# 3R - <u>293</u>

# GENERAL CORRESPONDENCE

YEAR(S): 1990 STATE OF NEW MEXICO



ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION

GARREY CARRUTHERS

May 31, 1990

POST OFFICE 80X 2088 STATE LAND OFFICE BUILDING SANTA FE. NEW MEXICO 87504 (505) 827-5800

R. E. Mathis Mesa Limited Partnership One Mesa Square P. O. Box 2009 Amarillo, Texas 79189-2009

Dear Mr. Mathis:

The New Mexico Oil Conservation Division (NMOCD) has reviewed and approves of Mesa Limited Partnership's May 23, 1990 proposal to install cathodically protected, double-lined steel underground tanks with a leak detection system for on-site storage of produced hydrocarbons at the Scott 1 and Scott 1E well sites located in Section 2. Township 29 North, Range 13 West.

The NMOCD requests that you notify the Aztec NMOCD office prior to installation of the tanks such that NMOCD may be given the opportunity to witness the installation.

Please be advised that NMOCD approval of this proposal does not relieve you of liability should your operation result in actual pollution of surface water, ground water or the environment which may be actionable under other laws and/or regulations. If you have any questions, please call me at (505) 827-5885.

Sincerely,

William C. Olson Hydrogeologist

WCO/sl

cc: F. Chavez, NMOCD Aztec Office



May 23, 1990

٦

New Mexico Oil Conservation Division P.O. Box 2088 Santa Fe, New Mexico 87501

Attention: David G. Boyer, Chief Environmental Bureau

Subject: Underground Tank Installation Scott 1 & 1E, Section 2, T29N, R13W San Juan County, New Mexico

Mesa is required by the City of Farmington Fire Code Regulations to install below ground tanks for produced hydrocarbons at the subject well sites.

Mesa proposes to install two "Sti-P<sub>3</sub> Horizontal Type I Double-Wall", steel cathodically protected underground tanks with a "soil sentry" leak detection system as per the attached using licensed installers. It is anticipated that a 6,000 gallon tank will be installed at the Scott IE and a 4,000 gallon tank at the Scott I well site.

Please advise as soon as possible if this installation meets the requirements of NMOCC regulations.

Sincerely,

R. E. Math

R. E. Mathis, C.E.P. Regulatory Agent

dp

xc: NMOCD - Aztec Production Engineering Regulatory

# sti-P.® Horizontal Type I Double-Wall Underground Tanks



# Sti-P3 Horizontal Type I Double-Wall Underground Tanks

CAPACITY (Gallons)			OUTER TANK			
	INNER TANK DIAMETER LENGTH		MIN. THK.	SHELL MIN. THK.	HEAD MIN. THK.	WEIGHT POUNDS
560	4'	6′	10 ga.	.135″	,135″	1100
1000	64″	6′	10 ga.	.135"	.135″	1600
2000	64″	12′	7 ga.	,135″	,179″	2695
3000	64″	18′	7 ga.	.135″	,179"	4700
4000	7'	13′10″	7 ga.	.135"	.179″	4980
- 6000	8′	16'	1/4"	.135″	.179"	7570
8000	8'	<b>2</b> 1′	1/4″	.135″	.179*	10060
10000	8′	27′	1/4″	,135″	.178″	12430
12000	8′	32′	1/4″	.135″	.179″	14410
15000	11'	21	5/16″	.179"	1/4″	18940
15000	10'	25′6″	5/16″	.179″	1/4"	19700
20000	11'	28′	5/16″	.179"	1/4"	22580
20000	10′	34′	5/16″	.179"	1/4″	25060
25000	11'	36'	3/8"	.179"	1/4″	38820
30000	11′	42′	3/8″	.179″	1/4″	37690
50000	12'	60′	3/8″	.1 <b>79</b> ″	1/4"	56950

## OTHER TANK SIZES AVAILABLE UPON REQUEST.

## STANDARD SPECIFICATIONS

Built per UL Type I Double Wall Tanks and sti-P3. Tanks will bear Underwriter and sti-P3 Labels.

BMT Standard 88 Opening Locations and (2) lifting lugs.

• Exterior is painted and sandblasted per sti-P3 requirements.

PRO-88

1990-04-30 09:00

-----

# SOIL SENTRY LIQUID 130

# Double-wall storage tank annular space monitoring system

and the second secon





# Soil Sentry Liquid 130: Advanced optical sensing for reliable liquid detection

The Soil Sentry Eiquid 130 is the leak monitoring system you don't spend all your time monitoring.

A fully self-checking, intrinsically safe system, the Soil Sentry accurately monitors the annular space of your tanks for the presence of liquid, notifying you at the first sign of trouble.

### Advanced optical sensors

Each liquid sensor in the U.L.-Listed Liquid 130 system is an advanced optical probe, providing reliable, worry-free liquid detection. Optical detection means you don't have to worry about moving parts to wear out, floats to jam or hang up or temperature changes that could confuse thermal probes.

The Soil Sentry probes detect liquid using infra-red light. In use, a pulsed beam of light is aimed at the tip of the probe. If the tip is dry, the light is reflected off the sides of the tip and back to an optically matched phototransistor, completing an optical circuit and sending a "dry" signal to the controller. If the tip is wet, however, light is refracted out from the probe, breaking the cir-

cult with the phototransistor causing a "wet" signal to be relayed to the controller.

Inside the annular space of a double-wall tank, optical sensing provides immediate detection of even small accumulations of liquid at the tip of the probe. The same probe can be used as a high-level alarm. In addition, a "dry" signal probe can be used as a low-level alarm inside the tank to notify you when the product inventory dips below a specified level.

The Soil Sentry system is designed for easy installation. Liquid sensors are placed either inside the tank for product level sensing, or in the annular space for leak detection. A twoconductor cable is routed from the probes to the controller, mounted on a wall inside your facility. Two controllers are available; the 130A for one or two probes and the 130C for up to six.

#### Simple operation

On-going monitoring is equally as simple. A series of LED's on the front panel of the controller allow you to check the system status at a glance. Continuously flashing LEO's tell you the microprocessor is on duty and the system is functioning properly. If a regulator wants to verify the operation of the system, an automated test routine takes just the push of a button and will report the status of up to six sensors in just a few minutes.

To verify operation of many other systems, sensors must be removed from the tank, manually tested and then repositioned. And there is no way to be certain the sensors are working once they are re-installed in the tank.

### **Optical Probe Options**

The Liquid 130 system requires optical sensing probes, which communicate "wet" or "dry" messages from the annular space of your tank to the system controller. Two basic types of probes are available, and should be specified depending upon the size of the annular space.

The 141 probe is threaded, allowing for easy mounting into standard threaded pipe fittings. It is available in two styles, one to signal an alarm when the probe registers as "wet" (the 141A) and one to signal an alarm when it registers as "dry" (the 141B).

The 142 probe is a lower profile probe, designed for use in smaller annular spaces. It is also available in two styles, one to signal a "wet" alarm (the 142A) and one to signal a "dry" alarm (142B).

![](_page_6_Picture_16.jpeg)

For more information about Soil Sentry annular space or active vapor underground monitoring systems, contact Arizona Instrument, Genelco Division at 1-800-528-7411. In Arizona, 1-731-3400.

![](_page_6_Picture_18.jpeg)

![](_page_6_Figure_19.jpeg)

STATE OF NEW MEXICO OIL CONSERVATION DIVISION MEMORANDUM OF MEETING OR CONVERSATION Time Date Telephone 27/90 ] Personal 1358 Other Parties Originating Party Mile Dolley Sinut Olson ĊĽ UST Contra ġ Z 26-Subject Mesa S,te Farmin Lea To Discussion OCD requires 50 5 OCD mile 1Cs ้า He with double willer q Us por én. 1235 C112 C site (15T 27 14 1Curoure W.bc. 5.C. C+ 4. Periles deta CRY Conclusions or Agreements Mesa Ho\_ Viz-Spels Orepane. Billi Signed Distribution

· . STATE OF NEW MEXICO OIL CONSERVATION DIVISION MEMORANDUM OF MEETING OR CONVERSATION Time Date 4/27/90 1354 Telephone Personal Originating Party Other Parties - OCD Asta 15:11 OLD Santa Frank 1192 Subject site Ferrino, tim -ink Corre lle.s. Discussion Mike Dolley (326-1118) Aske 4.5007 Ce. 1157'J' OCD requirements 0-Conclusions or Agreements will Ĺ Bill Distribution Signed -707\_

STATE OF NEW MEXICO OIL CONSERVATION DIVISION MEMORANDUM OF MEETING OR CONVERSATION Time Date 25/90 Telephone 4 0835 Personal Originating Party Other Parties Olson (0C)Νl 311 SIMAN Subject Farmini  $\lambda$ leur Discussion M C bareman F (n) 60 0 Ø 1.14 Ta 2 4 11 3 بيرك hee K. 5 DU (Q Murl preman 46 Û 509 Conclusions or Agreements G iTin ι h (enn COR him ζ **Distribution** Signed Ar

.

MEMORANDUM OF MEETING OR CONVERSATION

Time Date 4/25/90 Telephone 2800 Personal Originating Party Other Parties f DOCD ( nonten 16iles 52 Subject EPNG Turley Cath Fur my Blav Di 123 Discussion Farmi SAL 56 Coure 36 Alin V isle 1esu 1050 S. 378-1000 061 erenna Brown Geron Farmilyter 73 Churles Core 50 67 e Hi TE .5 Conclusions or Agreements Misa a se 1 Bill Signed **Distribution** -Jan NGB

OIL CONSERVATION DIVISION

STATE OF NEW MEXICO

STATE OF WMEXICO TION MEMORANDUM OF MEETING OR CONVERSATION Time 9:30AM Date 4/9/90 X Telephone Personal Originating Party Other Parties bis Mesa Petroleum Bai OYPR 886 8-4 #1 K-2-29 13W Discussion an an colo C11 1 Conclusions or Agreements Am Rurek C Signed Distribution bist 3File.

![](_page_12_Figure_0.jpeg)

SICAL SURVEY, DENVER, COLORADO 80225, OR RESTON, VIRGINIA 22092 BING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

![](_page_13_Figure_0.jpeg)

STATE OF CONSERVATION MEMORANDUM OF MEETING OR CONVERSATION Time Date 4/25/90 Telephone Personal 0800 Originating Party Other Parties Churker OCD 03 on Subject Nesa Petro Firminton Leak EPNG Turley Cathoda Lell Blavon em Discussion Mesc the armiston Soil Loove 5h ground m ET he CA M 60 56 ingrou K an res (806) 378-1000 Foreman Ameril Brown Geron Farmilyton 327-6173 Churles besan Inie he her les 160 67 Cathonic 10 rrley e tester 6 Conclusions or Agreements Misa on 1 1C, Bil Distribution Signed Day DGB