

mbok

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WELL DRILLER'S REPORT

Please complete this form in its entirety in accordance with NRS 534.170 and NAC 534.340

NOTICE OF INTENT NO. **11239**

1. OWNER **SOUTHLAND CORP** ADDRESS AT WELL LOCATION **15 N. LAMB Blvd**
MAILING ADDRESS **7167 S. Altan Way Englewood CO 80112**

2. LOCATION **SE 1/4 SE 1/4 Sec 31 T 20 S R 62 E Clark** County
PERMIT NO. **M/O-541** Issued by Water Resources Parcel No. Subdivision Name

3. WORK PERFORMED
 New Well Replace Recondition Deepen Abandon Other

4. PROPOSED USE
 Domestic Municipal/Industrial Irrigation Monitor Test Stock

5. WELL TYPE
 Cable Rotary RVC Air Other

6. LITHOLOGIC LOG **RW-3**

Material	Water Strata	From	To	Thickness
Fill	N	0	1	1
SILTY CLAY-w/sand	N	1	8	7
SANDY CLAY	N	8	17.0	9
CALICHE	Y	17	18	1
SILTY CLAY-w/sand	Y	18	25	7

8. WELL CONSTRUCTION
Depth Drilled **25** Feet Depth Cased **25** Feet

HOLE DIAMETER (BIT SIZE)
From **11 7/8** Inches To **25** Feet
Inches Feet Feet
Inches Feet Feet

CASING SCHEDULE

Size O.D. (Inches)	Weight/Ft. (Pounds)	Wall Thickness (Inches)	From (Feet)	To (Feet)
6		3/4 NC	0	25

Perforations:
Type perforation **slotted screen**
Size perforation **0.20 inch**
From **25** feet to **5** feet
From _____ feet to _____ feet

Surface Seal: Yes No Seal Type:
Depth of Seal **3.5** Neat Cement
Placement Method: Pumped Cement Grout
 Poured Concrete Grout

Gravel Packed: Yes No
From **2.5** feet to **4** feet

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Branch Office - Las Vegas, NV

9. WATER LEVEL
Static water level **7.98** feet below land surface
Artesian flow _____ G.P.M. _____ P.S.I.
Water temperature _____ °F Quality _____

Date started **4/14**, 19**92**
Date completed **4/14**, 19**92**

10. DRILLER'S CERTIFICATION
This well was drilled under my supervision and the report is true to the best of my knowledge.
Name **Tim Hen WTEC** Contractor
Address **3611 W. Tompkins Ave Las Vegas NV 89103** Contractor
Nevada contractor's license number issued by the State Contractor's Board
Nevada driller's license number issued by the Division of Water Resources, the on-site driller **M1761**
Signed **[Signature]**
By driller performing actual drilling on site or contractor
Date **5/19/92**

7. WELL TEST DATA

TEST METHOD: Bailer Pump Air Lift

G.P.M.	Draw Down (Feet Below Static)	Time (Hours)
10.5	2.12	7.5



**WT Environmental
Consultants**

4085 Nevso Drive, Suite G
Las Vegas, Nevada 89103
702 252 0773 fax • 252 0580

June 5, 1991

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JUN 19 1991
Div. of Water Resources
Branch Office • Las Vegas, NV

State of Nevada
Division of Water Resources
123 W. Nye Lane
Carson City, Nevada 89710

M0541

Attention: State Engineer

Project No. 7470K271

Reference: Groundwater Monitoring Well Closure
15 N. Lamb Boulevard
Las Vegas, Nevada

Dear Sir:

WT Environmental Consultants (WTEC) is pleased to provide this letter which presents the closure of five monitoring wells and one recovery well at the above referenced site. The wells are owned by National Convenience Stores and are located in the southeast quarter of the southeast quarter of Section 31, Township 20 South, Range 62 East in the City of Las Vegas, Nevada. Prior to well closure, each well was active and in good condition. The wells were used for environmental purposes.

On May 10, 1991, WTEC mobilized a drill rig to the site to either remove the casing or rip the casing by drilling it out. Of the six well casings, only one was able to be removed without drilling. The remaining five were drilled out with the drill rig. As stated in Section 534.420 of the Regulations for Water Well and Related Drilling, plugging of the holes was accomplished by backfilling each hole with neat cement.

The well closure for each well was completed by the following licensed driller:

Greg Ogle
License No. M1761
Western Technologies Inc.

Mr. Ogle, who works for Western Technologies Inc., was subcontracted through WTEC.

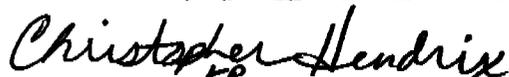
If you have any questions or require any additional information, please do not hesitate to contact this office.

Sincerely,

WT ENVIRONMENTAL CONSULTANTS INC.



ROBERT N. THOMPSON
Environmental Geologist



CHRISTOPHER HENDRIX
Technical Manager

cc: Mr. Gary Woodman
Mr. Greg Ogle
Mr. Anthony Dillard

/dar

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Div. of Water Resources
Branch Office - Las Vegas, NV

February 21, 1991

Mr. Bill Quinn
Nevada Department of Conservation
and Natural Resources
1515 East Tropicana Avenue, #375
Las Vegas, Nevada 89119

86-2145.32

Subject: Monitoring and recovery wells at the former National Convenience Stores, Inc. (NCS) Stop-N-Go Store 11-358, 15 N. Lamb Boulevard, Las Vegas, Nevada.

Dear Mr. Quinn:

Per our conversation on February 12, 1991 enclosed is a map showing monitoring and recovery well locations for the former NCS Stop-N-Go Store 11-358 in Las Vegas, Nevada. The wells are located in the SW 1/4, SW 1/4, Section 32, Township 20 South, Range 62 East. They were initially installed by NCS to monitor and to recover hydrocarbons that had leaked from the underground tanks at the site and had entered the ground water.

The site was separated into two sites as a result of a land transfer and an additional release of hydrocarbons by the new landowner. This separation was approved through a letter from Brian Perkins, of the Nevada Division of Environmental Protection, on December 27, 1990. Table 1 specifies the parties currently responsible for the existing wells.

By no later than March 15, 1991, NCS must abandon four of the monitoring wells (11, 12, 13, and 14) to prevent wellhead destruction as a result of street renovations being conducted by the Nevada Department of Transportation (NDOT). We request permission to abandon these wells by gravity installation of neat cement into the well casing, without drilling out the well casing. Each well will be bailed dry immediately prior to pouring the cement. All work will be done by a licensed driller in the state of Nevada. This request is based upon the following site-specific conditions:

- o The space between the well casing and the well bore is sealed with cement in the unscreened portion of the borehole from the ground surface down.

Mr. Bill Quinn
February 21, 1991
Page 2

- o All well locations will be covered with asphalt or cement, which will prevent downward percolation of water and, therefore, any surface infiltration.

We also request a waiver on the 50-foot annular seal requirement and also for the use of PVC to construct a replacement monitoring well 13. The approximate location of the proposed new well is shown in Drawing 2. The well will be constructed using 2-inch Schedule 40 flush-threaded PVC casing and slotted screen. The screened section will extend from approximately 5 feet to 15 feet below grade. The bottom of the casing will be sealed with a threaded PVC end plug. A gravel pack will be placed around the slotted casing to a depth of 1/2 foot above the slots, and a 2-foot thick hydrated bentonite seal will be placed above the gravel pack. The unslotted portion of the casing will be grouted with a neat cement grout from the top of the bentonite seal to the ground surface. The well head will be completed in a protective well cover that is mounted flush with the ground surface and capable of supporting vehicular traffic. A locking cap will be placed on top of the 2-inch casing. A typical well construction diagram is shown in Drawing 3.

We request an expedient response on the well abandonment because of the March 15, 1991 deadline imposed by NDOT. Please contact me if you have any questions or require more information.

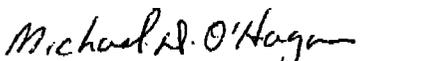
Sincerely,

The MARK Group,
Engineers & Geologists, Inc.



Allison T. Urbon Massey
Senior Technician

Reviewed and approved by:



Michael D. O'Hagan
Director of Waste Technology

Enclosure

Table 1: Responsible Parties of Monitoring and Recovery Wells

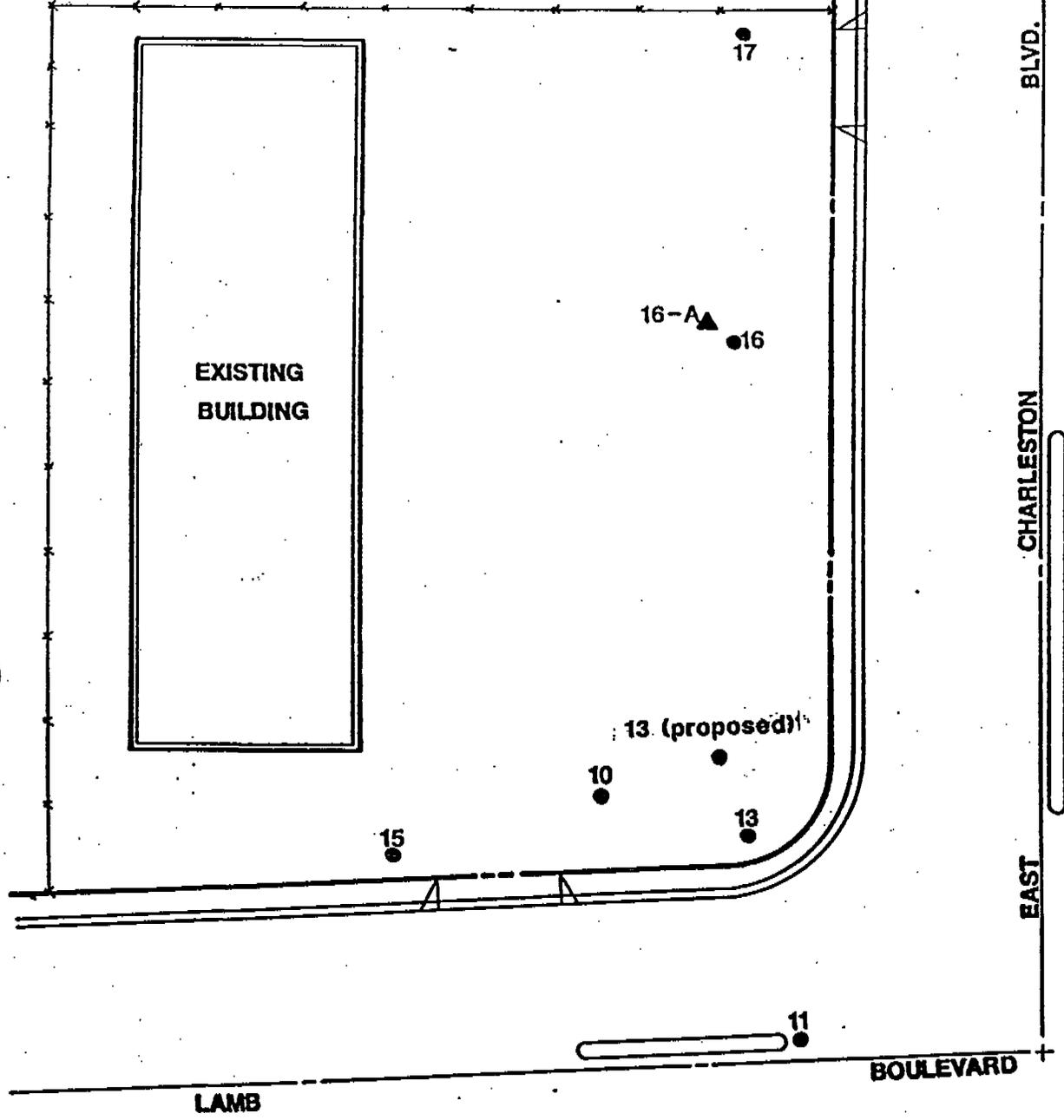
Well Number	Responsible Party
1*	Southland
2	Southland
3	Southland
3A*	Southland
4	Southland
5	Southland
5A*	Southland
6	Southland
7	Southland
8	Southland
9	Southland
10	NCS
11	NCS
12	NCS
13	NCS
14	NCS
15	NCS
16	NCS
16A*	NCS
17	NCS

*Recovery Well

Prepared By _____ Approved By _____ Date _____ AUM _____



NTS



EXPLANATION

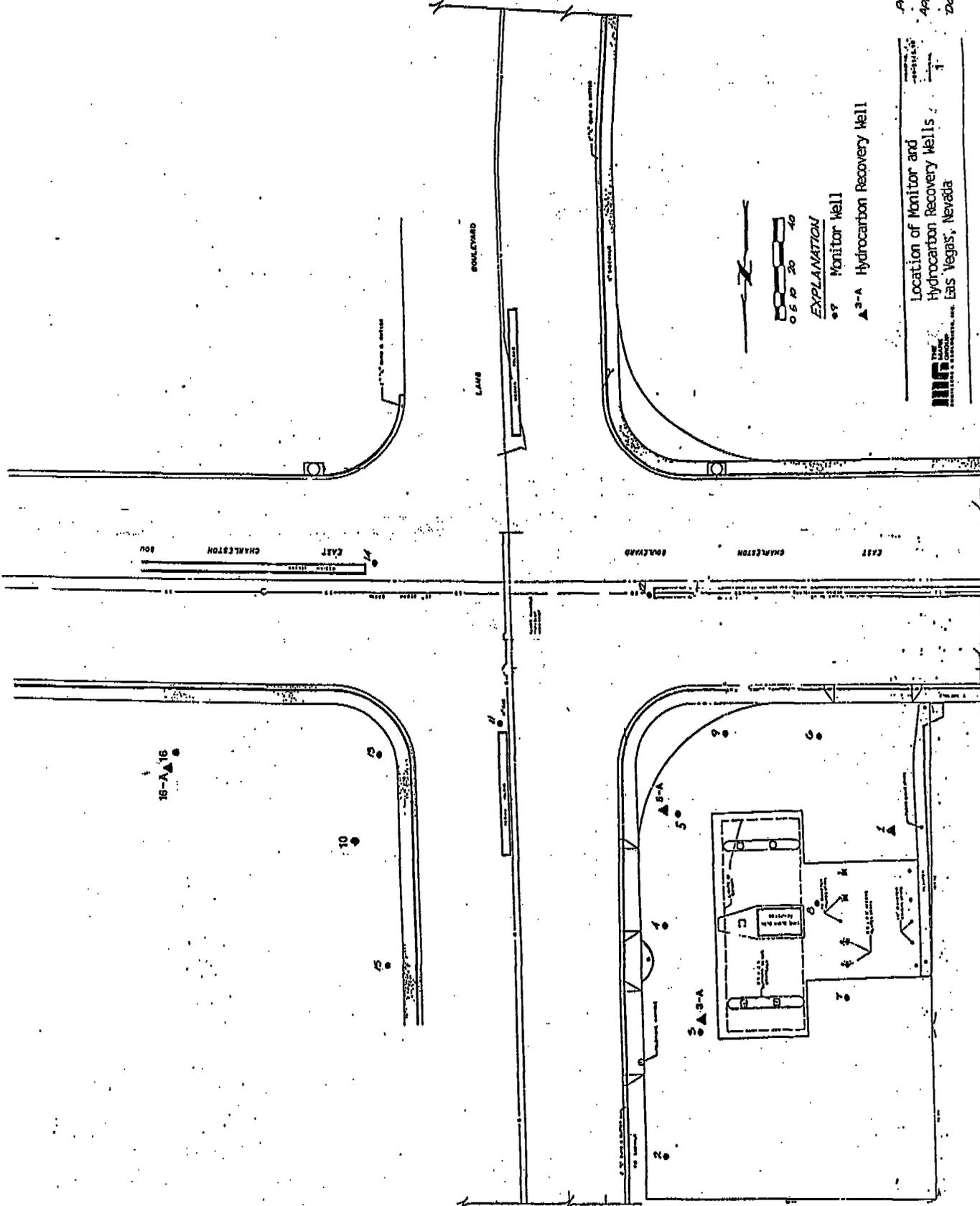
- 11 MONITORING WELL
- ▲ 16-A HYDROCARBON RECOVERY WELL

**LOCATION OF MONITORING AND
HYDROCARBON RECOVERY WELLS
WELL 16-A SITE
LAS VEGAS, NEVADA**

PROJECT NO.
86-2145.3

DRAWING NO.
2





0 5 10 20 40

EXPLANATION

○ Monitor Well

▲ 3-A Hydrocarbon Recovery Well

Prepared by: _____
 Approved by: _____
 Date: _____

THE LAS VEGAS
 ENVIRONMENTAL & CONSTRUCTION, INC.

Location of Monitor and
 Hydrocarbon Recovery Wells
 Las Vegas, Nevada