

CASE 3567: Application of TENNECO
OIL CO. for a dual completion of
its HOSPAH WELL NO. 10.

CASE No.
3567

Application,
TRANSCRIPTS,
SMALL Exhibits
ETC.

GOVERNOR
DAVID F. CARGO
CHAIRMAN

State of New Mexico
Oil Conservation Commission



LAND COMMISSIONER
GUYTON B. HAYS
MEMBER

P. O. BOX 2088
SANTA FE

STATE GEOLOGIST
A. L. PORTER, JR.
SECRETARY - DIRECTOR

May 9, 1967

Mr. Charles White
White, Gilbert, Koch & Kelly
Attorneys at Law
Post Office Box 787
Santa Fe, New Mexico

Re: Case No. 3567
Order No. R-3231
Applicant:
TENNECO OIL COMPANY

Dear Sir:

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

Very truly yours,

A. L. Porter, Jr.
A. L. PORTER, Jr.
Secretary-Director

ALP/ir

Carbon copy of order also sent to:

Hobbs OCC x
Artesia OCC
Aztec OCC x
Other _____

BEFORE THE OIL CONSERVATION COMMISSION
OF THE STATE OF NEW MEXICO

IN THE MATTER OF THE HEARING
CALLED BY THE OIL CONSERVATION
COMMISSION OF NEW MEXICO FOR
THE PURPOSE OF CONSIDERING:

CASE No. 3567
Order No. R-3231

APPLICATION OF TENNECO OIL COMPANY
FOR A DUAL COMPLETION, MCKINLEY COUNTY,
NEW MEXICO.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 a.m. on May 3, 1967,
at Santa Fe, New Mexico, before Examiner Daniel S. Nutter.

NOW, on this 8th day of May, 1967, the Commission, a
quorum being present, 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 Commission has jurisdiction of this cause and the subject
matter thereof.

(2) That the applicant, Tenneco Oil Company, seeks authority
to complete its Hospah Well No. 10, located in Unit C of Section
12, Township 17 North, Range 9 West, NMPM, McKinley County, New
Mexico, as a dual completion (conventional) to produce oil from
the South Hospah Lower Sand Oil Pool and gas from an undesignated
Dakota pool through parallel strings of 2 3/8-inch tubing, with
separation of zones by a packer set at approximately 2449 feet.

(3) That the mechanics of the proposed dual completion
are feasible and in accord with good conservation practices.

(4) That approval of the subject application will prevent
waste and protect correlative rights.

-2-

CASE No. 3567

Order No. R-3231

IT IS THEREFORE ORDERED:

(1) That the applicant, Tenneco Oil Company, is hereby authorized to complete its Hospah Well No. 10, located in Unit C of Section 12, Township 17 North, Range 9 West, NMPM, McKinley County, New Mexico, as a dual completion (conventional) to produce oil from the South Hospah Lower Sand Oil Pool and gas from an undesignated Dakota pool through parallel strings of 2 3/8-inch tubing, with separation of zones by a packer set at approximately 2449 feet;

PROVIDED HOWEVER, that the applicant shall complete, operate, and produce said well in accordance with the provisions of Rule 112-A of the Commission Rules and Regulations insofar as said rule is not inconsistent with this order;


PROVIDED FURTHER, that the applicant shall take packer-leakage tests upon completion and annually thereafter during the Annual Deliverability Test Period for the Dakota gas pool.

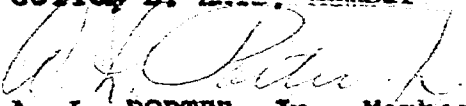
(2) That jurisdiction of this cause is retained for the entry of such further orders as the Commission may deem necessary.

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

STATE OF NEW MEXICO
OIL CONSERVATION COMMISSION


DAVID F. CARGO, Chairman


GUYTON E. HAYS, Member


A. L. PORTER, Jr., Member & Secretary

S E A L

esr/

Docket No. 13-67

DOCKET: EXAMINER HEARING - WEDNESDAY - MAY 3, 1967

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

The following cases will be heard before Daniel S. Nutter, Examiner, or Elvis A. Utz, Alternate Examiner:

CASE 3567: Application of Tenneco Oil Company for a dual completion, McKinley County, New Mexico. Applicant, in the above-styled cause, seeks approval for the dual completion (conventional) of its Hospah Well No. 10 located in Unit C of Section 12, Township 17 North, Range 9 West, to produce oil from the South Hospah Lower Sand Oil Pool and gas from an undesignated Dakota pool through parallel strings of tubing.

CASE 3556: (Continued and readvertised)

Application of Southland Royalty Company for an unorthodox gas well location, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to drill a proposed Devonian gas test well at an unorthodox gas well location 660 feet from the North and West lines of Section 20, Township 25 South, Range 35 East, Lea County, New Mexico. The well would be dedicated to the N/2 of said Section 20.

CASE 3568: Application of Pubco Petroleum Corporation for compulsory pooling and an unorthodox location, San Juan County, New Mexico. Applicant, in the above-styled cause, seeks an order force-pooling all mineral interests in the Basin-Dakota Gas Pool underlying Lots 1, 2, 3, and 4 and the S/2 of the N/2 of Section 1, Township 29 North, Range 13 West, San Juan County, New Mexico, to be dedicated to a well to be drilled at an unorthodox location for said pool 1040 feet from the North line and 360 feet from the East line of said Section 1.

Docket No. 14-67

DOCKET: EXAMINER HEARING - WEDNESDAY - MAY 10, 1967

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

The following case will be heard before Daniel S. Nutter, Examiner, or Elvis A. Utz, Alternate Examiner:

CASE 3569: Application of American Trading and Production Corporation for a unit agreement, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval of the Southeast Lea Unit Area comprising 2,080 acres, more or less, of State lands in Township 20 South, Range 35 East, Lea County, New Mexico.

NEW MEXICO OIL CONSERVATION COMMISSION
SANTA FE, NEW MEXICO
APPLICATION FOR MULTIPLE COMPLETION

Form C-107
5-1-61

Operator Tenneco Oil Company		County McKinley	Date April 11 1967
Address P. O. Box 1714, Durango, Colorado 81301		Lease Hospah	Well No. 10
Location of Well C	Unit 12	Township 17-N	Range 9-W

1. Has the New Mexico Oil Conservation Commission heretofore authorized the multiple completion of a well in these same pools or in the same zones within one mile of the subject well? YES _____ NO X

2. If answer is yes, identify one such instance: Order No. _____; Operator Lease, and Well No.: _____

3. The following facts are submitted:	Upper Zone	Intermediate Zone	Lower Zone
a. Name of Pool and Formation	So. Hospah Lower Sand		Undesignated Dakota
b. Top and Bottom of Pay Section (Perforations)	1640		2736-2498
c. Type of production (Oil or Gas)	Oil		Gas
d. Method of Production (Flowing or Artificial Lift)	Pump		Flowing

4. The following are attached. (Please check YES or NO)

- | | | |
|-------------------------------------|--------------------------|---|
| Yes | No | |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | a. Diagrammatic Sketch of the Multiple Completion, showing all casing strings, including diameters and setting depths, centralizers and/or turbolizers and location thereof, quantities used and top of cement, perforated intervals, tubing strings, including diameters and setting depth, location and type of packers and side door chokes, and such other information as may be pertinent. |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | b. Plat showing the location of all wells on applicant's lease, all offset wells on offset leases, and the names and addresses of operators of all leases offsetting applicant's lease. |
| <input type="checkbox"/> | <input type="checkbox"/> | c. Waivers consenting to such multiple completion from each offset operator, or in lieu thereof, evidence that said offset operators have been furnished copies of the application.* |
| <input type="checkbox"/> | <input type="checkbox"/> | d. Electrical log of the well or other acceptable log with tops and bottoms of producing zones and intervals of perforation indicated thereon. (If such log is not available at the time application is filed it shall be submitted as provided by Rule 112-A.) |

5. List all offset operators to the lease on which this well is located together with their correct mailing address.

Tesoro Petroleum - 533 Busby Drive, San Antonio, Texas

Walker Brothers - P. O. Box 18715, Oklahoma City, Oklahoma

Tidewater Oil Company, P. O. Box 1960, Durango, Colorado

Thomas D. Chase - P. O. Box 2072, Santa Fe, New Mexico

Kennedy & Lunt - 2162 Crestview Drive, Durango, Colorado

6. Were all operators listed in Item 5 above notified and furnished a copy of this application? YES X NO _____. If answer is yes, give date of such notification **April 6, 1967**.

CERTIFICATE: I, the undersigned, state that I am the **Senior Production Clerk** of the **Tenneco Oil Company** (company), and that I am authorized by said company to make this report; and that this report was prepared under my supervision and direction and that the facts stated therein are true, correct and complete to the best of my knowledge.

DOCKET MAILED

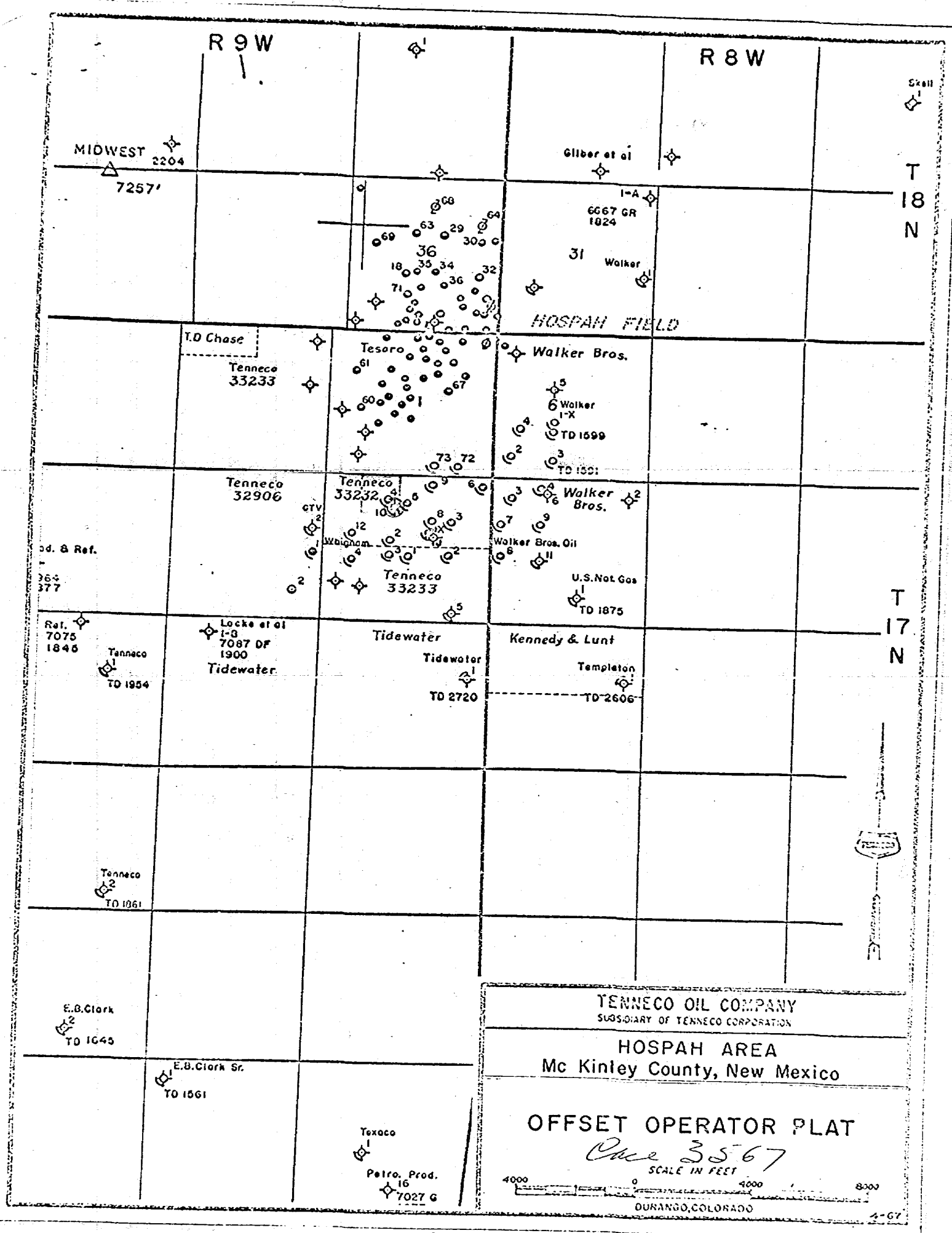
Date

G. A. Ford

Signature

*Should waivers from all offset operators not accompany an application for administrative approval, the New Mexico Oil Conservation Commission will hold the application for a period of twenty (20) days from date of receipt by the Commission's Santa Fe office. If, after said twenty-day period, no protest nor request for hearing is received by the Santa Fe office, the application will then be processed.

NOTE: If the proposed multiple completion will result in an unorthodox well location and/or a non-standard proration unit in one or more of the producing zones, then separate application for approval of the same should be filed simultaneously with this application.



TENNECO OIL COMPANY

Durango District

Well Name: HOSPAH

Well Number: 10

Location: 1650 FNL 2051 FEL

Sec. 12 Twp. 17N Rge. 9W

County: McKinley

State: New Mexico

Elev. 6979

2 - 10' 2-3/8" Pup Joints

50 Jts 2-3/8" x 4.70#, J-55

90 Jts 7' x 20# J-55

1st. STAGE CMT:

380³ Class "C" W/Koalite, TIC
& Clinton Flake
Top of cmt 950'.

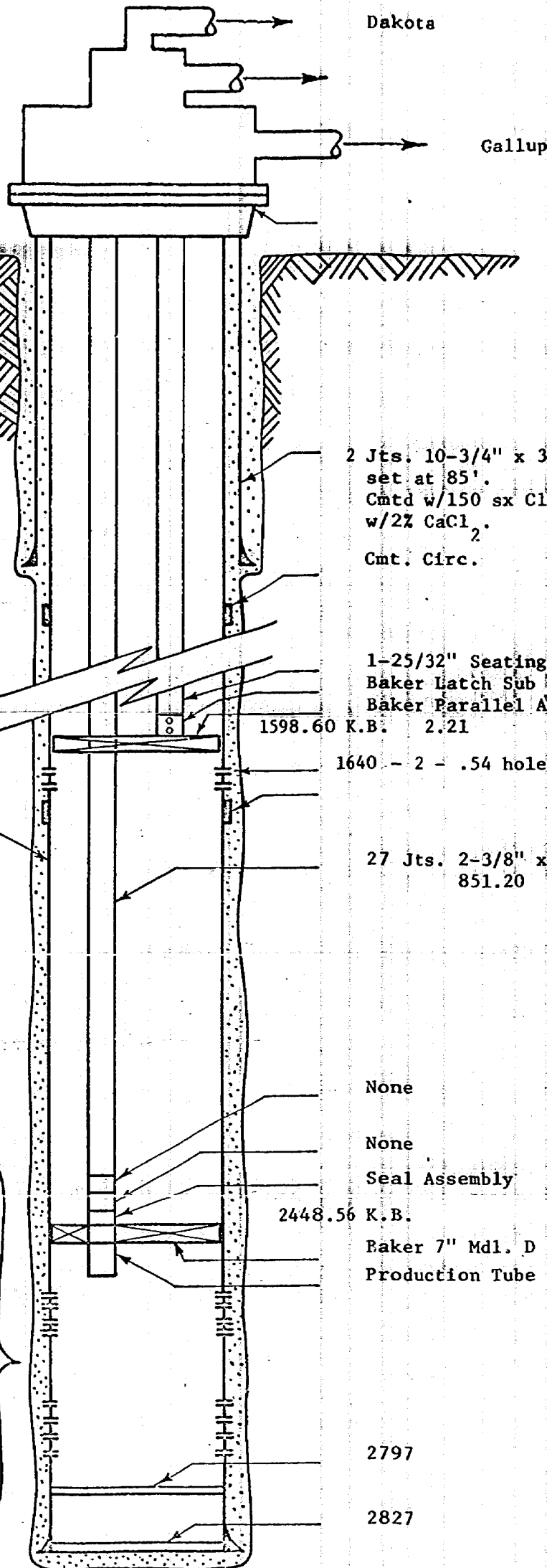
2nd. STAGE CMT:

3rd. STAGE CMT:

PERFS:

2498-2501 - 3 holes
2504-2508 - 4 holes
2584-2602 - 18 holes
2647-2654 - 7 holes
2659-2668 - 9 holes
2736-2739 - 3 holes
2740-2742 - 2 holes
2745-2750 - 10 holes

TO 2827



2 Jts. 10-3/4" x 32.75# H-40
set at 85'.
Cmtd w/150 sx Class "C"
w/2% CaCl₂.
Cmt. Circ.

1-25/32" Seating Nipple
Baker Latch Sub
Baker Parallel Anchor
1598.60 K.B. 2.21

1640 - 2 - .54 holes

27 Jts. 2-3/8" x 4.7# J-55
851.20

None

None

Seal Assembly

2448.56 K.B.

Baker 7" Md1. D Prod. Tube
Production Tube

2797

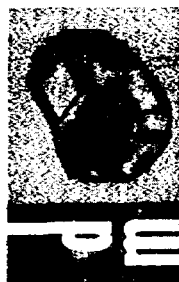
2827

Core 3567
Signed: Leon Bergstrom
Date: 3/29/67

dearnley-meier reporting service, inc.

SPECIALIZING IN: DEPOSITIONS, HEARINGS, STATEMENTS, EXPERT TESTIMONY, DAILY COPY, CONVENTIONS

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BEFORE THE
NEW MEXICO OIL CONSERVATION COMMISSION
SANTA FE, NEW MEXICO
MAY 3, 1967

EXAMINER HEARING

IN THE MATTER OF:

APPLICATION OF TENNECO OIL
COMPANY FOR A DUAL COMPLETION,
MCKINLEY COUNTY, NEW MEXICO.

Case No. 3567

BEFORE: Daniel S. Nutter
Examiner

TRANSCRIPT

NEW MEXICO OIL CONSERVATION COMMISSION

EXAMINER HEARING

SANTA FE, NEW MEXICOREGISTERHEARING DATE MAY 3, 1967 TIME: 9 A.M.

NAME:	REPRESENTING:	LOCATION:
Jack Willard	Tenneco Oil	Durango, Colo.
L. C. White	W & K & K	Santa Fe
P. J. McQuath	U.S.G.S.	Farmington, N.M.
Charles E. Hinkle	Southwest Roy Co	Albuquerque
Norm Duker	R. W. Byrum	Santa Fe
Jim Sperling	Modrall, Lyman Sperling et al	Albuquerque
Kenneth L. Hargison	"	"
Oren C. Crane	Pulco Pet. Corp.	Albuquerque
J. M. Lewis et al	Southwest Royalty Co	W. Alameda, Tex.

MR. NUTTER: The hearing will come to order, please. The first case on the docket this morning will be Case Number 3567.

MR. HATCH: Case 3567, Application of Tenneco Oil Company for a dual completion, McKinley County, New Mexico.

(Whereupon, Applicant's Exhibits numbered 1, 2, 3 and 4, inclusive, marked for identification.)

MR. WHITE: L. Charles White of Santa Fe, New Mexico, appearing on behalf of the applicant. We have one witness to be sworn at this time.

(Witness sworn.)

JACK WILLOCK, called as a witness by the Applicant, having been first duly sworn, was examined and testified as follows:

DIRECT EXAMINATION

BY MR. WHITE:

Q Will you state your full name for the record, please?

A Jack Willock. I am employed by Tenneco Oil Company as a Petroleum Engineer in Durango, Colorado.

Q Have you previously testified before the New Mexico Oil Commission as a Petroleum Engineer?

A Yes, I have.

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Q Are you familiar with the subject application?

A Yes, I am.

Q What does Tenneco seek by the subject application?

A We seek approval of the dual completion in two zones, in the undesignated Dakota pool and the upper zone, which is the South Hospah Lower Sand, or Gallup Sand.

Q What is the reason for the application?

A The application grant is seeking permission to produce the upper sand and under an allowable status; and the lower sand, we are seeking to use as lease fuel. The gas from the lower sand is lease fuel. We are seeking lease fuel. The holes aren't spacing at this time.

Q Will you refer to your location plat, Exhibit One, and explain that, please?

A Exhibit One is a land or location plat showing the subject well, Hospah Number 10, which is located in the northeast of the northwest of Section 12, Township 17 North, Range 9 West, in the South Hospah Field in McKinley County, New Mexico. The purpose of this plat is to show the location of the well.

Q What is the present status of the well?

A The upper zone, the Lower Hospah Sand, or Gallup, as commonly called, is producing. The lower completion, the undesignated Dakota Sand, is shut-in.

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Q Will you refer to your diagramatic sketch, which is Exhibit Number Two, and explain the down-hole equipment and installations?

A Exhibit Number Two is a mechanical sketch of the equipment in the well bore. The lower sand, we have shown the lower perforations from 2498 feet to 2757 feet. This is the undesignated Dakota Sand, and the upper perforations are the Lower Hospah Sand with two holes at 1640 feet. Separation between the two zones is accomplished by a permanent packer installed at, approximately, 2449 feet from the surface, and a tubing string that's set in this permanent packer from the surface down to the packer.

The second string, the short tubing string, is set in a tubing anchor. This anchor affects no seal whatsoever between the casing and the Lower Hospah Sand. We're pumping this zone. That's all the need we have for the second tubing string.

Q Is the Exhibit, otherwise, self-explanatory?

A I think so.

Q Now, will you refer to your well log, Exhibit Number Three?

A Okay. Exhibit Number Three is Dual Induction-Laterolog. The copies we have are marked with the four sands as they occur.

The Upper Hospah Sand is at 1560 feet.

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The Lower Hospah Sand, which is the upper completion in the sand, the top is 1640 feet. You will note that we have shown two holes perforated at 1640 feet. That is the completion of it.

The bottom of the Lower Hospah is 1750 feet.

The top of the Dakota Sand is at 2490 feet, and you'll note on our Exhibit that we've perforated four benches in this Dakota, these series of Dakota Sand.

The top uppermost perforations are from 2498 feet to 2501 feet, and from 2504 feet to 2508.

The next set of perforations is from 2584 feet to 2602 feet.

The third set is 2647 to 2654, and 2659 to 2668.

The fourth set of perforations are from 2736 to -39, from 2740 to -42, and from 2745 to 2750. These are all these eight perforated zones. Three, five -- yes, eight perforated zones are completed in the well as one sand. This concludes my part of this.

Q What is the porosity?

A Porosity in this Dakota Sand is very variable. From what we've seen so far, it is 12% to 21%. We have no good fix on water saturation or permeability. We have taken no cores. The log calculations aren't too reliable because the water is fresh, and from all the information I can obtain, it's very

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difficult to obtain a reliable water saturation for log calculations in extremely fresh water sands.

Q Do you anticipate any corrosive problems?

A No, sir, not to my knowledge.

Q Will you refer to Exhibit Four and explain it?

A Exhibit Four is a Packer Leakage Test between the two zone tubes. We are filing this concurrently with the Aztec Office and Commission.

The first test is the Upper portion, showing the first test, which was run with the Dakota Sand flowing and the Lower Hospah Sand shut-in. Shut-in pressure after seven days on the Dakota Sand was 895 pounds. After we produced the sand for fifteen minutes, it was dropped to 28 pounds; and after forty-five minutes, it leveled off at 20 pounds. This is all P. S. I., excuse me. The well flowed, approximately, at the rate of 250 M. C. F. of gas per day through a three-quarter inch choke. Then the well was shut-in. Let's see. That was shut-in seven days, and the upper zone was pumped, and the lower zone was left shut-in, and pressure was stabilized throughout the test at 892 P. S. I. on the shut-in lower completion.

Q Do you have any cost data?

A Cost of the dually completed well is, approximately, \$50,000.00. A single well completed in the Lower Hospah Sand

costs, approximately, \$20,000.00. Our figures -- as we've only done work on two wells in this zone, we think that our costs are going to be around \$40,000.00.

Q It will be a savings of, approximately, \$10,000.00?

A Yes, sir. It's a savings to dual complete a well.

Q Were Exhibits One and Two prepared by you or under your direction?

A Yes, sir.

Q And by whom were Exhibits Three and Four prepared?

A Exhibit Three is a log of the well; the log of the dual induction well was run by Schlumberger. Exhibit Four was prepared by a testing service, Tefteller, Inc., in Farmington, New Mexico.

MR. WHITE: At this time, we offer Exhibits One through Four in evidence.

MR. NUTTER: The Exhibits will be admitted.

(Whereupon, Applicant's Exhibits numbered 1 through 4, inclusive, were admitted in evidence.)

Q Do you have any further testimony?

A No, sir.

MR. WHITE: That completes our case.

CROSS EXAMINATION

BY MR. NUTTER:

Q Mr. Willock, are those a discovery insofar as Dakota production is concerned?

A Yes, sir. Currently, we are testing another well. If you'll refer back to your Exhibit One, you'll notice in the southeast of the southeast of Section 11, Township 17 North, Range 9 West, there's a "2" there.

We are currently testing our Wigam Number Two well in the four sands, four benches of the Dakota. They occur similarly to what was found in the Hospah Number 10 well. The bottom bench is definite water. The next two, we got a little oil show. That would be the third and second bench. The top one, we have done some frac work on, and we are now putting the well on pump. We have pumped some oil and fraced it into the zone in an attempt to obtain production from it. We ran a drill test on the zone and recovered some oil shows. It was green, 50-degree gravity oil.

We have no conclusions, yet, on this well; and we're installing a pumping unit now, rods, to test the Dakota Sand in this well. This is our second attempted completion.

Q Well, now, the subject well here on the Packer Leakage Test produced 250 M. C. F. of gas per day?

A Dry gas, yes.

dearnley-meier

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Q Which you intend to use as fuel on the lease --

A Yes, sir.

Q -- there being no gas sales outlet in this area?

A That's correct. There's no sales outlet.

MR. NUTTER: Are there any other questions of this witness?

You may be excused.

(Whereupon, the witness was excused.)

Do you have anything further, Mr. White?

MR. WHITE: No.

MR. NUTTER: Does anyone have anything to offer in Case 3567?

We will take the case under advisement.

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PAGE 10

STATE OF NEW MEXICO)
) ss.
COUNTY OF BERNALILLO)

I, CHARLOTTE J. MACIAS, Court Reporter, do hereby
certify that the foregoing and attached transcript of
proceedings before the New Mexico Oil Conservation Commission
Examiner at Santa Fe, New Mexico, is a true and correct record
to the best of my knowledge, skill and ability.

IN WITNESS WHEREOF, I have affixed my hand and notarial
seal this 9th day of May, 1967.

Charlotte J. Macias
Notary Public - Court Reporter

My Commission Expires:
February 10, 1971.

I do hereby certify that the foregoing is
a complete record of the proceedings in
the Examiner hearing of Case No. 3267.
heard by me on 6/3, 1967.
[Signature] Examiner
New Mexico Oil Conservation Commission

TENNECO OIL COMPANY

Durango District

Well Name: Hospah

Well Number: 10

Location: 990 FNL, 2300 EWL

Sec. 12 Twp. 17-N Rge. 9-W

County: McKinley

State: New Mexico

Elev. 7034'

2 - 10' 2-3/8" Pup Joints

50 Jts 2-3/8" X 4.70#, J-55

*Deal complete
\$50,000
Lower Hospah
Rings \$25,000
Expect to be able to
lower costs of deal to
\$40,000*

90 Jts 7" X 20# J-55

1st. STAGE CMT:
380 Cu. Ft. Class "C" w/Koalite,
TIC & Clinton Flake

2nd. STAGE CMT:

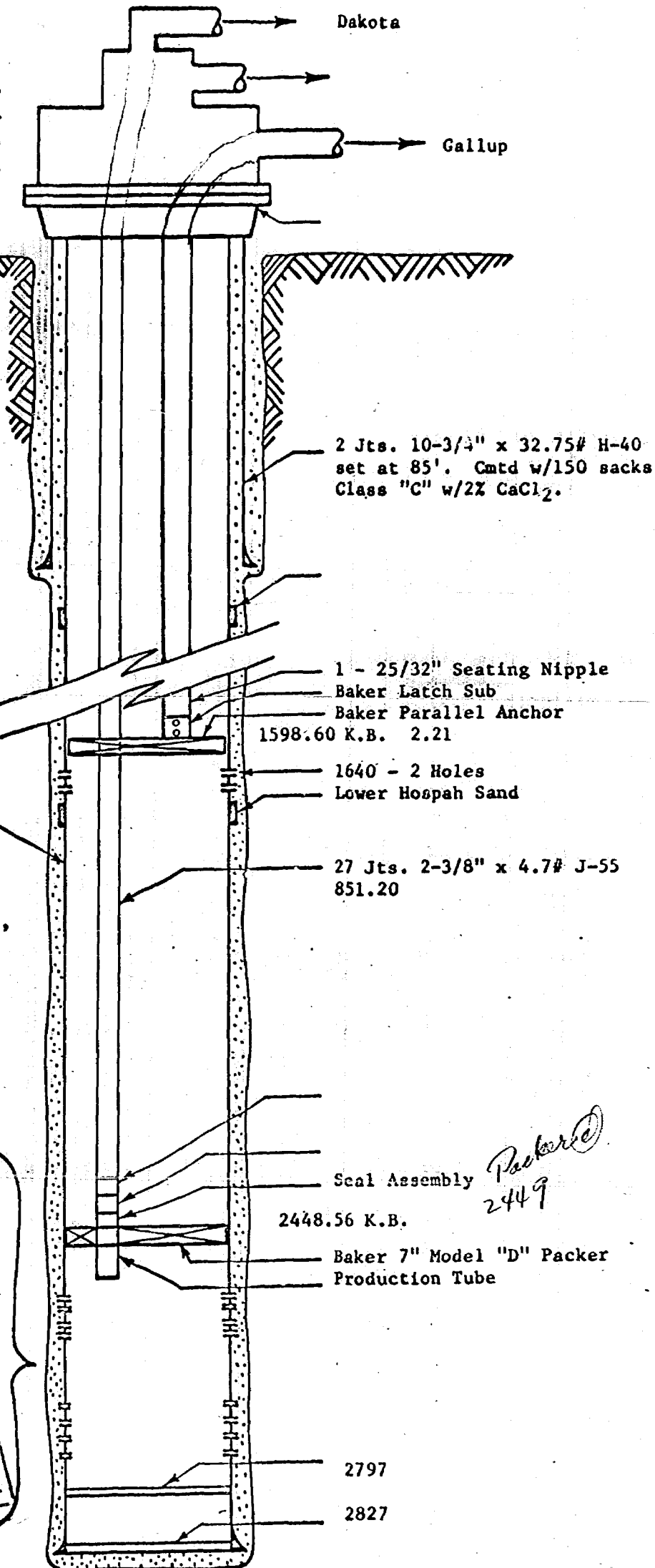
3rd. STAGE CMT:

PERFS:

2498-2501
2504-2508
2584-2602
2647-2654
2659-2668
2736-2739
2740-2742
2745-2750
Dakota Sand

BEFORE EXAMINER NUTTER
OIL CONSERVATION COMMISSION
app. EXHIBIT NO. 2
CASE NO. 3567

TD 2827



Signed: _____
Date: _____

BEFORE EXAMINATION

OIL CONSERVATION COMMISSION

EXHIBIT NO. 4CASE NO. 3567 NEW MEXICO OIL CONSERVATION COMMISSION

This form is not to be used for reporting packer leakage tests in Southeast New Mexico

Revised 11-1-58

NORTHWEST NEW MEXICO PACKER-LEAKAGE TEST

Operator Tenneco Oil Company Lease Hospah Well No. 10
 Location of Well: Unit C Sec. 12 Twp. 17 Rge. 9 County McKinley

Name of Reservoir or Pool	Type of Prod. (Oil or Gas)	Method of Prod. (Flow or Art. Lift)	Prod. Medium (Tbg. or Csg.)
Upper Completion <u>Hospah Lower Sand (Gallup)</u>	<u>Oil</u>	<u>Pumping</u>	<u>Tbg.</u>
Lower Completion <u>Dakota</u>	<u>Gas</u>	<u>Flow</u>	<u>Tbg.</u>

PRE-FLOW SHUT-IN PRESSURE DATA

Upper Compl	Hour, date Shut-in	Length of time shut-in since completion	SI press. psig	Stabilized? (Yes or No)
	<u>3/29/67</u>			
Lower Compl	Hour, date Shut-in	Length of time shut-in	SI press. psig	Stabilized? (Yes or No)
	<u>4/5/67</u>	<u>7 days</u>	<u>895</u>	

FLOW TEST NO. 1

Commenced at (hour, date)* <u>4/12/67, 11:00 A.M.</u>				Zone producing (Upper or Lower):	
Time (hour, date)	Lapsed time since*	Pressure Upper Compl. Lower Compl.	Prod. Zone Temp.	Remarks	
<u>11:15</u>	<u>15 Min.</u>	<u>0</u> <u>28</u>			
<u>11:30</u>	<u>30 Min.</u>	<u>0</u> <u>23</u>			
<u>11:45</u>	<u>45 Min.</u>	<u>0</u> <u>20</u>			
<u>12:00</u>	<u>1 Hour</u>	<u>0</u> <u>20</u>			
<u>1:00</u>	<u>2 Hours</u>	<u>0</u> <u>20</u>			
<u>2:00</u>	<u>3 Hours</u>	<u>0</u> <u>20</u>			

Production rate during test

Oil: 250 BOPD based on 250 Bbls. in 250 Hrs. Grav. 0 GOR 0
 Gas: 250 MCFPD; Tested thru (Orifice or Meter): 3/4" Choke

MID-TEST SHUT-IN PRESSURE DATA

Upper Compl	Hour, date Shut-in	Length of time shut-in since compl.	SI press. psig	Stabilized? (Yes or No)
	<u>3/29/67</u>			
Lower Compl	Hour, date Shut-in	Length of time shut-in	SI press. psig	Stabilized? (Yes or No)
	<u>2:00 4/12/67</u>	<u>7 Days</u>	<u>892</u>	

FLOW TEST NO. 2

Commenced at (hour, date)** <u>4/19/67</u>				Zone producing (Upper or Lower):	
Time (hour, date)	Lapsed time since **	Pressure Upper Compl. Lower Compl.	Prod. Zone Temp.	Remarks	
<u>8:00 4/19</u>	<u>0</u>	<u>0</u> <u>892</u>			
<u>8:00 4/20</u>	<u>24 Hrs.</u>	<u>0</u> <u>892</u>			

Production rate during test

Oil: 42 BOPD based on 42 Bbls. in 24 Hrs. Grav. 0 GOR 0
 Gas: 42 MCFPD; Tested thru (Orifice or Meter): 0

REMARKS:

I hereby certify that the information herein contained is true and complete to the best of my knowledge.

Approved: 19
 New Mexico Oil Conservation Commission

By _____

Title _____

Operator _____

By TEFTELLER, INC.
P. O. Box 1198Title Farmington, New Mexico Nat Tefteller agent

Date _____

NORTHWEST NEW MEXICO PACKER LEAKAGE TEST INSTRUCTIONS

1. A packer leakage test shall be commenced on each multiple completed well within seven days after actual completion of the well, and annually thereafter as prescribed by the order authorizing the multiple completion. Such tests shall also be commenced on all multiple completions within seven days following recompletion and/or chemical or fracture treatment, and whenever remedial work has been done on a well during which the packer or the tubing have been disturbed. Tests shall also be taken at any time that communication is suspected or when requested by the Commission.
2. At least 72 hours prior to the commencement of any packer leakage test, the operator shall notify the Commission in writing of the exact time the test is to be commenced. Offset operators shall also be so notified.
3. The packer leakage test shall commence when both zones of the dual completion are shut-in for pressure stabilization. Both zones shall remain shut-in until the well-head pressure in each has stabilized, provided however, that they need not remain shut-in more than seven days.
4. For Flow Test No. 1, one zone of the dual completion shall be produced at the normal rate of production while the other zone remains shut-in. Such test shall be continued for seven days in the case of a gas well and for 24 hours in the case of an oil well. Note: If, on an initial packer leakage test, a gas well is being flowed to the atmosphere due to the lack of a pipeline connection the flow period shall be three hours.
5. Following completion of Flow Test No. 1, the well shall again be shut-in, in accordance with Paragraph 3 above.
6. Flow Test No. 2 shall be conducted even though no leak was indicated during Flow Test No. 1. Procedure for Flow Test No. 2 is to be the same as for Flow Test No. 1 except that the previously produced zone shall remain shut-in while the zone which was previously shut-in is produced.

7. Pressures for gas-zone tests must be recorded on each zone with a deadweight pressure gauge at time intervals as follows: 3-hour tests: immediately prior to the beginning of each flow period, at fifteen-minute intervals during the first hour thereof and at hourly intervals thereafter, including one pressure measurement immediately prior to the conclusion of each flow period. 7-day tests: immediately prior to the beginning of each flow period, at least one time during each flow period (at approximately the midway point) and immediately prior to the conclusion of each flow period. Other pressures may be taken as desired, or may be requested on wells which have previously shown questionable test data.

24-hour oil zone tests: all pressures, throughout the entire test, shall be continuously measured and recorded with recording pressure gauges, the accuracy of which must be checked at least twice, once at the beginning and once at the end of each test, with a deadweight pressure gauge. If a well is a gas-oil or an oil-gas dual completion, the recording gauge shall be required on the oil zone only, with deadweight pressures as required above being taken on the gas zone.

8. The results of the above-described tests shall be filed in triplicate within 15 days after completion of the test. Tests shall be filed with the Artec District Office of the New Mexico Oil Conservation Commission on Northwest New Mexico Packer Leakage Test Form Revised 11-1-58, with all deadweight pressures indicated thereon as well as the flowing temperatures (gas zones only) and gravity and GOR (oil zones only). A pressure versus time curve for each zone of each test shall be constructed on the reverse side of the Packer Leakage Test Form with all deadweight pressure points taken indicated thereon. For oil zones, the pressure curve should also indicate all key pressure changes which may be reflected by the recording gauge charts. These key pressure changes should also be tabulated on the front of the Packer Leakage Test Form.

TIME - HOURS

