

TEAM COMPLETIONS L.L.C

UIC Class 1 Permit Application
for
WELL NO. WEBER 4-8

Presently permitted as
Class II, Type "D"
Permit #MI-055-2D-C034

Prepared by:

RESOURCES SERVICES USA

May 2008

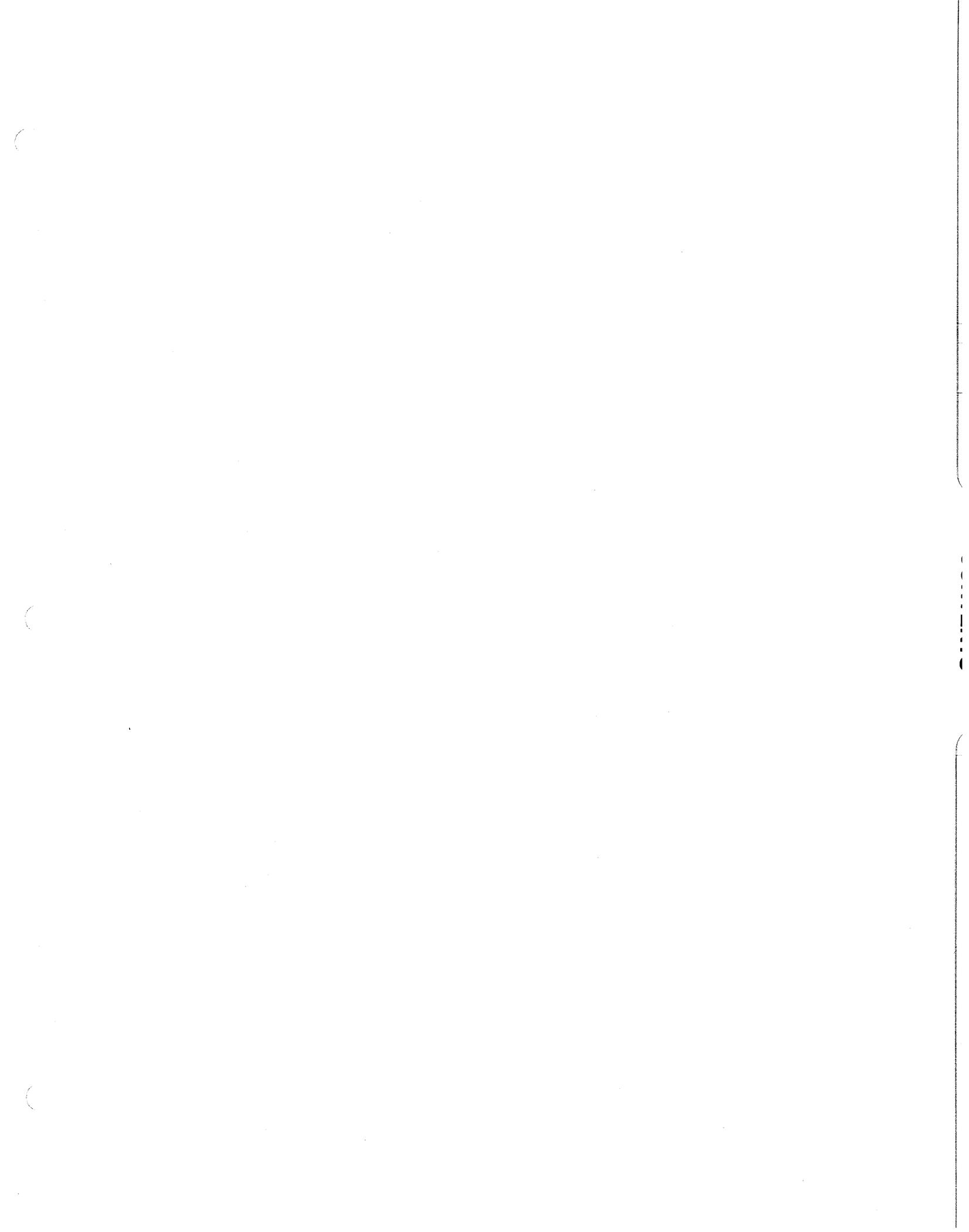


TABLE OF CONTENTS

APPLICATION EPA FORM 7520-6	
AREA OF REVIEW	A
MAPS OF AREA AND AREA OF REVIEW	B
WELL DATA AND CORRECTIVE ACTION PLAN	C
UNDERGROUND SOURCES OF DRINKING WATER <i>Information on underground source of drinking water included in Attachment D</i>	D E
MAPS AND CROSS SECTIONS OF GEOLOGIC STRUCTURE OF AREA <i>Geological data on injection and confining zones included in Attachment F</i>	F G
OPERATING DATA	H
MAXIMUM INJECTION PRESSURE/FRACTURE CLOSURE PRESSURE	I
WELL STIMULATION	J
INJECTION PROCEDURES	K
SUMMARY OF LOGS AND TEST RUN THE PAST FIVE YEARS	L
CONSTRUCTION DETAILS (Well Schematic) <i>Applies to Class III wells only</i>	M N
PLANS FOR WELL FAILURE	O
MONITORING PROGRAM	P
PLUGGING AND ABANDONMENT PLAN	Q
FINANCIAL ASSURANCE MECHANISM <i>Aquifer Exemptions (NOT REQUIRED)</i>	R S
EXISTING EPA PERMITS	T
DESCRIPTION OF BUSINESS	U
MICHIGAN DEQ FORMS AND ADDITIONAL INFORMATION	V
MDEQ Form 7200-1 (Application For Permit)	
MDEQ Form 7200-3 (Environmental Impact Assessment)	
MDEQ Form 7200-14 (Injection Well Data)	
Surveyed Plat of Well Location	



United States Environmental Protection Agency

**Underground Injection Control
Permit Application**

(Collected under the authority of the Safe Drinking Water Act. Sections 1421, 1422, 40 CFR 144)

I. EPA ID Number

	T/A	C
U		

Read Attached Instructions Before Starting
For Official Use Only

Application approved mo day year	Date received mo day year	Permit Number	Well ID	FINDS Number

II. Owner Name and Address

III. Operator Name and Address

Owner Name Team Completion, L.L.C.			Owner Name Team Completion, L.L.C.		
Street Address PO Box 1104		Phone Number (231) 258-9130	Street Address PO Box 1104		Phone Number (231) 258-9130
City Kalkaska	State MI	ZIP CODE 49646	City Kalkaska	State MI	ZIP CODE 49646

IV. Commercial Facility

V. Ownership

VI. Legal Contact

VII. SIC Codes

<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Private <input type="checkbox"/> Federal <input type="checkbox"/> Other	<input checked="" type="checkbox"/> Owner <input type="checkbox"/> Operator	SIC Codes Oil and Gas - 1311 (NAICS - 211111) Sanitary Landfill - 4953 (NAICS - 562212)
--	---	--	---

VIII. Well Status (Mark "x")

<input checked="" type="checkbox"/> A. Operating	Date Started mo day year 07/23/2004	<input checked="" type="checkbox"/> B. Modification/Conversion	<input type="checkbox"/> C. Proposed
--	---	--	--------------------------------------

IX. Type of Permit Requested (Mark "x" and specify if required)

<input checked="" type="checkbox"/> A. Individual	<input type="checkbox"/> B. Area	Number of Existing Wells 1	Number of Proposed Wells 1	Name(s) of field(s) or project(s) Weber 4-8 Salt Water Disposal Well
---	----------------------------------	-------------------------------	-------------------------------	---

X. Class and Type of Well (See reverse)

A. Class(es) (enter code(s)) II	B. Type(s) (enter code(s)) D	C. If class is "other" or type is code 'x,' explain Presently permitted as Class II, Type D Proposed as Class II Type D and Class I non-hazardous.	D. Number of wells per type (if area permit) 1
---------------------------------------	------------------------------------	---	---

XI. Location of Well(s) or Approximate Center of Field or Project

XII. Indian Lands (Mark "x")

Latitude			Longitude			Township and Range					Feet From		Line		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Deg	Min	Sec	Deg	Min	Sec	Sec	Twp	Range	1/4 Sec	Feet From	Line	Feet From	Line		
						8	25N	11W	SE	1115	N	1209	E		

XIII. Attachments

(Complete the following questions on a separate sheet(s) and number accordingly; see instructions)

For Classes I, II, III, (and other classes) complete and submit on a separate sheet(s) Attachments A-U (pp 2-6) as appropriate. Attach maps where required. List attachments by letter which are applicable and are included with your application.

XIV. Certification

I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR 144.32)

A. Name and Title (Type or Print) Don Tinker, Member	B. Phone No. (Area Code and No.) (231) 357-1016
C. Signature 	D. Date Signed 06/25/2008



ATTACHMENT A
AREA OF REVIEW

An Area Of Review (AOR) of a radius of 1/4 mile from the well bore was used for this permit application. A volumetric fillup calculation of the area of the emplaced fluid showed that the injected fluid would be less than 1/4 mile (1320') from the well bore after 30 years of injection at an average rate of 87.5 GPM or 3000 BPD.

The volumetric fillup calculation was made utilizing the following formula:

$$r = \sqrt{\frac{(Q) \times (.1337)}{(\pi h \Phi) \times (1 - S_w)}}$$

where: r = radius of volumetric fillup (feet)
 Q = volume of waste injected (gallons)
 π = 3.1416
 h = thickness of injection zone (feet)
 Φ = porosity expressed as decimal
 Sw = immoveable water saturation

Solution after 10 years of injection at average rate of 3000 BPD or 87.5 GPM:

Q = 459,900,000 gals.
h = 450 feet
Φ = 12.0 %
Sw = 30 %

$$r = \sqrt{\frac{(459,900,000) \times (.1337)}{(3.1416 \times 450 \times 0.12) \times (1 - .30)}} = 720'$$

Solution after 20 years of injection at average rate of 3000 BPD
or 87.5 GPM:

$$Q = 919,800,000 \text{ gals.}$$

$$h = 450 \text{ feet}$$

$$\Phi = 12.0 \%$$

$$S_w = 30 \%$$

$$r = \sqrt{\frac{(918,800,000) \times (.1337)}{(3.1416 \times 450 \times 0.12) \times (1 - .30)}} = 1018'$$

Solution after 30 years of injection at average rate of 3000 BPD
or 87.5 GPM:

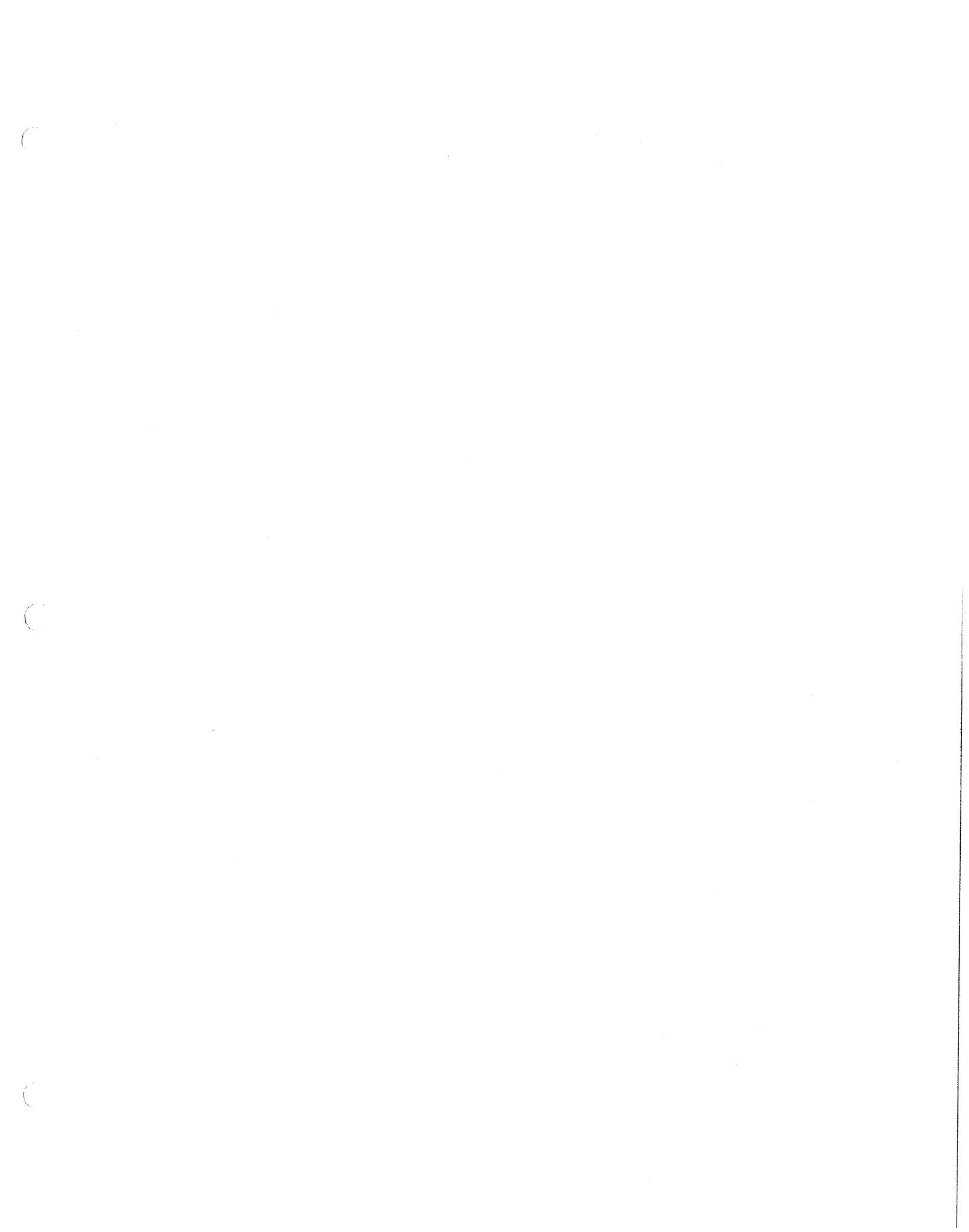
$$Q = 1,379,700,000 \text{ gals.}$$

$$h = 450 \text{ feet}$$

$$\Phi = 12.0 \%$$

$$S_w = 30 \%$$

$$r = \sqrt{\frac{(1,379,700,000) \times (.1337)}{(3.1416 \times 100 \times 0.12) \times (1 - .30)}} = 1246'$$



ATTACHMENT B
MAPS OF AREA AND AREA OF REVIEW

The following maps are included in this Attachment:

- A state map indicating plant location.
- Local map showing surface and subsurface location off all wells found within the 1/4 mile Area of Review (AOR) that penetrate the proposed injection zone.
- Local map showing 1/4 mile AOR and all wells found that penetrate the proposed injection zone within Section 8, the West Quarter of Section 9, the South Quarter of Section 5 of Township 25 North, Range 11 West of Grand Traverse County Michigan.
- A Topographic map showing residences, roads, surface facilities, bodies of water, well locations and 1/4 mile Area of Review. Property Owners Within the Area of Review (AOR) are shown on Table B-1.

Figure B-2

Local map showing surface and subsurface location off all wells found within the 1/4 mile AOR) that penetrate the proposed injection zone.

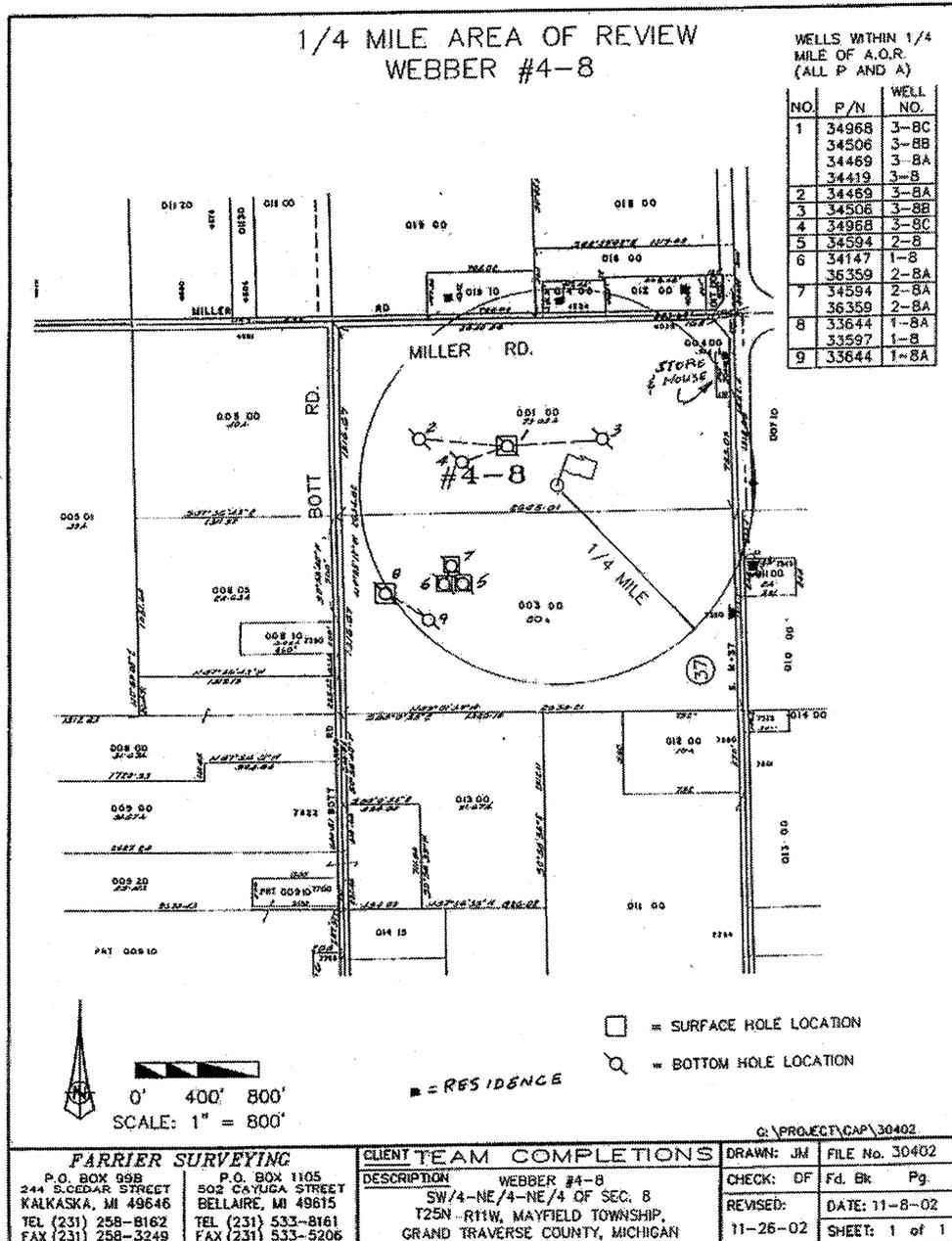
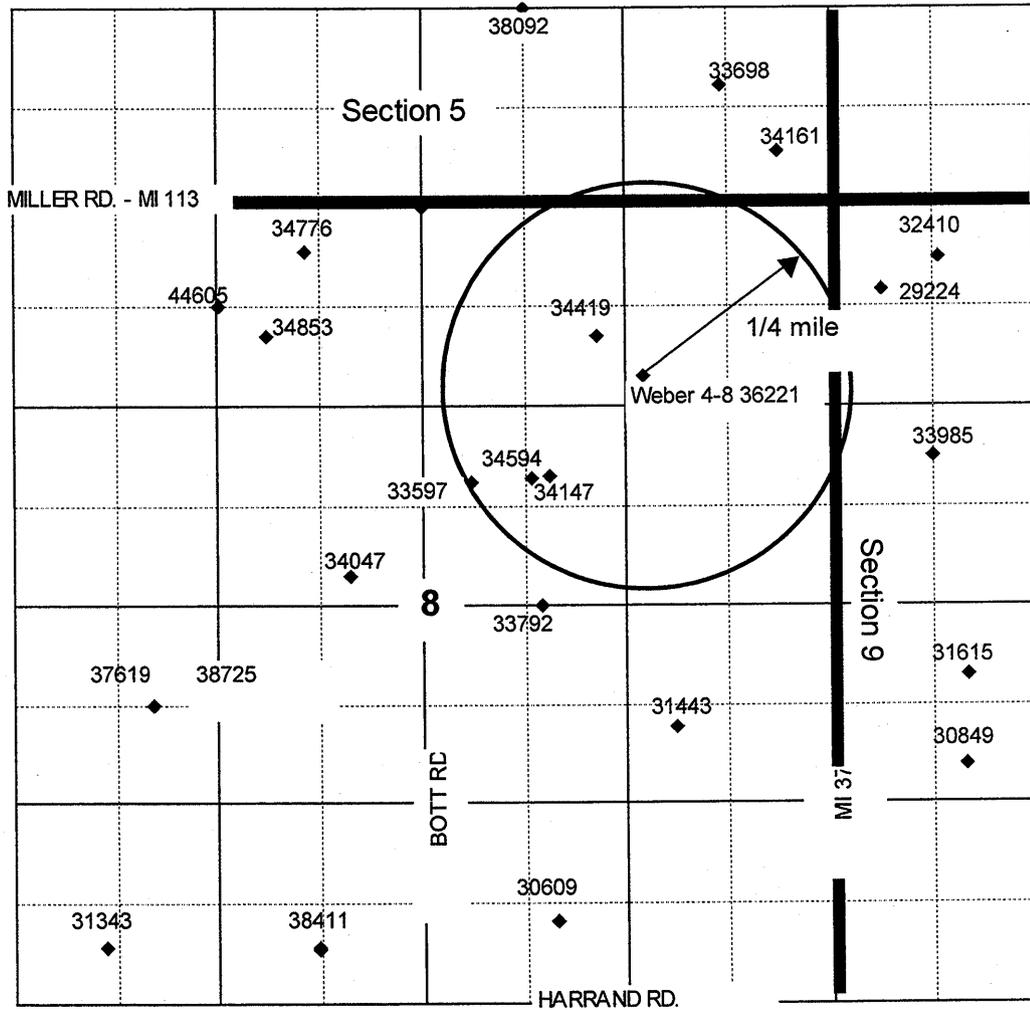


Figure B-3

Local map showing all wells found that penetrate the proposed injection zone within the West quarter of Section 9, South quarter of Section 5 and all of Section 8 of T25N, R11W, Grand Traverse County MI



Surface location of vertical drilled wells shown on map. See Figure B-2 for bottom location of Directional drilled wells within 1/4 mile AOR.

- MI Permit # 36221 Weber 4-8
- MI Permit # 33597 Bott Berry 1-8
- MI Permit # 34147 Berry et al 1-8
- MI Permit # 34419 Weber 3-8
- MI Permit # 34594 Berry 2-8

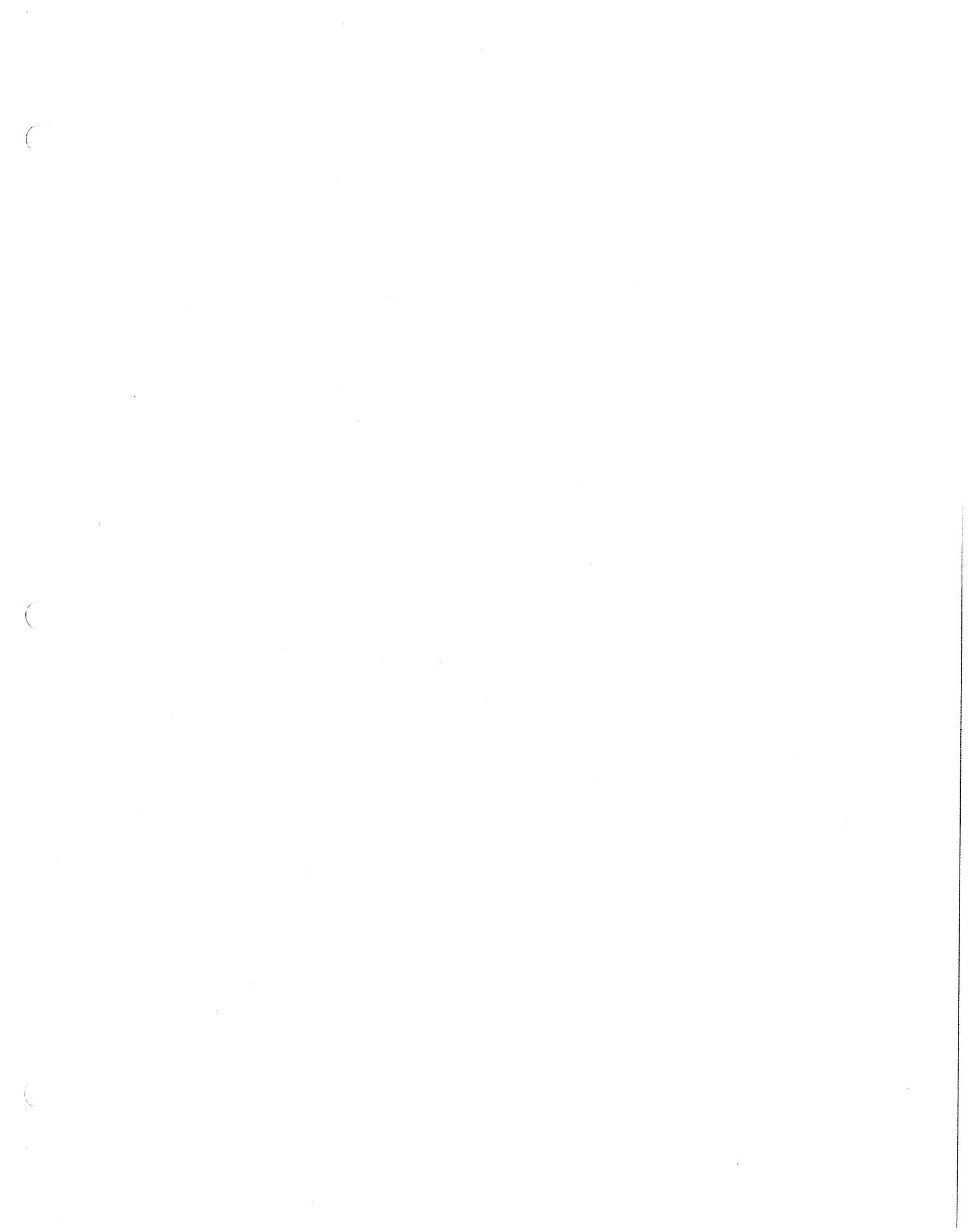
figure
B-4

TABLE B-1

Property Owners Within Sec. 4, 5, 8 and 9 of T25N, R11W
Mayfield Township, Grand Traverse County, Michigan.

<u>TAX ID # (28-09)</u>	<u>Owner</u>	<u>Address</u>
004-010-00	Jim Schmuckal	S.M 37
004-010-10	Laurel & York Ash	Jasper Tr.
004-010-11	Heather Pfau & Nick Kreiser	6701 Jasper Tr.
004-010-20	Brian Steinebach	M 113
004-010-40	Elizabeth Hewlette	3730 W M 113
004-010-50	Sheryl Mcmorris	3712 W M 113
004-010-55	Brad & Cory Swy	3694 W M 113
004-010-60	Joe Galligan	Jasper Tr.
004-010-65	Laurel & York Ash	Jasper Tr.
004-010-70	Laurel & York Ash	6655 Jasper Tr
004-013-00	Jesse Bishop	6901 S M 37
005-009-00	Karl Stevens	4516 Miller Rd
005-011-00	Kathy Jacobs	4680 Miller Rd
005-011-20	Kathy Jacobs	4680 Miller Rd
005-011-21	Suzanne Jacobs	4622 Miller Rd
005-011-30	Mason Stevens	4606 Miller Rd
005-012-00	Mary Jo Lhamon	4068 Miller Rd
005-014-00	Allen Deater	4224 Miller Rd
005-014-01	Jason Deater	4170 Miller Rd
005-015-00	Al Howard	SM ?
005-016-00	Peggy Herndon	
005-019-00	Wayne Bancroft	5150 Miller Rd
005-019-10	Michael Moore	4342 Miller Rd
008-001-00	Weber	
008-001-01	Weber	4029 Miller Rd
008-003-00	Berry	7390 S M37
008-004-00	Herdon	7082 Miller Rd
008-005-00	Miller	4691 Miller Rd
008-008-05	Joe Wolf	7288 Bott Rd
008-008-10	Justin Wolf	7390 Bott Rd
008-008-00	Owen Bott	
008-009-00	Ron Bott	7622 Bott Rd
008-009-10	Greg Bott	7700 Bott Rd
008-009-20	Frank Bott	7134 Hannah Rd
008-011-00	Stan Wolf	7764 S M37
008-012-00	Rodney Nesky	7580 S M37
008-012-01	???	
008-013-00	William Bott	Bott Rd
009-007-10	Peggy Herndon	W M 113
009-007-11	Patricia Kelly	3791 W M 113
009-010-00	Dorothy Weber	7305 S M 37
009-011-00	Weber Trust	7345 S M 37
009-013-00	Armond Snyder	7601 S M 37
009-014-00	Brad Vanwingerden	7525 S M 37

From Mayfield Township Zoning Administraton



ATTACHMENT C
WELL DATA AND CORRECTIVE ACTION PLAN

In addition to the presently permitted Weber #4-8 salt water disposal well, there are 4 other vertical penetrations of the proposed injection zone within the 1/4 mile Area of Review. Three of the wells were directionally drilled and this information is summarized below. The surface locations of all five wells and the subsurface locations of the three directionally drilled wells are shown Figure B-2.

Construction details for the Weber #4-8 saltwater disposal well are presented in Attachment "M". The other vertical well in the AOR is the Berry et al 1-8 (Permit #34147). Drilling started on this well in December 1980. After the hole was lost at 771', a cement plug was set and the well re-drilled to a depth of 6112'. The Berry et al 1-8 was plugged on December 10, 1982.

Construction and plugging records for Berry et al 1-8 and the other three wells drilled within the 1/4 mile Area of Review are included at the end of Attachment "C".

Directionally Drilled Wells Within AOR

Well Name & Number	Permit No.	Start Drilling	Drilling Completed	Total Depth	Status
Bott Berry 1-8	33597	03-16-80	03-31-80	6220	Plugged 10-06-80
Weber 3-8	34419	03-18-81	03-31-81	6273	Plugged 06-13-86
Berry 2-8	34594	05-16-81	05-25-81	6225	Plugged 02-06-86

Bott Berry #1-8 (Permit # 33597)

The Bott Berry #1-8 was drilled as a vertical well in March 1980. On April 1, 1980, cement plugs were set in the Bott Berry #1-8 (Permit # 33597) and the well directionally drilled. This directional drilling performed under Michigan Permit Number 33644 is summarized below:

Well Name & Number	Permit No.	Start Drilling	Drilling Completed	Total Depth	Status
Bott Berry 1-8A	33644	04-02-80	04-10-80	6310	Directionally drilled from 4416' to 6310' MD (4416' to 6208.6' TVD)

Cement Plugs:

Apr. 1, 1980 100 sacks spotted with open ended drill pipe at 6150'
 200 sacks kick off plug spotted at 4850'.

Apr. 10, 1980 125 sacks spotted with open ended drill pipe at 6270'
 240 sacks kick off plug spotted at 3850'.

Sep. 1980 Removed 8 5/8" casing from 2904'. Spotted 75 sacks
 cement at 2945'. Spotted 75 sacks cement at 1831'.
 Spotted 100 sacks cement at 887'.

Weber #3-8 (Permit # 34419)

The Weber #3-8 was drilled as a vertical well in March 1981. On March 31, 1981, cement plugs were set in the Weber #3-8 (Permit # 34419) at three different times and the well directionally drilled. The following table summarizes this directional drilling which was performed under Michigan Permit Numbers 34489, 34506 and 34968.

Well Name & Number	Permit No.	Start Drilling	Drilling Completed	Total Depth	Status
Weber 3-8A	34489	04-01-81	04-07-81	6323'	Directionally drilled from 3736' to 6323' MD (3735.8' 6268.5 TVD)
Weber 3-8B	34506	04-09-81	04-16-81	6154	Directionally drilled from 3546' to 6154' MD (3545.8' to 6061.1 TVD)
Weber 3-8C	34968	09-10-81	09-17-81	6149	Directionally drilled from 3734' to 6149' MD (3734' to 6126' TVD)

Cement Plugs:

Mar. 1981 100 sacks spotted with open ended drill pipe at 6169'
 250 sacks kick off plug spotted at 4089'

Apr. 1981 125 sacks spotted with open ended drill pipe at 6293'
 250 sacks kick off plug spotted at 4030'

Sep. 1981 Cement Retainer set 5840', 50 sacks cement under
 retainer & 30 sacks cement on top. Removed 5 ½" casing
 from 4418'. 165 sacks kick off plug from 4012' to 3550'
 On Sep. 17, 1981 ran 5 ½" to 6149' (MD) and cemented
 with 100 sacks of fill up and 200 sacks of good cement.

June 1986 Cement Retainer set 6000', squeezed perfs. W/ 50 sacks
 cement under retainer & 50 sacks cement on top. Cut and
 pulled 5 ½". Spotted 75 sacks cement at 2600' and 75
 sacks cement at 1700'. Spotted 75 sacks cement at 900'.
 Placed 15 sacks at surface. Cut off 3' below ground
 level and welded a ½" plate.

Bott Berry #2-8 (Permit # 34594)

The Bott Berry #2-8 was drilled as a vertical well in May 1981.
 On Jan. 11, 1983, cement plugs were set in the Bott Berry #2-8
 (Permit # 34594) and the well directionally drilled. This
 directional drilling performed under Michigan Permit Number
 36359 is summarized below:

Well Name & Number	Permit No.	Start Drilling	Drilling Completed	Total Depth	Status
Bott Berry 2-8A	36359	01-17-83	01-25-83	6063'	Directionally drilled from 4416' to 6310' MD (4416' to 6208.6' TVD)

Cement Plugs:

Jan. 11, 1983 Cement Retainer set 5950'. Perf. Would not take cement. Placed 50 sacks cement on top retainer. Cut and pulled 5 ½" at 4500'. Spotted 75 sacks cement at 2600' and 75 sacks cement at 1700'. Spotted 100 sacks as kick off plug.

Pages C-5 through C-7 list all non-fresh water artificial penetrations located in the Michigan Department of Natural Resources records for Sections 4, 5, 6, 7, 8, 9, 16, 17, and 18 of Township 25 North, Range 11 West, Grand Traverse County, Michigan.

Table C-1

All wells are located in Grand Traverse Co., T25N R11W
Bottom Hole Locations Grand Traverse Co., T25N R11W

API Well #	Permit #	Current Permittee	Well Name & #	Well Type	Well Status	Date Status	Field Name	Producing Formation	SHL	SHL COQ	SHL NS	SHL EW	SHL NS	SHL EW	BHL	BHL COQ	BHL NS	BHL EW	BHL NS	BHL EW	EW From	Gr	TD	
21-055-31622-00-00	31623	SWEPI LP	FRASER & STATE MAYFIELD 3-4	Oil/Gas Well	Plugging Approved	7/23/1991	Mayfield 04 A - 25N - 11W	NIAGARAN	4	NWSESW	861	S	1100	E	QTR								1048	6196
21-055-31732-00-00	31732	SWEPI LP	WEBER ET AL 4-4	Dry Hole	Plugging Approved	8/17/1977			4	NWSESW	874	S	774	E	QTR								1062	6157
21-055-34338-00-00	34338	MACK OIL CORP AND NEVER OIL INC	UMJOR, JOSEPHINE ET AL 1-4	Dry Hole	Plugging Approved	8/8/1985			4	SWNWSW	1300	N	520	W	QTR								1045	6210
21-055-33904-00-00	33904	SWEPI LP	WAGNER ET AL 5-4	Dry Hole	Plugging Approved	11/19/1980			4	SENEENW	735	N	460	E	QTR								1065	6125
21-055-33904-01-00	34034	SWEPI LP	WAGNER 5-4A	Dry Hole	Plugging Approved	10/25/1982			4	SENEENW	735	N	460	E	QTR								1065	6125
21-055-34186-00-00	34186	SWEPI LP	FRASER ET AL 6-4	Dry Hole	Plugging Approved	4/10/1981			4	SENEENW	859	N	456	E	QTR								1064	6148
21-055-36590-00-00	36590	APACHE CORP	WEBER JAY ET AL 2-4	Oil/Gas Well	Plugging Approved	7/11/1991	Mayfield 04 B - 25N - 11W	NIAGARAN	4	SNWNNW	959	S	660	W	QTR								1054	6222
21-055-38061-00-00	38061	SWEPI LP	SCHMUCKAL ET AL 7-4	Dry Hole	Plugging Approved	8/21/1985			4	NWNNWSW	460	N	475	W	QTR								1062	6167
21-055-34186-01-00	34036	SWEPI LP	FRASER ET AL 6-4A	Dry Hole	Plugging Approved	4/10/1981			4	SENEENW	859	N	456	E	QTR								1065	6125
21-055-34186-02-00	34408	LANITZ OIL COMPANY INC	FRASER ET AL 6-4B	Dry Hole	Plugging Approved	8/5/1983			4	SENEENW	859	N	456	E	QTR								1065	6125
21-055-33904-02-00	36107	ASSOCIATES	WAGNER ET AL 1-4	Dry Hole	Plugging Approved	9/8/1983			4	SENEENW	735	N	460	E	QTR								1064	6148
21-055-34186-03-00	36669	GREAT LAKES NIAGARAN INC	FRASER 6-4C	Oil/Gas Well	Plugging Approved	6/25/1985	Mayfield 04 A - 25N - 11W	NIAGARAN	4	SENEENW	859	N	456	E	QTR								1064	6148
21-055-38091-00-00	38091	HALEX INC	WEBER & WAGNER 1-4	Dry Hole	Plugging Approved	6/25/1985			4	SENEENW	1250	N	876	E	QTR								1064	6148
21-055-39038-00-00	39038	PETROSTAR ENERGY	MCMANUS 1-4	Dry Hole	Plugging Approved	11/21/1985			4	SESWSE	376	S	1035	W	QTR								1063	6130
21-055-30612-00-00	30612	REEF PETROLEUM CORP	MCMANUS, LYLE 1-4	Dry Hole	Plugging Approved	7/23/1976			4	CNSE	1300	S	1265	W	QTR								1049	6246
21-055-36297-00-00	36297	C R J INC	ZENNER 1-5	Dry Hole	Plugging Approved	6/11/1986			4	NESENE	857	S	881	W	QTR								1088	6110
21-055-37829-00-00	37828	PENINSULAR OIL AND GAS CO	BIERMACHER UNIT 1-5	Location	Terminated Permit	6/11/1986			5	NESENE	460	N	460	E	QTR								1088	6110
21-055-38092-00-00	38092	SCHMUCKAL OIL CO	BANCROFT ET AL 1-5	Dry Hole	Plugging Approved	8/20/1985			5	CNW2SE	1320	S	660	W	QTR								1090	6144
21-055-38800-00-00	38800	MACK OIL CORP	HARPE & ZENNER 2-5	Location	Terminated Permit	3/13/1986			5	SWNESEW	1150	N	847	E	QTR								1086	6100
21-055-38800-00-00	38800	MACK OIL CORP	HARPE & ZENNER 2-5	Location	Terminated Permit	3/13/1986			5	SWNESEW	1150	N	847	E	QTR								1086	6100
21-055-39125-00-00	39125	PETROSTAR ENERGY	ZENNER & BIERMACHER 5	Dry Hole	Plugging Approved	11/21/1985			5	SENNW	1000	N	750	W	QTR								1088	6100
21-055-40326-00-00	40326	MACK OIL CORP	CALL 4-5	Location	Terminated Permit	2/10/1988			5	SENEENW	1279	N	460	E	QTR								1067	6230
21-055-37133-00-00	37213	CORP	WEBER 1-5	Dry Hole	Plugging Approved	5/31/1984			5	SENEENW	962	N	1307	W	QTR								1078	6091
21-055-30860-00-00	30860	REEF PETROLEUM CORP AND NEVER OIL INC	ZENNER ET AL 1-5	Dry Hole	Plugging Approved	7/28/1976			5	SENEENW	962	N	1307	W	QTR								1096	6113
21-055-32338-00-00	32338	MACK OIL CORP	KREISER, RALPH TRUST 1-5	Dry Hole	Plugging Approved	6/20/1978			5	SENEENW	962	N	1307	W	QTR								1079	6180
21-055-33699-00-00	33698	MACK OIL CORP	COURTADE ET AL 1-5	Dry Hole	Plugging Approved	7/14/1980			5	SESESE	800	S	700	E	QTR								1088	5915
21-055-34161-00-00	34161	MACK OIL CORP	BELL ET AL 1-5	Oil/Gas Well	Plugging Approved	10/25/1982	Mayfield 04 A - 25N - 11W	NIAGARAN	5	SESESE	369	S	330	E	QTR								1088	5915
21-055-33698-00-00	33787	MACK OIL CORP	COURTADE ET AL 1-5A	Dry Hole	Plugging Approved	8/14/1980			5	SESESE	369	S	330	E	QTR								1088	5915
21-055-29938-00-00	29938	SWEPI LP	COURTADE ET AL 1-5A	Dry Hole	Plugging Approved	12/5/1974			5	NWSESE	800	S	700	E	QTR								1079	6230
21-055-32814-00-00	32814	TRAVERSE CORP	BANCROFT ET AL 1-6	Dry Hole	Plugging Approved	8/8/1979			6	SESESE	510	S	0	E	QTR								1088	6129
21-055-38960-00-00	38960	MACK OIL CORP	BANCROFT 2-6	Dry Hole	Plugging Approved	5/11/1986			6	SESESE	545	S	520	E	QTR								1074	6125
21-055-56336-00-00	56336	JORDAN DEVELOPMENT CO LLC	BANCROFT 1-7 HD	Location	Terminated Permit	8/23/2006			6	NWSESE	500	N	662	E	QTR								1060	6085
21-055-35790-00-00	35790	MUSKOGON DEVELOPMENT CO	WEBER & KREISER 1-7	Dry Hole	Plugging Approved	1/27/1983			7	SESESE	88	S	122	E	SEC								1084	6166
21-055-37625-00-00	37625	FEDERATED NATURAL RESOURCES CORP	BANCROFT & MILLER 1-7	Dry Hole	Plugging Approved	11/29/1984			7	SESESE	500	N	125	E	QTR								1045	6158
21-055-37947-00-00	37947	MACK OIL CORP	WEBER & KREISER 1-7	Dry Hole	Plugging Approved	6/25/1985			7	SESESE	840	S	600	E	QTR								1075	6208
21-055-38474-00-00	38474	MACK OIL CORP	WEBER & YANSKA 3-7	Dry Hole	Plugging Approved	8/8/1985			7	NWSENE	776	S	1087	E	QTR								1059	6176
21-055-33669-02-00	40241	MACK OIL CORP	YANSKA 1-7B	Dry Hole	Plugging Approved	11/24/1987			7	NWSENE	776	S	1087	E	QTR								1059	6176
21-055-33669-00-00	33669	EASON OIL CO	YANSKA 1-7	Dry Hole	Plugging Approved	6/9/1980			7	SESESE	540	S	1290	W	QTR								1021	6222
21-055-30482-00-00	30482	SWEPI LP AND EASON OIL CO	YANSKA ET AL 1-7	Location	Terminated Permit	11/7/1976			7	SESESE	540	S	1290	W	QTR								1021	6195
21-055-33669-01-00	33789	MACK OIL CORP	YANSKA 1-7A	Oil/Gas Well	Plugging Approved	3/4/1987	Mayfield 04 A - 25N - 11W	NIAGARAN	7	SESESE	700	S	550	E	QTR								1045	6158
21-055-34594-01-00	36359	GREAT LAKES NIAGARAN INC	BERRY ET AL 2-8A	Oil/Gas Well	Plugging Approved	10/31/1991	Mayfield 04 A - 25N - 11W	NIAGARAN	8	SESESE	540	S	1290	W	QTR								1021	6166
									8	SESESE	854	S	825	W	QTR								1089	6065

APR 30 1980

STATE OF MICHIGAN
 DEPARTMENT OF NATURAL RESOURCES
LOG OF OIL, GAS, DISPOSAL OR STORAGE WELL (ACT 61)
 Submit in DUPLICATE Within 30 Days after Well Completion

APR 25 1980

PERMIT NUMBER 33597
DEEPENING PERMIT NUMBER

NAME(S) & ADDRESS OF OWNER(S) SHOWN ON PERMIT Traverse Corporation P. O. Box 1036 Traverse City, MI 49684				NAME & ADDRESS OF DRILLING CONTRACTOR(S) Cedco Drilling Co. RIG #21 P. O. Box 36 Gaylord, MI 49735			
LEASE NAME(S) & WELL NUMBER SHOWN ON PERMIT Bott Berry #1-8						DIRECTIONALLY DRILLED YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>	
SURFACE LOCATION NW SW NE		SECTION 8	TOWNSHIP 25N		RANGE 11W	TOWNSHIP NAME Mayfield	
FOOTAGES (North/South) 814 Ft. from South		LINE AND 320'		FOOTAGES (East/West) Ft. from West		COUNTY NAME Grand Traverse	
SUBSURFACE LOCATION		SECTION	TOWNSHIP		RANGE	TOWNSHIP NAME	
FOOTAGES (North/South)		LINE AND		FOOTAGES (East/West)		COUNTY NAME	
DATE	DRILLING BEGUN 3-16-80	TOTAL DEPTH OF WELL Driller 6220' Log 6213'		TYPE WELL DRY HOLE		ELEVATIONS	
	DRILLING COMPLETED 3-31-80	FORMATION AT T.D. Niagaran		FT. DRLD. - ROTARY TOOLS From 0 To T.D.		K.B. 1083'	R.F.
	WELL COMPLETED 4-1-80	PRODUCING FORMATION(S) NONE		FT. DRLD. - CABLE TOOLS From To		R.T. 1082'	Grd. 1067.9'

CASING, CASING LINERS AND CEMENTING

PERFORATIONS

SIZE	WHERE SET	CEMENT	Ft. Pulled	DATE	NUMBER HOLES	INTERVAL PERFORATED	OPEN	
							YES	NO
16"	68'	NONE	NONE					
11 3/4"	830'	450 SX	NONE					
8 5/8"	3346'	240 SX	NONE					

GROSS PAY INTERVALS

ALL OTHER OIL AND GAS SHOWS OBSERVED OR LOGGED

FORMATION	OIL OR GAS	FROM	TO	FORMATION	OIL OR GAS	DEPTH	WHERE OBSERVED (X)						
							Sam- ples	Odor	Pits	Mud Line	Gas Log.	Fill Up	

STIMULATION BY ACID OR FRACTURING

WATER FILL UP (F.U.) OR LOST CIRCULATION (L.C.) (X)

DATE	Interval Treated	Materials and amount used	FORMATION	F.U.	L.C.	DEPTH	AMOUNT

MECHANICAL LOGS, LIST EACH TYPE RUN

DEPTH CORRECTION DEVIATION SURVEY PLUGGED BACK

Brand	(X)	LOG TYPES	LOGGED INTERVALS	DEPTH	CORRECT'N	RUN AT	DEGREES	YES	NO	DEPTH
Schlumberger	X	CNL/FDC	200-6212'							
Birdwell		DLL	5661-6197'							

PRODUCTION TEST DATA

OIL - Bbls/day	GRAVITY - °API	COND. Bbls/day	GAS - MCF/day	WATER - Bbls/day	H ₂ S - Grains/100 cu. ft	B.H.P. AND DEPTH

I AM RESPONSIBLE FOR THIS REPORT. WITHIN MY KNOWLEDGE ALL FACTS ARE TRUE AND COMPLETE.

DATE 4-23-80	TITLE G. W. Walker, Vice President -	SIGNATURE <i>G. W. Walker</i>
-----------------	---	----------------------------------

FORMATION RECORD

(ATTACH ADDITIONAL SHEETS IF NECESSARY)

ELEVATION USED: 1083' K.B.	GEOLOGIST NAME: Darrell L. Potter	TOPS TAKEN FROM: <input type="checkbox"/> DRILLERS LOG <input checked="" type="checkbox"/> SAMPLE LOG <input checked="" type="checkbox"/> ELECTRIC LOG
-------------------------------	--------------------------------------	---

FROM	TO	FORMATION (TYPE, COLOR, HARDNESS)	FROM	TO	FORMATION (TYPE, COLOR, HARDNESS)
NOTE: IF WELL DIRECTIONALLY DRILLED, ADD TRUE VERTICAL DEPTH FORMATION TOPS WHERE APPROPRIATE.					
740		Base of the Drift			
1472		Antrim			
1712		Traverse Formation			
1780		Traverse Lime			
2331		Bell Shale			
2435		Dundee			
2643		Detroit River Formation			
2659		Detroit River Salt			
3280		Base of Salt			
3733		Bois Blanc			
4122		Bass Island			
4416		SALINA "G"			
4449		F Unit			
4482		F Salt			
5079		E Unit			
5200		D Unit			
5226		C Shale			
5305		B Unit			
5333		B Salt			
5742	5830	A2 Carb (dol., lt/m.gy-brn., vfxln, w/pels, f.suc.)			
	5868	Dol., lt/m.gy-brn., vfxln, anhydritic			
5868	5894	A-1 Evaporite (Salt)			
5894	5970	Anhy.			
5970	6075	A1 Carb (Dol., lt/m.brn., vfxln, arg. carb.)			
6075	6115	A1 Evap (Anhy.)			
6115	6176	Reef (Dol., lt/m.brn, vfxln, f.intxln por., no fluor.)			
6176	6213	Gray Niagaran (Dol., m.gy-brn. arg. bcm. m.gy. arg.)			
6213		T.D. - DRY & ABANDONED			

IF WELL WAS CORED, ATTACH CORE DESCRIPTION

DRILL STEM TEST DATA

OPERATORS USE

Description of Detail (cont.) or Other Supplemental Data:

Lined area for description of detail or other supplemental data.

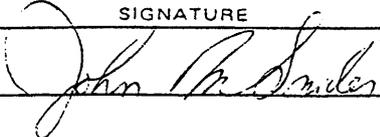
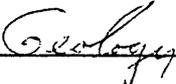
DEPARTMENT USE ONLY

Supplemental Plugging Data and Site Conditions:

4/30/80 All records in. Hole was directionally drilled by PN-33645 Bott-Berry 1-8A.
OK for G.S. approval.

J. Snider

FINAL INSPECTIONS BY DEPARTMENT REPRESENTATIVES

SIGNATURE	DIVISION	DATE
		4/30/80

STATE OF MICHIGAN
DEPARTMENT OF NATURAL RESOURCES
LOG OF OIL, GAS, DISPOSAL OR STORAGE WELL (ACT 61)
Submit in DUPLICATE Within 30 Days after Well Completion

MAY 2 1980

PERMIT NUMBER 33644	MAY 7 1980
DEEPENING PERMIT NUMBER	

NAME(S) & ADDRESS OF OWNER(S) SHOWN ON PERMIT Traverse Corporation P. O. Box 1036 Traverse City, MI 49684				NAME & ADDRESS OF DRILLING CONTRACTOR(S) Cedco Drilling Company Rig #21 P. O. Box 36 Gaylord, MI 49735				
LEASE NAME(S) & WELL NUMBER SHOWN ON PERMIT Bott Berry #1-8A						DIRECTIONALLY DRILLED YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>		
SURFACE LOCATION NW SW NE		SECTION 8	TOWNSHIP 25N	RANGE 11W	TOWNSHIP NAME Mayfield			
FOOTAGES (North/South) 814 Ft. from South		Line and 320		FOOTAGES (East/West) West		Line of quarter section COUNTY NAME Grand Traverse		
SUBSURFACE LOCATION SW SW NE		SECTION 8	TOWNSHIP 25N	RANGE 11W	TOWNSHIP NAME Mayfield			
FOOTAGES (North/South) 634 Ft. from South		Line and 600'		FOOTAGES (East/West) West		Line of quarter section COUNTY NAME Grand Traverse		
DATE	DRILLING BEGUN 4-2-80		TOTAL DEPTH OF WELL Driller 6310' Log 6306'		TYPE WELL DRY HOLE		ELEVATIONS	
	DRILLING COMPLETED 4-9-80		FORMATION AT T.D. Niagaran		FT. DRLD. - ROTARY TOOLS From 0 To T.D.		K.B. 1083'	R.F.
	WELL COMPLETED 4-10-80		PRODUCING FORMATION(S) NONE		FT. DRLD. - CABLE TOOLS From To		R.T. 1082'	Grd. 1067.9'

CASING, CASING LINERS AND CEMENTING

PERFORATIONS

SIZE	WHERE SET	CEMENT	Ft. Pulled	DATE	NUMBER HOLES	INTERVAL PERFORATED	OPEN	
							YES	NO
No casing set - well kicked off from Bott Berry #1-8 Permit #33597								

GROSS PAY INTERVALS

ALL OTHER OIL AND GAS SHOWS OBSERVED OR LOGGED

FORMATION	OIL OR GAS	FROM	TO	FORMATION	OIL OR GAS	DEPTH	WHERE OBSERVED (X)				
							Samples	Odor	Pits	Mud Line	Gas Log.

STIMULATION BY ACID OR FRACTURING

WATER FILL UP (F.U.) OR LOST CIRCULATION (L.C.) (X)

DATE	Interval Treated	Materials and amount used	FORMATION	F.U.	L.C.	DEPTH	AMOUNT

MECHANICAL LOGS, LIST EACH TYPE RUN

DEPTH CORRECTION DEVIATION SURVEY PLUGGED BACK

Brand	(X)	LOG TYPES	LOGGED INTERVALS	DEPTH	CORRECT'N	RUN AT	DEGREES	YES	NO	DEPTH
Schlumberger	X	FDC/CNL/GR	4400-6306'	See Oil Well Drilling Control report attached.						
Birdwell										

PRODUCTION TEST DATA

OIL - Bbls/day	GRAVITY - °API	COND. Bbls/day	GAS - MCF/day	WATER - Bbls/day	H ₂ S - Grains/100 cu. ft.	B.H.P. AND DEPTH

I AM RESPONSIBLE FOR THIS REPORT. THE INFORMATION IS COMPLETE AND CORRECT.

DATE 4-29-80	NAME AND TITLE (PRINT) G. W. Walker, Vice President-Exploration	SIGNATURE <i>G. W. Walker</i>
-----------------	--	----------------------------------

FORMATION RECORD

(ATTACH ADDITIONAL SHEETS IF NECESSARY)

ELEVATION USED: 1190' K.B.	GEOLOGIST NAME: G. W. Walker	TOPS TAKEN FROM: <input type="checkbox"/> DRILLERS LOG <input type="checkbox"/> SAMPLE LOG <input checked="" type="checkbox"/> ELECTRIC LOG
-------------------------------	---------------------------------	--

FROM	TO	FORMATION (TYPE, COLOR, HARDNESS)	FROM	TO	FORMATION (TYPE, COLOR, HARDNESS)
NOTE: IF WELL DIRECTIONALLY DRILLED, ADD TRUE VERTICAL DEPTH FORMATION TOPS WHERE APPROPRIATE.					
4416' MD		Salina G	4416' TVD		
4450' MD		F Unit	4450' TVD		
4482' MD		F Salt	4482' TVD		
5090' MD		E Unit	5084.8' TVD		
5214' MD		D Unit	5201.5' TVD		
5229' MD		D Salt	5216.7' TVD		
5243' MD		C Shale	5229.6' TVD		
5324' MD		B Unit	5308.1' TVD		
5354' MD		B Salt	5337.13' TVD		
5769' MD		A2 Carb	5738.6' TVD		(Dol., lt-m.brn, vfxln, hd,dns, w/some pels)
5892' MD		A2 Evap	5858.5' TVD		(Salt 5892-5985'; Anhy. 5985-6002')
6002' MD		A1 Carb	5965.9' TVD		(Dol., lt-m.brn, vfxln, hd, anhydte, arg.)
6135' MD		A1 Evap	6095.1' TVD		(Anhy, wh.)
6171' MD		Reef	6130.3' TVD		(Dol., buf-tan-lt.brn, vfxln, f-g intr xln por. wk.fluor.)
6251' MD		Gray Niagaran	6208.6' TVD		(Dol, lt.gry, vfxln, hd,dns,arg.)
6310' MD		T.D. - Dry & Temporarily Abandoned			

IF WELL WAS CORED, ATTACH CORE DESCRIPTION

DRILL STEM TEST DATA

SEP 25 1980

OCT 28 1980
REPLACING HAS COPY

WELL PLUGGING RECORD

(Submit in TRIPLICATE Within 30 Days After Plugging is Completed)

PERMIT NUMBER
33644

FIELD NAME

COMPLETE NAME(S) AND ADDRESS OF WELL OWNER

Traverse Corporation, P. O. Box 1036, Traverse City, MI 49684

COMPLETE LEASE OR FARM NAME(S)

Bott Berry

WELL NUMBER
#1-8A

WELL LOCATION

NW ¼ SW ¼ NE ¼ SEC. 8 T. 25N R. 11W

TOWNSHIP
Mayfield

COUNTY
Grand Traverse

TYPE OF WELL (Oil, Gas, Dry Hole, etc.)

DRY HOLE

TOTAL DEPTH
6310'

FORMATION
Niagaran

DATE PLUGGING STARTED
9-22-80

DATE PLUGGING COMPLETED
9-22-80

DEPT. REPRESENTATIVE(S) WHO ISSUED PERMIT OR WITNESSED PLUGGING
Wm. Booker

CASING RECORD

SIZE CASING	DEPTH SET	AMOUNT RECOVERED	SHOT OR RIPPED
No casing set - well		kicked off from	
Bott Berry #1-8 well		Permit #33597	

BRIDGES OR PLUGS

TYPE (Brush, Stone, Cement, Mechanical, etc.)	DEPTH PLACED	SACKS OF CEMENT AND ADDITIVES
CEMENT	6270	125 SX
CEMENT	3850	240 SX
Kickoff plug - temporarily abandoned		

Were tools, tubing, casing, etc., lost or left in the hole before or during plugging?

YES NO

If yes, give details:

16" from 0 to 68'; 11 3/4" from 0 to 830
8 5/8" from 2904-3346'

Did a Service Company pump mud, spot cement, or set bridge plugs?

YES NO

If yes, give name and address:

Halliburton
Kalkaska, Michigan

Was the well plugged by a Company or Contractor other than Owner or Operator?

YES NO

If yes, give name and address:

Pool
Kalkaska, Michigan

Representatives of Owner, Operator, Company, or Contractor who witnessed plugging:

Mike Babcock

DESCRIBE IN DETAIL HOW WELL WAS PLUGGED

Rigged up casing crew. Rigged up McCullough and ran free-point test. Found 8 5/8" casing free at 2920'. Shot off 8 5/8" casing at 2904'. Pulled out of hole. Rigged down casing crew. Rigged up Halliburton. Ran 2 7/8" tubing in hole open ended to 2945' and spotted 75 sacks of cement. Pulled up the hole to 1831' and spotted 75 sacks of cement. Pulled up the hole to 887' and spotted 100 sacks of cement. Pulled tubing out of the hole. Cut 11 3/4" casing 3' below ground level and welded on steel plate. 4/10/80 went in hole w/drill pipe open-ended to 6270' and spotted 125 sx of cmt. Came up the hole to 3850 and spotted 240 sx of cmt. for kick off plug.

(USE REVERSE SIDE IF NEEDED)

CERTIFICATION

I certify that I am authorized by said Owner or Operator to make this report; and that this report was prepared under my supervision and direction, and that the facts stated herein are true, correct and complete to the best of my knowledge."

NAME AND TITLE (Typed or Printed)

Christopher B. Keister, Geologist

COMPANY NAME AND ADDRESS

Traverse Corporation
P. O. Box 1036
Traverse City, MI 49684

SIGNATURE

DATE (Month, Day, Year)

9-24-80

Christopher B. Keister

STATE OF MICHIGAN
DEPARTMENT OF NATURAL RESOURCES
LOG OF OIL, GAS, DISPOSAL OR STORAGE WELL (ACT 61)
Submit in DUPLICATE Within 30 Days after Well Completion

PERMIT NUMBER 34147
DEEPENING PERMIT NUMBER AUG 25 1983

NAME(S) & ADDRESS OF OWNER(S) SHOWN ON PERMIT Great Lakes Niagaran Lost Hole - and Industrial Natural Gas Skidded Rig P.O. Box 227, Traverse City, Michigan 49684				NAME & ADDRESS OF DRILLING CONTRACTOR(S) L & G 2			
LEASE NAME(S) & WELL NUMBER SHOWN ON PERMIT 1-18						DIRECTIONALLY DRILLED YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>	
SURFACE LOCATION NE SW NE		SECTION 8	TOWNSHIP 25N		RANGE 11W	TOWNSHIP NAME Mayfield	
FOOTAGES (North/South) 854 Ft. from S Line and 700 Ft. from W Line of quarter section						COUNTY NAME Grand Traverse	
SUBSURFACE LOCATION		SECTION	TOWNSHIP		RANGE	TOWNSHIP NAME	
FOOTAGES (North/South) Ft. from Line and Ft. from Line of quarter section						COUNTY NAME	
DATE	DRILLING BEGUN 12/10/80	TOTAL DEPTH OF WELL Driller 771 Log		TYPE WELL Lost Hole Dry & Abandon		ELEVATIONS	
	DRILLING COMPLETED 12/11/80	FORMATION AT T.D. Drift		FT. DRILD. - ROTARY TOOLS From 0 To 871		K.B. 1098	R.F.
	WELL COMPLETED 12/11/80	PRODUCING FORMATION(S)		FT. DRILD. - CABLE TOOLS From To		R.T.	Grd.

CASING, CASING LINERS AND CEMENTING

PERFORATIONS

SIZE	WHERE SET	CEMENT	Ft. Pulled	DATE	NUMBER HOLES	INTERVAL PERFORATED	OPEN	
							YES	NO
16	77	Driven						
11 3/4	562	Lost Hole	60'					

GROSS PAY INTERVALS

ALL OTHER OIL AND GAS SHOWS OBSERVED OR LOGGED

FORMATION	OIL OR GAS	FROM	TO	FORMATION	OIL OR GAS	DEPTH	WHERE OBSERVED (X)							
							Sam- ples	Odor	Pits	Mud Line	Gas Log.	Fill Up		

STIMULATION BY ACID OR FRACTURING

WATER FILL UP (F.U.) OR LOST CIRCULATION (L.C.) (X)

DATE	Interval Treated	Materials and amount used	FORMATION	F.U.	L.C.	DEPTH	AMOUNT

MECHANICAL LOGS, LIST EACH TYPE RUN

DEPTH CORRECTION DEVIATION SURVEY PLUGGED BACK

Brand	(X)	LOG TYPES	LOGGED INTERVALS	DEPTH	CORRECT'N	RUN AT	DEGREES	YES	NO	DEPTH
Schlumberger										
Birdwell										

PRODUCTION TEST DATA

- Bbls/day	GRAVITY - °API	COND. Bbls/day	GAS - MCF/day	WATER - Bbls/day	H ₂ S - Grains/100 cu. ft.	B.H.P. AND DEPTH

I AM RESPONSIBLE FOR THIS REPORT. THE INFORMATION IS COMPLETE AND CORRECT.

DATE 1-26-81	NAME AND TITLE (PRINT) Darrell L. Fother, Geologist	SIGNATURE <i>Darrell L. Fother</i>
-----------------	--	---------------------------------------

FORMATION RECORD

(ATTACH ADDITIONAL SHEETS IF NECESSARY)

EVIATION USED: KB	GEOLOGIST NAME: Darrell L. Potter	TOPS TAKEN FROM: <input checked="" type="checkbox"/> DRILLERS LOG	<input checked="" type="checkbox"/> SAMPLE LOG	<input type="checkbox"/> ELECTRIC LOG
-----------------------------	--------------------------------------	--	--	---------------------------------------

FRD	TO	FORMATION (TYPE, COLOR, HARDNESS)	FROM	TO	FORMATION (TYPE, COLOR, HARDNESS)
NOTE: IF WELL DIRECTIONALLY DRILLED, ADD TRUE VERTICAL DEPTH FORMATION TOPS WHERE APPROPRIATE.					
0	771	Drift Lost Hole - Casing stuck at 562 - skidded rig			
771	871	Coldwater shale			
871		Total Depth			

IF WELL WAS CORED, ATTACH CORE DESCRIPTION

DRILL STEM TEST DATA

WELL PLUGGING RECORD

(Submit in TRIPLICATE Within 30 Days After Plugging is Completed)

PERMIT NUMBER

34147

FIELD NAME

None

AUG 25 1983

OWNER NAME(S) AND ADDRESS OF WELL OWNER

Great Lakes Niagaran & Industrial Natural Gas, P O Box 227, Traverse City, Michigan 49684

COMPLETE LEASE OR FARM NAME(S)

WELL NUMBER

WELL LOCATION

NE 1/4 SW 1/4 NE 1/4 SEC. 08 T. 25N R. 11W

TOWNSHIP

Mayfield

COUNTY

Grand Traverse

TYPE OF WELL (Oil, Gas, Dry Hole, etc.)

Dry Hole - Lost Hole

TOTAL DEPTH

871

FORMATION

Drift

DATE PLUGGING STARTED

12/11/80

DATE PLUGGING COMPLETED

12/11/80

DEPT. REPRESENTATIVE(S) WHO ISSUED PERMIT OR WITNESSED PLUGGING

Al Walton

CASING RECORD

SIZE CASING	DEPTH SET	AMOUNT RECOVERED	SHOT OR RIPPED
16	77	None	None
11 3/4	562	60'	Shot

BRIDGES OR PLUGS

TYPE (Brush, Stone, Cement, Mechanical, etc.)	DEPTH PLACED	SACKS OF CEMENT AND ADDITIVES
Cement	Top 16"	25 Sacks

Were tools, tubing, casing, etc., lost or left in the hole before or during plugging?

YES NO

If yes, give details:

11 3/4" casing 60'-562

Did a Service Company pump mud, set cement, or set bridge plugs?

YES NO

If yes, give name and address:

Was the well plugged by a Company or Contractor other than Owner or Operator?

YES NO

If yes, give name and address:

Representatives of Owner, Operator, Company, or Contractor who witnessed plugging:

DESCRIBE IN DETAIL HOW WELL WAS PLUGGED 25 sacks cement in top of 16"

(USE REVERSE SIDE IF NEEDED)

CERTIFICATION

I state that I am authorized by said Owner or Operator to make this report; and that this report was prepared under my supervision and direction, and that the facts stated herein are true, correct and complete to the best of my knowledge."

NAME AND TITLE (Typed or Printed)

Darrell L. Potter, Consulting Geologist

COMPANY NAME AND ADDRESS

Great Lakes Niagaran
P O Box 227
Traverse City, Michigan 49684

SIGNATURE

Darrell L. Potter

DATE (Month, Day, Year)

1/26/81

STATE OF MICHIGAN
DEPARTMENT OF NATURAL RESOURCES
LOG OF OIL, GAS, DISPOSAL OR STORAGE WELL (ACT 61)
Submit in DUPLICATE Within 30 Days after Well Completion

PERMIT NUMBER
47 (34147)
DEEPENING PERMIT NUMBER

NAME(S) & ADDRESS OF OWNER(S) SHOWN ON PERMIT
Great Lakes Niagaran
P O Box 227
Traverse City, Michigan 49684

NAME & ADDRESS OF DRILLING CONTRACTOR(S)
L & G Rig 2

LEASE NAME(S) & WELL NUMBER SHOWN ON PERMIT
Berry et al 1-8

DIRECTIONALLY DRILLED
YES NO

SURFACE LOCATION SECTION TOWNSHIP RANGE TOWNSHIP NAME
NESWNE 8 25N 11W Mayfield

FOOTAGES (North/South) (East/West) COUNTY NAME
854 Ft. from S Line and 700 Ft. from W Line of quarter section Grand Traverse

SUBSURFACE LOCATION SECTION TOWNSHIP RANGE TOWNSHIP NAME

FOOTAGES (North/South) (East/West) COUNTY NAME
Ft. from Line and Ft. from Line of quarter section

DATE	DRILLING BEGUN	TOTAL DEPTH OF WELL	TYPE WELL		ELEVATIONS	
	December 9, 1980	Driller 6110 Log 6112	Oil			
	DRILLING COMPLETED	FORMATION AT T.D.	FT. DRLD. - ROTARY TOOLS		K.B.	R.F.
January 1, 1981	Gray Niagaran	From 0 To 6112		1098.9	1097.4	
WELL COMPLETED	PRODUCING FORMATION(S)	FT. DRLD. - CABLE TOOLS		R.T.	Grd.	
	Niagaran Reef	From To			1085.1	

CASING, CASING LINERS AND CEMENTING

PERFORATIONS

SIZE	WHERE SET	CEMENT	Ft. Pulled	DATE	NUMBER HOLES	INTERVAL PERFORATED	OPEN	
							YES	NO
16"	85'	Driven	None					
11 3/4	872	450 Sacks	None	1-23-81	6	6002, 6003	X	
8 5/8	3384	250 Sacks	None			6005, 6006		
5 1/2	6110	475 Sacks	None			6009, 6010		

GROSS PAY INTERVALS

ALL OTHER OIL AND GAS SHOWS OBSERVED OR LOGGED

FORMATION	OIL OR GAS	FROM	TO	FORMATION	OIL OR GAS	DEPTH	WHERE OBSERVED (X)						
							Sam- ples	Odor	Pits	Mud Line	Gas Log.	Fill Up	
Niagaran Reef	Oil	5995	6057	None									

STIMULATION BY ACID OR FRACTURING

WATER FILL UP (F.U.) OR LOST CIRCULATION (L.C.) (X)

DATE	Interval Treated	Materials and amount used	FORMATION	F.U.	L.C.	DEPTH	AMOUNT
1-23-81	6002-3, 6005-6	250 Gallons - 28%	None				
1-24-81	6009-10	750 Gallons - 28%					

MECHANICAL LOGS, LIST EACH TYPE RUN

DEPTH CORRECTION DEVIATION SURVEY PLUGGED BACK

Brand	(X)	LOG TYPES	LOGGED INTERVALS	DEPTH	CORRECT'N	RUN AT	DEGREES	YES	NO	DEPTH
Schlumberger	X	CNL/FDC	200-6110							
Birdwell		Dual Later	5700-6110							
		Micro Later	5700-6110							

PRODUCTION TEST DATA

OIL - Bbls/day	GRAVITY - °API	COND. Bbls/day	GAS - MCF/day	WATER - Bbls/day	H ₂ S - Grains/100 cu. ft.	B.H.P. AND DEPTH
227	49	---	370	0		3197/6005

I AM RESPONSIBLE FOR THIS REPORT. THE INFORMATION IS COMPLETE AND CORRECT.

DATE: February 17, 1981
NAME AND TITLE (PRINT): Linda McConnell, Consulting Geologist
SIGNATURE: *Linda McConnell*

FORMATION RECORD

(ATTACH ADDITIONAL SHEETS IF NECESSARY)

ELEVATION USED: KB-1098.9	GEOLOGIST NAME: Darrell L. Potter	TOPS TAKEN FROM: <input type="checkbox"/> DRILLERS LOG	<input checked="" type="checkbox"/> SAMPLE LOG	<input checked="" type="checkbox"/> ELECTRIC LOG
------------------------------	--------------------------------------	---	--	--

	TO	FORMATION (TYPE, COLOR, HARDNESS)	FROM	TO	FORMATION (TYPE, COLOR, HARDNESS)
NOTE: IF WELL DIRECTIONALLY DRILLED, ADD TRUE VERTICAL DEPTH FORMATION TOPS WHERE APPROPRIATE.					
0	780	Base of Drift			
780	1494	Antrim			
1494	1708	Traverse Formation			
1708	1784	Traverse Limestone			
1784	2348	Bell Shale			
2348	2453	Dundee			
2453	2508	Reed City Zone			
2508	2523	Reed City Anhydrite			
2523	2548	Detroit River Formation			
2548	3301	Detroit River Salt	6057	6112	Dolomite, AA, oil/water contact, fluorescence, and cut decreasing
3301	3571	Amherstberg			
3571	3737	Bois Bland			
3737	4142	Bass Island			
4142	4432	Salina G-Unit			
4432	4467	F-Unit			
4467	4500	F-Salt			
4500	5104	E-Unit			
5104	5223	D-Unit			
5223	5251	C-Shale			
5251	5336	B-Unit			
5336	5354	B-Salt			
5354	5731	Carbonate			
5731	5740	Dolomite, light gray to brown, very finely crystalline, dense, argillaceous			
5740	5760	Dolomite, AA, slightly sucrosic			
5760	5816	Dolomite, medium to dark brown very finely crystalline, dense argillaceous			
5816	5912	Evaporite			
5912	5912	Anhydrite, white to buff, with minor dolomite interbedded			
5912	5995	Carbonate			
5995	5995	Dolomite, light to medium brown, dense, very finely crystalline, interbedded with anhydrite (rabbit ears?), white, 3 intervals of anhydrite 5921-29, 5951-58, and 5171-75			
			IF WELL WAS CORED, ATTACH CORE DESCRIPTION		
DRILL STEM TEST DATA					

WELL PLUGGING RECORD

(Submit in TRIPLICATE Within 30 Days After Plugging is Completed)

PERMIT NUMBER 34147
Page C-20
FIELD NAME Mayfield 8

COMPLETE NAME(S) AND ADDRESS OF WELL OWNER
Great Lakes Niagaran, P.O. Box 466, Traverse City, MI 49684

COMPLETE LEASE OR FARM NAME(S)
Berry

WELL LOCATION
NE ¼ SW ¼ NE ¼ SEC. 8 T.25N R. 11W

TOWNSHIP Mayfield COUNTY Grand Traverse

TYPE OF WELL (Oil, Gas, Dry Hole, etc.)
Oil

TOTAL DEPTH 6110 FORMATION Niagaran

DATE PLUGGING STARTED 12/3/82 DATE PLUGGING COMPLETED 12/10/82

DEPT. REPRESENTATIVE(S) WHO ISSUED PERMIT OR WITNESSED PLUGGING Jerry Wendal

CASING RECORD			
SIZE CASING	DEPTH SET	AMOUNT RECOVERED	SHOT OR RIPPED
16"	74	-	
11 3/4"	872	-	
8 5/8	3384	2700'	
5 1/2	6110	3450'	

BRIDGES OR PLUGS		
TYPE (Brush, Stone, Cement, Mechanical, etc.)	DEPTH PLACED	SACKS OF CEMENT AND ADDITIVES
Cement	5950	100 sx
Cement	3450	100 sx
Cement	2700	75 sx
Cement	1800	75 sx
Cement	875	100 sx
Cement	surface	10 sx

Were tools, tubing, casing, etc., lost or left in the hole before or during plugging? YES NO If yes, give details: See Casing Record Above

Did a Service Company pump mud, spot cement, or set bridge plugs? YES NO If yes, give name and address: Dowell Kalkaska

Was the well plugged by a Company or Contractor other than Owner or Operator? YES NO If yes, give name and address: T & J Tank Kalkaska

Representatives of Owner, Operator, Company, or Contractor who witnessed plugging: John Vandekerkhof

DESCRIBE IN DETAIL HOW WELL WAS PLUGGED

Set 5 1/2" retainer at 5950'. Spotted 40 sx below and 60 sx on top of retainer. Cut 5 1/2" off at 3450'. Spotted 100 sx at 3450'. Cut and pulled 8 5/8" at 2700'. Spotted 75 sx at 2700'. Spotted 75 sx at 1800'. Spotted 100 sx at 875'. Spotted 10sx on top of 11 3/4" csg. (Surface). Cutt off casing 3' below ground level, and welded on 1/2" steel plate.

(USE REVERSE SIDE IF NEEDED)

CERTIFICATION

I certify that I am authorized by said Owner or Operator to make this report; and that this report was prepared under my supervision and direct that the facts stated herein are true, correct and complete to the best of my knowledge.

NAME AND TITLE (Typed or Printed) Paul D. McConnell, President COMPANY NAME AND ADDRESS McConnell Consulting, Inc. 1515 Cass Traverse City, MI 49684

SIGNATURE DATE (Month, Day, Year) 12/17/82

Paul D. McConnell

APR 17 1981

STATE OF MICHIGAN
DEPARTMENT OF NATURAL RESOURCES
LOG OF OIL, GAS, DISPOSAL OR STORAGE WELL (ACT 61)

Submit in DUPLICATE Within 30 Days after Well Completion

LANSING HAS ORIGINAL COPY

PERMIT NUMBER

34419

DEEPENING PERMIT NUMBER

APR 23 1981

NAME(S) & ADDRESS OF OWNER(S) SHOWN ON PERMIT Traverse Oil Company. P. O. Box 1053 Traverse City, MI 49684				NAME & ADDRESS OF DRILLING CONTRACTOR(S) Nicor Drilling P. O. Box 36 Gaylord, MI 49735				Rig #21	
LEASE NAME(S) & WELL NUMBER SHOWN ON PERMIT Weber #3-8						DIRECTIONALLY DRILLED YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>			
SURFACE LOCATION SE NW NE		SECTION 8	TOWNSHIP 25N		RANGE 11W	TOWNSHIP NAME Mayfield			
FOOTAGES (North/South) 854 Ft. from North		Line and 1140		FOOTAGES (East/West) Ft. from West		Line of quarter section COUNTY NAME Grand Traverse			
SUBSURFACE LOCATION		SECTION	TOWNSHIP		RANGE	TOWNSHIP NAME			
FOOTAGES (North/South)		Line and		FOOTAGES (East/West)		Line of quarter section COUNTY NAME			
DATE	DRILLING BEGUN 3-18-81	TOTAL DEPTH OF WELL Driller 6283 Log 6273		TYPE WELL DRY HOLE		ELEVATIONS			
	DRILLING COMPLETED 3-30-81	FORMATION AT T.D. Niagaran		FT. DRLD. - ROTARY TOOLS From 0 To T.D.		K.B. 1108.2'	R.F. 1106.7'		
	WELL COMPLETED NA	PRODUCING FORMATION(S) None		FT. DRLD. - CABLE TOOLS From To		R.T.	Grd. 1093.2'		

CASING, CASING LINERS AND CEMENTING

PERFORATIONS

SIZE	WHERE SET	CEMENT	Ft. Pulled	DATE	NUMBER HOLES	INTERVAL PERFORATED	OPEN	
							YES	NO
16"	52'	DRIVEN	NONE					
11 3/4"	866'	585 SX	NONE					
8 5/8"	3388'	400 SX	NONE					

GROSS PAY INTERVALS

ALL OTHER OIL AND GAS SHOWS OBSERVED OR LOGGED

FORMATION	OIL OR GAS	FROM	TO	FORMATION	OIL OR GAS	DEPTH	WHERE OBSERVED (X)							
							Samples	Odor	Pits	Mud Line	Gas Log.	Fill Up		

STIMULATION BY ACID OR FRACTURING

WATER FILL UP (F.U.) OR LOST CIRCULATION (L.C.) (X)

DATE	Interval Treated	Materials and amount used	FORMATION	F.U.	L.C.	DEPTH	AMOUNT

MECHANICAL LOGS, LIST EACH TYPE RUN

DEPTH CORRECTION DEVIATION SURVEY PLUGGED BACK

Brand	(X)	LOG TYPES	LOGGED INTERVALS	DEPTH	CORRECT'N	RUN AT	DEGREES	YES	NO	DEPTH
Schlumberger	X	LDT/CNI	200-6270'							
Birdwell		Dipmeter	5650-6272'							

PRODUCTION TEST DATA

OIL - Bbls/day	GRAVITY - °API	COND. Bbls/day	GAS - MCF/day	WATER - Bbls/day	H ₂ S - Grains/100 cu. ft.	B.H.P. AND DEPTH

I AM RESPONSIBLE FOR THIS REPORT. THE INFORMATION IS COMPLETE AND CORRECT.

DATE 4-15-81	NAME AND TITLE (PRINT) Rudolph S. Cadena, Drilling Supervisor	SIGNATURE <i>Rudolph S. Cadena</i>
-----------------	--	---------------------------------------

FORMATION RECORD

(ATTACH ADDITIONAL SHEETS IF NECESSARY)

ELEVATION USED: 1108.2' KB	GEOLOGIST NAME: Christopher B. Keister	TOPS TAKEN FROM: <input type="checkbox"/> DRILLERS LOG <input type="checkbox"/> SAMPLE LOG <input checked="" type="checkbox"/> ELECTRIC LOG
-------------------------------	---	--

FROM	TO	FORMATION (TYPE, COLOR, HARDNESS)	FROM	TO	FORMATION (TYPE, COLOR, HARDNESS)
NOTE: IF WELL DIRECTIONALLY DRILLED, ADD TRUE VERTICAL DEPTH FORMATION TOPS WHERE APPROPRIATE.					
	770	Base of Drift			
886	1496	Sunbury			
1496	1732	Antrim			
1732	1790	Traverse Formation			
1790	2344	Traverse Lime			
2344	2448	Bell Shale			
2448	2516	Dundee			
2516	2539	Reed City Anhydrite			
2539	2630	Reed City Dolomite			
2630	2670	Detroit River Anhydrite			
2670	3272	Detroit River Salt			
3298	3524	Massive Anhydrite			
3524	3735	Amherstburg			
3735	4138	Bois Blanc			
4138	4429	Bass Islands			
4429	4460	Salina G Unit			
4460	4496	F Unit			
4496	5098	F Salt			
5098	5220	E Unit			
5220	5232	D Unit			
5232	5247	D Salt			
7	5320	C Shale			
5320	5362	B Unit			
5362	5757	B Salt			
5757	5872	A2 Carb			
5872	6002	A2 Evap			
6002	6122	A1 Carb			
6122	6151	A1 Evap			
6151	6216	Brown Niagaran			
6216		Gray Niagaran			
6273		Logger's T.D.			
6283		Driller's T.D.			
IF WELL WAS CORED, ATTACH CORE DESCRIPTION					
DRILL STEM TEST DATA					

APR 17 1981

WELL PLUGGING RECORD

(Submit in TRIPLICATE Within 30 Days After Plugging is Completed)

PERMIT NUMBER	34419
FIELD NAME	

COMPLETE NAME(S) AND ADDRESS OF WELL OWNER			
Traverse Oil Company, P. O. Box 1053, Traverse City, MI 49684			
COMPLETE LEASE OR FARM NAME(S)			WELL NUMBER
Weber			#3-8
WELL LOCATION		TOWNSHIP	COUNTY
SE ¼ NW ¼ NE ¼ SEC. 8 T. 25N R. 11W		Mayfield	Grand-Traverse
TYPE OF WELL (Oil, Gas, Dry Hole, etc.)		TOTAL DEPTH	FORMATION
DRY HOLE		6283'	Niagaran
DATE PLUGGING STARTED	DATE PLUGGING COMPLETED	DEPT. REPRESENTATIVE(S) WHO ISSUED PERMIT OR WITNESSED PLUGGING	
3-31-81	3-31-81	William Booker	

CASING RECORD			
SIZE CASING	DEPTH SET	AMOUNT RECOVERED	SHOT OR RIPPED
16"	52'	NONE	-
11 3/4"	866'	NONE	-
8 5/8"	3388'	NONE	-

BRIDGES OR PLUGS		
TYPE (Brush, Stone, Cement, Mechanical, etc.)	DEPTH PLACED	SACKS OF CEMENT AND ADDITIVES
CEMENT	6169'	100 sx
CEMENT	4089'	250 sx
	(Kickoff Plug)	

Were tools, tubing, casing, etc., lost or left in the hole before or during plugging?	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	If yes, give details: Casing as listed above
Did a Service Company pump mud, spot cement, or set bridge plugs?	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	If yes, give name and address: Dowell Kalkaska, MI 49646
Was the well plugged by a Company or Contractor other than Owner or Operator?	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	If yes, give name and address: Nicor Drilling Gaylord, MI 49735
Representatives of Owner, Operator, Company, or Contractor who witnessed plugging:		Rudolph S. Cadena

DESCRIBE IN DETAIL HOW WELL WAS PLUGGED. Went in hole with drill pipe open ended to 6169' and spotted 100 sacks of cement. Pulled up the hole to 4089' and spotted 250 sacks of Hi-dense cement for kickoff plug.

(USE REVERSE SIDE IF NEEDED)

CERTIFICATION		
I certify that I am authorized by said Owner or Operator to make this report; and that this report was prepared under my supervision and direction and that the facts stated herein are true, correct and complete to the best of my knowledge.		
NAME AND TITLE (Typed or Printed)	COMPANY NAME AND ADDRESS	
Rudolph S. Cadena, Drilling Supervisor	Traverse Oil Company P. O. Box 1053 Traverse City, MI 49684	
SIGNATURE	DATE (Month, Day, Year)	
<i>Rudolph S. Cadena</i>	4-15-81	

Description of Detail (cont.) or Other Supplemental Data:

Lined area for description of detail or other supplemental data.

DEPARTMENT USE ONLY

Supplemental Plugging Data and Site Conditions:

5/19/81 can recommend approval. Hole redrilled under PN34489 (Booker)

Lined area for supplemental plugging data and site conditions.

FINAL INSPECTIONS BY DEPARTMENT REPRESENTATIVES

SIGNATURE	DIVISION	DATE
<i>William Booker</i>	<i>Geological Survey</i>	<i>5-20-81</i>

STATE OF MICHIGAN
DEPARTMENT OF NATURAL RESOURCES
LOG OF OIL, GAS, DISPOSAL OR STORAGE WELL (ACT 61)
Submit in **DUPLICATE** Within 30 Days after Well Completion

APR 17 1981

PERMIT NUMBER 34489	MAY 01 1981
DEEPENING PERMIT NUMBER	

LANSING HAS ORIGINAL COPY

NAME(S) & ADDRESS OF OWNER(S) SHOWN ON PERMIT Traverse Oil Company P. O. Box 1053 Traverse City, MI 49684			NAME & ADDRESS OF DRILLING CONTRACTOR(S) Nicor Drilling P. O. Box 36 Gaylord, MI 49735		
LEASE NAME(S) & WELL NUMBER SHOWN ON PERMIT Weber #3-8A			DIRECTIONALLY DRILLED YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>		
SURFACE LOCATION SE NW NE	SECTION 8	TOWNSHIP 25N	RANGE 11W	TOWNSHIP NAME Mayfield	
FOOTAGES (North/South) 854 Ft. from North Line and 1140			FOOTAGES (East/West) Ft. from West Line of quarter section		COUNTY NAME Grand Traverse
SUBSURFACE LOCATION SW NW NE	SECTION 8	TOWNSHIP 25N	RANGE 11W	TOWNSHIP NAME Mayfield	
FOOTAGES (North/South) 800 Ft. from North Line and 572			FOOTAGES (East/West) Ft. from West Line of quarter section		COUNTY NAME Grand Traverse
DATE D A T E	DRILLING BEGUN 4-1-81	TOTAL DEPTH OF WELL Driller 6320' Log 6323'	TYPE WELL DRY HOLE		ELEVATIONS
	DRILLING COMPLETED 4-7-81	FORMATION AT T.D. Niagaran	FT. DRLD. - ROTARY TOOLS From 0 To T.D.	K.B. 1108.2'	R.F. 1106.7'
	WELL COMPLETED NA	PRODUCING FORMATION(S) NONE	FT. DRLD. - CABLE TOOLS From To	R.T.	Grd. 1093.2'

CASING, CASING LINERS AND CEMENTING

PERFORATIONS

SIZE	WHERE SET	CEMENT	Ft. Pulled	DATE	NUMBER HOLES	INTERVAL PERFORATED	OPEN	
							YES	NO
No additional casing set - see Weber Permit #34419			#3-8-					

GROSS PAY INTERVALS

ALL OTHER OIL AND GAS SHOWS OBSERVED OR LOGGED

FORMATION	OIL OR GAS	FROM	TO	FORMATION	OIL OR GAS	DEPTH	WHERE OBSERVED (X)				
							Samples	Odor	Pits	Mud Line	Gas Log.

STIMULATION BY ACID OR FRACTURING

WATER FILL UP (F.U.) OR LOST CIRCULATION (L.C.) (X)

DATE	Interval Treated	Materials and amount used	FORMATION	F.U.	L.C.	DEPTH	AMOUNT

MECHANICAL LOGS, LIST EACH TYPE RUN

DEPTH CORRECTION DEVIATIONS SURVEY PLUGGED BACK

Brand	(X)	LOG TYPES	LOGGED INTERVALS	DEPTH	CORRECT'N	RUN AT	DEGREES	YES	NO	DEPTH
Schlumberger	X	LDT/CNL/GR	3700-6321							
Birdwell		Dipmeter	5764-6312							

PRODUCTION TEST DATA

OIL - Bbls/day	GRAVITY - °API	COND. Bbls/day	GAS - MCF/day	WATER - Bbls/day	H ₂ S - Grains/100 cu. ft.	B.H.P. AND DEPTH

I AM RESPONSIBLE FOR THIS REPORT. THE INFORMATION IS COMPLETE AND CORRECT.

DATE 4-15-81	NAME AND TITLE (PRINT) Rudolph S. Cadena, Drilling Supervisor	SIGNATURE <i>Rudolph S. Cadena</i>
-----------------	--	---------------------------------------

FORMATION RECORD

(ATTACH ADDITIONAL SHEETS IF NECESSARY)

ELEVATION USED: 1108.2' KB	GEOLOGIST NAME: Christopher B. Keister	TOPS TAKEN FROM: <input type="checkbox"/> DRILLERS LOG <input type="checkbox"/> SAMPLE LOG <input checked="" type="checkbox"/> ELECTRIC LOG
-------------------------------	---	--

FROM	TO	FORMATION (TYPE, COLOR, HARDNESS)	FROM	TO	FORMATION (TYPE, COLOR, HARDNESS)
NOTE: IF WELL DIRECTIONALLY DRILLED, ADD TRUE VERTICAL DEPTH FORMATION TOPS WHERE APPROPRIATE.					
3736'	MD	Bois Blanc	3735.8'	TVD	
4142'	MD	Bass Island	4137.2'	TVD	
4442'	MD	Salina G Unit	4430.1'	TVD	
4476'	MD	F Unit	4463.3'	TVD	
4510'	MD	F Salt	4496.5'	TVD	
5126'	MD	E Unit	5095.3'	TVD	
5249'	MD	D Unit	5214.3'	TVD	
5264'	MD	D Salt	5228.8'	TVD	
5278'	MD	C Shale	5242.3'	TVD	
5355'	MD	B Unit	5317.0'	TVD	
5397'	MD	B Salt	5357.9'	TVD	
5794'	MD	A2 Carb	5748.7'	TVD	
5910'	MD	A2 Evap	5862.9'	TVD	
6032'	MD	A1 Carb	5982.8'	TVD	
6148'	MD	A1 Evap	6096.7'	TVD	
6184'	MD	Brown Niagaran	6132.0'	TVD	
6266'	MD	Gray Niagaran	6212.5'	TVD	
6230'	MD	Driller's T.D.	6265'	TVD	
6323'	MD	Logger's T.D.	6268.5'	TVD	

IF WELL WAS CORED, ATTACH CORE DESCRIPTION

DRILL STEM TEST DATA

APR 17 1981

WELL PLUGGING RECORD

(Submit in TRIPLICATE Within 30 Days After Plugging is Completed)

PERMIT NUMBER 34489	APR 23 1981
FIELD NAME	

COMPLETE NAME(S) AND ADDRESS OF WELL OWNER Traverse Oil Company, P. O. Box 1053, Traverse City, MI 49684		
COMPLETE LEASE OR FARM NAME(S) Weber		WELL NUMBER #3-8A
WELL LOCATION SE ¼ NW ¼ NE ¼ SEC. 8 T. 25N R. 11W	TOWNSHIP Mayfield	COUNTY Grand-Traverse
TYPE OF WELL (Oil, Gas, Dry Hole, etc.) DRY HOLE	TOTAL DEPTH 6320'	FORMATION Niagaran
DATE PLUGGING STARTED 4-8-81	DATE PLUGGING COMPLETED 4-8-81	DEPT. REPRESENTATIVE(S) WHO ISSUED PERMIT OR WITNESSED PLUGGING William Booker

CASING RECORD			
SIZE CASING	DEPTH SET	AMOUNT RECOVERED	SHOT OR RIPPED
No additional casing set - see Weber #3-8 Permit #34419			

BRIDGES OR PLUGS		
TYPE (Brush, Stone, Cement, Mechanical, etc.)	DEPTH PLACED	SACKS OF CEMENT AND ADDITIVES
CEMENT	6293'	125 sx
CEMENT	4030'	250 sx
	(Kickoff Plug)	

Were tools, tubing, casing, etc., lost or left in the hole before or during plugging?	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	If yes, give details: 16" from 0 to 52'; 11 3/4" from 0 to 866' 8 5/8" from 0 to 3388'
Did a Service Company pump mud, spot cement, or set bridge plugs?	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	If yes, give name and address: Dowell Kalkaska, Michigan
Was the well plugged by a Company or Contractor other than Owner or Operator?	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	If yes, give name and address: Nicor Drilling Gaylord, Michigan 49735
Representatives of Owner, Operator, Company, or Contractor who witnessed plugging:		Rudolph S. Cadena

DESCRIBE IN DETAIL HOW WELL WAS PLUGGED. Went in hole with drill pipe open ended to 6293' and spotted 125 sacks of Class A cement. Pulled up the hole to 4030' and spotted 250 sacks of Hi-dense cement for kickoff plug.

(USE REVERSE SIDE IF NEEDED)

CERTIFICATION		
I certify that I am authorized by said Owner or Operator to make this report; and that this report was prepared under my supervision and direction, and that the facts stated herein are true, correct and complete to the best of my knowledge.		
NAME AND TITLE (Typed or Printed) Rudolph S. Cadena, Drilling Supervisor	COMPANY NAME AND ADDRESS Traverse Oil Company P. O. Box 1053 Traverse City, MI 49684	
SIGNATURE <i>Rudolph S. Cadena</i>	DATE (Month, Day, Year) 4-15-81	

Description of Detail (cont.) or Other Supplemental Data:

Lined area for description of detail or other supplemental data.

DEPARTMENT USE ONLY

Supplemental Plugging Data and Site Conditions:

- 5/19/81 can recommend approval. Hole redrilled under PN35006.
(Booker)

Lined area for supplemental plugging data and site conditions.

FINAL INSPECTIONS BY DEPARTMENT REPRESENTATIVES

SIGNATURE	DIVISION	DATE
<i>William Booker</i>	<i>Geological Engineering</i>	<i>5-20-81</i>

STATE OF MICHIGAN
DEPARTMENT OF NATURAL RESOURCES
LOG OF OIL, GAS, DISPOSAL OR STORAGE WELL (ACT 61)
Submit in **DUPLICATE** Within 30 Days after Well Completion

NOV 5 1981

PERMIT NUMBER	34506
DEEPENING PERMIT NUMBER	

LANSING HAS ORIGINAL

NAME(S) & ADDRESS OF OWNER(S) SHOWN ON PERMIT Traverse Oil Company P. O. Box 1053 Traverse City, MI 49684				NAME & ADDRESS OF DRILLING CONTRACTOR(S) DEC 01 1981 Rig #21 Nicor Drilling Company P. O. Box 36 Gaylord, MI 49735				
LEASE NAME(S) & WELL NUMBER SHOWN ON PERMIT Weber #3-8B						DIRECTIONALLY DRILLED YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>		
SURFACE LOCATION SE NW NE		SECTION 8	TOWNSHIP 25N		RANGE 11W	TOWNSHIP NAME Mayfield		
FOOTAGES (North/South) 854 Ft. from North		Line and 1140		FOOTAGES (East/West) Ft. from West		Line of quarter section COUNTY NAME Grand Traverse		
SUBSURFACE LOCATION SE NE NE		SECTION 8	TOWNSHIP 25N		RANGE 11W	TOWNSHIP NAME Mayfield		
FOOTAGES (North/South) 820 Ft. from North		Line and 903		FOOTAGES (East/West) Ft. from East		Line of quarter section COUNTY NAME Grand Traverse		
DATE	DRILLING BEGUN 4-09-81		TOTAL DEPTH OF WELL Driller 6154' Log 6138'		TYPE WELL NEGATIVE COMPLETION		ELEVATIONS	
	DRILLING COMPLETED 4-16-81		FORMATION AT T.D. Niagaran		FT. DRILD. - ROTARY TOOLS From 0 To T.D.		K.B. 1108.2'	R.F. 1106.7'
	WELL COMPLETED		PRODUCING FORMATION(S) None		FT. DRILD. - CABLE TOOLS From _____ To _____		R.T.	Grd. 1093.2'

CASING, CASING LINERS AND CEMENTING

PERFORATIONS

SIZE	WHERE SET	CEMENT	Ft. Pulled	DATE	NUMBER HOLES	INTERVAL PERFORATED	OPEN	
							YES	NO
5 1/2"	6154'	350 SX	4418'	5/28	11	5956-5966'	X	

GROSS PAY INTERVALS

ALL OTHER OIL AND GAS SHOWS OBSERVED OR LOGGED

FORMATION	OIL OR GAS	FROM	TO	FORMATION	OIL OR GAS	DEPTH	WHERE OBSERVED (X)						
							Samples	Odor	Pits	Mud Line	Gas Log.	Fill Up	

STIMULATION BY ACID OR FRACTURING

WATER FILL UP (F.U.) OR LOST CIRCULATION (L.C.) (X)

DATE	Interval Treated	Materials and amount used	FORMATION	F.U.	L.C.	DEPTH	AMOUNT
5/29	5956-66'	1250 gals. 28% HCL					

MECHANICAL LOGS, LIST EACH TYPE RUN

DEPTH CORRECTION DEVIATION SURVEY PLUGGED BACK

Brand	(X)	LOG TYPES	LOGGED INTERVALS	DEPTH	CORRECT'N	RUN AT	DEGREES	YES	NO	DEPTH
Schlumberger	X	CNL/FDC	3370-6135'		SEE ATTACHED SURVEY REPORT					
Birdwell		DLL/Micro	5750-6130'							

PRODUCTION TEST DATA

OIL - Bbls/day	GRAVITY - °API	COND. Bbls/day	GAS - MCF/day	WATER - Bbls/day	H ₂ S - Grains/100 cu. ft.	B.H.P. AND DEPTH

I AM RESPONSIBLE FOR THIS REPORT. THE INFORMATION IS COMPLETE AND CORRECT.

DATE 11-2-81	NAME AND TITLE (PRINT) Christopher B. Kesiter, Geologist	SIGNATURE <i>Christopher B. Kesiter</i>
-----------------	---	--

FORMATION RECORD

(ATTACH ADDITIONAL SHEETS IF NECESSARY)

ELEVATION USED: 1108.2' KB	GEOLOGIST NAME: Daniel J. Hendrix	TOPS TAKEN FROM: <input type="checkbox"/> DRILLERS LOG <input type="checkbox"/> SAMPLE LOG <input checked="" type="checkbox"/> ELECTRIC LOG
-------------------------------	--------------------------------------	--

#	TO	FORMATION (TYPE, COLOR, HARDNESS)	FROM	TO	FORMATION (TYPE, COLOR, HARDNESS)
NOTE: IF WELL DIRECTIONALLY DRILLED, ADD TRUE VERTICAL DEPTH FORMATION TOPS WHERE APPROPRIATE.					
3546'	MD	Amherstburg	3545.8'		TVD
3734'		Bois Blanc	3733.8'		TVD
4146'		Bass Island	4141.1'		TVD
4446'		Salina G Unit	4434.2'		TVD
4479'		F Unit	4466.6'		TVD
4512'		F Salt	4498.9'		TVD
5134'		E Unit	5103.5'		TVD
5264'		D Unit	5228.6'		TVD
5277'		D Salt	5241.1'		TVD
5292'		C Shale	5255.5'		TVD
5370'		B Unit	5330.6'		TVD
5410'		B Salt	5369.2'		TVD
5783'		A2 Carbonate	5719.2'		TVD
5871'		A2 Evaporite	5800.4'		TVD
5934'		A1 Carbonate	5858.5'		TVD
5964'		Niagaran Reef	5886.2'		TVD
6134'		Logger's Total Depth	6042.7'		TVD
6154'		Driller's Total Depth	6061.1'		TVD

IF WELL WAS CORED, ATTACH CORE DESCRIPTION

DRILL STEM TEST DATA

NOV 3 1981

WELL PLUGGING RECORD

(Submit in TRIPLICATE Within 30 Days After Plugging is Completed)

PERMIT NUMBER

34506

FIELD NAME

19 1981

COMPLETE NAME(S) AND ADDRESS OF WELL OWNER

Traverse Oil Company, P. O. Box 1053, Traverse City, Michigan 49684

COMPLETE LEASE OR FARM NAME(S)

Weber

WELL NUMBER

#3-8B

WELL LOCATION

SE 1/4 NW 1/4 NE 1/4 SEC. 8 T. 25N R. 11W

TOWNSHIP

Mayfield

COUNTY

Grand Traverse

TYPE OF WELL (Oil, Gas, Dry Hole, etc.)

NEGATIVE COMPLETION - DRY HOLE

TOTAL DEPTH

6154'

FORMATION

Niagaran

DATE PLUGGING STARTED

9-2-81

DATE PLUGGING COMPLETED

9-4-81

DEPT. REPRESENTATIVE(S) WHO ISSUED PERMIT OR WITNESSED PLUGGING

Jerome F. Wendel

CASING RECORD

BRIDGES OR PLUGS

SIZE CASING	DEPTH SET	AMOUNT RECOVERED	SHOT OR RIPPED
5 1/2"	6154'	4418'	CUT

TYPE (Brush, Stone, Cement, Mechanical, etc.)	DEPTH PLACED	SACKS OF CEMENT AND ADDITIVES
CEMENT RETAINER	5840'	50 sx under & 30 sx on top
CEMENT-KICKOFF PLUG	4012-3550'	165 sacks

Were tools, tubing, casing, etc., lost or left in the hole before or during plugging?

YES NO

If yes, give details:

16" from 0 to 52', 11 3/4" from 0 to 866', 8 5/8" from 0 to 3388', 5 1/2" from 4418' to 6154'

Did a Service Company pump mud, spot cement, or set bridge plugs?

YES NO

If yes, give name and address:

McCullough
Kalkaska, Michigan

Was the well plugged by a Company or Contractor other than Owner or Operator?

YES NO

If yes, give name and address:

Reef Petroleum
Traverse City, MI 49684

Representatives of Owner, Operator, Company, or Contractor who witnessed plugging:

Larry Anderson

DESCRIBE IN DETAIL HOW WELL WAS PLUGGED Tripped in hole with 5 1/2" EZSV retainer and set at 5840'. Filled and circulated hole. Put 50 sacks of cement under retainer and 30 sacks of cement on top. Pulled 6 stands and reverse circulated. Stood back 76 stands and laid down 40 joints. Rigged down BOPs and tubing spool. Welded slips to casing. Pulled slips out. Freepoint 5 1/2" casing - free at 4418'. Cut 5 1/2" casing at 4418'. Pulled 5 1/2" casing - 99 joints + 1 - 25' cut off. Bottom at 4012'. Circulated hole with fresh water. Mixed 165 sacks of cement 4012' to 3550' for kickoff plug. Pulled 12 stands. Reverse circulated. Laid down tubing.

(USE REVERSE SIDE IF NEEDED)

CERTIFICATION

I certify that I am authorized by said Owner or Operator to make this report; and that this report was prepared under my supervision and directed that the facts stated herein are true, correct and complete to the best of my knowledge.

NAME AND TITLE (Typed or Printed)

Christopher B. Keister, Geologist

COMPANY NAME AND ADDRESS

Traverse Oil Company
P. O. Box 1053
Traverse City, MI 49684

SIGNATURE

Christopher B. Keister

DATE (Month, Day, Year)

11-2-81

Date PI 9/3/81 Permit No. 35006
 Co. Mosbacher Prod. Co.
 Lease Weber No. 3-8B
 Twp. Mayfield Co. Grand Trav.
 Loc. SE NW NE Sec. 8 T. 25 R. 11
 from _____ and _____ from _____ line of 1/4 Sec.
 from _____ and _____ from _____ unit lit

Contractor Will Notify
 Comm. SEC. 9/17/81 Comp. 8
 PLUGGING SUMMARY

BRIDGES/PLUGS		CEMENT	
Bridges/Plugs	Casing Pulled	Sacks	TOC
<u>21st plug 6/14/81</u>			
<u>old for case 7/13/81</u>			

HOLE		CASING		CEMENT	
Dia.	Depth	Dia.	Depth	Sacks	TOC
16"	52'	52'	driven, existing		
11 3/4"	866'		circul.		
8 5/8"	3380'	300SX	TOC	2910	
KOP	@ 3800'		perfs: 6066-		
5Y2	@ 6149'			80	

KB 1109.8'
 RIH w/ 5 1/2" cmt. ret. to 6000' & squeeze off perfs. w/ 50 sx thru & 50 sx on top. FP, cut & pull 5 1/2" csg. Rerun DP to 3450' & spot 100 sx below 8 5/8" csg. shoe. FP, cut & pull 8 5/8" csg. Run DP to 2600' & spot 75sx below Dd top. Pull DP to 1700 & spot 75sx @ 11 top. Pull DP to 900 & spot 75sx below sur. csg. shoe. Place 15sx @ the top. Cut off sg. 3' below gr. level & weld in a 1/2" steel plate.

Date PI 9/3/81 Permit No. 35006
 Co. Trav Oil Co.
 Lease Weber No. 3-8B
 Twp. Mayfield Co. Grand Trav.
 Loc. SE NW NE Sec. 8 T. 25N R. 11W
 from _____ and _____ from _____ line of 1/4 Sec.
 from _____ and _____ from _____ unit lit

Contractor Dowell Tally Compl Rig
 Comm. SEC. plug 9/3/81 Comp. 8
 PLUGGING SUMMARY

BRIDGES/PLUGS		CEMENT	
Bridges/Plugs	Casing Pulled	Sacks	TOC

HOLE		CASING		CEMENT	
Dia.	Depth	Dia.	Depth	Sacks	TOC
16"	52				
5 1/2"	6154				
Lower perfs	5993-95-97-99-6001-05-07				
7 holes in	14' 5956-56 (1 JSPF or 11 holes)				

RIH w/ 5 1/2" cmt ret to 5850 Squeeze 50 sx thru & spot 35 sx on top. Freept and pull 5 1/2" csg. Spot 200 sx HiDense KOP at 4000'. Calculated TOC 3475'. KOP at 3700' in the BI.

Date 10/3/81 Permit No. 34968
 Co. Mosbacher Prod. Co.
 Lease Traverse Oil Co. No. 3-8C
 Twp. Mayfield Co. Grand Trav.
 Loc. SE NW NE Sec. 8 T. 25H R. 11W
 from _____ and _____ from _____ line of 1/4 Sec.
 from _____ and _____ from _____ unit line

Contractor Reef Drlg.
 Comm. SEC. 8 Comp. 770
 PLUGGING SUMMARY

BRIDGES/PLUGS		CEMENT	
Bridges/Plugs	Casing Pulled	Sacks	TOC
<u>WV all available</u>			
<u>Ray Gauge 6/14/81</u>			
<u>B/D</u>			

HOLE		CASING		CEMENT	
Dia.	Depth	Dia.	Depth	Sacks	TOC
16"	52				
11 3/4"	866				
8 5/8"	@ 3880			100	2910

16" 60# cond. existing; 113/4"
 42# H40 new exiting; 85/8" 32#
 K55 existing; 5 1/2" 15.5# K55
 6450' w/ 300 sx;
 SAME SURF AS PH 34413, 34489, 34506

Run 5 1/2" to 6149 on 9/17/81
Find on 3/25/82
Travel bond to Reef Prod. Corp 7/16/82

Form	Depth	Log	Depth	Log	Datum	Form	Depth	Log	Datum
Drift						B.B.			
						BI			
						Sal			
TG						F			
BL						E			
Stray						D			
Pay						C			
Wtr						BEV.			
Marsh						A2C			
Wtr						A2Ev			
Cwrr						Aic			
Sun						Pay			
Ber						A-1 Ev			
Pay						BN			
Wtr						Pay			
Ant						GN			
TF						CI			
TL						Cinn			
Pay						U			
Wtr						Trent			
Dd						Pay			
Pay						BRF			
Wtr						Gw			
RCA						SP			
RCD						Pdc			
DR						Camb			
M.S.									
S.Z.									
M.A.						PE			
Rich.						TD			
Sylv.						PBTD			
						I.P.			
CORES, D.S.T.'s, Shows, L.C.Z.'s.									
Plug g Permit									
Plug g Comm.									
Plug g Comp.									
Plug g Record									
Site Recl'm									
Site Appl.									
R-7217									

P/N 34968

Form	Depth	Log	Depth	Log	Datum	Form	Depth	Log	Datum
Drift						B.B.			
						BI			
						Sal			
TG						F			
BL						E			
Stray						D			
Pay						C			
Wtr						BEV.			
Marsh						A2C			
Wtr						A2Ev			
Cwrr						Aic			
Sun						Pay			
Ber						A-1 Ev			
Pay						BN			
Wtr						Pay			
Ant						GN			
TF						CI			
TL						Cinn			
Pay						U			
Wtr						Trent			
Dd						Pay			
Pay						BRF			
Wtr						Gw			
RCA						SP			
RCD						Pdc			
DR						Camb			
M.S.									
S.Z.									
M.A.						PE			
Rich.						TD			
Sylv.						PBTD			
						I.P.			
CORES, D.S.T.'s, Shows, L.C.Z.'s.									
Plug g Permit									
Plug g Comm.									
Plug g Comp.									
Plug g Record									
Site Recl'm									
Site Appl.									
R-7217									

P/N 35006

Form	Depth	Log	Depth	Log	Datum	Form	Depth	Log	Datum
Drift						B.B.			
						BI			
						Sal			
TG						F			
BL						E			
Stray						D			
Pay						C			
Wtr						BEV.			
Marsh						A2C			
Wtr						A2Ev			
Cwrr						Aic			
Sun						Pay			
Ber						A-1 Ev			
Pay						BN			
Wtr						Pay			
Ant						GN			
TF						CI			
TL						Cinn			
Pay						U			
Wtr						Trent			
Dd						Pay			
Pay						BRF			
Wtr						Gw			
RCA						SP			
RCD						Pdc			
DR						Camb			
M.S.									
S.Z.									
M.A.						PE			
Rich.						TD			
Sylv.						PBTD			
						I.P.			
CORES, D.S.T.'s, Shows, L.C.Z.'s.									
Plug g Permit									
Plug g Comm.									
Plug g Comp.									
Plug g Record									
Site Recl'm									
Site Appl.									
R-7217									

P/N 34968

FIELD
 EXPLORATORY WYFIELD - 256-112 PERMIT 34968
 FACILITY D.P.
 OTHER RECORDS DUE: _____

OPERATOR: Traverse Oil Co.
 FARM: Weber 3-8"C"
 COUNTY: Grand Trav.TWP. Mayfield
 LOCATION: SE NW NE, S8 T25 RTT
 _____ NL _____ SL _____ EL _____ WL _____

FORM.	DEPTH	LOG	DATUM
DRIFT	MD/TVD		
TG	BOD		
BL			
STRAY			
MARSH			
CRR			
SUN			
BE			
ANT			
TF			
TL	BB 3698/3697.6		
ALP	BI 4130. 4126.9		
BELL	SAL 4484. 4429		
DD	FU 4465 4459.8		
RCA	FS 4498 4492.7		
RCD	FU 5105 5097.6		
DR	DU 5228. 5218.9		
SYLV	DS 5242 5332.8		
BB	CSH 5254 5244.7		
BI	BU 5328 5318.8		
SAL	BS 5370 5318.8		
E	A2C 5760 5360		
D	A2E 5860 5843.4		
C	A1C 5968 5949		
B EVAP	B Nia 6054 6033		
A2CARB	GR 6148 6123.9		
A2EVAP	DTD 6149 MD		
A1CARB	6125.9 TVD		
A1EVAP	LTD 6144 MD		
B NIAG			
W NIAG			
CL			
CINN			
TRENT			
BRF			
GW			
SP			
PDC			
CAMB			
PREC			
PBTD			
T.D.			

CASING RECORD			ELEVATIONS	
SIZE	AMOUNT	CEMENT	RIG FLOOR	
1 1/2"	52		K.B.	1109.8
1 1/2"	52	500	R.T. Platf.	1108.3
10			GROUND	1094.3
8 3/4"	3300	300	DRLG. COMM. 9/10/81	
7			DRLG. COMP. 9/17/81	
6			WELL COMP. 11/11/82	
5 1/2"	6149	300	DEEP. COMM.	
			DEEP. COMP.	
Liner			LOST CIRC. ZONES	

CONTRACTOR Reef Drlg.
 ROTARY
 CABLE
 COMB.
 FREEDOM #1
 9/10/81 KOP at 3550'
 to 4012 will spud PM
 KOP 3700
 9/14 Ø 77/8" hole at
 5589 in B Sal-t
 9/16 RTD 77/8" hole at
 6049 (MD) in BNia
 Iss tent. PI prior to log
 by Schlumb WOO
 9/17/81

POROSITY	
STRAY	
MARSH	
BE.	
TL	
DD	
RCD	
DR	
SZ	
RICH.	
E	
A1	
NIAG.	
TRENT	
BRF	
VW	

WELL COMPLETED AS: OIL GAS
 PRODUCING FORMATION N/A
 GRAVITY API _____

(N) IP _____
 (A) IP 140 RPTL + 100 M-8 + 100 RWC
 CHOKE _____ TP _____ CP _____

Description: of Detail (cont.) or Other Supplemental Data:

Blank lined area for description of detail or other supplemental data.

DEPARTMENT USE ONLY

Supplemental Plugging Data and Site Conditions:

Blank lined area for supplemental plugging data and site conditions.

Loc. levelled & portoured. slopes in gravel pit re-shaped. all equip removed from loc.

FINAL INSPECTIONS BY DEPARTMENT REPRESENTATIVES

SIGNATURE	DIVISION	DATE
Jerome F Wendell	Geol. Survey	7/16/86

OPERATIONS IN SEQUENCE:

Page C-39

600 psi SICP. Blew well dead. Pumped 142 bbl 10# brine in casing.
Well on vacuum.

Welded 2" nipple in 5-1/2" casing, pulling nipple.

Moved in tubing string.

OPERATIONS IN SEQUENCE:

MIRU Welltech Rig #159.

Tried changing out rams in BOP's. (2 hr rig time)

Installed BOP's, ran in hole w/tubing, picked up off ground 4374' of
2-3/8" & 1626' of 2-7/8".

Set cement retainer @ 6000'.

Had trouble getting rabbit to go thru tubing, (7 hr going in hole).
Stung out of retainer.

Circ fresh water around tubing. 133 bbl used.

Stung back in and ran injection test-6 BPM @ 100 psi,

Hydraulic pump went out on rig.

SION @ 9:30 pm.

OPERATIONS IN SEQUENCE:

Repaired hydraulic pump on rig.

Squeezed 50 sx common cement in perf's.

FPF 1600 psi.

Spotted 50 sx on top of retainer.

TOH w/tubing.

Tried to pull 5-1/2" casing, worked on rig clutch 3 1/2 hr.

Clutch finally repaired, able to pull slips on 5 1/2" casing.

RU Sego.

Free point and shot off 5 1/2" @ 4400'. Pulled 16 jts. 5 1/2" casing.

Welltech casing tongs were washing casing.

SION @ 8:30 pm.

OPERATIONS IN SEQUENCE:

RU Casing crew.

TOH w/5 1/2" casing. Total of 114 joints (4441').

TIH w/tubing to 3450'. Spot 100 sx.

TOH w/tubing. Free point and cement 8" casing @ 2800'.

SION.

OPERATIONS IN SEQUENCE:

RU Niagaran. Lay down 69 joints 8-5/8" casing. (Total 2789').

TIH w/tbg to 2600'. Spot 75 sx cement.

COOH, ly down tbg.

Spot 75 sx @ 1700', 75 sx @ 900' & 15 sx @ 60'.

RD MO service rig.

Welded plate on 11-3/4" below ground. Cut and capped all flow lines
Below ground.

STATE OF MICHIGAN
DEPARTMENT OF NATURAL RESOURCES
LOG OF OIL, GAS, DISPOSAL OR STORAGE WELL (ACT 61)
Submit in DUPLICATE Within 30 Days after Well Completion

PERMIT NUMBER
34594
DEEPENING PERMIT NUMBER

FEB 03 1983

NAME(S) & ADDRESS OF OWNER(S) SHOWN ON PERMIT
Great Lakes Niagaran
.O. Box 466
Traverse City, MI 49684

NAME & ADDRESS OF DRILLING CONTRACTOR(S)
Nicor Drilling Company
Gaylord, MI 49735

Page C-40

LEASE NAME(S) & WELL NUMBER SHOWN ON PERMIT
Berry #2-8

DIRECTIONALLY DRILLED
YES NO

SURFACE LOCATION SECTION TOWNSHIP RANGE TOWNSHIP NAME
NE/4 SW/4 NE/4 8 25N 11W Mayfield

FOOTAGES (North/South) (East/West) COUNTY NAME
854 Ft. from South Line and 825 Ft. from West Line of quarter section Grand Traverse

SUBSURFACE LOCATION SECTION TOWNSHIP RANGE TOWNSHIP NAME
same

FOOTAGES (North/South) (East/West) COUNTY NAME
Line and Ft. from Line of quarter section

D
A
T
E

DRILLING BEGUN 5/16/81	TOTAL DEPTH OF WELL Driller 6225 Log 6211	TYPE WELL Oil	ELEVATIONS	
DRILLING COMPLETED 5/25/81	FORMATION AT T.D. Niagaran	FT. DRLD. - ROTARY TOOLS From - To 6211	K.B. 1104.3	R.F.
WELL COMPLETED 12/21/81	PRODUCING FORMATION(S) Niagaran	FT. DRLD. - CABLE TOOLS From To	R.T.	Grd. 1088.9

CASING, CASING LINERS AND CEMENTING

PERFORATIONS

SIZE	WHERE SET	CEMENT	Ft. Pulled	DATE	NUMBER HOLES	INTERVAL PERFORATED	OPEN	
							YES	NO
16"	90	Driven						
11 3/4"	890	300 sx		6/15/81	12	6000-6006		
8 5/8"	3362	300 sx		12/15/81	7	6021-6024		
5 1/2"	6210	250 sx	4500					

GROSS PAY INTERVALS

ALL OTHER OIL AND GAS SHOWS OBSERVED OR LOGGED

FORMATION	OIL OR GAS	FROM	TO	FORMATION	OIL OR GAS	DEPTH	WHERE OBSERVED (X)					
							Samples	Odor	Pits	Mud Line	Gas Log	Fill Up
Niagaran	Oil	6000	6024	-								

STIMULATION BY ACID OR FRACTURING

WATER FILL UP (F.U.) OR LOST CIRCULATION (L.C.) (X)

DATE	Interval Treated	Materials and amount used	FORMATION	F.U.	L.C.	DEPTH	AMOUNT
6/15/81	6000-6006	500 gals 28% acid					
6/30/81	"	4000 gals 15% HCL Acid					
"	"	3000 gals 15% HCL Gelled					
12/15/81	6021-6024	500 gals 28% Acid					

MECHANICAL LOGS, LIST EACH TYPE RUN

DEPTH CORRECTION DEVIATION SURVEY PLUGGED BACK

Brand	(X)	LOG TYPES	LOGGED INTERVALS	DEPTH	CORRECT'N	RUN AT	DEGREES	YES	NO	DEPTH
Schlumberger	X	CNL/LDT	200-6211							
Birdwell		DLL/MLL	5700-6205							

PRODUCTION TEST DATA

L - Bbls/day 20	GRAVITY - °API 46	COND. Bbls/day -	GAS - MCF/day -	WATER - Bbls/day 100	H ₂ S - Grains/100 cu. ft. nil	B.H.P. AND DEPTH -
--------------------	----------------------	---------------------	--------------------	-------------------------	--	-----------------------

I AM RESPONSIBLE FOR THIS REPORT. THE INFORMATION IS COMPLETE AND CORRECT.

DATE 2/1/83 NAME AND TITLE (PRINT) Linda McConnell, Agent
Linda McConnell *Linda McConnell*

FORMATION RECORD

(ATTACH ADDITIONAL SHEETS IF NECESSARY)

ELEVATION USED: KB: 1104.3	GEOLOGIST NAME: McConnell	TOPS TAKEN FROM: <input type="checkbox"/> DRILLERS LOG <input type="checkbox"/> SAMPLE LOG <input checked="" type="checkbox"/> ELECTRIC LOG
-------------------------------	------------------------------	--

	TO	FORMATION (TYPE, COLOR, HARDNESS)	FROM	TO	FORMATION (TYPE, COLOR, HARDNESS)
--	----	--------------------------------------	------	----	--------------------------------------

NOTE: IF WELL DIRECTIONALLY DRILLED, ADD TRUE VERTICAL DEPTH FORMATION TOPS WHERE APPROPRIATE.

0	780	Drift - sandstone			
780	1502	Base of Drift - sandstone			
1502	1712	Antrim - Shale			
1712	1787	Traverse Fmt - ls, lt gy			
1787	2352	Traverse Lime - ls, lt to m/brn			
2352	2455	Bell Shale- sh, dk gy			
2455	2640	Dundee - ls, m/brn			
2640	3212	Detroit River Salt - salt			
3212	3612	Base Det River Salt - Anhy			
3612	3740	Amherstburg -ls, dk brn			
3740	4139	Bois Blanc -chert			
4139	4437	Bass Islands - dol, m/brn			
4437	4468	G Unit-sh, lt gy			
4468	4500	F Unit-dol, lt brn tan			
4500	5106	F Salt -slat			
5106	5226	E Unit - Dol, m/brn			
5226	5256	D Unit - salt			
5256	5328	C Shale-shale			
5328	5356	B Unit - dol, lt brn			
5356	5746	B Salt - See Mud Log			
5746	5832	A2 Carb			
5832	5952	A2 Evap			
5952	6000	A1 Carb			
6000		Reef			

IF WELL WAS CORED, ATTACH CORE DESCRIPTION

DRILL STEM TEST DATA

WELL PLUGGING RECORD

(Submit in TRIPLICATE Within 30 Days After Plugging is Completed)

PERMIT NUMBER
34594

FIELD NAME

FEB 03 1983

COMPLETE NAME(S) AND ADDRESS OF WELL OWNER
Great Lakes Niagaran, P.O. Box 466, Traverse City, MI 49684

COMPLETE LEASE OR FARM NAME(S)
Berry 2-8

WELL NUMBER
2-8

WELL LOCATION
NE 1/4 SW 1/4 NE 1/4 SEC. 8 T.25N R.11W

TOWNSHIP
Mayfield

COUNTY
Grand Traverse

TYPE OF WELL (Oil, Gas, Dry Hole, etc.)
Oil

TOTAL DEPTH
6210

FORMATION
Niagaran

DATE PLUGGING STARTED
1/4/83

DATE PLUGGING COMPLETED
1/11/83

DEPT. REPRESENTATIVE(S) WHO ISSUED PERMIT OR WITNESSED PLUGGING
Jerry Wendel

CASING RECORD			
SIZE CASING	DEPTH SET	AMOUNT RECOVERED	SHOT OR RIPPED
16"	90	Driven	
11 3/4"	890		
8 5/8"	3362		
5 1/2"	6210	4500'	

BRIDGES OR PLUGS		
TYPE (Brush, Stone, Cement, Mechanical, etc.)	DEPTH PLACED	SACKS OF CEMENT AND ADDITIVES
Cement	5950	50 sx
"	4500	100 sx

Were tools, tubing, casing, etc., lost or left in the hole before or during plugging? YES NO

If yes, give details:
See Casing Record

Did a Service Company pump mud, spot cement, or set bridge plugs? YES NO

If yes, give name and address:
Dowell
Kalkaska, MI

Was the well plugged by a Company or Contractor other than Owner or Operator? YES NO

If yes, give name and address:
T & J Tank #1
Kalkaska, MI

Representatives of Owner, Operator, Company, or Contractor who witnessed plugging:
John Vandekerkhof

DESCRIBE IN DETAIL HOW WELL WAS PLUGGED

Set Retainer at 5950. Perfs Would not take cement. Dumped 50 sx on top of retainer at 5950. Feepointed, cut & pulled 5 1/2" casing at 4500'. Spotted 100 sx High dense cement as Kickoff plug.

(USE REVERSE SIDE IF NEEDED)

CERTIFICATION

I certify that I am authorized by said Owner or Operator to make this report; and that this report was prepared under my supervision and direction and that the facts stated herein are true, correct and complete to the best of my knowledge."

NAME AND TITLE (Typed or Printed) Linda McConnell, Sec/Treas

COMPANY NAME AND ADDRESS
McConnell Consulting, Inc.
1515 Cass
Traverse City, MI 49684

SIGNATURE


DATE (Month, Day, Year)
2/2/83

NAME(S) & ADDRESS OF OWNER(S) SHOWN ON PERMIT Great Lakes Niagaran .O. Box 466 Traverse City, MI 49684	NAME & ADDRESS OF DRILLING CONTRACTOR(S) McLachlan Drilling Company Evart, MI 49631
---	---

LEASE NAME(S) & WELL NUMBER SHOWN ON PERMIT Berry 2-8A	DIRECTIONALLY DRILLED YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>
---	--

SURFACE LOCATION NE 1/4 SW 1/4 NE 1/4	SECTION 8	TOWNSHIP T25N	RANGE R11W	TOWNSHIP NAME Mayfield
--	--------------	------------------	---------------	---------------------------

FOOTAGES (North/South) 854 Ft. from South Line and 825 Ft. from West Line of quarter section	(East/West)	COUNTY NAME Grand Traverse
---	-------------	-------------------------------

SUBSURFACE LOCATION NE 1/4 SW 1/4 NE 1/4	SECTION 8	TOWNSHIP T25N	RANGE R11W	TOWNSHIP NAME Mayfield
---	--------------	------------------	---------------	---------------------------

FOOTAGES (North/South) 984 Ft. from South Line and 760 Ft. from West Line of quarter section	(East/West)	COUNTY NAME Grand Traverse
---	-------------	-------------------------------

D A T E	DRILLING BEGUN 1-17-83	TOTAL DEPTH OF WELL Driller 6065 Log 6063	TYPE WELL Oil		ELEVATIONS	
	DRILLING COMPLETED 1-25-83	FORMATION AT T.D. Niagaran	FT. DRLD. - ROTARY TOOLS From _____ To _____	K.B. 1103.3	R.F.	
	WELL COMPLETED 5-8-83	PRODUCING FORMATION(S) Niagaran	FT. DRLD. - CABLE TOOLS From _____ To _____	R.T.	Grd. 1088.9	

CASING, CASING LINERS AND CEMENTING

PERFORATIONS

SIZE	WHERE SET	CEMENT	Ft. Pulled	DATE	NUMBER HOLES	INTERVAL PERFORATED	OPEN	
							YES	NO
16"	90	Driven						
11 3/4"	890	300 sx		2-5-83	18	5880-5977		
8 5/8"	3362	300 sx		4-2-83	4	6022-6025		
5 1/2"	6064	150 sx						

GROSS PAY INTERVALS

ALL OTHER OIL AND GAS SHOWS OBSERVED OR LOGGED

FORMATION	OIL OR GAS	FROM	TO	FORMATION	OIL OR GAS	DEPTH	WHERE OBSERVED (X)				
							Samples	Odor	Pits	Mud Line	Gas Log.
AlCarb	Oil	5880	5910	None							
Niagaran	Oil	5940	5978								

STIMULATION BY ACID OR FRACTURING

WATER FILL UP (F.U.) OR LOST CIRCULATION (L.C.) (X)

DATE	Interval Treated	Materials and amount used	FORMATION	F.U.	L.C.	DEPTH	AMOUNT
2-6-83	5880-5977	3600 gals 28% acid	None				
2-16-83	5880-5977	5000 gals 28% acid					
2-24-83	5966-5977	15,000 gals 28% acid					
2-25-83	5880-5910	2000 gals 28% acid					
4-6-83	6022-6025	1000 gals 20% acid					

Brand	(X)	LOG TYPES	LOGGED INTERVALS	DEPTH	CORRECT'N	RUN AT	DEGREES	MECHANICAL LOGS, LIST EACH TYPE RUN		
								DEPTH CORRECTION	DEVIATION SURVEY	PLUGGED BACK
Schlumberger	X	LDT/CNL	4000-6060			See attached				
Birdwell		DLL/MLL	4000-6060							

PRODUCTION TEST DATA

OIL - Bbls/day	GRAVITY - °API	COND. Bbls/day	GAS - MCF/day	WATER - Bbls/day	H ₂ S - Grains/100 cu. ft.	B.H.P. AND DEPTH
30	46	0	--	100	Nil	1921 psi 5929

I AM RESPONSIBLE FOR THIS REPORT. THE INFORMATION IS COMPLETE AND CORRECT.

DATE 5-26-83	NAME AND TITLE (PRINT) Linda McConnell	SIGNATURE <i>Linda McConnell</i>
-----------------	---	-------------------------------------

NOTICE REPORT COMPLETE SAMPLE AND FORMATION RECORD AND DRILL STEM TEST INFORMATION ON REVERSE SIDE

APPROPRIATE BLOCKS FOR ITEMS NOT LISTED SUBMIT ATTACHMENTS
REQUIRED BY AUTHORITY OF:
 ACT 61, P.A. 1939, AS AMENDED ACT 315, P.A. 1969, AS AMENDED

NON-SUBMISSION AND/OR FALSIFICATION OF THIS INFORMATION MAY RESULT
IN FINES AND/OR IMPRISONMENT.

RECORD OF WELL: PLUGGING REWORK
(MAIL THREE COPIES TO THE DISTRICT OFFICE WITHIN 30 DAYS AFTER
COMPLETION OF PLUGGING OR REWORK)

NAME AND ADDRESS OF WELL OWNER
Great Lakes Niagaran
c/o Louis A. Smith
603 Bay Street
Traverse City, MI 49684

FILLD/FACILITY NAME
Wildcat

WELL NAME & NUMBER
Berry et al #2-8A

WELL LOCATION
NE 1/4 of SW 1/4 of NE 1/4 Section 8 T25N R11W

TOWNSHIP COUNTY
Mayfield Grand Traverse

TOTAL DEPTH FORMATION
6064' Niagaran

PLUGGING/REWORK STARTING DATE PLUGGING/REWORK COMPLETION DATE
2/3/86 2/6/86

TOTAL DEPTH AFTER REWORK MECHANICAL LOGS RUN
surf.

WELL COMPLETED FOR FORMATION AND ZONE

CASING SIZE	WHERE SET	AMOUNT RECOVERED	SHOT OR HIPPLD	TYPE OF BRIDGES OR PLUGS	DEPTH PLACED	SACKS OF CEMENT & ADDITIVE
16"	80	none		cement	30'	15 sx Cl A
1 13/4"	893	"		"	950'	75 sx Cl A
85/8"	3562	2500	shot	"	1800'	75 sx Cl A
5 1/4"	6064	4380	"	"	2500'	75 sx Cl A
				"	3400	100 sx Cl A
				Cement & retrn.	5800'	50/50 sx Cl A

WERE TOOLS, TUBING, CASING, ETC. LOST OR LEFT IN THE HOLE BEFORE OR
AFTER PLUGGING? IF YES, GIVE DETAILS
yes - see above

DID A SERVICE COMPANY PUMP MUD, SPOT CEMENT, OR SET BRIDGE PLUGS?
IF YES, GIVE NAME AND ADDRESS.
Yes: Dowell
Kalkaska, MI

WELL PLUGGING/REWORK CONTRACTOR AND ADDRESS
Niagaran Well Services
Traverse City, MI 49684

PERMITEE'S PLUGGING WITNESS
JACK ROCKS

NAME(S) OF DNR REPRESENTATIVE WHO:
Jerry Wendel ISSUED PERMIT
 WITNESSED PLUGGING

WELL CASING RECORD — BEFORE REWORK

Casing		Cement		Perforations		Acid or Fracture Treatment Record	Perforations If plugged, how?
Size	Depth	Sacks	Type	From	To		
16"	80	drvn	n/a				
1 13/4"	893	n/a	n/a				
85/8"	3362	n/a	n/a				
5 1/2"	6064	n/a	n/a	5880	5977		

WELL CASING RECORD — AFTER REWORK (Indicate additions and changes only)

Casing		Cement		Perforations		Acid or Fracture Treatment Record	Perforations If plugged, how?
Size	Depth	Sacks	Type	From	To		

DESCRIBE IN DETAIL HOW WELL WAS PLUGGED OR REWORKED.

Set 5 1/2" cmt. retrn. at 5800'. Spot 50 sx Cl A cmt. below and 50 sx Cl A on top of retrn. TOOH. Freept. & cut 5 1/2" csg. off at 4380', LD same. TIH w/tubg. to 3400'. Spot 100 sx Cl A cmt. at 3400'. TOOH w/tubg. Freept. and cut 85/8" csg. off at 2500'. LD same. TIH w/tubg. to 1800'. Spot 75 sx Cl A cmt. LD tubg. to 950;. Spot 75 sx cl A at 950'. LD tubg. to 30'. Spot 15 sx Cl A cmt. Cut wellhead off 4' below grd. level and cap w/1/2" steel plate.

