

ILLEGIBLE

BILL OF MATERIAL

1. 2" Viking pump, Mod 1 K-4288, gear ratio 4.19:1 w/3 HP, 440/220 volt, 60 cycle, three-phase, 1800 RPM, drip proof motor all skid-mounted (to be supplied by Gulf Oil Company).
2. 2" plastic coated, inline probe w/monitor, range 0-36 (Gulf Research & Development Company Patent).
3. 1-2" Combination Air Eliminator and Strainer w/1/4" mesh screen.
4. 1-1/2" Model T-6 A.O. Smith positive displacement meter w/standard trim, 125 psi, flanged ends, cast iron body complete with No. 109 horizontal non-reset counter to register barrels. Type T electric trans-mitter mounted for 1 pulse per 4 barrels throughput, automatic temperature compensator for 32°F API.
5. B&B Type 16 2-inch back pressure valve (with soft seat and spring force to close) set at 25 psi, or equivalent.
6. 2-inch flanged plug valve (equipped with apparatus for pipeline seal).
7. 2" Street Type TFC-1, 3-way, 2-position gas operated motor valve c/w solenoid.
8. 0-100# pressure gauge and range snubber.
9. 3" x 2" screwed steel with 1 inch collar.
10. 0-180° angle type mercury thermometer in 1/2-inch thermowell.
11. 1-inch collar.
12. 3-inch Everette type "A" coupler, female thread w/dust cap.

NOTES

1. All equipment to be skid-mounted and adequately braced. (Do not cover top of skid w/sheet steel.)
2. Mount weather proof electrical components on metal rack at least 2 feet above skid.
3. Install valve and drain piping on meter case and air-eliminator. Also install 1/2-inch copper valves on air-eliminator.
4. Do not mount control box over pump and motor.
5. Overall dimensions given on skid are only approximate. Leave sufficient space between components so they can be easily removed for maintenance.
6. Make provision to seal the meter from the meter case through the meter counter with pipeline and see 1.

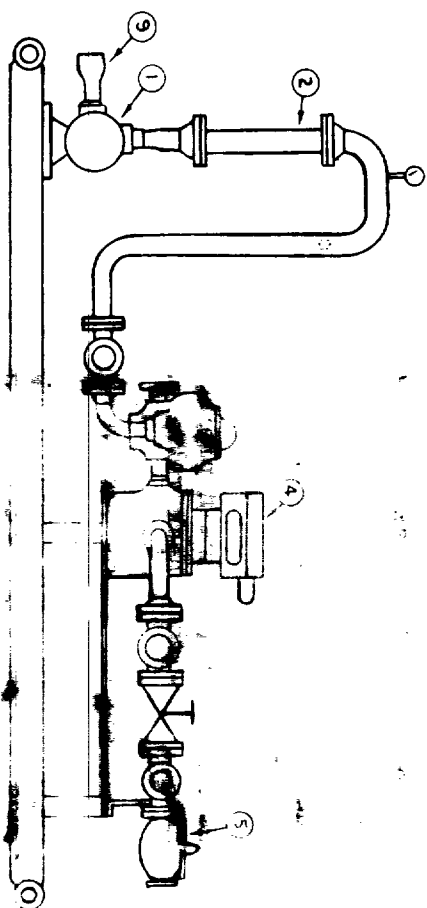
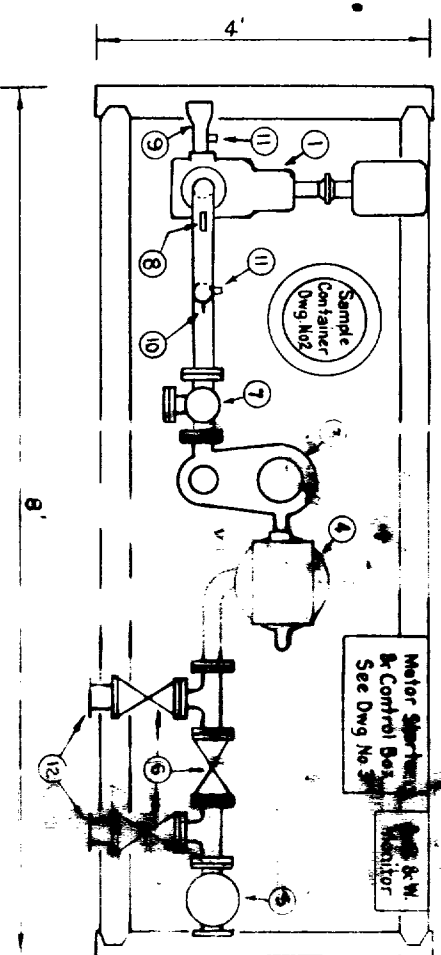
SHELL OIL COMPANY
ROSWELL DIVISION

SKID MOUNTED ACT UNIT

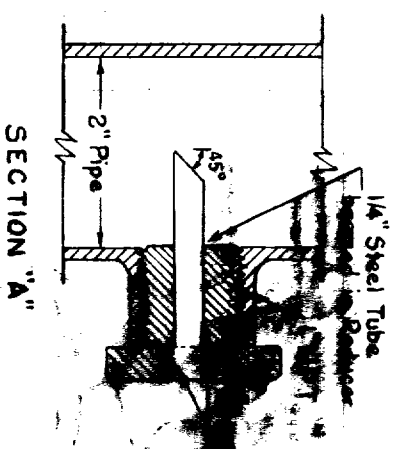
HOBBS CENTRAL BATTERY HOBBS FIELD

Drawn by J.F.U. Date R.L.S. Drawing No. 1
Date 2-7-61

SHELL EXHIBIT 4 CASE 2219



BILL OF MATERIALS



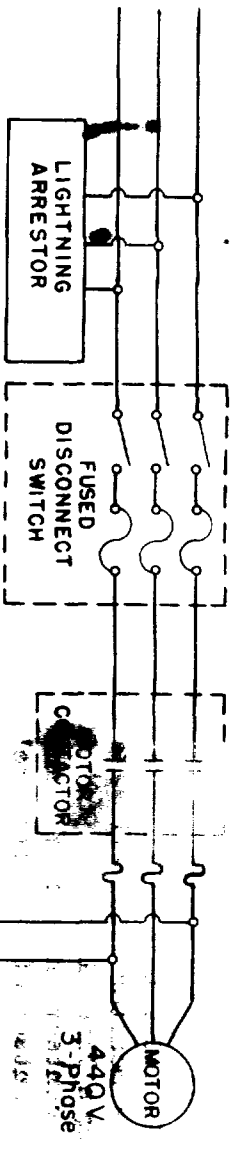
- NOTES:**

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- O-Ring Seals
- 1/4" NPT Opening into Cylinder
- SECTION B

HOBBS CENTRAL BATTERY HOBBBS FIELD

Date: 2-7-61
Dato R.L.S.

Drawing No.2

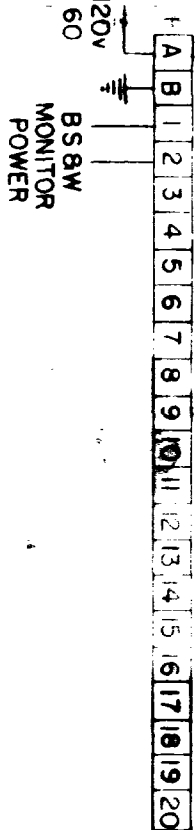


LEGEND

- 1 KVA, 440 V to 110 V Single-phase dry-type transformer mounted on back of panel
- BS & W monitor with fail safe circuit.
- Paragon Time Clock No. 664 or equivalent
- N.O. contact in monitor (Immediate closure w/bad oil)
- N.C. contact of fail-safe relay in monitor
- N.C. contact in monitor (Opens immediately on bad oil but has 30 second delay on return)
- Pressure switch (Differential type to control level)
- Set stop counter (Durant Model 5-SP-1-MF Productimeter or equivalent)
- DPDT relay, 5 amp, 120 V
- Auxiliary contact on motor contactor
- Low level float switch (Jumper terminals 6 and 7)
- Overload relays in magnetic starter
- Charging pump magnetic starter holding coil w/auxiliary contact
- Diverging valve solenoid
- P.D. Meter contacts (1 pulse per 4 bbls.)
- Preset Counter, 100 counts-Eagle Signal Microflex HZ 40 A6-R 242 or equivalent
- Sampler 3-way solenoid valve (Item No. 1, Drawing No. 2)
- 0-10 minute adjustable timer. (reset on power failure) (Eagle Signal Corp Cycl-Flex HP-24 or equivalent)

NOTES:

- All relay contacts shown in de-energized position. Pressure switch shown in "tank empty" position. Preset counter (PC) contact shown in "counting out" position.
- Weatherproof control box to be equipped to permit use of conventional pipeline seal. Mount monitor in separate panel or cover instrument with an enclosure that can be sealed.
- All wiring in control panels and on skid to be in accordance with National Electrical Code.
- Numbers on line diagram correspond to numbers on the terminal strip. Terminal strip to be placed near bottom of control panel.
- Skid to be completely wired by manufacturer w/exception of liquid level controls.
- Label all components in panel and use color coded wire.
- Include in manual descriptions and internal wiring diagrams of all timers and counters.



SHELL OIL COMPANY
ROSWELL DIVISION
SKID MOUNTED ACT UNIT
CONTROL CIRCUIT
HOBBS CENTRAL BATTERY HOBBS FIELD

Drawn by J.F.J. Date R.L.S. Drawing No 3
Date 2-7-61