RECEIVED
DURANGO PROD.
JAN 20 1965
DIST.

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

NEW MEXICO OIL CONSERVATION COMMISSION

Revised 11-1-58

NORTHWEST NEW MEXICO PACKER-LEAKAGE TEST

Operator Continental Oil Company Lease Jicarilla Apache 28 Well No. 1

Location of Well: Unit J Sec. 28 Twp. 25N Rge. 3W County Rio Arriba

	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	Undesignated Gallup	Oil	Pumping	Tubing
Lower Completion	Dakota	Oil	Plunger Lift	Tubing

PRE-FLOW SHUT-IN PRESSURE DATA

Upper Compl	Hour, date Shut-in 10:00 A.M. 12-17-64	Length of time shut-in 168 hours	SI press. psig 620	Stabilized? (Yes or No) No
Lower Compl	Hour, date Shut-in 10:00 A.M. 12-17-64	Length of time shut-in 168 hours	SI press. psig 1110	Stabilized? (Yes or No) No

FLOW TEST NO. 1

Commenced at (hour, date)* 10:00 A.M. 12-24-64 Zone producing (Upper ~~Lower~~):

Time (hour, date)	Lapsed time since*	Pressure Upper Compl.	Pressure Lower Compl.	Prod. Zone Temp.	Remarks
12:00 N 12-24-64	2	620	1120		Deadweight Pressure
10:00 A.M. 12-25-64	24 hours	620	1130		Deadweight Pressure
10:00 A.M. 12-26-64	48 hours	620	1130		Deadweight Pressure

Production rate during test
Oil: 12 BOPD based on 24 Bbls. in 48 Hrs. 41° Grav. API GOR 3500
Gas: 42 MCFPD; Tested thru (Orifice or Meter): Meter

MID-TEST SHUT-IN PRESSURE DATA

Upper Compl	Hour, date Shut-in 10:00 A.M. 12-26-64	Length of time shut-in 168 hours	SI press. psig 705	Stabilized? (Yes or No) No
Lower Compl	Hour, date Shut-in 10:00 A.M. 12-17-64	Length of time shut-in 384 hours	SI press. psig 1170	Stabilized? (Yes or No) No

FLOW TEST NO. 2

Commenced at (hour, date)** 10:00 A.M. 1-2-65 Zone producing (~~Upper~~ Lower):

Time (hour, date)	Lapsed time since **	Pressure Upper Compl.	Pressure Lower Compl.	Prod. Zone Temp.	Remarks
4:00 P.M. 1-2-65	6 hours	707	995		Deadweight Pressure
10:00 P.M. 1-2-65	12 hours	707	870		Frozen In (2 Pen Recorder)
10:00 A.M. 1-3-65	24 hours	710	950		Deadweight Pressure

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OIL CON. COM.
DIST. 3

Production rate during test
Oil: 19 BOPD based on 15 Bbls. in 24 Hrs. 49° Grav. API GOR 10,000
Gas: 190 MCFPD; Tested thru (Orifice or Meter): Meter

REMARKS: Dakota temporarily frozen in during flow period.

Packer-Leakage Test Prior to Installation of Otis "Dual Flow Choke"

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

Approved: 1-20 1965
New Mexico Oil Conservation Commission

By Emery C. Arnold

Title Supv Dist III

Operator Continental Oil Company

By ORIGINAL SIGNED BY FRED VAN MATRE

Title District Engineer

Date January 18, 1965

ILLEGIBLE

EXHIBIT No. 1

NORTHWEST NEW MEXICO PACKER LEAKAGE T NSTRUCTIONS

1. A packer leakage test shall be commenced on each multiply 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.

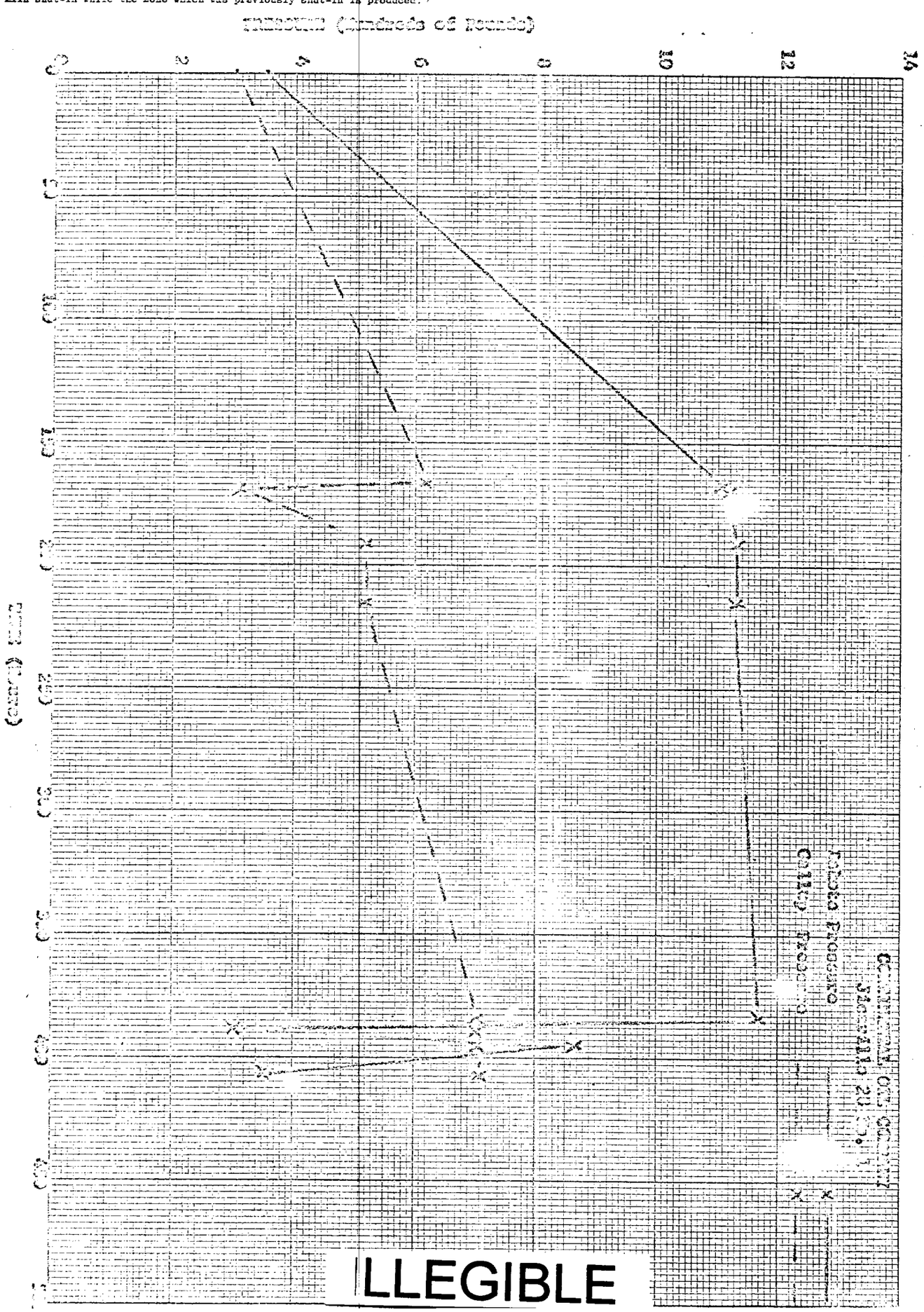
5. Following completion of Flow Test No. 1, the well shall again be shut-in, in accordance with Paragraph 3 above.

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-zo sts must be measured on each zone with a deadweight pressure gaug 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 Aztec 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.



ILLEGIBLE

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NEW MEXICO OIL CONSERVATION COMMISSION

Revised 11-1-58

NORTHWEST NEW MEXICO PACKER-LEAKAGE TEST

Operator Continental Oil Company Lease Jicarilla 28 Well No. 1

Location of Well: Unit J Sec. 28 Twp. 35N Rge. 4W County Rio Arriba

	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	Undesignated Gallup	Oil	Flow	Casing
Lower Completion	Basin Dakota	Oil	Plunger Lift	Tubing

PRE-FLOW SHUT-IN PRESSURE DATA

Upper Compl	Hour, date Shut-in 2:00 P.M. 1-28-65	Length of time shut-in 164 hours	SI press. psig 615	Stabilized? (Yes or No) No
Lower Compl	Hour, date Shut-in 2:00 P.M. 1-28-65	Length of time shut-in 164 hours	SI press. psig 1185	Stabilized? (Yes or No) No

FLOW TEST NO. 1

Commenced at (hour, date)* 10:00 A.M. 1-30-65 Zone producing (Upper ~~Lower~~):

Time (hour, date)	Lapsed time since*	Pressure Upper Compl.	Pressure Lower Compl.	Prod. Zone Temp.	Remarks
2:00 P.M. 1-30-65	4 hours	225	1185		From 2-Pen Recorder
10:00 A.M. 1-31-65	24 hours	225	1190		W/Dead Weight

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DURANGO PROD.
MAR 9 1965
OFFICE MGR.

Production rate during test
Oil: 0 BOPD based on 0 Bbls. in 24 Hrs. Grav. GOR
Gas: 188 MCFPD; Tested thru (Orifice or Meter): Meter

MID-TEST SHUT-IN PRESSURE DATA

Upper Compl	Hour, date Shut-in 10:00 A.M. 1-31-65	Length of time shut-in 360 hours	SI press. psig 663	Stabilized? (Yes or No) No
Lower Compl	Hour, date Shut-in 2:00 P.M. 1-28-65	Length of time shut-in 356 hours	SI press. psig 1230	Stabilized? (Yes or No) No

FLOW TEST NO. 2

Commenced at (hour, date)** 10:00 A.M. 2-7-65 Zone producing (~~Upper~~ Lower):

Time (hour, date)	Lapsed time since **	Pressure Upper Compl.	Pressure Lower Compl.	Prod. Zone Temp.	Remarks
2:00 P.M. 2-7-65	4 hours	663	350		From 2-Pen Recorder
10:00 A.M. 2-8-65	24 hours	662	354		W/Dead Weight
10:00 A.M. 2-9-65	48 hours	662	354		W/Dead Weight

Production rate during test
Oil: 21 BOPD based on 42 Bbls. in 48 Hrs. Grav. GOR 9905
Gas: 208 MCFPD; Tested thru (Orifice or Meter): Meter

REMARKS: Packer Leakage Test after installation of Otis "Dual Flow Choke" in accordance with Commission Order No. R-2824.

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

Approved: 2-24 1965
New Mexico Oil Conservation Commission

By A. R. Kendrick

Title

Operator Continental Oil Co.

By

Title District Manager

Date 2-22-65

RECEIVED
FEB 24 1965
OIL CON. COM.

Witness' Title

ILLEGIBLE

EXHIBIT #2

NORTHWEST NEW MEXICO PACKER LEAKAGE TEST INSTRUCTIONS

1. A packer leakage test shall be commenced on each multiply 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.

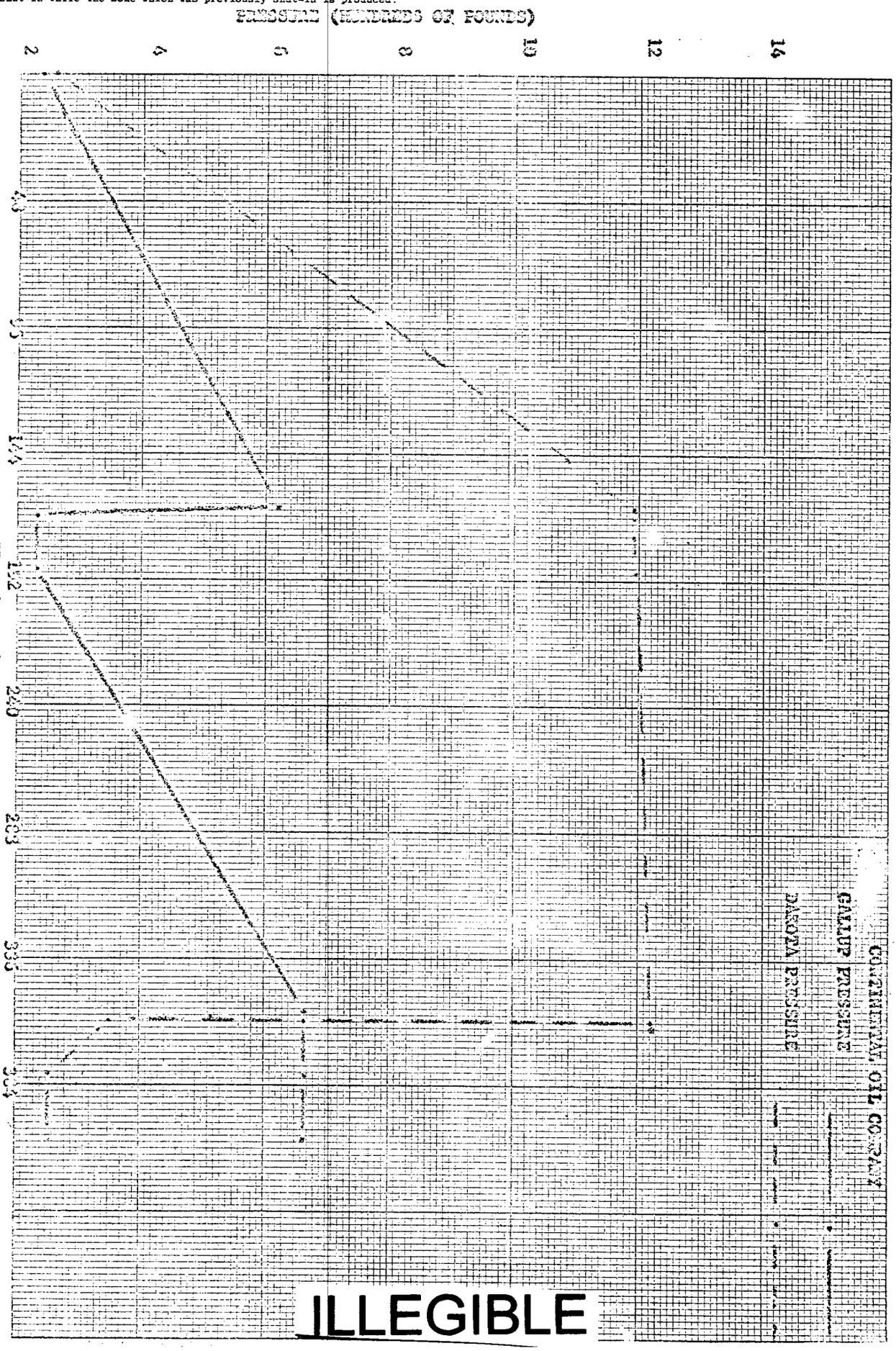
5. Following completion of Flow Test No. 1, the well shall again be shut-in, in accordance with Paragraph 3 above.

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 measured 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 Aztec 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.



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NEW MEXICO OIL CONSERVATION COMMISSION

Revised 11-1-58

NORTHWEST NEW MEXICO PACKER-LEAKAGE TEST

Operator Continental Oil Company Lease Jicarilla 28 Well No. 1

Location of Well: Unit J Sec. 28 Twp. 25N Rge. 4W County Rio Arriba

	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	Undesignated Gallup	Oil	Flow	Casing
Lower Completion	Basin Dakota	Oil	Plunger Lift	Tubing

PRE-FLOW SHUT-IN PRESSURE DATA

	Hour, date Shut-in	Length of time shut-in	SI press. psig	Stabilized? (Yes or No)
Upper Compl	2:00 P.M. 1-28-65	164 hours	615	No
Lower Compl	2:00 P.M. 1-28-65	164 hours	1165	No

FLOW TEST NO. 1

Commenced at (hour, date)* 10:00 A.M. 1-30-65 Zone producing (Upper ~~Lower~~):

Time (hour, date)	Lapsed time since*	Pressure Upper Compl.	Pressure Lower Compl.	Prod. Zone Temp.	Remarks
2:00 P.M. 1-30-65	4 hours	225	1185		From 2-Pen Recorder
10:00 A.M. 1-31-65	24 hours	225	1190		W/Dead Weight

RECEIVED
DURANGO PROD.
MAR 9 1965
OFFICE MGR.
DIST. MGR.
ACCT.
DIST. ENG.

Production rate during test
Oil: 0 BOPD based on 0 Bbls. in 24 Hrs. Grav. GOR
Gas: 189 MCFPD; Tested thru (Orifice or Meter): Meter

MID-TEST SHUT-IN PRESSURE DATA

	Hour, date Shut-in	Length of time shut-in	SI press. psig	Stabilized? (Yes or No)
Upper Compl	10:00 A.M. 1-31-65	168 hours	663	No
Lower Compl	2:00 P.M. 1-28-65	356 hours	1220	No

FLOW TEST NO. 2

Commenced at (hour, date)** 10:00 A.M. 2-7-65 Zone producing (~~Upper~~ Lower):

Time (hour, date)	Lapsed time since **	Pressure Upper Compl.	Pressure Lower Compl.	Prod. Zone Temp.	Remarks
2:00 P.M. 2-7-65	4 hours	663	350		From 2-Pen Recorder
10:00 A.M. 2-8-65	24 hours	662	254		W/Dead Weight
10:00 A.M. 2-9-65	48 hours	662	254		W/Dead Weight

Production rate during test
Oil: 21 BOPD based on 42 Bbls. in 48 Hrs. Grav. GOR 9905
Gas: 208 MCFPD; Tested thru (Orifice or Meter): Meter

REMARKS: Packer Leakage Test after installation of Otis "Dual Flow Choke" in accordance with Commission Order No. R-2824.

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

Approved: 2-24 1965
New Mexico Oil Conservation Commission

By Original Signed Emery C. Arnold

Title Supervisor Dist. #3

Operator Continental Oil Co.

By

Title District Engineer

Date 2-22-65

RECEIVED
FEB 24 1965
OIL CON. COM.

ILLEGIBLE

EXHIBIT #2

NORTHWEST NEW MEXICO PACKER LEAKAGE TEST INSTRUCTIONS

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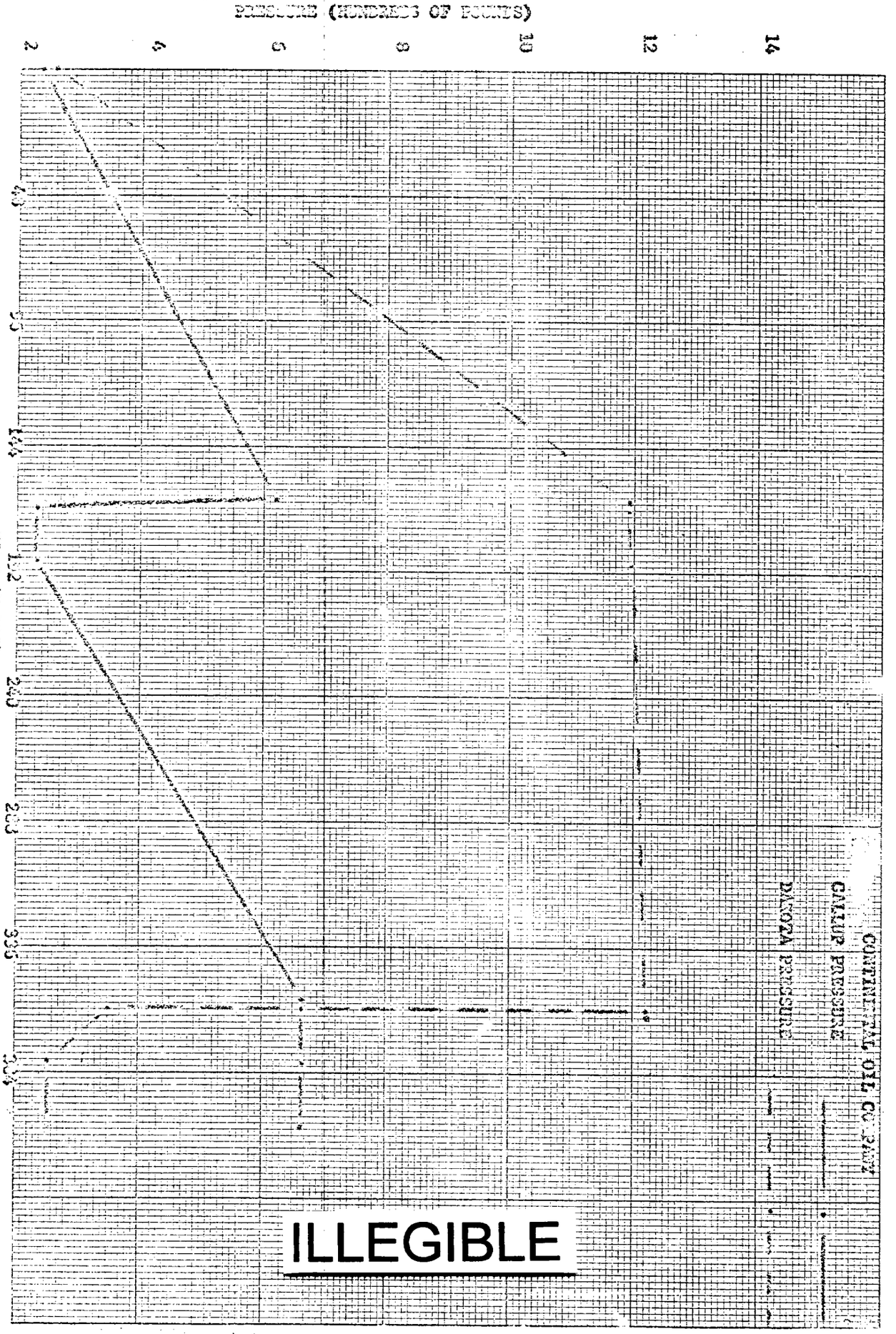
8. The results of the above-described tests shall be filed in triplicate within 15 days after completion of the test. Tests shall be filed with the Aztec District Office of the New Mexico Oil Conservation Commission on Northwest New Mexico Packer Leakage Test Form Revised 11-1-58, with all deadweight 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.



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NEW MEXICO OIL CONSERVATION COMMISSION

Revised 11-1-58

NORTHWEST NEW MEXICO PACKER-LEAKAGE TEST

Operator Continental Oil Company Lease Jicarilla 28 Well No. 1

Location of Well: Unit J Sec. 28 Twp. 25N Rge. 4W County Rio Arriba

	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	Undesignated Gallup	Oil	Flow	Casing
Lower Completion	Basin Dakota	Oil	Plunger Lift	Tubing

PRE-FLOW SHUT-IN PRESSURE DATA

Upper Compl	Hour, date Shut-in 3:00 P.M. 5-1-65	Length of time shut-in 33 days	SI press. psig 854	Stabilized? (Yes or No) Yes
Lower Compl	Hour, date Shut-in 3:00 P.M. 6-3-65	Length of time shut-in 162 hrs.	SI press. psig 855	Stabilized? (Yes or No) No

FLOW TEST NO. 1

Commenced at (hour, date)* 9:00 A.M. 6-10-65 Zone producing (Upper ~~or Lower~~):

Time (hour, date)	Lapsed time since*	Pressure Upper Compl.	Pressure Lower Compl.	Prod. Zone Temp.	Remarks
12:00 P.M. 6-10-65	3 hrs.	500	860		Two-pen recorder
3:00 P.M. 6-10-65	6 hrs.	300	890		Two-pen recorder
9:00 A.M. 6-11-65	24	260	905		Dead weight pressure

Production rate during test

Oil: 0 BOPD based on 0 Bbls. in 24 Hrs. Grav. GOR

Gas: 97 MCFPD; Tested thru (Orifice or Meter): Meter

MID-TEST SHUT-IN PRESSURE DATA

Upper Compl	Hour, date Shut-in 9:10 A.M. 6-11-65	Length of time shut-in 167 1/2 hrs.	SI press. psig 774	Stabilized? (Yes or No) No
Lower Compl	Hour, date Shut-in 3:00 P.M. 6-3-65	Length of time shut-in 354 hrs.	SI press. psig 1255	Stabilized? (Yes or No) No

FLOW TEST NO. 2

Commenced at (hour, date)** 8:40 A.M. 6-18-65 Zone producing (~~Upper or~~ Lower):

Time (hour, date)	Lapsed time since **	Pressure Upper Compl.	Pressure Lower Compl.	Prod. Zone Temp.	Remarks
8:40 A.M. 6-18-65	0	774	1255		Dead weight gauge
9:00 A.M. 6-18-65	20 min.	800	555		Two-pen recorder Intermitter Open
1:40 P.M. 6-18-65	5 hrs.	800	950		Two-pen recorder Intermitter closed
8:30 A.M. 6-19-65	24 hrs.	810	839		Dead weight gauge Intermitter closed
9:15 A.M. 6-22-65	96 hrs.	890	687		Dead weight gauge Intermitter closed
9:20 A.M. 6-22-65	96 hrs.	890	255		Dead weight gauge Intermitter Open

Production rate during test

Oil: 26 BOPD based on 26 Bbls. in 24 Hrs. Grav. 49 GOR 7462

Gas: 194 MCFPD; Tested thru (Orifice or Meter): Meter

REMARKS: Packer Leakage test at end of Otis "Dual Flow Choke" test installation period in accordance with Commission Order No. R-2824

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

Approved: 6-25 1965

New Mexico Oil Conservation Commission

By

Title

Operator Continental Oil Company

By [signature]

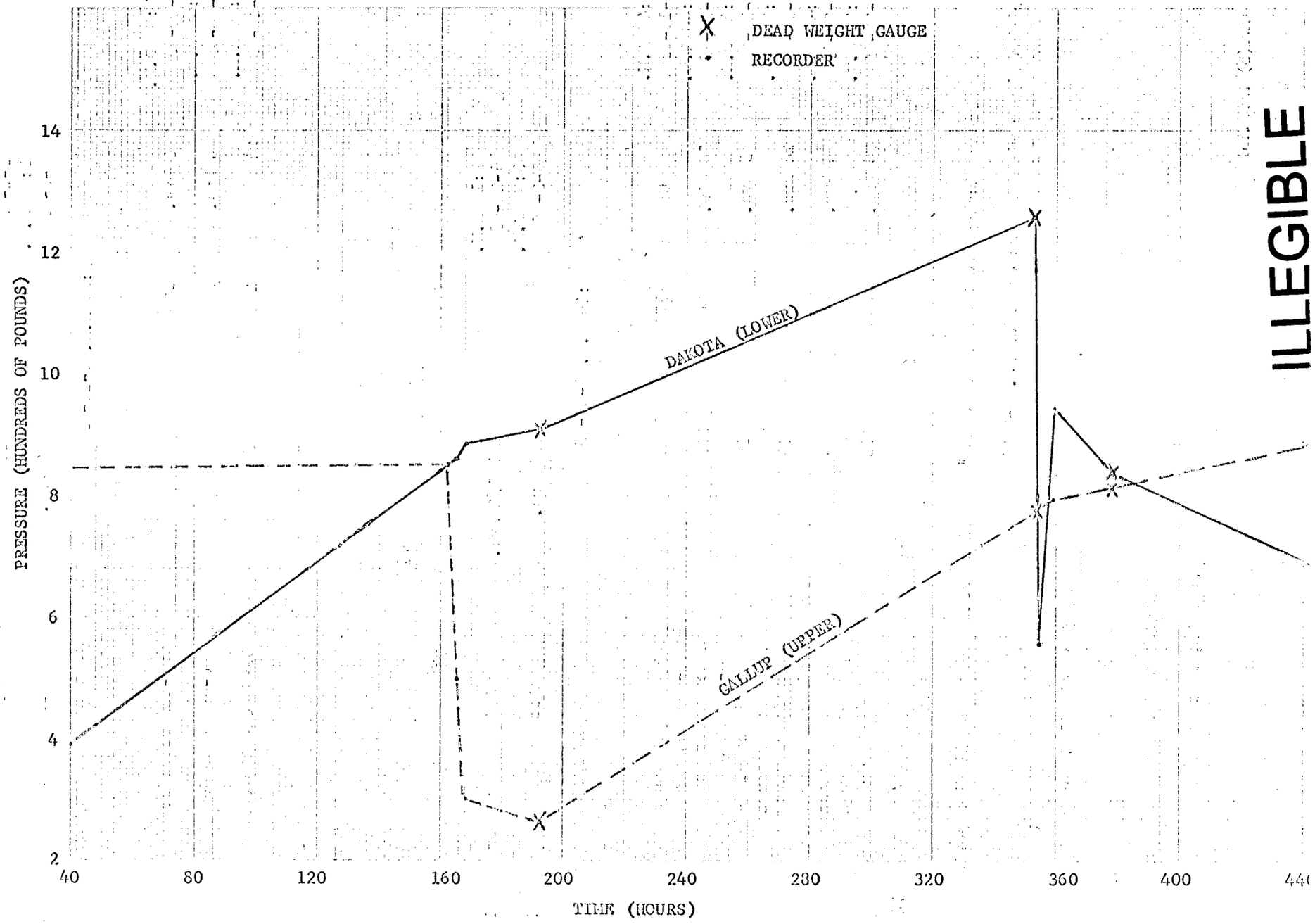
Title District Engineer

Date June 23, 1965

NMOCC(3) HDH JMG

ILLEGIBLE

EXHIBIT #3


DEAD WEIGHT GAUGE
RECORDER
PRESSURE (HUNDREDS OF POUNDS)
TIME (HOURS)
DAKOTA (LOWER)
GALLUP (UPPER)
2
4
6
8
10
12
14
40
80
120
160
200
240
280
320
360
400

ILLEGIBLE

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NEW MEXICO OIL CONSERVATION COMMISSION

Revised 11-1-58

NORTHWEST NEW MEXICO PACKER-LEAKAGE TEST

Operator Continental Oil Company Lease Jicarilla 28 Well No. 1

Location of Well: Unit J Sec. 28 Twp. 25N Rge. 4W County Rio Arriba

	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	Undesignated Gallup	Oil	Flow	Casing
Lower Completion	Basin Dakota	Oil	Plunger Lift	Tubing

PRE-FLOW SHUT-IN PRESSURE DATA

Upper Compl	Hour, date Shut-in 3:00 P.M. 5-1-65	Length of time shut-in 33 days	SI press. psig 854	Stabilized? (Yes or No) Yes
Lower Compl	Hour, date Shut-in 3:00 P.M. 6-3-65	Length of time shut-in 162 hrs.	SI press. psig 855	Stabilized? (Yes or No) No

FLOW TEST NO. 1

Commenced at (hour, date)* 9:00 A.M. 6-10-65 Zone producing (Upper ~~or Lower~~):

Time (hour, date)	Lapsed time since*	Pressure Upper Compl.	Pressure Lower Compl.	Prod. Zone Temp.	Remarks
12:00 P.M. 6-10-65	3 hrs.	500	860		Two-pen recorder
3:00 P.M. 6-10-65	6 hrs.	300	890		Two-pen recorder
9:00 A.M. 6-11-65	24	260	905		Dead weight pressure

Production rate during test

Oil: 0 BOPD based on 0 Bbls. in 24 Hrs. Grav. GOR

Gas: 97 MCFPD; Tested thru (Orifice or Meter): Meter

MID-TEST SHUT-IN PRESSURE DATA

Upper Compl	Hour, date Shut-in 9:10 A.M. 6-11-65	Length of time shut-in 167 1/2 hrs.	SI press. psig 774	Stabilized? (Yes or No) No
Lower Compl	Hour, date Shut-in 3:00 P.M. 6-3-65	Length of time shut-in 354 hrs.	SI press. psig 1255	Stabilized? (Yes or No) No

FLOW TEST NO. 2

Commenced at (hour, date)** 8:40 A.M. 6-18-65 Zone producing (~~Upper or~~ Lower):

Time (hour, date)	Lapsed time since **	Pressure Upper Compl.	Pressure Lower Compl.	Prod. Zone Temp.	Remarks
8:40 A.M. 6-18-65	0	774	1255		Dead weight gauge
9:00 A.M. 6-18-65	20 min.	800	555		Two-pen recorder Intermitter Open
1:40 P.M. 6-18-65	5 hrs.	800	950		Two-pen recorder Intermitter closed
8:30 A.M. 6-19-65	24 hrs.	810	839		Dead weight gauge Intermitter closed
9:15 A.M. 6-22-65	96 hrs.	890	687		Dead weight gauge Intermitter closed
9:20 A.M. 6-22-65	96 hrs.	890	255		Dead weight gauge Intermitter Open

Production rate during test

Oil: 26 BOPD based on 26 Bbls. in 24 Hrs. Grav. 49 GOR 7462

Gas: 194 MCFPD; Tested thru (Orifice or Meter): Meter

REMARKS: Packer Leakage test at end of Otis "Dual Flow Choke" test installation period in accordance with Commission Order No. R-2824

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

Approved: 6-25 1965
New Mexico Oil Conservation Commission

By

Title

Operator Continental Oil Company

By L. [illegible] Lake

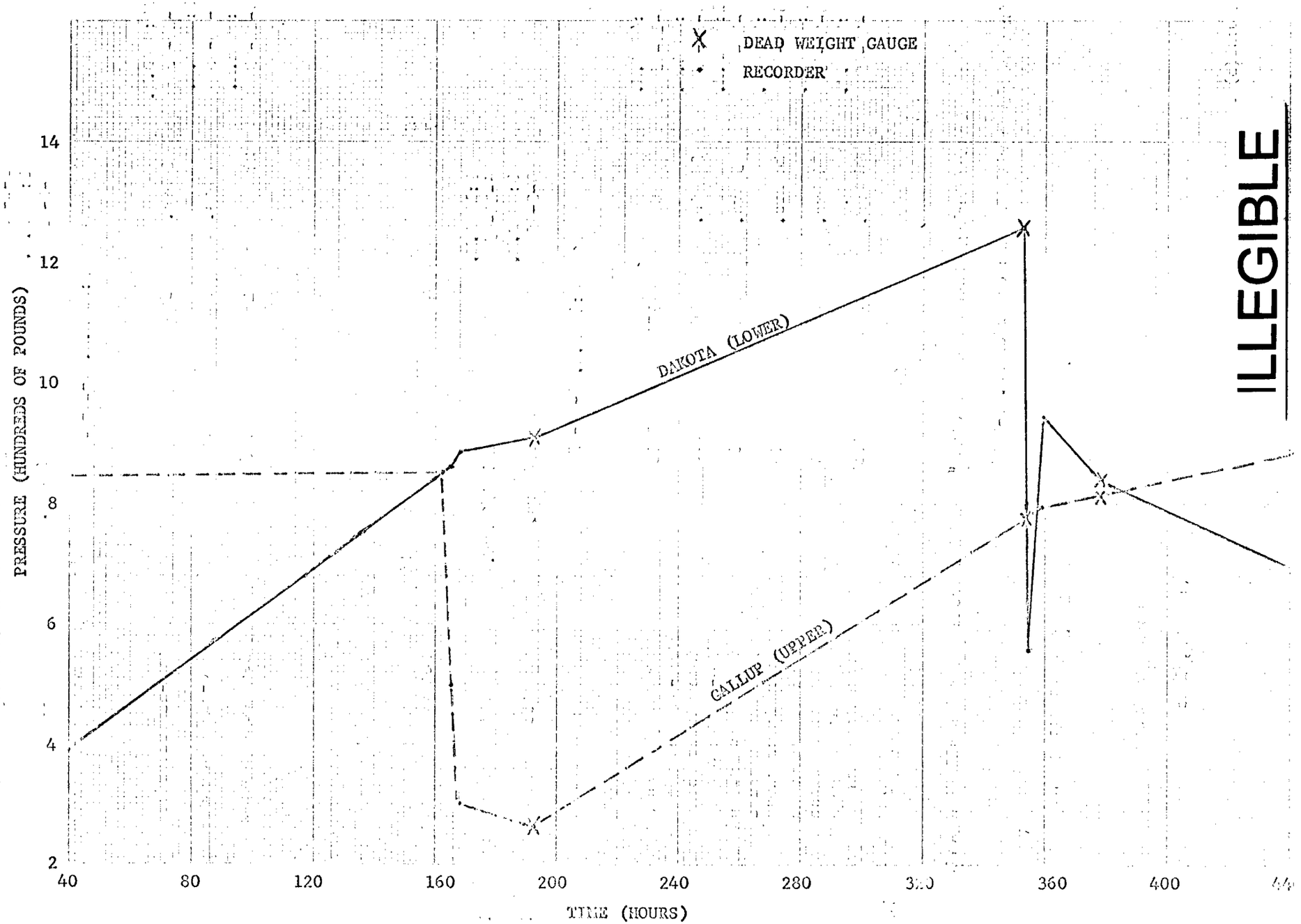
Title District Engineer

Date June 23, 1965

NMOCC(3) HDH JMG

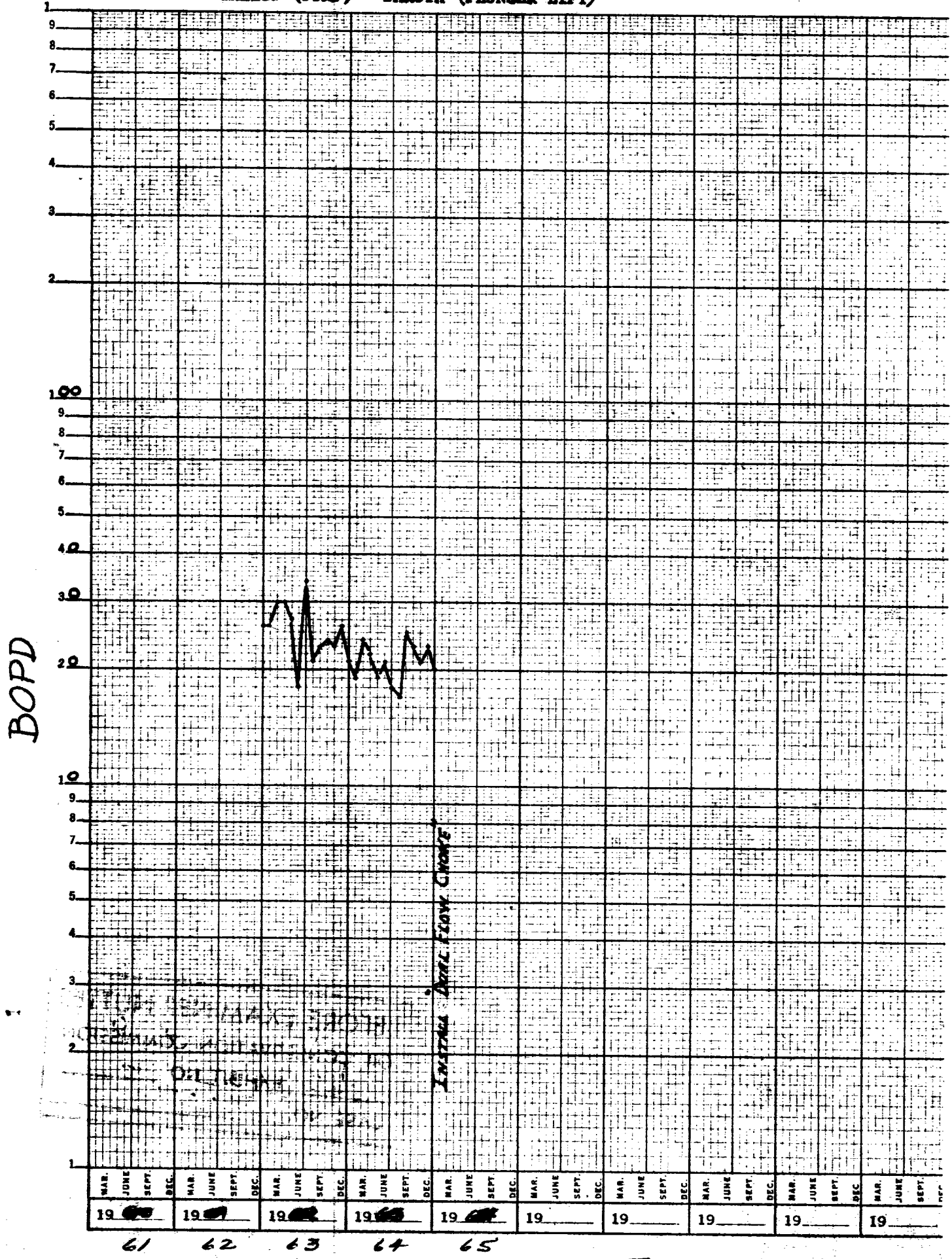
ILLEGIBLE

EXHIBIT #3


DEAD WEIGHT GAUGE
RECORDER
PRESSURE (HUNDREDS OF POUNDS)
14
12
10
8
6
4
2
DAKOTA (LOWER)
CALLUP (UPPER)
40
80
120
160
200
240
280
360
400
TIME (HOURS)

ILLEGIBLE

JICARILLA 28 WELL NO. 1
COMBINED PRODUCTION PERFORMANCE - 1963-1964
GALLUP (PUMP) - DAKOTA (PLUNGER LIFT)



K+E 20 YEARS BY MONTHS X 3 LOG CYCLES KEUFFEL & ESSER CO. 47 6843 MADE IN U.S.A.

EXHIBIT No. 1

BEFORE EXAMINER NUTTER
OIL CONSERVATION COMMISSION
applicant EXHIBIT NO. 6
CASE NO. 3112

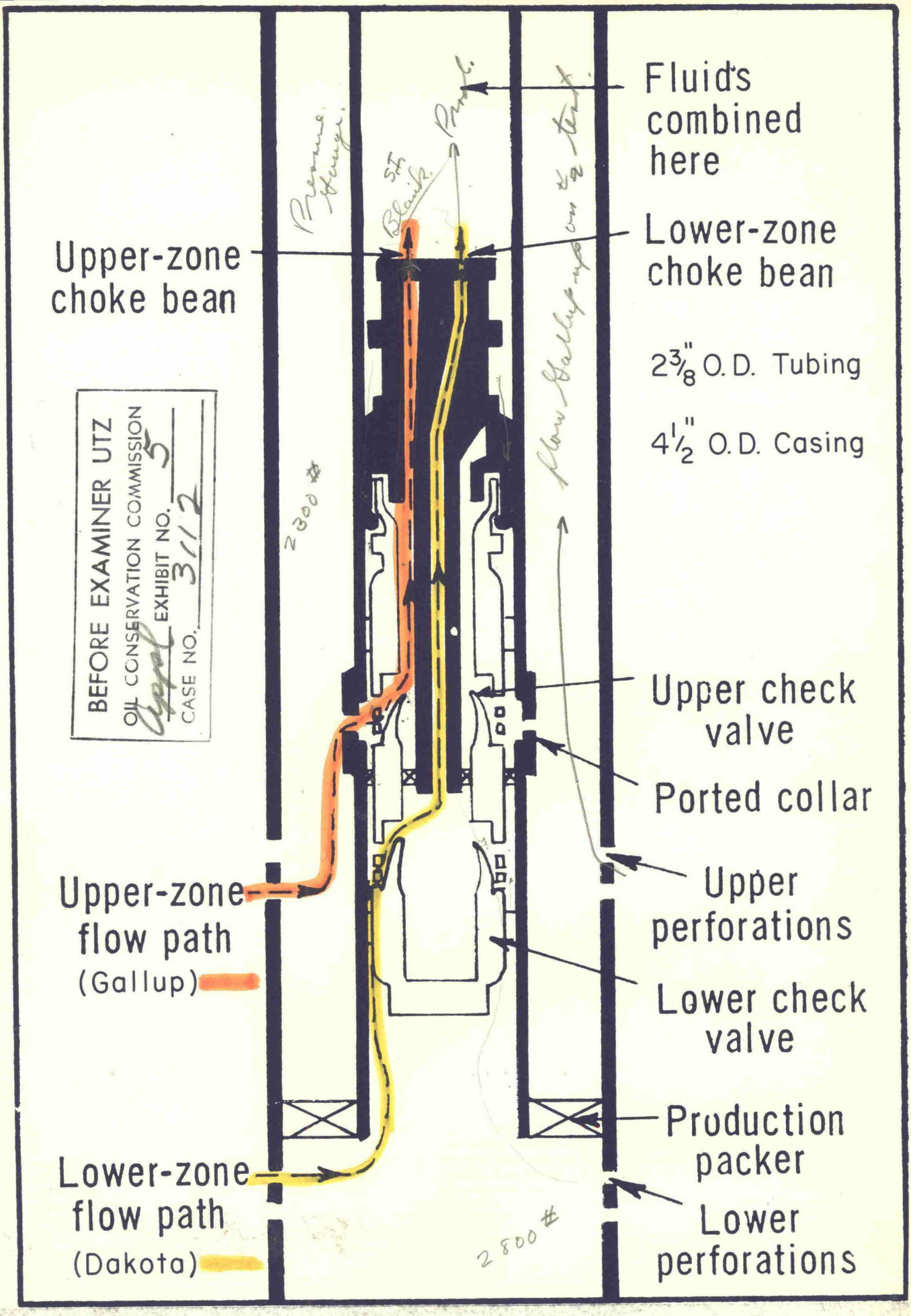


FIGURE NO. 7

Schematic diagram showing installation of Otis "Dual flow choke assembly" for dual zone downhole commingling.

Summary

my opinion

It is ~~believed~~ the data presented conclusively shows that the Dual Flow downhole choke assembly can be effectively used to produce commingled hydrocarbons from two separate reservoirs simultaneously through a single tubing string without communicating between the two zones. The tests show that leakage does not occur through the check assembly, and that annual production allocation tests and packer leakage tests can be satisfactorily performed in accordance with NMOCC requirements for commingling of marginal zone wells.

The tests show that excess energy from the lower Dakota zone can be effectively utilized to lift production from the weaker Gallup zone which previously required artificial lift by pumping.

By minimizing test requirements, operating costs over conventional dual completion methods can be greatly reduced and current income from a marginal well such as 28 well No. 1 can be increased.

By use of ~~this tool~~ the dual Flow choke, future well costs for the Jicarilla Apache West Lindrith leases can be greatly reduced and further development of the Gallup and Dakota reservoirs ~~may become~~ would be economically feasible. Use of the tool in this area will also prolong the economic limit of both zones and result in an increase in ultimate recovery from both reservoirs thus preventing unnecessary waste, and recovery of considerable oil reserves that would otherwise not be recovered