12 8W, 113 MCF, 1396 GOR
- Deepened NTD 7150' Set liner. Paddock perf behind pipe. Set Otis Perma Latch pkr 0 6939'. Perf G.W. 0 7094-7102, lJS/2Ft., 5 holes. B.D. w/3000 gal oil. FARO 325 MCFD. Set plug in pkr perf Drinkard, 6770, 87, 88, 90, 92, 6801, 16, 20, 24, 25, 26, 11 holes. 6-74 Acid - 1570 gal. Perf Drinkard 6576, 77, 91, 92, 6808, 09, 10, 31 Acid - 1500 gal. Set Otis Perma Latch @ 6408' w/plug Perf Paddock 5018, 25, 26, 29, 31, 46; 6 holes Acid - 1500 gal. Dualed Drinkard & Paddock Drinkard IP 18 BO, 3 BW, 994 MCF, 55,222 GOR

750# FPT on 18/64
Paddock IP: 23 B0, 7 BW, 345 MCF; 15,000 GOR on pump
Before: Paddock - 10 BOPD.



WANTZ GRANITE WASH FIELD SOUTHEAST LEA CO., NEW MEXICO

eso.

OIL WELL

CAS WELL

ABANDONED

SCALE:2" = I MILE

DRINKARD FIELD SOUTHEAST LEA CO., NEW MEXICO

T. Belchei

OIL WELL GAS WELL ABANDONED

SCALE: 2" = 1 MILE

EL:3364' DF 8 KB 3354' GL ~ PRESENT COMPLETION X SUGGESTED COMPLETION 17" HOLE 13 3/8", 40#@ 338' W/ 3509x 12" HOLE λά: | Φ LT: 2 3/8", 4.7#, J-55 W/PARALLEL 9 5/8", 38#@ 2854' W/2100 sx TAC & SEAL DIVIDER OVER SHOT UT: 23/8",4.7#, J-55 W/TURNED DOWN COLLARS SN - 4825 PN - 4826' MA - 4830' BLANKING DISC. IN COLLAR @ 4860 OTIS PARALLEL TBG. ANCHOR @ 4869 TOP OF 5" LINER @ 4896' PADDOCK PERFS: 6 HOLES 5018',25,26,29,31,46 (OLD PADDOCK PERFS: 5060'-62, 73-75,80-82,92-96,2SPF 5100'-60, 4SPF, 238 HOLES) 7", 23#, J-55,@ 5217' W/350sx OTIS PERMA-LACH PKR @ 6478' W/TBG, SEAL DIVIDER & "X" PROFILE NIPPLE (1.791 ID) DRINKARD PERFS: 19 HOLES 6576',77,91,92,6608',09,10,81, 6770',87,88,90,92,6801',16,20,

GRANITE WASH PERFS: 5 HOLES

7094', 96,98,7100',02

PB.T.D. 7110' 5",15#, K-55,FJ@ 7149' W/2009x T.D. 7150' OTIS PERMA-LACH PKR @ 6939' W/S.V. IN SEAL DIVIDERS ("N" PROFILE)

4

24,25,26

EL:3364 DF & KB 3354 GL

X PRESENT COMPLETION

SUGGESTED COMPLETION

17" HOLE

13 3/8", 40 # @ 338' W/ 350 % 12" HOLE

9 5/8", 38# @ 2854' W/ 2100 sx

TOP OF 5" LINER @ 4896"

PADDOCK PERFS: 6 HOLES 5018',25,26,29,31,46 (GLD PADDOCK PERFS: 5060'-62, 73-75,80-82,92-96,2SPF 5100'-60,4SPF,238 HOLES)

7", 23#, J-55, @ 5217' W/350sx

DRINKARD PERFS: 19 HOLES 6576',77,91,92,6608',09,10,81, 6770',87,88,90,92,6801',16,20, 24,25,26

GRANITE WASH PERFS: 5 HOLES. 7094', 96,98,7100',02

P.B.T.O. 7110' 5", 15#, K-55, FJ@ 7149' W/200sx T.D. 7150' LTI 2 3/8", 4.7#, J-55 W/PARALLEL TAC & SEAL DIVIDER OVER SHOT

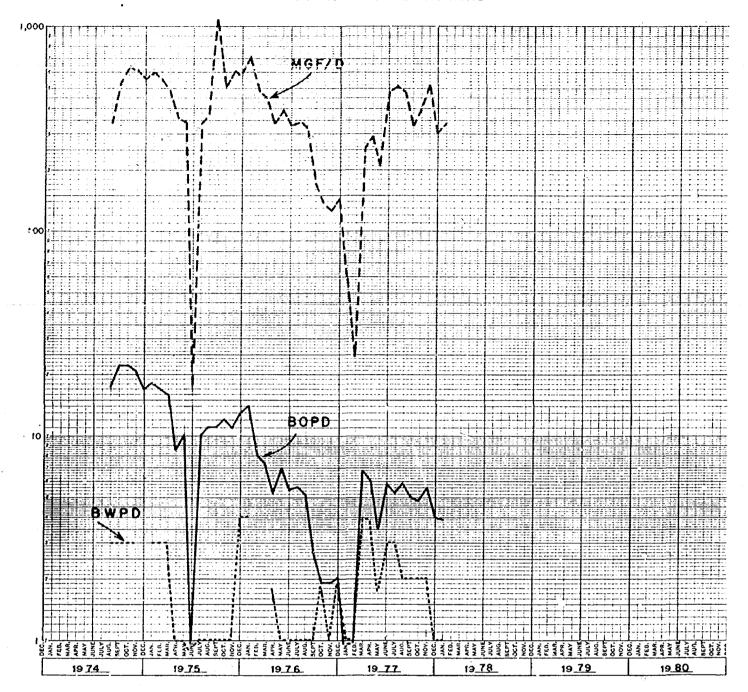
UT: 23/8",4.7#, J-55 W/TURNED DOWN COLLARS SN - 4826' PN - 4826' MA - 4830' BLANKING DISC. IN COLLAR @ 4850'

OTIS PARALLEL TBG. ANCHOR @ 4369'

OTIS PERMA-LACH PKR @ 6478' W/TBG, SEAL DIVIDER & "X" PROFILE NIPPLE (1.791 ID)

OTIS PERMA-LACH PKR @ 6939' W/PLUG IN SEAL DIVIDERS ("N" PROFILE)

WALTER LYNCH NO. 2L DRINKARD - DRINKARD



MONTHLY RATES DRINKARD

	BOPM OTL	MCFPM GAS	BWPM WATER	BHP PSIG DATE
Amoco Production Co. 9F 3621S37E State C Tr. 13	24	78	31	8
Atlantic Richfield 1M 3621S37E State 367 2L 3621S37E State 367	79 7 9	4788 4788	9 9	
Cities Service Co. 1P 3521S37E	ABANI ABANI ABANI TA	ONED		
Continental Oil Co. 1D 3521S37E Lockhart A 35 2F 3521S37E Lockhart A 35 3C 3521S37E Lockhart A 35(GW)	62 Abani	867 DONED 2156	31	
16 3521S37E Lockhart B 35 2B 3521S37E Lockhart B 35 3H 3521S37E Lockhart B 35 4A 3521S37E Lockhart B 35	ABANE ABANE 116 116	OONED	309 0	
Exxon Corp. 12A 222S37E New Mexico S(GW) 13B 222S37E New Mexico S(GW) 14C 222S37E New Mexico S(GW) 16D 222S37E New Mexico S(GW) 20E 222S37E New Mexico S(GW)	206 126 95 0 103	27168 22893 17519 8431 26214	0 0 0 0	
21L 222S37E New Mexico S(GW) 22M 222S37E New Mexico S(GW) 24J 222S37E New Mexico S(GW) 25N 222S37E New Mexico S(GW) 27K 222S37E New Mexico S(GW)	52 0 31	15415 15538 19838 4431	0 0 0	
28F 222S37E New Mexico S(GW) 29L 222S37E New Mexico S(GW) 30I 222S37E New Mexico S(GW) 31H 222S37E New Mexico S(GW) 32G 222S37E New Mexico S(GW) 33D 222S37E New Mexico S(GW)	0 0 0 SI 26	21158 7323 11138 2-77 6861	0 0 0 0	
33P 222S37E New Mexico S(GW) 340 222S37E New Mexico S(GW) 2C 1222S37E Whitaker Perkins Gulf Corp.	103	19815 27100	0 0	
10 722538E H. P. Sanders 2J 722538E H. P. Sanders	135 749	616 567	0 20	

-		BOPM OIL	MCFTH GAS	BWAT MATER	BHP PSIG DATE
				the state of the s	The second secon
John H. Hen 16 1222537E 1B 1222537E 2A 1222537E 10 1222537E 2M 1222537E 3N 1222537E	Cossatot Cossatot A Cossatot A Cossatot B Cossatot B	821 300 282 308 257 231	26409 2569 2568 6754 6754 6755	31 31 0 31 0 31	
2J 1122S37E 1N 1122S37E 2M 1122S37E 3K 1122S37E 4L 1122S37E		96 7 9 9 6	28775 11530 11530 11530 11529	31 31 0 0 31	•
	hary Oper. Co.				
2K 622533E 1C 722538E 1B 722538E	erican Mgmt. Co. L. B. Jones McAllister Sims Federal	P&A 90 TA	176	155	• •
Mabee Petro 1M 722S38E		60	2866	10	
Marathon Oi	1 Co.				
1L 3521S37E 2M 3521S37E 3N 3521S37E 4K 3521S37E	Mark Owens (GW) Mark Owens (GW) Mark Owens (GW) Mark Owens (GW)	15 14 14 28	38641 12926 26468 36000	0 0 0 0	924 11-77 987 11-77
9E 1122\$37E 10D 1122\$37E 11F 1122\$37E 12H 1122\$37E	Lou Wortham Lou Wortham (GW) Lou Wortham (GW) Lou Wortham (GW)	ABANDONED 14 14 ABANDONED	30141 5689	0 0	
	Lou Worhtam (GW) Lou Wortham (GW) Lou Wortham (GW)	27 27 0	20745 23313 1693	0 0 0	
50 1122S37E 6P 1122S37E	S. E. Long (GW) S. E. Long (GW) S. E. Long (GW)	44 ABANDONED 41	7325 12365	41 41	529 11 <i>-</i> 77
7I 1122S37E	S. E. Long (GW)	89	24708	41	968 11-77
Moranco 1E 3521S37E	E. M. Elliott (GW)	30	5992	3	
Pan American 5E 3621S37E 8D 3621S37E	Corp. State C Tr. 13 State C Tr. 13	ABANDONED ABANDONED		/1	
Penrose-Zacha 9I 1222537E 1M 622538E		468 155	5670 0	186 15	994 12-77

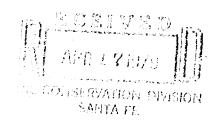
	BOPM OTL	MCFPA GAS	BWATER	BHP PSIG DAT	E
	Commence of the second				
Sohio Petroleum Co.			-		
3E 1222S37E Elliott B-12-2	88	2754	36		
11F 1222S37E Hinton	126	6306	12		
12K 1222S37E Hinton	148	12521	36	-	
13L 1222S37E Hinton	68	1802	0		
14J 1222S37E Hinton	272	2939	90		
2H 1222537E Rodgers	160	1698	14		
Sun Dil Company					v
1N 122S37E Annie Christmas	224	3554	0	1109	11-74
1K 122S37E Walter Lynch	274	10867	124		
2L 122S37E Walter Lynch	118	8832	0	1426	11-76
3M 122S37E Walter Lynch	396	11860	155		
Texas Pacific Oil Co. Inc.	** *****				
1L 722S37E Belcher	120	1712	62		
2D 1222S37E Elliott B-12 (GW)	0	14738	0		
Tidewates Oil Co.	ABANDO	NED			
IN 3621S37E State 0	RUMHDUI	120			

WANTZ - GRANITE WASH

	BOPM OIL	MCFPM GAS	BWPM WATER	. BHP PSIG DATE
Cities Service Co. 1P 3521S37E Owen	1453	6074	0	
Continental Oil Co. 5H 3521S37E Lockhart B-35	193	525	0	
Exxon Corp. 2C 1222537E Whitaker & Perkins	ABANDONEO			
Gulf Cil Corp. 60 122537E Alice Paddock 78 122537E Alice Paddock	ABANDONED 100	466	120	,
John Hendrix Corp. 1N 1122S37E Cossatot L 2K 1122S37E Cossatot L 2M 1222S37E Cossatot B	460 564 181	5071 5071 2376	31 31 31	917 5-77
3N 1222S37E Cossatot B 1D 722S37E Cossatot K 2F 722S37E Cossatot K 1L 1122S37E Cossatot M	128 384 424 329	2375 1494 1494 2705	31 31 31 31	936 5-77
2M 1122S37E Cossatot M Marathon Oil Co.	354	2705	31	1287 5-77
5C 122S37E Walter Lynch 6F 122S37E Walter Lynch 7D 122S37E Walter Lynch 8E 122S37E Walter Lynch 7N 3521S37E Mark Owen 8M 3521S37E Mark Owen 13C 1122S37E Lou Wortham 14A 1122S37E Lou Wortham 18H 1122S37E Lou Wortham	324 429 386 295 755 123 ABANDONED ABANDONED	5239 6158 5650 370 1150 4821	0 43 0 0 0	1822 5-77
Mobil Oil Corp. 3D 1122S37E S. E. Long 4P 1122S37E S. E. Long 7I 1122S37E S. E. Long 9J 1122S37E S. E. Long	1167 416 682 ABANDONED	2998 591 11650	37 82 26	
Sohio Petroleum Co. 3E 1222S37E Elliott B-12-2 11F 1222S37E Hinton	679 ABANDONED	3222	66	1369 5-77 1059 5-77
12K 1222S37E Hinton 13L 1222S37E Hinton 14J 1222S37E Hinton	ABANDONED 716 621	7438 2362	190 50	1886 5-76 1206 5-77

ng sa sa sa kanana na manana na ma	BOPM OIL	MCFPM GAS	BWPM WATER	BHP PSIG DATE
Sun Oil Co.				
1N 1222S37E Annie Christm		1103	0	
1K 1222S37E Walter Lynch 3M 1222S37E Walter Lynch	1461 Abandoned	8770	0	
5M 1222S37E Walter Lynch	639	5029	O	
Texas Pacific Oil Co. 2D 1222S37E Elliott B-12	4057	9684	0	
Exxon Corp.	`			
24J 222S37E New Mexico	ABANDONED	;		
30I 222S37E New Mexico	26	93	0	
32G 222S37E New Mexico	309	286		
33P 222S37E New Mexico	463	1384	0	
35A 222S37E New Mexico	618	66	14	
36B 222S37E New Mexico	-258	208	26	·
37C 222S37E New Mexico	489	133	128	
38E 222S37E New Mexico	618	803	155	
40M 222S37E New Mexico	103	147	0	

STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT OIL CONSERVATION DIVISION



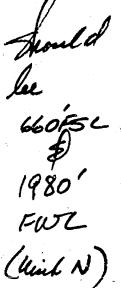
IN THE MATTER OF THE APPLICATION OF SUN OIL COMPANY FOR AN INCREASE IN CASINGHEAD GAS ALLOWABLE. LEA COUNTY, NEW MEXICO.

Case 6542

APPLICATION

Comes now SUN OIL COMPANY, by and through its attorneys and seeks an increase in the casinghead gas allowable, an exception for the NMOCD Rule 303-C-4, for its Annie Christmas #1 well and in support thereof would show:

- 1. Applicant is the operator of the Annie Christmas #1 Well located 1660 feet from the South line and 1980 feet from the West line, Unit N, of Section 1, T22S, R37E, Lea County, New Mexico.
- 2. Said well is currently downhole commingled in the Drinkard and Wantz Granite Wash zones and is subject to a GOR limit for the Wantz Granite Wash Pool.
- 3. Applicant will present testimony to demonstrate that an exception to Rule 303-C-4 for this well will not cause over production of casinghead as from either the Drinkard Zone or the Granite Wash Zone.
- 4. That the assignment of such special casinghead as allowable will better permit the applicant to recover its share of the oil and gas production in each of said zones, will not cause waste and will not violate correlative rights.



Wherefore applicant requests that this matter be set before the Division's Examiner and that after notice and hearing this application be granted as requested.

KELLAHIN & KELLAHIN

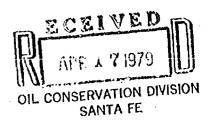
By Thomas &

STATE OF NEW MEXICO

ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION

IN THE MATTER OF THE APPLICATION OF SUN OIL COMPANY FOR AN INCREASE IN CASINGHEAD GAS ALLOWABLE. LEA COUNTY, NEW MEXICO.



Ccise 6542

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KELLAHIN & KELLAHIN

W. Thomas Kellahi

STATE OF NEW MEXICO

ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION

OIL CONSERVATION DIVISION SANTA FE

IN THE MATTER OF THE APPLICATION OF SUN OIL COMPANY FOR AN INCREASE IN CASINGHEAD GAS ALLOWABLE. LEA COUNTY, NEW MEXICO

Case 6542

APPLICATION

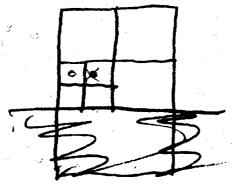
Comes now SUN OIL COMPANY, by and through its attorneys and seeks an increase in the casinghead gas allowable, an exception for the NMOCD Rule 303-C-4, for its Walter Lynch #2 Well and in support thereof would show:

Well located 1660 feet from the West line and 1980 feet from the South line, Unit L, of Section 1, T22S, R37E, Lea County, New Mexico.

New Mexico.

2. Said well is currently downhole commingled in the GOFWC Drinkard and Wantz Granite Wash Zones and is subject to a GOR limit for the Wantz Granite Wash Pool.

- 3. Applicant will present testimony to demonstrate that an exception to Rule 303-C-4 for this well will not cause over production of casinghead as from either the Drinkard Zone or the Granite Wash Zone.
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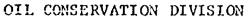
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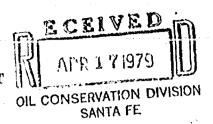
KELLAHIN & KELLAHIN

W. Thomas Kellahin

STATE OF NEW MEXICO

ENERGY AND MINERALS DEPARTMENT





IN THE MATTER OF THE APPLICATION OF SUN OIL COMPANY FOR AN INCREASE IN CASINGHEAD GAS ALLOWABLE. LEA COUNTY, NEW MEXICO

Case 6542

APPLICATION

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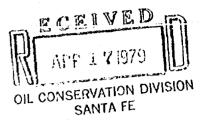
- 1. Applicant is the operator of the Walter Lynch #2 Well located 1660 feet from the West line and 1980 feet from the South line, Unit L, of Section 1, T22S, R37E, Lea County, New Mexico.
- 2. Said well is currently downhole commingled in the Drinkard and Wantz Granite Wash Zones and is subject to a GOR limit for the Wantz Granite Wash Pool.
- 3. Applicant will present testimony to demonstrate that an exception to Rule 303-C-4 for this well will not cause over production of casinghead as from either the Drinkard Zone or the Granite Wash Zone.
- 4. That the assignment of such special casinghead as allowable will better permit the applicant to recover its share of the oil and gas production in each of said zones, will not cause waste and will not violate correlative rights.

Wherefore applicant requests that this matter be set before the Division's Examiner and that after notice and hearing this application be granted as requested.

KELLAHIN & KELLAHIN

W. Thomas Kellahin

STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT OIL CONSERVATION DIVISION



IN THE MATTER OF THE APPLICATION OF SUN OIL COMPANY FOR AN INCREASE IN CASINGHEAD GAS ALLOWABLE. LEA COUNTY, NEW MEXICO

Case 6542

APPLICATION

Comes now SUN OIL COMPANY, by and through its attorneys and seeks an increase in the casinghead gas allowable, an exception for the NMOCD Rule 303-C-4, for its Walter Lynch #2 Well and in support thereof would show:

- 1. Applicant is the operator of the Walter Lynch #2 Well located 1660 feet from the West line and 1980 feet from the South line, Unit L, of Section 1, T22S, R37E, Lea County, New Mexico.
- 2. Said well is currently downhole commingled in the Drinkard and Wantz Granite Wash Zones and is subject to a GOR limit for the Wantz Granite Wash Pool.
- 3. Applicant will present testimony to demonstrate that an exception to Rule 303-C-4 for this well will not cause over production of casinghead as from either the Drinkard Zone or the Granite Wash Zone.
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Wherefore applicant requests that this matter be set before the Division's Examiner and that after notice and hearing this application be granted as requested.

KELLAHIN & KELLAHIN

W. Thomas Kellahir

JASON W. KELLAHIN W, THOMAS KELLAHIH KAREN AUBREY

KELLAHIN and KELLAHIN

ATTORNEYS AT LAW BOO DON GABPAR AVENUE P. O. BOX 1769 SANTA FE, NEW MEXICO 87501

combunde into one core Open

April 16, 1979

OIL CONSERVATION DIVISION SANTA FE

Mr. Joe Ramey Oil Conservation Division P. 0. Box 2088 Santa Fe, New Mexico 87501

Re: Sun Oil Company

Dear Joe:

Please find THREE cases enclosed for hearing on May 9, 1979:

Application for special casinghead gas allowable for Annie Christmas Well No. 1.

Application for special casinghead gas (b) allowable for Walter Lynch Well No. 2.

Application for unorthodox well location and simultaneous dedication for the N.M. "H" State Well No. 17.

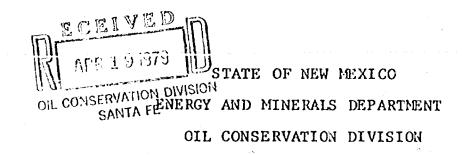
Very truly yours,

W. Thomas Kellahin

no since francau, WTK:eps

Enclosures

cc: Mr. J. T. Harris



IN THE MATTER OF THE APPLICATION OF SUN OIL COMFANY FOR AN INCREASE IN CASINGHEAD GAS ALLOWABLE. LEA COUNTY, NEW NEXICO.

APPLICATION

Comes now SUN OIL COMPANY, by and through its attorneys and seeks an increase in the casinghead gas allowable, an exception for the NMOCD Rule 303-C-4, for its Annie Christmas #1 well and in support thereof would show:

- 1. Applicant is the operator of the Annie Christmas #1 Well located 1660 feet from the South line and 1980 feet from the West line, Unit N, of Section 1, T22S, R37E, Lea County, New Mexico.
- 2. Said well is currently downhole commingled in the Drinkard and Wantz Granite Wash zones and is subject to a GOR limit for the Wantz Granite Wash Pool.
- 3. Applicant will present testimony to demonstrate that an exception to Rule 303-C-4 for this well will not cause over production of casinghead as from either the Drinkard Zone or the Granite Wash Zone.
- 4. That the assignment of such special casinghead as allowable will better permit the applicant to recover its share of the oil and gas production in each of said zones, will not cause waste and will not violate correlative rights.

Wherefore applicant requests that this matter be set before the Division's Examiner and that after notice and hearing this application be granted as requested.

KELLAHIN & KELLAHIN

W. Thomas Kellahin

STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT OIL CONSERVATION DIVISION

IN THE MATTER OF THE APPLICATION OF SUN OIL COMPANY FOR AN INCREASE IN CASINGHEAD GAS ALLOWABLE. LEA COUNTY, NEW MEXICO

APPLICATION

Comes now SUN OIL COMPANY, by and through its attorneys and seeks an increase in the casinghead gas allowable, an exception for the NMOCD Rule 303-C-4, for its Walter Lynch #2 Well and in support thereof would show:

- 1. Applicant is the operator of the Walter Lynch #2 Well located 1660 feet from the West line and 1980 feet from the South line, Unit L, of Section 1, T22S, R37E, Lea County, New Mexico.
- 2. Said well is currently downhole commingled in the Drinkard and Wantz Granite Wash Zones and is subject to a GOR limit for the Wantz Granite Wash Pool.
- 3. Applicant will present testimony to demonstrate that an exception to Rule 303-C-4 for this well will not cause over production of casinghead as from either the Drinkard Zone or the Granite Wash Zone.
- 4. That the assignment of such special casinghead as allowable will better permit the applicant to recover its share of the oil and gas production in each of said zones, will not cause waste and will not violate correlative rights.

Wherefore applicant requests that this matter be set before the Division's Examiner and that after notice and hearing this application be granted as requested.

KELLAHIN & KELLAHIN

W. Thomas Kellahi

BEFORE THE

ENEPTY AND MINERAL DEPARTMENT OIL CONSERVATION DIVISION

IN THE MATTER OF THE APPLICATION OF SUN OIL COMPANY FOR UNORTHODOX WELL LOCATION AND SIMULTANEOUS DEDICATION OF ACREAGE, CHAVES COUNTY, NEW MEXICO

AFPLICATION

Comes now SUN OIL COMPANY, by and through its attorneys and applies to the Oil Conservation Division of New Mexico for authority to drill a San Andres Well at an unorthodox location and to simultaneously dedicate subject well to acreage already dedicated to a producing San Andres well; and in support would show the Division:

- 1. Applicant is the owner of the right to drill on the NE/4 SW/4 NE/4 of Section 16, T8S, R30E, NMPM, Chaves County, New Mexico.
- 2. Applicant is the operator of an existing well on the same unit, ie: N.M. "H" State Well No. 7 located in approximate center SW/4 NE/4 of Section 16.
- 3. Applicant proposes to drill a second well called the New Mexico "H" State Well No. 17, located in Unit G, 1336 feet from the East Line and 1328 feet from the North line of Section 16, T8S, R30E, Cato-San Andres Field, Chaves County, New Mexico, an unorthodox location.
- 4. Applicant further seeks to dedicate the NE/4 SW/4 NE/4 to the subject well.

5. Approval of the application will produce oil that could not otherwise be produced, prevent waste, protect correlative rights and be in the interest of conservation.

WHEREFORE applicant requests that this application be set for hearing before the Division's examiner and that after notice and hearing, an order be entered granting the application as requested.

KELLAHIN & KELLAHIN

W. Thomas KelVahir

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:

\cdot .
CASE NO. 6542
Order No. <u>R-6.008</u>
APPLICATION OF SUN OIL COMPANY FOR SPECIAL CASINGHEAD GAS ALLOWABLES, LEA COUNTY, NEW MEXICO.
ORDER OF THE DIVISION
BY THE DIVISION:
This cause came on for hearing at 9 a.m. on May 9
9 79 , at Santa Fe, New Mexico, before Examiner Daniel S. Nutter
NOW, on this day of May . 1979 , the
ivision Director, having considered the testimony, the record,
and the recommendations of the Examiner, and being fully advised
n the premises, FINDS:
(1) That due public notice having been given as required
y law, the Division has jurisdiction of this cause and the
ubject matter thereof.

(2) That the applicant, Sun Oil Company, seeks an exception to

Well No. 1 and its Walter Lynch Well No. 2, located in Units N and L,

Rule 303-C-4 to increase the casinghead gas allowable for its Annie Christmas

(3) That the applicant proposes to sommingle production from the Drinkard gone and the Granite back zone in sach of said wells pursuant to administrative approved issued under the provisions of Rule 3030 of the Division Case No. 6542 (4) That said Know 303C provides that production Order No. R- grow a well so commingled shall be suffich to the lower of the daily gas oil ratio limitations applicance to the reservoirs. respectively, of Section 1, Township 22 South, Range 37 East, Drinkard and Wantz-Granite Wash Pool, Lea County, New Mexico. (b) That the daily casinghead allowables for said Drinkard and Granite Wash zones are 852 MCF and 374 MCF, respectively. (G) That the applicant proposes a casinghead allowable pardoy for the aforesaid Warren dynah were no. 2 a subject wells of 900 MCF and 500 MCF per 900_ for the aforesaid annie Christmas well 420. 1 respectively, of gas per day, based upon an allow MCF and MCF per day for the Granite Wash zone 852 MCF par day is a kear DEEL (10. 2, an (9)(6-) That the assignment of such special casinghead gas allowableswill better permit the applicant to recover its share of the oil and gas production in each of said zones, will not cause waste, and will not violate correlative rights. (10) (7) That the application should be approved. IT IS THEREFORE ORDERED: (1) That Sun Oil Company is hereby granted a special casinghead gas allowable of _500 MCF MCF for the Drinkard zone an

-zone) for its Annie Christmas Well No. 1 For its Walter Lynch Well No. 2, located in Units N and L, respectively, of Section 1, Township 22 South, Range 37 East, Drinkard and Wantz-Granite Wash Pools, Lea County, New Mexico. Case No. 6542 Order No. R-

above designated.

el no 2, and

(2) That any provisions of the Division's dated February DHC-272 conflict herewith are hereby continued in full force and effect.

(3) 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 herein-