Union Oil Company of California

M I D L A N D T E X A S

New Mexico Oil Conservation Commission Oil Conservation Building Santa Fe, New Mexico

Attention: Mr. Daniel S. Nutter

Gentlemen:

Union Oil Company of California Mereby sumbits attached ammendments to Exhibit #3, Case #2212, Order #R-1923, for our State Lease, Anderson Ranch Field, Lea County, New Mexico.

Very truly yours

UNION OIL COMPANY OF CALIFORNIA

Loto Maloney

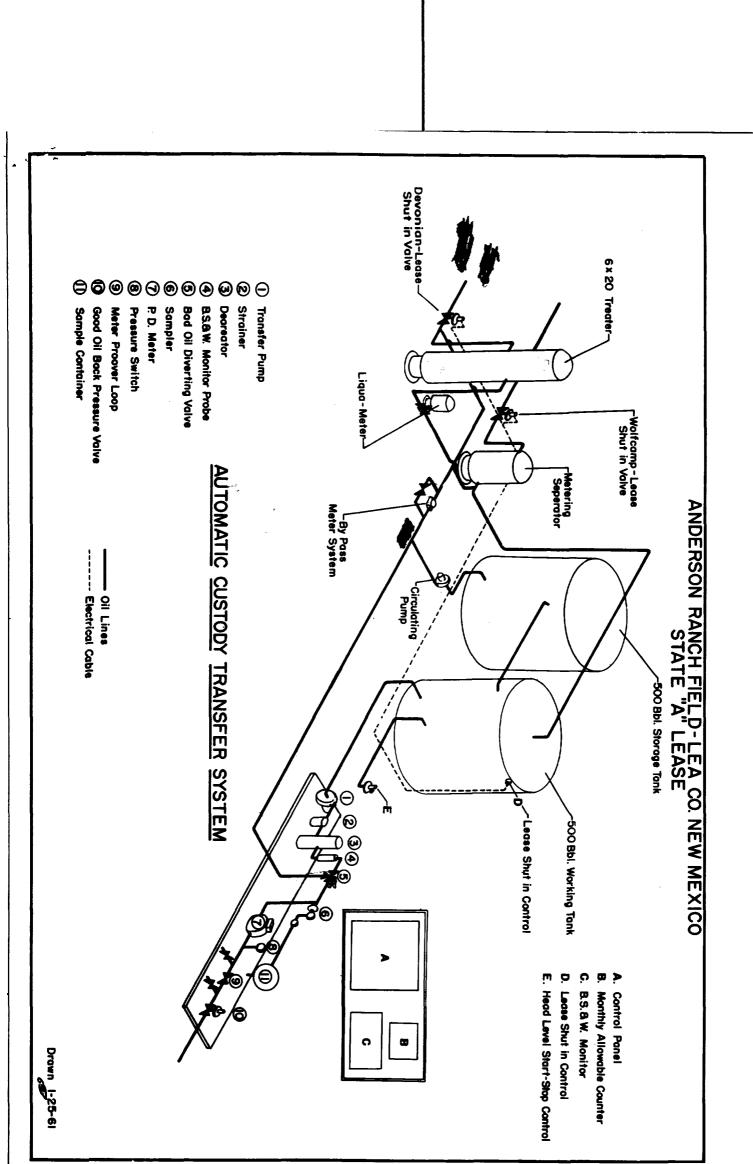
C. C. Maloney

District Production Superintendent

RTS:bt

FORM 401

THESE CHANGES WERE APPROVED BY GULF PIPE LINE-TRANSPORTER IL LEASE SHUT-IN CONTROL, MOVED FROM WORKING TANK TO 500BBL. STORAGE TANK - D 2.NO TICKET PRINTER TO BE USED ON P.D. METER - 7 . **@** 0 **(** AMENDMENTS TO EXHIBIT #3, CASE NO. 2212, ORDER # R- 1923 9 B.S.B.W. Monitor Probe Strainer P.D. Meter Good Oil Back Pressure Valve Pressure Switch Sampler **Bad Oil Diverting Valve** Degreator Transfer Pump Sample Container Meter Proover Loop m G 0 8 -500 Bbl. Storage Tank AUTOMATIC CUSTODY TRANSFER SYSTEM ANDERSON RANCH FIELD-LEA CO. NEW MEXICO ----- Electrical Cable Oil Lines Lease Shut in Control -500 Bbl. Working Tank OMIT STATE LEASE Emulsion Treater A. Control Panel H. Production Line E. Head Level Start-Stop Control D. Lease Shut in Control C. B.S.B.W. Monitor G. Test Line F. Circulating Pump **B.** Monthly Allowable Counter -Metering Test Seperator Drawn 1-25-61 Lease Shut in Valves



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REVISIONS UNION OIL CO. OF CALIFORNIA	State		te	State	"A991e	w.A. Anderson		
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		4						

TEXICO OIL C 345 UNIT NO.1 MONUMENT S.	35	T198 R37E	SCALE I" = 1000'	21	WELL GRAYBURG-SAN ANDRES OIL
FIG. 2 CASE NO. 2167 NEW MEXICO PROPOSED GAS L CHAMBERS & KENNEDY NO.1	DEWTTR	SALSICH SALSICH SALS SALSICH SALSICH	+ 825 1	State OR	EUMONT GAS WELL EUMONT OIL MONUMENT GRAYBURG
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Stare Leave (Unit)

BEFORE EXAMINER NUTTER

AUTOMATIC CUSTODY TRANSFER HYSTER VALLE LEASE

ANDERSON RANCH FIELD,

EA FOUNTY, NEW MEXICO 217

The automatic custody transfer system for the State Lease, Anderson Ranch Field, operates in accordance with the following description and its attached schematic drawing:

The oil from the wells flows from the wells to a centralized header at a point downstream of the header, on both production and test lines is located a diaphragm operated motor valve. A solenoid valve is used to control the gas to the diaphragm of the motor valve. In this manner an electric control for a system shut-in is possible. From the centralized header the oil is directed either through the production separator and treater or through the metering test separator. The well stream that is directed to the test separator, is metered and then routed with the rest of the lease production through the emulsion treater. From the treater the clean oil is dumped into a 500 barrel working tank. This tank serves as an accumulative chamber for the oil prior to metering and delivery to the pipe line.

A head level control valve (E) located on the skid will sense the level in the working tank. At the time a sufficient quantity of oil is accumulated in the working tank, level control (E) will start the pump (1) transferring oil to the pipe line. From the transfer pump (1) the oil is passed through a 14 mesh strainer (2) in order to remove any foreign particles that would damage the meter, to a dearerator (3), to remove any air or entrained gas, and into the BS&W monitor probe (4) to insure that the oil is pipe line quality. The monitor control (C) is directly connected to the monitor probe and is located on the control panel. In the event the oil is not of pipe line quality, the monitor will electrically switch the oil through the bad oil valve (5) back to the treater and will circulate the oil until the monitor detects oil of pipe line quality. At this time the oil passes from the probe (4) to an electrically driven sampler (6), which takes an impulse per barrel from the temperature compensated positive displacement meter (7). The net barrels sold through the meter will be registered on a temperature, compensated, large numeral, five digit counter with a run ticket printer attachment. The ticket is inserted at the beginning of a measurement period, and the opening reading is printed. The ticket is automatically locked in place and can not be removed without mutilation until the closing reading is printed. The meter also sends an impulse to a monthly allowable set stop counter (B) that will automatically shut the unit off the pipe line when the monthly allowable has been produced. The monthly allowable counter is mounted on the control panel in an enclosed case for pipe line seal. Downstream from the meter is a pressure switch (8) which will shut down the transfer pump in the event of excessive pipe line pressure. A three valve meter prover loop (9) in the line is for the purpose of proving the accuracy of the D.P. meter with a master meter or a prover tank. Back pressure is held on the meter by a solenoid operated contact pressure, back pressure valve (10). The sample collected from each barrel produced is stored in a vapor proof, five gallon, sample container (11) with a hand operated mixer. Control box (A) will be panel mounted and will contain a meter monitor for flow control of the meter, motor starters for the pumps, safety fuse wiring, and necessary relays.

The battery will be so wired that in the event of power failure, the good oil back pressure valve (10) fails closed, bad oil valve (5) fails open to direct the oil back to stock, and the two lease shut-in valves (13 and 14) fail closed to shut in the wells.

If the monthly allowable is made or the working tank is full of bad oil, a high level switch (D) located in the working tank will automatically close the lesse shut-in values, thereby shutting in the wells.



GULF REFINING COMPANY

CRUDE OIL AND PRODUCTS PIPE LINE

P. O. DRAWER 1150

MIDLAND, TEXAS

February 21, 1961

Union Oil Co. of California Union Oil Building 619 W. Texas Ave Midland, Texas

Attention: Mr. C. C. Maloney

Gentlemen:

After review of your proposed installation of automatic lease custody transfer units on your State and State (A) leases, Anderson Ranch Field, Lea County, New Mexico, we are agreeable to using such measurements to determine the volumn run from your leases to the Gulf Refining Company Gathering System, should these installations be approved by the New Mexico Conservation Commission.

Very truly yours,

GULF REFINING COMPANY

R. L. Barker

District Superintendent

E.L. Barber

KLB/cp

BEFORE EXAMINER NUTTER

OIL CONSERVATION COMMISSION

EXHIBIT NO. 4

CASE NO. 22/2