ATTACHMENT I
FORMATION TESTING

An injection test of the Weber #4-8 on November 9, 1982 showed the well was capable of accepting at least 42 GPM (61 BPH) on vacuum.

Present injection rates are 1000 bbl to 3000 bbl per day with no surface pressure. Since it is expected that the combined waste fluids will be injected at zero surface pressure and no injection pumps are planned, no fracture determination tests are planned.

The calculated maximum pressure gradient at the bottom of the 5 1/2" casing was calculated as follows:

5 1/2" casing seat = 1791'
Max. S.G. of Inj. Fluid = 1.07

Max. Pressure At Casing seat:
1791 x .433 x 1.07 = 829.7 PSI

Max. Pressure Gradient at Casing seat:
829.7/1791 = 0.463 PSI/Ft.

ATTACHMENT J
WELL STIMULATION

To remove fines introduced during the drilling operation and to clean up the injection interval, the Weber #4-8 was treated with acid on November 07, 1982. Approximately 1000 gallons of 28% Hydrochloric acid was distributed across the Traverse Limestone injection interval. The interval treated was between 1791 and 2200 feet.

Occasional stimulations with Hydrochloric acid are anticipated through out the life of the well. Treatment will more than likely be approximately 1000 gallons of 28% Hydrochloric acid.

ATTACHMENT K

INJECTION PROCEDURES

The surface facility will consist of a concrete unloading ramp, piping header, storage tanks, basket strainer, well annulus pressure maintenance system, security fence and containment dikes. Brine water and leachate will be off loaded from the trucks into one of the storage tank and then gravity fed to the disposal well. (See Figure K-1)

Description of surface facility:

Unloading Ramp:
Concrete Pad- Approx. 20′ by 80′ with 6″ containment curb

Storage Tanks:
6 to 8 - 400 BBL (16,800 Gal.) steel storage tanks

Filtration/Treatment:
Basket strainer - No other treatment or filtration is planned

Pumps:
None - Well takes fluid on a vacuum

Well annulus pressure maintenance system: (See Figure K-2)
Pressurized tank with pressure relief valve
Nitrogen supply
Necessary piping, valves and pressure regulator

Instrumentation:
Pressure/vacuum gauge on injection line
Pressure gauge on annulus system
Flow measuring device on injection line
Sight glass on pressurized annulus tank

Pollution Control:
Concrete Pad with curb for truck unloading
Containment dike around storage tanks
800 gal. concrete collection sump W/ pump

Safety/Security
6′ high chain link fence w/ 3 strands barbed wire
Pole mounted light

Figure K-1

PLAN OF SURFACE FACILITIES
Weber #4-8

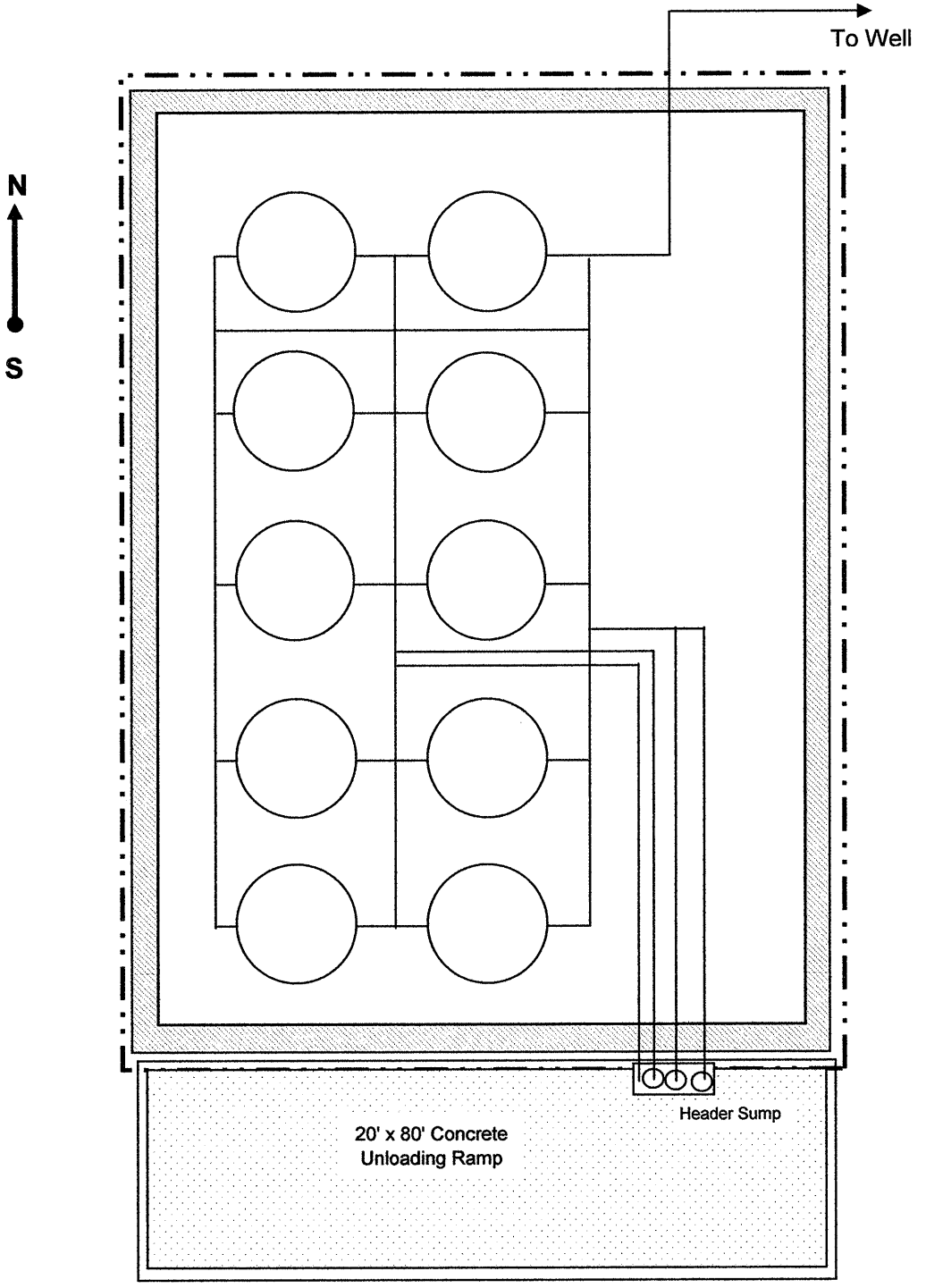
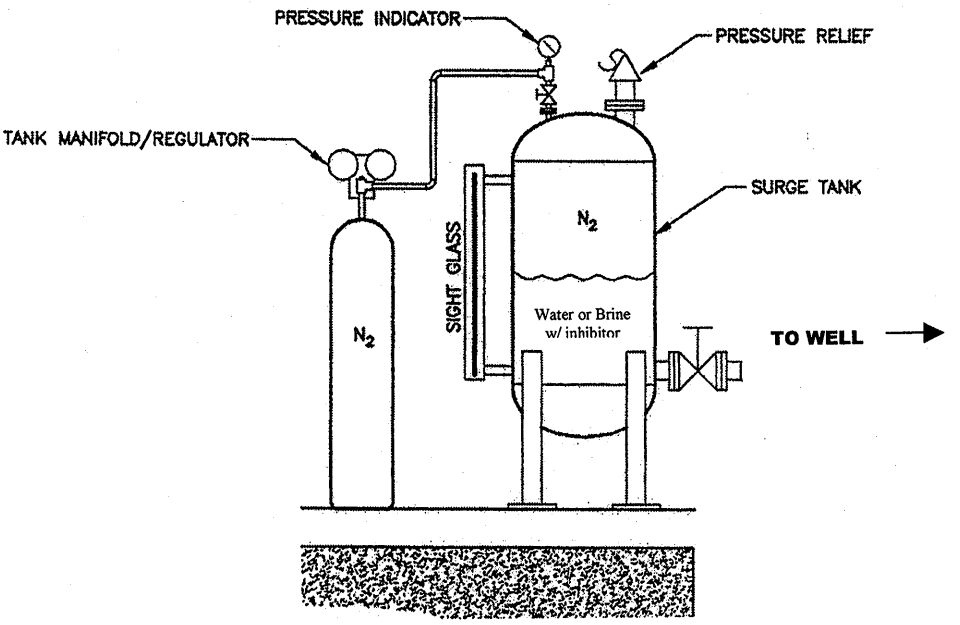


Figure K-2

PROPOSED ANNULUS
PRESSURE MAINTENANCE SYSTEM



ATTACHMENT L
CONSTRUCTION PROCEDURES

The Weber #4-8 was originally drilled as a saltwater disposal well in November 1982. After drilling a 12 1/4" hole, 8 5/8" casing was set at 911 feet. The casing was cemented to surface with 450 sacks of cement. A 7 7/8" hole was then drilled to the total depth of 2200' and 5 1/2" casing set at 1791' The 5 1/2" casing was cemented to surface with 305 sacks of cement. Salt water was circulated to clean out the well, and a packer run on 2 7/8" tubing and set at 1750'. Bear Lake Disposal operated the well until it was acquired by Team Completions.

A copy of the original drilling and completion report is on pages L-2 and L-3. Page L-4 is a copy of Michigan's Form 7210, "Log of Oil, Gas, Disposal or Storage Well" dated November 9, 1982. Page L-5 contains the Formation Record prepared by Geologists Warren A. Baumann and Jim Sanborn.

Weber #4-8 - ORIGINAL DRILLING REPORT

Well Name: WEBER #4-8 SWD
Permit No: 36221
Mayfield Township, Grand Traverse County
Surf LOG: Sec. 8, T25N-R11W, SW NE NE, 1115'FNL & 1209'FEL
Spudded: 1:30 AM., 11-03-82
Completion: 11-08-82
DTD: 2200'TD. (no logs run)
Elevations: KB 1120.6' RF 1119.1' GL 1105.1'
Contractor: Reef Drilling Corporation, Rig #1
Status: SI (11-09-82)

Casing: 8 5/8" csg @ 911' w/450 sxs cmt.
5 ½" csg @ 1791' w/305 sxs cmt.

Logs Run: None
Dev Surveys: 3/4° @ 2200'

11-02-82 Status - MI & RU. Cellar - 5'

11-03-82 Depth - 400', status - wo water, footage cut - 400', rate - 1/2 mpf, wt - 9.1, vis - 55, run no - 1, size-make - 12 ¼"HTC, OSC3AJ, wob - 35 to 40,000 Ibs, rs - 90 rpms, pp - 400 psi. Started losing fluid @ 200'±.

11-04-82 Depth - 1100', status - drlg, footage cut - 700', rate - 1 1/2 mpf, wt -8.5, vis - 31, run no - 1, size-make - 12 ¼" HTC, OSC3AJ, wob - 45,000 lbs, rs - 90 rpms, pp - 600 psi, Run no - 2 RR, size-make - 7 7/8" Reed TC, FP21J, wob - 25,000 Ibs, rs - 90 rpms, pp - 700 psi. Casing Detail: Ran 22 jts of 8 5/8", 24# used csg totaling 918.72'. Set shoe @ 911'. Dowell cmt'd w/250 sxs Filler, 50-50 poz, 6% gel, 3% CaC12 followed by 200 sxs Class A w/3% CaC12. Displaced w/54 bbls fr wa. SI @ 6:00 PM., 11-03-82. Circ'd 40 bbls of cmt to surf. Recip'd pipe while cementing. Sample Tops BOD - 791'.

11-05-82 Depth - 2000', status - drlg w/bit #3, footage cut - 900', rate - 1 mpf, wt - 8.8, vis - 30, run no - 2 RR, size-make - 7 7/8" RTC, FP21J, wob -25,000 lbs, rs - 70 rpms, pp - 700 psi, Run no - 3 RR, size-make -7 7/8" STC, F-4, wob - 40,000 lbs, rs - 70 rpms, pp - 1000 psi.

11-06-82 Depth - 2200'TD., status - circ @ TD w/salt water, footage cut - 200', wt - 8.8, vis - 30, dev - 3/4° @ 2200', run no - 3 RR, size-make -7 7/8" STC, F-4, wob - 40,000 lbs, rs -

70 rpms, pp - 1000 psi. Csg Detail: Ran 42 jts of 5 1/2", 15.5#, used K-55, ST&C csg totaling 1794.68'. Set Howco pkr shoe @ 1791'.' Howco cmt'd w/130 sxs 50-50 poz, 6% gel, 3% CaC12 followed by 175 sxs Class A w/3% CaC12. Displaced w/43 BFW. Bumped plug w/1000 psi. Float held OK. CIP @ 9:00 PM., 11-05-82. Circ'd 2 bbls cmt to surf.

11-07-82 Depth - 2200' TD. Status - WO location. Circ'd hole w/10.8 ppg salt water. TIH w/pkr on 55 jts of used 2 7/8" tbg. Set pkr @ 1750' (pkr type - 5 1/2" X 2 3/8" Shure Set tension), w/18,000# over string wt. NU 2 7/8" tbg head. Tested csg/tbg annulus to 300 psi, held OK. Established injection rate. Pumped 10.8 ppg salt water @ rates of 1 1/2 to 5 BPM w/pressures of 300 to 1200 psi prior to acidizing. RU Howco & treated open hole from 1791' - 2200* w/1000 gals 28% HC1 acid. Flushed w/35 bbls 10.8 ppg brine @ 3.5 bpm + 500 - 800 psi. Max/Min rate = 1.75/1.5 bpm. Max/Min press = 1000/700 psi. ISIP = vacuum. Had 300 psi break @ 1 3/4 bpm when acid hit formation. After acid job, formation took 10.8 brine on a vacuum, estimated rate @ 2 BPM±. Put reserve pit of 8.8 ppg brine away @ 3 1/2 bpm w/200 psi. Went on a vacuum when done. Did not pump all of reserve pit, just water from top. Released rig @ 11:00 PM. 11-06-82.

11-08-82 HU temporary 2 7/8" surface line from the Weber #3-8C brine load out to disposal well. Started injection test at 12:30 PM. Rates on vacuum as follows:

HOUR	BBLS	BPH	REMARKS
0			
.25	10	40	
.50	23	92	
.75	17	68	
1.00	20	80	
1.25	15	60	
1.75	35	70	
2.00	9	36	
			Switched Tanks
3.25	95	76	Added 13 BW (producing tank)
4.50	50	40	Added 13 BW (producing tank)

SI test @ 4:30 Pm. In 4 1/2 hrs, injected a total of 24 bbls of 10.8 ppg brine on a vacuum. Avg rate for test = 61 bph.

MICHIGAN FORM 7210 DATED 11-09-82

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: 36221
DEEPENING PERMIT NUMBER:

NAME(S) & ADDRESS OF OWNER(S) SHOWN ON PERMIT	NAME & ADDRESS OF DRILLING CONTRACTOR(S)
Reef Petroleum Corporation P.O. Box 148 Traverse City, MI 49685-0148	Reef Drilling Corporation P.O. Box 552 Mt. Pleasant, MI 48858

LEASE NAME(S) & WELL NUMBER SHOWN ON PERMIT	DIRECTIONALLY DRILLED
Weber #4-8	YES ☐ NO ☒

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

FOOTAGES (North/South) (East/West) — COUNTY NAME
1115 Ft. from North Line and 1209 Ft. from East 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	
	11-03-82	Driller 2200' Log -	Brine Disposal		
	DRILLING COMPLETED	FORMATION AT T.D.	FT. DRLD. – ROTARY TOOLS	K.B.	R.F.
	11-06-82	Traverse Lime	From Surf To 2200'	1120.6'	1119.1'
	WELL COMPLETED	PRODUCING FORMATION(S)	FT. DRLD. – CABLE TOOLS	R.T.	Grd.
	11-08-82	Traverse Lime	From - To -	-	1105.1'

CASING, CASING LINERS AND CEMENTING

SIZE	WHERE SET	CEMENT	Ft. Pulled
8 5/8"	911'	450 sxs	None
5½"	1791'	305 sxs	None

PERFORATIONS

DATE	NUMBER HOLES	INTERVAL PERFORATED	OPEN YES	OPEN NO

GROSS PAY INTERVALS

FORMATION	OIL OR GAS	FROM	TO
None			

ALL OTHER OIL AND GAS SHOWS OBSERVED OR LOGGED

FORMATION	OIL OR GAS	DEPTH	WHERE OBSERVED (X) Samples	Odor	Pits	Mud Line	Gas Log.	Fill Up
None								

STIMULATION BY ACID OR FRACTURING

DATE	Interval Treated	Materials and amount used
11-07-82	1791' - 2200'	1000 gals 28% HCl

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

FORMATION	F.U.	L.C.	DEPTH	AMOUNT
None				

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		None				2200'	3/4°			
Birdwell										
OTHER										

PRODUCTION TEST DATA

OIL – Bbls/day	GRAVITY – °API	COND. Bbls/day	GAS – MCF/day	WATER – Bbls/day	H_2S – Grains/100 cu. ft.	B.H.P. AND DEPTH
			61 BPH on vacuum			

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

DATE	NAME AND TITLE (PRINT)	SIGNATURE
11-09-82	Ronald R. Suckle, Vice President-Operations	Ronald R. Suckle

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

R - 7210
Rev. 3/77

FORMATION RECORD

Permit No. 36221

ELEVATION USED:	GEOLOGIST NAME:	TOPS TAKEN FROM:
1120.6'K.B.	Warren A. Baumann/Jim Sanborn	☐ DRILLERS LOG ☒ SAMPLE LOG ☐ ELECTRIC LOG

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

FROM	TO	FORMATION (TYPE, COLOR, HARDNESS)
DRIFT		
0	781	Sand & gravel. Sm redish shales.
COLDWATER		781 (+ 340)
781	1506	Sh, lt-med grys, frm, sub rnd, sli calc, pyr.
ANTRIM		1506 (- 385)
1506	1750	Shale, blk to dk brn, frm-britt, sub rnd v. grainy text, fnt yel glo flor.
TRAV FORM		1750 (- 629)
1750	1816	Sh, lt grys frm, sub rnd. Sm dolic, brn stringers, v. calc. pyr.
TRAV LIME		1816 (- 695)
1816	1870	Ls, lt tan to buff, fxln, mhd, gd, intrxln & micro pore Ø, no vis, stn, cln.
1870	2100	Ls, lt-med brns, vfxln, hd dns arg, sm gy shale, stringers. Trs, suc Ø cln, abnt fos.
2100	2200	Ls, med gy brn to crmy tans, vfxln, hd dns, arg, sm gd micro, por Ø intrvl from 2100 - 50. No stn - fos.
DTD - 2200'		

FROM	TO	FORMATION (TYPE, COLOR, HARDNESS)

IF WELL WAS CORED, ATTACH CORE DESCRIPTION

DRILL STEM TEST DATA

ATTACHMENT M

CONSTRUCTION DETAILS

Weber #4-8 -WELL CONSTRUCTION SUMMARY

The Weber #4-8 was drilled by Reef Petroleum Corporation in 1982.

a. Location: Sec. 8, T25N, R11W, Mayfield Township, Grand Traverse County, MI

b. Drilling Began: Nov. 03, 1982

c. Well Completed: Nov. 8, 1982

d. Total Depth: 2200' K.B. (15' above ground level)

e. Formation at T.D.: Traverse Limestone

f. Type completion - open hole

g. Surface Casing
8 5/8", 24.0 pound per foot casing set in 12 1/4" hole at 911' K.B. and cemented with 250 sacks of 50-50 pozmix containing 6% gel and 3% CaC12 and 200 sacks of Class A cement containing 3% CaC12. Circulated 40 barrels of cement to surface.

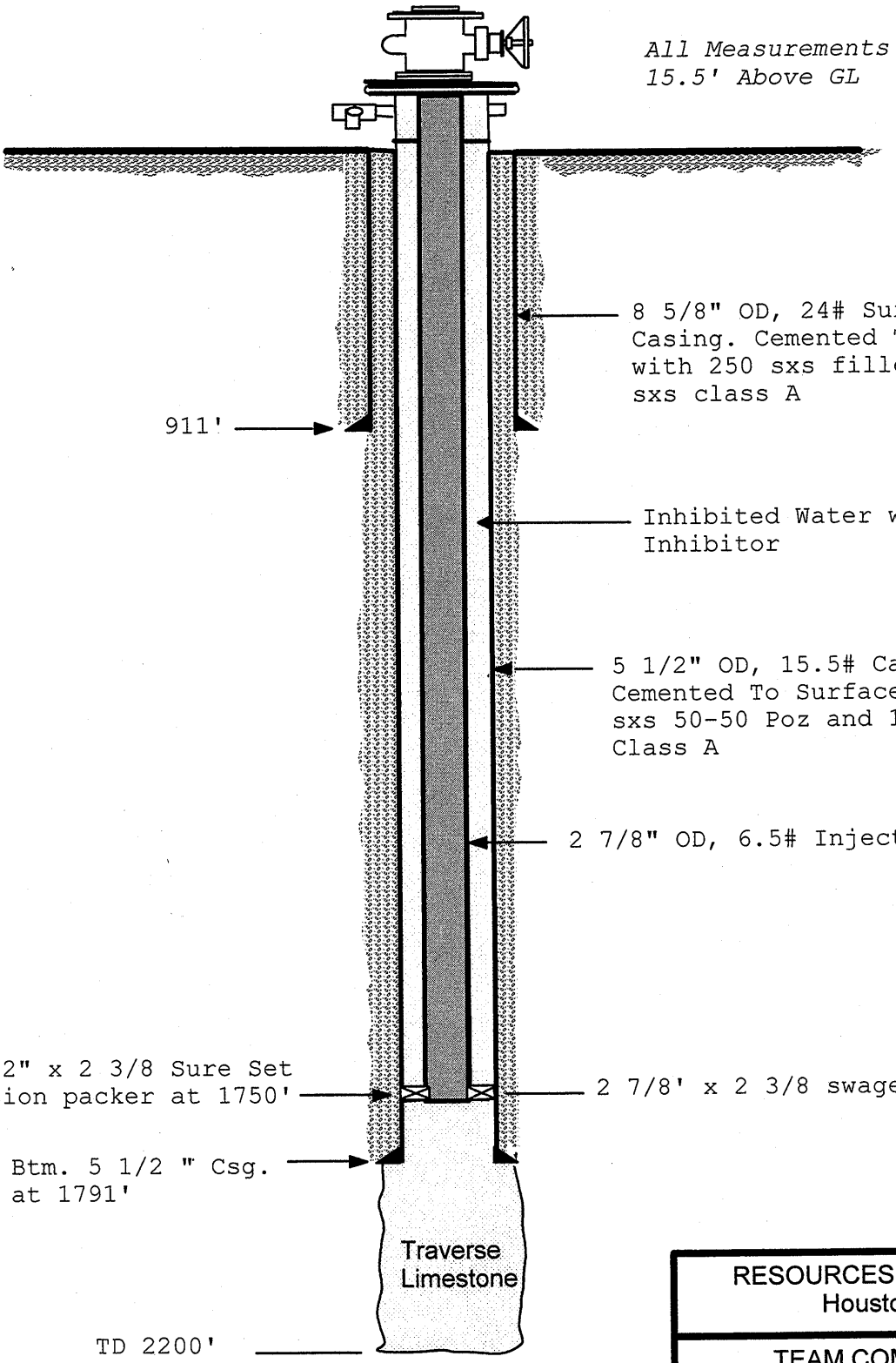
h. Protection Casing
5 1/2", 15.5 pound per foot casing set in 7 7/8" hole at 1791' K.B. Cemented with 130 sacks of 50-50 pozmix containing 6% gel and 3% CaC12 and 175 sacks of Class A cement containing 3% CaC12.displaced with 43 ~bls/ water. Circulated 2 barrels of cement to surface.

i. Tubing
2 7/8" O.D., 6.5 pound per foot, carbon steel tubing

j. Packer
Shure Set tension packer set at 1750' K.B.

k. Annular Fluid
Water with corrosion inhibitor.

Figure M-1



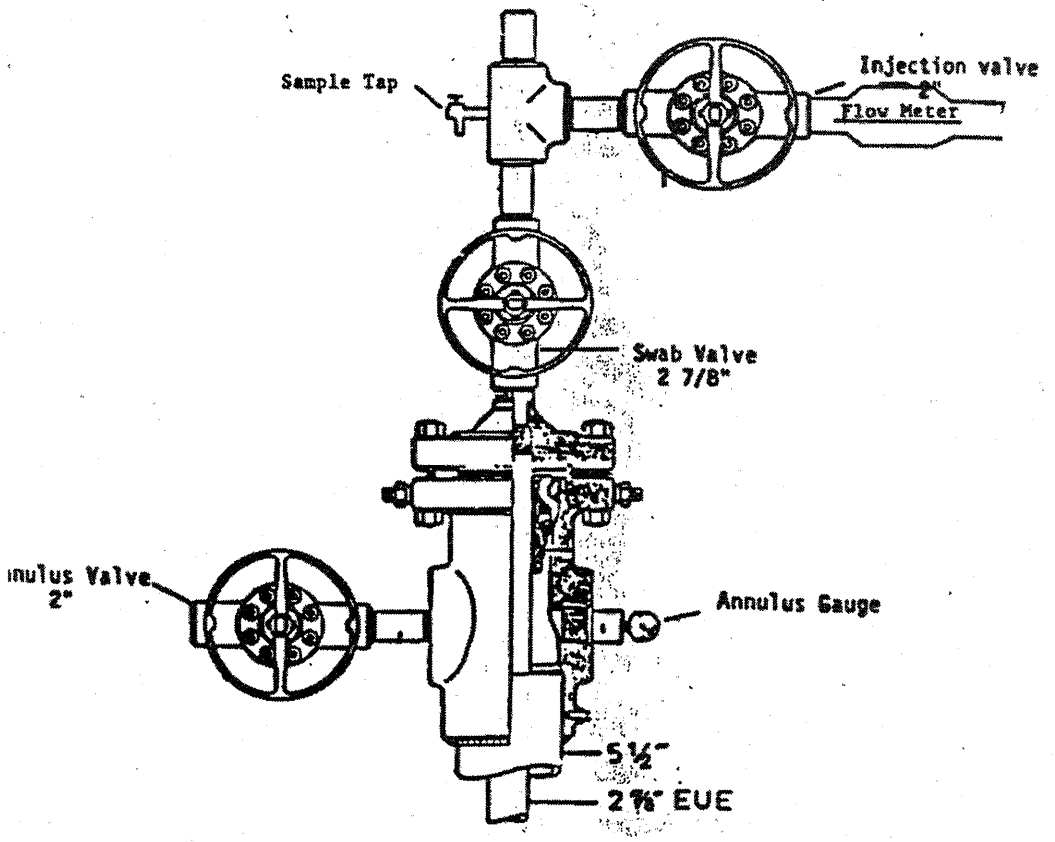
RESOURCES SERVICES USA Houston, Texas
TEAM COMPLETIONS KALKASKA, MICHIGAN
WEBER 4-8
Scale: None — Date 12/01/07

B & B Oilfield Equipment Corp.

WELLHEAD SPECIALISTS

W. H. (HAROLD) BANKS
PRESIDENT
BUSINESS PH (517) 773-6403

BOX 492
4741 EAST PICKARD
MT PLEASANT, MI 48858
RES PH (517) 826-6786



ATTACHMENT O

PLANS FOR WELL FAILURE

If Well #4-8 fails or is not usable, the well will be shut down until the condition is corrected. Any aqueous waste on site at the time of the failure will be held until the condition is corrected or will be hauled to a suitable offsite commercial treatment and disposal facility.

ATTACHMENT P
MONITORING PROGRAM

Continuously monitor pressure on the injection tubing.

Continuously monitor pressure between the tubing and the long string of casing.

Continuously monitor flow rate. The total volume of fluid injected can be determined from this information.

Daily monitor the annulus tank fluid level.

Record amount & type of liquid that is added or removed from annulus system.

File monthly, quarterly and annual reports required by US Environmental Protection Agency and the Michigan Department of Environmental Quality.

ATTACHMENT Q
PLUGGING AND ABANDOMENT PLAN
FOR WELL WEBER 4-8

(Prepared January 2008)

1. Notify regulatory agencies at least 45 days prior to commencement of plugging operations.
2. Pressure test casing tubing annulus to approximately 500 PSI. Run Temperature log from surface to bottom of casing (1791′) to demonstrate external mechanical integrity.
3. Record pressure decay for 24 hours or for a time period specified by USEPA Director.
4. Flush well with approximately 100 barrels of clean brine.
5. Move in rig, pump and tank. Install blow out preventer.
6. Release packer and remove injection tubing and packer.
7. Run casing inspection survey on 5 1/2″ casing from ±1791′ to the surface.
8. Run and set cement retainer in 5 1/2″ casing at ±1771′. Pump 150 sacks of cement through retainer. Release workstring from retainer.
9. After allowing sufficient time for the cement to set, pressure test casing to 500 PSI.
10. Run work string to top of cement retainer (or top of cement). Use Balance Method to place cement from approximately 1771′ to ±900′.
11. After allowing cement to set, tag top of cement.
12. Run work string to top of the second cement plug (±900′). Use Balance Method to place cement from ±900′ to surface.
13. Remove BOP and wellhead equipment. Release equipment
14. Install a permanent marker on the well site.
15. Prepare a plugging report and a final well status drawing.

TEAM COMPLETION - WEBER 4-8

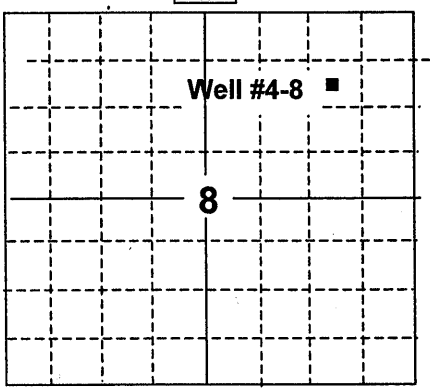
UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

PLUGGING AND ABANDONMENT PLAN

WELL NAME & NUMBER, FIELD NAME, LEASE NAME & NUMBER
WELL - Weber 4-8

NAME, ADDRESS, & PHONE NUMBER OF OWNER / OPERATOR
TEAM COMPLETIONS L.L.C.
P.O. Box 1104
Kalkaska, MI 49646

Locate Well and Outline Unit on Section Plat - 640 Acres



STATE	COUNTY	STATE PERMIT NUMBER
Michigan	Grand Traverse	36221

SURFACE LOCATION DESCRIPTION
SW 1/4 of NE 1/4 of NE 1/4 of Section 8 Township 25N Range 11W, Mayfield Twp.

LOCATE WELL IN TWO DIRECTIONS FROM NEAREST LINES OF QUARTER SECTION AND DRILLING UNIT

Surface Location 1115 ft. From (N/S) North Line of Quarter Section
And 1209 ft. From (E/W) East Line of Quarter Section

TYPE OF AUTHORIZATION
- [x] Individual Permit
- [ ] Rule
- [ ] Area Permit

Number of Wells in Area Permit: NA

US EPA Permit Number:

WELL ACTIVITY
- [x] Class I
  - [ ] Hazardous
  - [x] Nonhazardous
- [ ] Class II
  - [ ] Brine Disposal
  - [ ] Hydrocarbon Storage
  - [ ] Enhanced Recovery
- [ ] Class III
- [ ] Class IV

CASING/TUBING/CEMENT RECORD AFTER PLUGGING AND ABANDONMENT

Size	Wt (lb/ft) TBG/CSG	Original Amount (CSG)	CSG to be Left in Well	Hole Size	Sacks Cement Used	Type
/8"	24	911'	911'	12 1/4"	450 sacks Class A	
5 1/2"	15.5	1791'	1791'	7 7/8"	305 sacks Class A	

METHOD OF EMPLACEMENT OF CEMENT PLUGS
- [x] Balance Method
- [ ] Dump Bailer Method
- [ ] Two Plug Method
- [ ] Other

CEMENT TO PLUG AND ABANDON DATA	Plug # 1	Plug # 2	Plug # 3	Plug# 4	Plug #	Plug #	Plug #
Size of Hole or Pipe in Which Plug Will Be Placed (inches)	7 7/8", 4.95"	4.95"	4.95"				
Calculated Top of Plug (ft.)	1771'	900'	0				
Measured Top of Plug (ft.)							
Depth to Bottom of Plug (ft.)	2200'	1771'	900'				
Sacks of Cement to be Used	150	110	110				
Slurry Volume to be Used (cu. Ft.)	177	130	130				
Slurry Weight (lb./gal.)	15.6	15.6	15.6				
Type of Cement, Spacer or Other Material Used	Class A	Class A	Class A				
Type of Preflush Used	None	None	None				

DESCRIPTION OF PLUGGING PROCEDURE

See attached

Plug #1 - Hole drilled with 7 7/8" bit. Cement calculations based upon 7 7/8" hole plus 20% excess cement

ESTIMATED COST OF PLUGGING AND ABANDONMENT

Cement	$ -	15,000		Cement Retainer	$ -	2,500
Logging	$ -	10,000		Miscellaneous	$ -	4,000
Rig or Pulling Unit	$ -	13,000				
Rental tools, etc	$ -	1,500		Total	$ -	46,000

CERTIFICATION

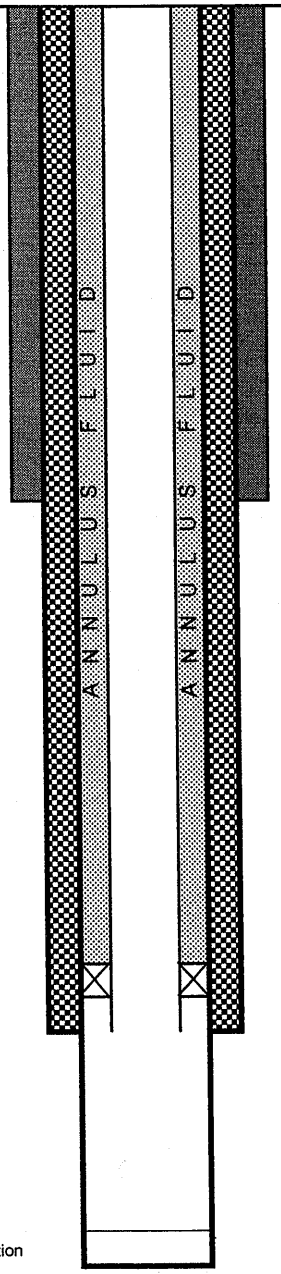
I certify under the penalty of law that I have examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete.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

NAME AND OFFICIAL TITLE	SIGNATURE	DATE SIGNED
Don Tinker, Member		6-25-08

ORIGINAL WELL CONSTRUCTION DURING OPERATION

TEAM COMPLETION WELL 4-8
Michigan Permit # 36221

All depths measured from KB - 15.5' above ground level



Top of Cement
Surface Casing
0'

of Cement
g String Casing
Surface

Packer Depth
1750'

Perforations - None

Hole Size 7 7/8"

** Add Any Additional Information

* May not Apply

Surface Casing
8 5/8" @ 911'

Injection Tubing
2 7/8", 6.5 #/ft

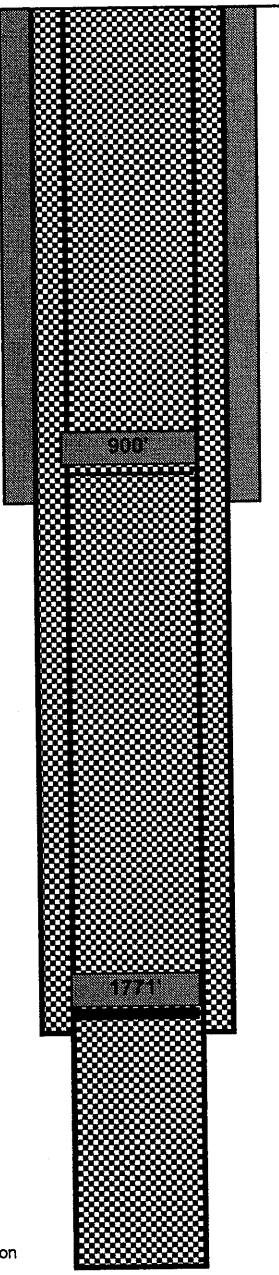
Long String Csg.
5 1/2" @ 1791'

* Depth Original 2200'

PLUGGING AND ABANDONMENT CONSTRUCTION

TEAM COMPLETION WELL 4-8

All depths measured from KB - 15.5' above ground level



Top of Cement
Surface Casing
0'

Top Plug Interval
900'-0'

Intermediate
Plug Interval
1771'-900'

Mechanical Plug
Depth 1771'

Bottom Plug Depth
1771'-2200'

** Add Any Additional Information

* May not Apply

USDW Base
781'

Surface Casing
8 5/8" @ 911'

Long String Csg.
5 1/2" @ 1791'

* Depth
Original 2200'

LIST OF ALL OPEN AND/OR PERFORATED INTERVALS AND INTERVALS WHERE CASING WILL BE VARIED

Specify Open Hole/ Perforations/ Varied Casing	From	To	Formation Name
Open Hole	1791'	2200'	Traverse Limestone

Prepared Dec. 2007

ATTACHMENT R
NECESSARY RESOURCES

ATTACHMENT T
EXISTING PERMITS

EXISTING PERMITS:

Michigan Permit # 36221.

USEPA Permit #MI-055-2D-C034

ATTACHMENT U
DESCRIPTION OF BUSINESS

Team Completions has been involved in the transportation and disposal of oilfield salt water at this facility since approval was granted to operate the Weber 4-8 on July 23, 2004. Team Completions is now making application to dispose of leachate water from the Glen's Sanitary Landfill in addition to the salt water presently being injected into the Weber #4-8.

All fluids to be injected are considered to be nonhazardous per RCRA regulations.

TEAM
Completions, LLC

July 15, 2008

US – EPA
REGION 5
77 West Jackson Blvd
Chicago, IL 60604-3590

Re: **Michigan DEQ Application for Permit to Convert and Operate Well**
Weber # 4-8 SWD, Class II, Type "D"
Permit # MI-055-2D-C034

Dear US – EPA:

With reference to the above Application, a Conformance Bond in the amount of TWENTY-THOUSAND AND NO/100 ($20,000) is currently held at Northwestern Bank located at 112 S. Cedar Street, Kalkaska, MI. The Certificate of Deposit No. is 059001578.

Upon acceptance of this Application, Team Completions, LLC, will increase the bond amount to $30,000.

If you have any questions or need additional information, please do not hesitate to contact me at 231-384-0306.

Sincerely,

TEAM COMPLETIONS, LLC

Michael J. Goggin
Controller, CPA

MG:mrf

P.O. Box 1104
Kalkaska, MI. 49646
231-258-9130 Fax 231-258-8760

MW080041

MW080041

DEQ

MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY - OFFICE OF GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO:
☐ DRILL ☐ DEEPEN ☒ CONVERT AND OPERATE A WELL

By authority of Part 615 or Part 625 of Act 451 PA 1994, as amended. Non-submission and/or falsification of this information may result in fines and/or imprisonment.

1a. Part 615 Supervisor of Wells
☐ Oil and Gas
☒ Brine Disposal
☐ Hydrocarbon Storage
☐ Injection for Secondary Recovery

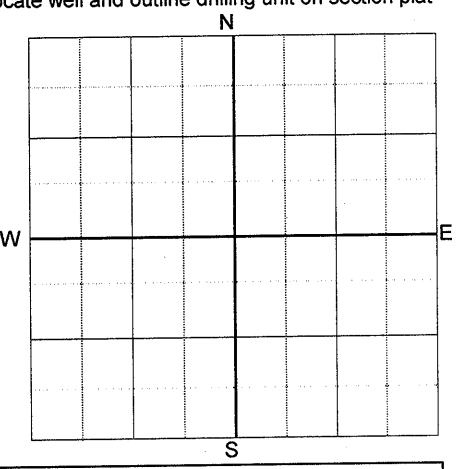
1b. Part 625 Mineral Wells
☒ Waste Disposal
☐ Brine Production
☐ Processed brine disposal
☐ Storage
☐ Test, fee sched. on rev.

1c. Fee enclosed
☒ Yes
☐ No, revision of application
☐ No, leg of horz drainhole

2. List all previous permit numbers
MI #36221, USEPA #MI-055-2D-C034

3. Fed. ID. No. (do not use SSN)
38-3578027

Locate well and outline drilling unit on section plat



4. Conformance bond
☐ Blanket ☒ Single well

5. ☐ Attached ☐ On file

6. Bond number

7. Bond amount

8. Applicant (name of permittee as bonded)
Team Completions L.L.C.

9. Address
P.O. Box 1104
Kalkaska
MI
49646

Phone
231.258.9130

I authorize DEQ 4 additional days to process this application.
☐ Yes ☐ No

10. Lease or well name (be as brief as possible)
Weber

Well number
4-8

11. Surface owner
Team Completions L.L.C.

12. Surface location
SW 1/4 of NE 1/4 of NE 1/4 of Sec 8 T 25N R 11W
Township: Mayfield
County: Grand Traverse

13. If directional, bottom hole location
1/4 of 1/4 of 1/4 of Sec T R
Township
County

14. The surface location for this well is
1115 feet from **nearest** (N/S) N section line AND 1209 feet from **nearest** (E/W) E section line

15. Is this a directional well? ☒ No ☐ Yes If yes, complete line15. The bottom hole location for this well is
_____ feet from **nearest** (N/S) _____ section line AND _____ feet from **nearest** (E/W) _____ section line

16. The bottom hole location (whether straight or directional) of this well is
_____ feet from **nearest** (N/S) _____ drilling unit line AND _____ feet from **nearest** (E/W) _____ drilling unit line

17. Kind of tools
☒ Rotary ☐ Cable ☐ Combination

18. Is sour oil or gas expected?
☒ No ☐ Yes ☐ H_2S Cont. plan enclosed

19. Base of lowest known fresh water aquifer
Formation Glacial Drift Depth 781'

20. Intended total depth
MD 2200 TVD

21. Formation at total depth
Traverse Lime

22. Producing/injection formation(s)
Traverse

23. Objective pool, field, or project
Injection well

24. PROPOSED DRILLING, CASING AND CEMENTING AND SEALING PROGRAM

HOLE			CASING			CEMENT			MUD	
Depth (MD)	Geol. Formation	Bit Dia.	O.D. Size	Wt/Ft Grade Condition	Depth (MD)	Sacks	T.O.C.	W.O.C	Wt.	Vis.
911'	Coldwater	12 1/4"	8 5/8"	24# used	911'	450	surf.		8.6	31
2200'	Traverse	7 7/8"	5 1/2"	15.5#, K-55, used	1791	305	surf.		8.8	30

25. DETAIL CEMENTING PROGRAM. IDENTIFY ALL CEMENT CLASSES, ADDITIVES, AND VOLUMES (IN CU. FT.) FOR EACH CASING STRING.

Surface 250 sxs 50-50 poz w/ 6% gel, 3% CaCl2 + 200 sxs. Class A w/ 3% CaCl2 - Circ'd 40 bbls cmt. to surface

Intermediate

Production/Injection 130 sxs 50-50 poz w/ 6% gel, 3% CaCl2 + 175 sxs. Class A w/ 3% CaCl2 - Circ'd 2 bbls cmt. to surface

26. Send correspondence and permit to
Name Team Completions, LLC E-mail timteamcompaniesllc.com
Address P.O. Box 1104, KALKASKA MI 49646 Phone 231-357-1016

CERTIFICATION "I state that I am authorized by said applicant. This application was prepared under my supervision and direction. The facts stated herein are true, accurate and complete to the best of my knowledge."

Enclose permit fee of $300 for all Part 615 wells; $2,500 for a Part 625 waste disposal well; or $500 for a brine production, processed brine disposal, or storage well. Make checks payable to State of Michigan.

27. Application prepared by (print or type) Phone
DON TINKER 231-357-1016

28. Signature Date
Don Tinker 6-24-08

DEQ Cashier use only.

Office of Geological Survey Use Only

Permit number	API number	Date issued	Owner number
			5994

EQP 7200-1 (rev. 5/2007) SEE INSTRUCTIONS FOR MAILING ON REVERSE

STATE OF MICHIGAN
DEPARTMENT OF NATURAL RESOURCES
GEOLOGICAL SURVEY DIVISION

SURVEY RECORD OF WELL LOCATION

(Submit five copies with Application for Permit to Drill a Well for Oil or Gas, Brine Disposal, Hydrocarbon Storage or Secondary Recovery)

LESSEE (OWNER OF LEASE RIGHTS)
REEF PETROLEUM CORPORATION, P.O. Box 148, Traverse City, Michigan 49685

LESSOR (OWNER OF MINERAL RIGHTS)
WEBER

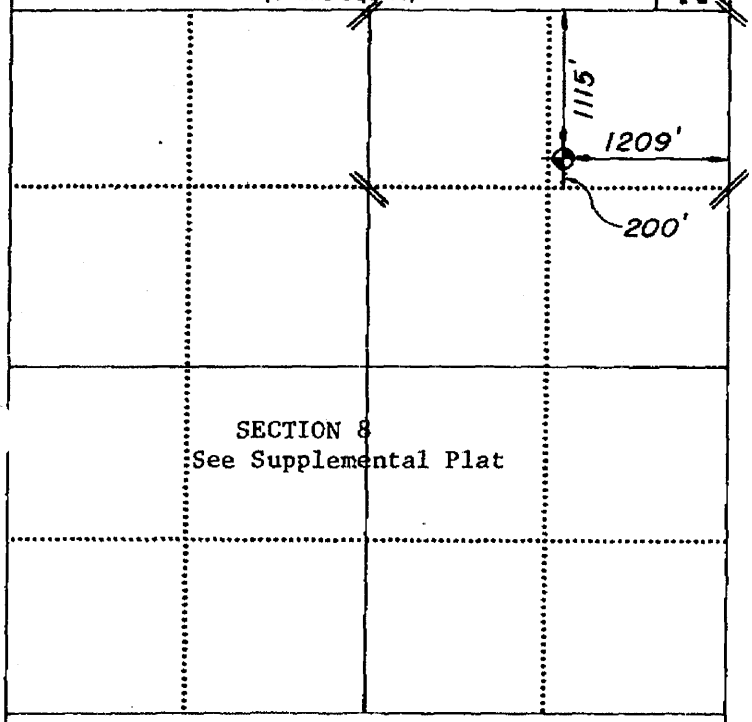
WELL NO.
4-8 SWD

LOCATION
SW ¼ OF NE ¼ OF NE ¼ SECTION 8 T. 25N R. 11W

TOWNSHIP
Mayfield

COUNTY
Grand Traverse

PLAT BELOW REPRESENTS ONE FULL SECTION
(1 Mile Square)



(Scale of Plat -- 1 inch equals 1320 ft.)

1. Outline drilling unit and spot well location on plat at left. Where drilling unit crosses section lines, divide the plat into an east half and a west half **OR** a north half and a south half (which ever applies). Outline the unit and locate the well in two directions from **NEAREST** quarter section and unit lines.

2. Location of well in two directions from **NEAREST** quarter section and unit lines is:

1115 ft. from North (north-south) line of Quarter Section

1209 ft. from East (east-west) line of Quarter Section

200 ft. from South (north-south) line of unit

1209 ft. from East (east-west) line of unit

3. Describe wellsite marker. Show or describe access route if it is not readily accessible.

The wellsite is marked with an orange painted wood stake. The stake is visible from Highway M-37 1200 feet South of Miller Road.

4. ON SEPARATE PLAT OR PLOT PLAN:

A. Locate, identify, and show distances to all roads, power lines, residences, farm buildings, and other structures within 300 feet of the stake;

B. Locate, identify, and show distances to all lakes, streams, swamps, drainage-ways or any other surface water features within 1320 feet of the stake.

5. In an ENVIRONMENTAL IMPACT ASSESSMENT describe all structures and surface features shown detailing plans for hazards prevention and erosion control (See instructions and guidelines for preparation of an environmental impact assessment).

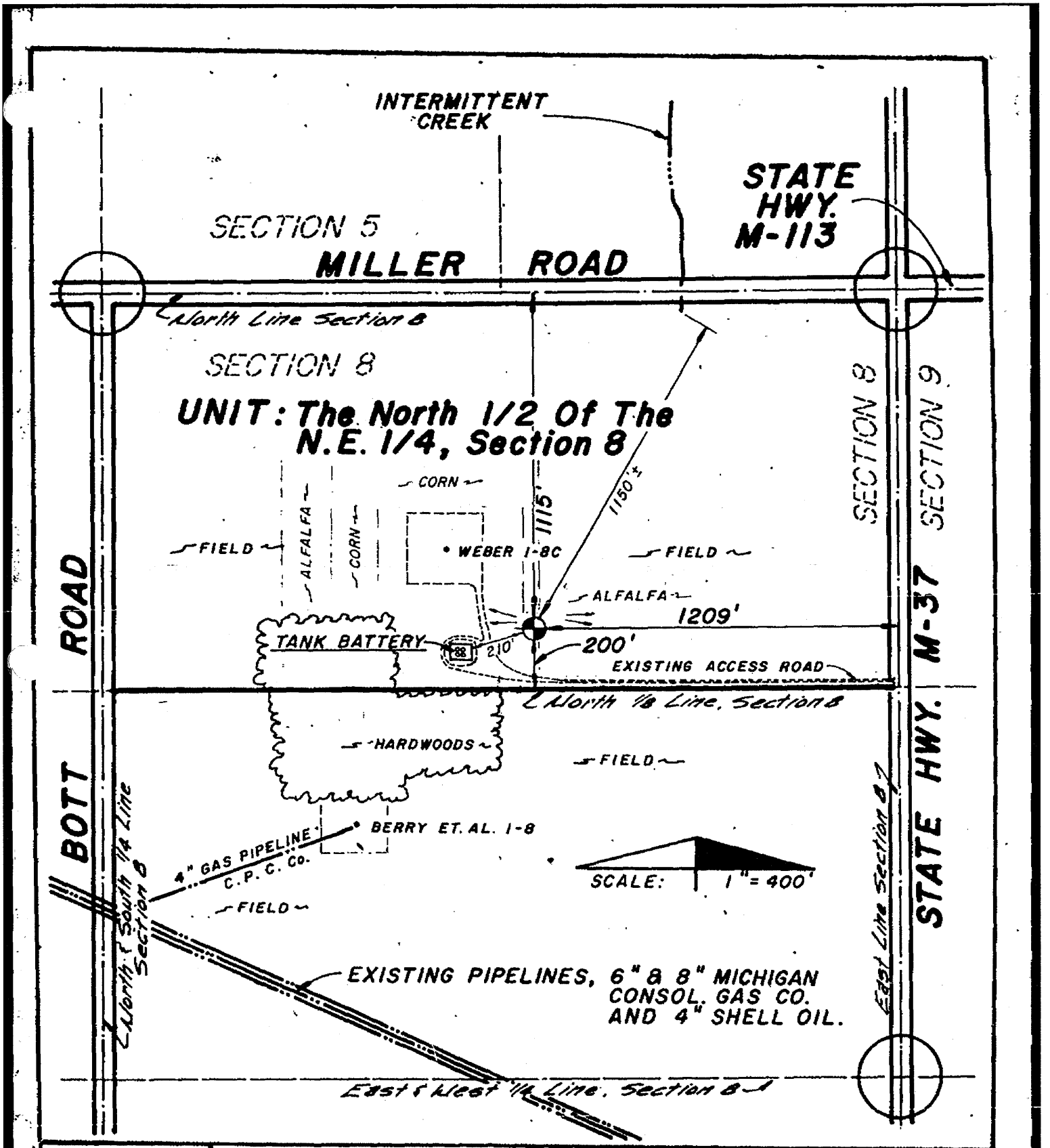
NAME OF INDIVIDUAL WHO SURVEYED WELL SITE	DATE	TITLE
Auberry H. Grush, Licensed Land Surveyor	10-14-82	

ADDRESS
REEF PETROLEUM CORPORATION, P.O. Box 148, Traverse City, Michigan 49685

I CERTIFY THE ABOVE INFORMATION IS COMPLETE AND ACCURATE TO THE BEST OF MY KNOWLEDGE AND BELIEF

SIGNATURE (LESSEE OR AUTHORIZED REPRESENTATIVE)	ADDRESS (IF DIFFERENT THAN LESSEE)	DATE (MONTH, DAY, YEAR)
Auberry H. Grush		10/14/82

R 7208 (REV. 3/80)



Drawn by: AHG Checked by: LHK Scale: 1" = 400' Date: 10/14/82 Sheet: 1/1	SUPPLEMENTAL PLAT: WEBER #4-8 S.W.D., N.E. 1/4, N.E. 1/4, SECTION 8, T25N, R11W, MAYFIELD TOWNSHIP, GRAND TRAVERSE CO., MICHIGAN.	REEF PETROLEUM CORPORATION "The Discovery People" P.O. BOX 148 13685 W. BAY SHORE DR. TRAVERSE CITY, MICHIGAN 49684 Telephone: 616-946-1473

Team Completions
Kalkaska, Michigan

Application for Converting Weber 4-8 From a Class II Type D Disposal Well to a Class I and Class II Type D Disposal Well

Well Identification

Name of Applicant	:	Team Completions L.L.C.
Address	:	PO Box 1088 Kalkaska, Michigan 49646
Well Name and Number:		Weber 4-8 SW, NE, NE Sec 8, T25N, R11W Mayfield Township Grand Traverse County, Michigan

The following information is included in this section:

- Project Description
- 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

PROJECT DESCRIPTION

General Description

This Application for Permit is for the purpose of adding leachate water from the Glen's Sanitary Landfill to the saltwater presently being injected into the Weber #4-8 Saltwater Disposal Well.

The Weber #4-8 was originally drilled in November of 1982 under Michigan Permit #36221. The well is presently operated as a commercial saltwater disposal well under USEPA Class II, Type "D" Permit #MI-055-2D-C034.

The location of the well and surface facility is shown on the surveyed plat at the end of this attachment.

Type Injectate

Sodium Chloride/Calcium Chloride brine water produced from the Niagaran is presently being injected into the Traverse and Traverse Lime formation between 1791 and 2200 feet. The brine has a specific gravity of from 1.02 to 1.07 (8.5 to 8.9 pounds/gallon).

It is proposed that in addition to the present brine water being injected that leachate from the Glen's Sanitary Landfill at Maple City, Michigan be injected. Typical analysis of the leachate is shown on page in Attachment "H"

The anticipated daily injection rates are between 29 and 146 gallons per minute (1000 bbl to 5000 bbl per day). It is expected that the combined waste fluids will be injected at zero surface pressure and no pumps will be required.

The injectate is classified as non-hazardous as defined by Rule 299.9203 of Act No. 64 Hazardous Waste Management Act, 1979 PA 64 as amended.

Surface & Mineral Ownership

The proposed well is located on private property owned by Team Completions L.L.C.

Public Lands Involved

No State or Federal minerals and/or land interests are part of this project.

NOTICE OF INTENT

Notice of intent to complete Weber 4-8 as a Class I disposal well will be advertised in local newspaper.

SURFACE DESCRIPTION

Surrounding Area

The surrounding area is primarily used for agriculture with some oil and gas industry activities. Residences are scattered along area roads. Miller Road is approximately 1100′ to the North, Highway 37 is approximately 1200′ to the East, Harrand Road is approximately 4200′to the South and Botts Road is approximately 1400′ to the West of the Weber 4-8 well.

There are no major waterways, lakes or streams with 1320′ of Weber 4-8.

Current Land Use

The current use of the area is for the disposal of saltwater into the Weber 4-8. Present surface facilities consist of an unloading ramp, storage tanks, security fence and containment dikes.

ENVIRONMENTAL IMPACT ASSESSMENT FOR MINERAL WELLS AND SURFACE FACILITIES

To be submitted with an application for a well permit pursuant to Part 625, 1994 PA 451, as amended (The Act) or prior to construction of associated surface facilities located more than 300 feet from the proposed well.

Check all boxes and fill in all blanks that apply to the proposed well(s) or proposed surface facility.

Submit a *Soil Erosion and Sedimentation Control Plan* (EQP 7200-18) for each drill site, surface facility and flowline identified in the EIA.

This EIA is for (check one)

- ☐ Well only. Complete Parts A, B, D, E, and F
- ☐ Surface facility only (to be constructed more than 300 feet from the well). Complete Parts A1, A2, C, D, E, and F
- ☒ Well and surface facility. Complete all Parts.

A. PROJECT DESCRIPTION

1. Applicant
Team Completions L.L.C.

2. Well name and number
Weber 4-8

3. Well type

- ☐ Artificial brine production well
- ☐ Natural brine production well
- ☐ Test well greater than 250' deep or penetrating below deepest freshwater aquifer
- ☐ Blanket test well(s) Number of proposed wells ___ Anticipated maximum depth _____
- ☐ Processed brine disposal well
- ☐ Single-source, non-commercial, waste disposal well
- ☒ Multi-source commercial non-hazardous waste disposal well
- ☐ Multi-source commercial hazardous waste disposal well
- ☐ Storage well

4. ☐ Yes ☒ No Is this well a replacement for an existing well?
If Yes, list
Existing well name and number
Current owner
Existing well type and status
Existing well location
Reason for replacement
Disposition of existing well

5. ☐ Yes ☒ No Is this well a reentry of an existing well?
If Yes, list
Existing well name and number
Current owner
Existing well type and status
Reason for reentry

6. ☐ Yes ☒ No Is the well expected to encounter hydrogen sulfide (H_2S)?
If Yes, list formations expected to contain H_2S and anticipated depths to tops of formations

Well drilled and completed in 2002.

7. ☐ Yes ☒ No Is the well expected to encounter oil or gas?
If Yes, list formations expected to contain oil or gas and anticipated depths to tops of formations

8. ☐ Yes ☒ No **Will the well be drilled from an existing drill pad?**
If Yes, list well name, number, permit number and status of all existing wells on the drill pad (if no wells, write "none")

No well to be drilled. Permit application is to inject Class I fluid in existing Class II well.

Show proposed well and all existing wells on accompanying scale map identified as applying to Part A1 of the EIA.

B. DRILLSITE

1. **Drill site access route dimensions** _____feet x _____feet.
Provide a detailed description of topography, drainage, soil type(s), direction and percentage of slopes, land cover and present land use for the drill site access route. Show route on accompanying scale map labeled **Part B1**.

2. **Drill site dimensions** _____feet x _____feet.
Provide a detailed description of topography, drainage, soil types(s), direction and percentage of slopes, land cover and present land use for the drill site. Show well site on accompanying scale map labeled **Part B2**

NOTE: If any "Yes" box in items B3, B4, B5, B6, B7 or B8 is checked, the corresponding feature(s) must be identified on an accompanying scale map identified as applying to Part B of the EIA.

3. ☐ Yes ☐ No **Are drain tiles present on the drill site?**
If Yes, how they will be handled if they are encountered?

No drill site required. Permit application is to inject Class I fluid in existing Class II well.

4. **Are any of the following located within 600 feet of the proposed wellhead?**
☐ Yes ☒ No Buildings
☐ Yes ☒ No Domestic fresh water wells
☐ Yes ☒ No Public roads
☐ Yes ☒ No Railroads
☐ Yes ☒ No Power lines
☐ Yes ☒ No Pipelines
☒ Yes ☐ No Other man-made features (list individual features)

Only existing Team Completions' roads, electric power and facilities within 600' of well.

5. **Are any of the following located within 800 feet of the proposed wellhead?**
☐ Yes ☒ No Type IIB public water wells Type II is a non-community water supply with ≥ 15 service connections or ≥ 25 individuals for not less than 60 days per year.
☐ Yes ☒ No Type III public water wells Type III is a public water supply which is neither Type I nor type II.

6. **Are any of the following located within 1320 feet of the proposed wellhead?**
☐ Yes ☒ No Surface waters and other environmentally sensitive areas
☐ Yes ☒ No Floodplains associated with surface waters
☐ Yes ☒ No Wetlands, as identified by sections 30301 to 30323 of the Act.
☐ Yes ☒ No Natural rivers, as identified by sections 30501 to 30515 of the Act
☐ Yes ☒ No Threatened or endangered species as identified by sections 36501 to 36507 of the Act

7. Are any of the following located within 2000 feet of the proposed wellhead?

☐ Yes ☒ No Type I public water wells
Type I is a community water supply with year-round service, ≥ 15 living units or ≥ 25 residents.

☐ Yes ☒ No Type IIA public water wells Type II is a non-community water supply with ≥ 15 service connections or ≥ 25 individuals for not less than 60 days per year.

8. ☐ Yes ☒ No Are Great Lakes shorelines located within 1500 feet of the proposed wellhead?

9. ☐ Yes ☐ No Will fresh water be used to drill this well?

If Yes, will the water be supplied from

☐ A "permanent" water well, to be retained after final completion OR used for drinking water (to be drilled and installed pursuant to Part 127 of 1979 PA 368, as amended) **OR**

☐ A "temporary" water well, to be plugged upon final completion and not used for drinking water **OR**

☐ Another source (identify)

If No, identify the drilling fluid to be used.

10. Drilling fluid pit location and handling and disposal of drill cuttings, muds and fluids

Anticipated depth to groundwater _____ Depth determined by _____

Pit type

☐ On site in-ground pit. Anticipated dimensions: L ___ W ___ D ___
Show proposed pit location on accompanying scale map labeled **Part B10**.

☐ Remote in-ground pit. Anticipated dimensions: L ___ W ___ D ___
Attach approval of landowner and show remote pit location on accompanying scale map labeled **Part B10**.

☐ On-site steel tanks with no in-ground pits (complete 10a and 10d below, do not complete 10b and 10c)

a. ☐ Yes ☐ No Will the well be drilled into or through bedded salt deposits?

If Yes,

☐ Yes ☐ No Will the drill cuttings contain solid salt?

If Yes, describe plans for handling and disposing of drill cuttings.

b. ☐ Yes ☐ No Will the drilling fluid pit contents be solidified after drilling?

If Yes, identify the pit solidification contractor and pit solidification method.

c. ☐ Yes ☐ No Will the drilling fluid pit contents be removed after drilling?

If Yes, identify the site for disposal of the removed material.

d. ☐ Yes ☐ No Will any pit fluid be disposed by a licensed liquid waste hauler?

If Yes, identify the waste hauler.

If No, describe disposal plans for pit fluids.

Well drilled in 2002

C. SURFACE FACILITY

1. ☒ **Yes** ☐ **No** **Will the well have associated surface facilities?**
If No, Do not complete the remainder of Part C.
If Yes,
☒ **Yes** ☐ **No** **Does a surface facility currently exist?**
If Yes, show facility location relative to the wellhead on a scale map labeled Part C1. Do not complete the remainder of Part C.
If No,
☐ **Yes** ☐ **No** **Has a location for the surface facility been chosen?**
If Yes, complete Parts C2 through C10
If No, at least 60 days prior to beginning construction, submit an EIA for the Surface Facility (this form), a facility plan, and a Soil Erosion and Sedimentation Control Plan (EQP 7200-18) to the Office of Geological Survey District Supervisor.

2. ☐ **Yes** ☒ **No** **Is the proposed surface facility site more than 300 feet from the wellhead?**
If Yes, complete Parts C3 through c10 and submit a map showing the location of the surface facility site relative to the wellhead.
If No, do not complete the remainder of Part C.

3. **Dimensions of surface facility access road:** ___feet x ___feet.
Describe the topography, drainage, soil type(s), direction and percentage of slopes, land cover and present land use:

4. **Dimensions of surface facility site:** ___feet x ___feet.
Describe the topography, drainage, soil type(s), direction and percentage of slopes, land cover and present land use:

NOTE: If any "Yes" box in items C5, C6, C7, C8, C9, or C10 is checked, the corresponding feature(s) must be identified on an accompanying scale map identified as applying to the appropriate section of Part C of the EIA.

. ☐ **Yes** ☐ **No** **Are drain tiles present on the proposed surface facility site?**
If Yes, discuss how they will be handled if they are encountered?

6. **Are any of the following located within 600 feet of the proposed surface facility site?**
☐ Yes ☐ No Buildings
☐ Yes ☐ No Domestic fresh water wells
☐ Yes ☐ No Public roads
☐ Yes ☐ No Railroads
☐ Yes ☐ No Power lines
☐ Yes ☐ No Pipelines
☐ Yes ☐ No Other man-made features (list individual features)

7. **Are any of the following located within 800 feet of the proposed surface facility site?**
☐ Yes ☐ No Type IIB public water wells. Type II is a non-community water supply with ≥ 15 service connections or ≥ 25 individuals for not less than 60 days per year.
☐ Yes ☐ No Type III public water wells. Type III is a public water supply which is neither Type I nor type II.

8. Are any of the following located within 1320 feet of the proposed surface facility site?

☐ Yes ☐ No Surface waters and other environmentally sensitive areas
☐ Yes ☐ No Floodplains associated with surface waters
☐ Yes ☐ No Wetlands, as identified by sections 30301 to 30323 of the Act.
☐ Yes ☐ No Natural rivers, as identified by sections 30501 to 30515 of the Act
☐ Yes ☐ No Threatened or endangered species as identified by sections 36501 to 36507 of the Act

9. Are any of the following located within 2000 feet of the proposed surface facility site?

☐ **Yes** ☐ **No** Type I public water wells. Type I is a community water supply with year-round service, ≥ 15 living units or ≥ 25 residents.

☐ **Yes** ☐ **No** Type IIA public water wells Type II is a non-community water supply with ≥ 15 service connections or ≥ 25 individuals for not less than 60 days per year.

10. ☐ **Yes** ☐ **No** **Are Great Lakes shorelines located within 1500 feet of the proposed surface facility site?**

D. FLOWLINE

☐ **Yes** ☒ **No** **Will the well have an associated flow line?**

If Yes,

Flow line rout dimensions _____ feet x _____

Show flow line route from well to the surface facility, junction with an existing flowline or gathering system, on a scale map labeled **Part C2.**

Anticipated maximum operating pressure (psig): _____

Describe leak detection program, including schedules of periodic pressure testing and periodic flowline patrols.

Flow line material: _____

Describe the topography, drainage, soil type(s), direction and percentage of slopes, land cover and present land use along the flow line route.

☐ **Yes** ☐ **No** **Will the flowline be buried?**

If Yes

Burial depth: _____ feet

Describe flowline route marking scheme.

If No, describe measures to protect flowline from vehicular damage.

E. MITIGATION OF IMPACTS FROM DRILLING AND/OR OPERATION

Describe measures to be taken to protect environmental and/or land use values at the well/surface facility sites(s)

No drilling required

F. CERTIFICATION

"I state that I am authorized by said applicant to prepare this document. It was prepared under my supervision and direction. The facts stated herein are true, accurate and complete to the best of my knowledge."

Name and title (printed or typed)	Authorized Signature	Date

Enclose with *Application For Permit To Drill*

DEQ MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY - OFFICE OF GEOLOGICAL SURVEY

INJECTION WELL DATA

Supplemental information for drilling or converting to an injection well

By authority of Part 615 or Part 625 of Act 451 PA 1994, as amended. Non-submission and/or falsification of this information may result in fines and/or imprisonment.

Applicant
Team Completions L.L.C
P.O. Box 1088
Kalkaska, MI 49646

Well name and number
Weber 4-8

INSTRUCTIONS: Complete all portions of form which apply to this well. **Attach supplemental documents as needed.**

1. File a separate plat which identifies the depth and location of this proposed well and all producing, abandoned, or drilling wells within 1320 feet of it. Also identify the permittee of each producing well within 1320 feet of this proposed well.
2. Enclose a copy of the completion reports for all wells and the plugging records for all plugged wells shown on the plat. Identify what steps will be necessary to prevent injected fluids from migrating up or into inadequately plugged or completed wells.
3. If this is an existing well to be converted to an injection well, enclose this form with an Application To Change Well Status (form EQP 7200-6). Also enclose a copy of the completion report and geologic description and electric logs for this well.
4. Injection wells (except for gas storage) must receive a mechanical integrity test every 5 years pursuant to Rule 324.805.

5. Type of fluids to be injected
☒ Brine ☐ Natural Gas (omit #7 & #12)
☐ Fresh Water (omit #12) ☒ Other Landfill Leachate

6. Maximum expected injection rate 5000 BPD

7. Specific gravity of injected fluid 1.00 to 1.07

8. Maximum expected injection pressure 0

9. Maximum bottom hole injection pressure 1019 PSI
Show calculations 2200' x .433 x 1.07 + 0 (surface press) = 1019 PSI (gradient = 0.463 PSI/FT

10. Fracture pressure of confining formation 1343 PSI
Show calculations Est. at 0.75 PSI/FT
791 x 0.75 = 1343 PSI

11. Fracture pressure of injection formation 1650 @ TD
Show calculations Est. at 0.75 PSI/FT
2200' x 0.75 = 1650 PSI

12. Chemical analysis of representative samples of injected fluid
Specific conductance 7470 - 9970

Cation (mg/l)		**Anions** (mg/l)	
Calcium	47 - 78200	Chloride	1110 - 225000
Sodium	939 - 47000	Sulfate	< 10 - 83
Magnesium	52 - 8300	Bicarbonate	62 - 3540
Potassium	300 - 16800		

What was the source of this representative sample? Glen's Sanitary Landfill and Townsite 1-17 HD

13. Is this well to be completed in a potential or previous oil or gas producing formation? ☐ Yes ☒ No
If yes, provide a list of all offset permittees and proof of service of notification of this application to all permittees by certified mail.

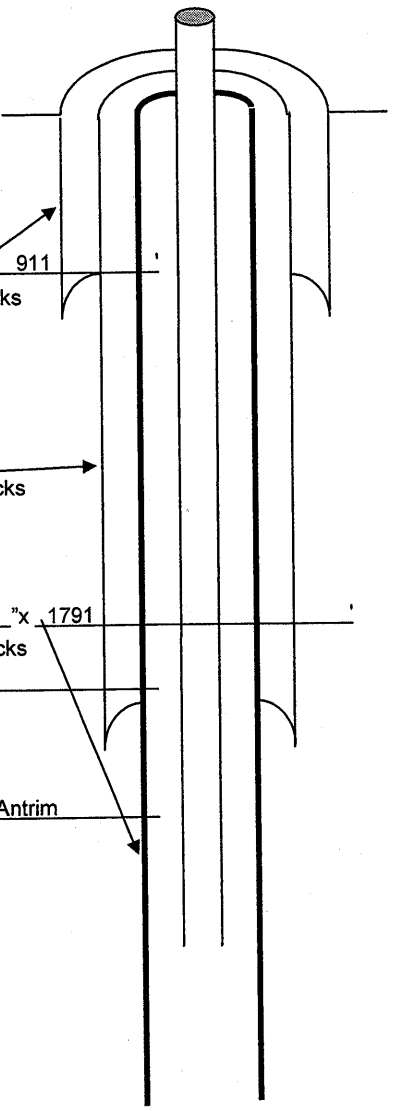
14. Attach proposed plugging and abandonment plan. OR
Briefly list depths, volumes and types of cement and mechanical plugs and depths where casing will be recovered.
Plugging and abandonment plan attached Section Q of report

Schematic of wellbore construction

Complete bottom of diagram as needed to conform with proposed construction (e.g. show rat hole below casing, open hole completion, packer loc. etc.)

Fresh water fms., name & depth
Glacial Drift 781'

Base of freshwater, name & depth
Glacial Drift 781'



Surface casing 8 5/8" "x 911 '
Amount of cement 450 sacks
T.O.C. 40 bbls. circ. to surface

Intermediate casing (if applicable)
"x '
Amount of cement sacks
T.O.C.

Long string casing 5 1/2" "x 1791 '
Amount of cement 305 sacks
T.O.C. 2 bbls. circ. to surface

Confining formation(s) Coldwater Shale & Antrim
Depth to top 781'
Depth to base 1816

Injection formation(s) Traverse
Depth to top 1816'
Depth to base +/- 2344'

Tubing 2 7/8", 6.5# " x 1750 '
Packer Depth 1750'

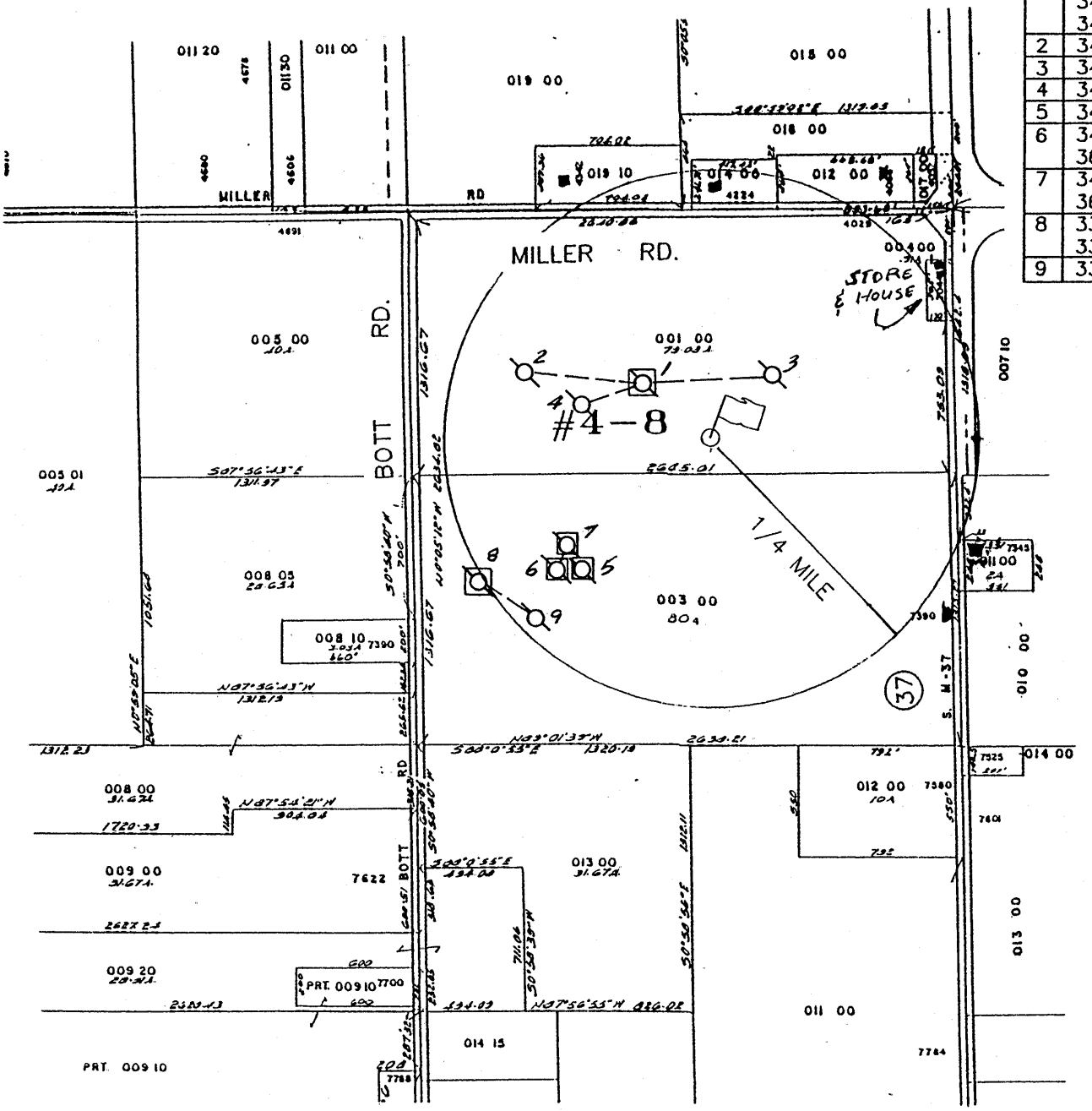
Bottom TD or PBTD 2200 ft.

15. Application prepared by (print or type): Date

1/4 MILE AREA OF REVIEW
WEBBER #4-8

WELLS WITHIN 1/4 MILE OF A.O.R. (ALL P AND A)

NO.	P/N	WELL NO.
1	34968	3-8C
	34506	3-8B
	34469	3-8A
	34419	3-8
2	34469	3-8A
3	34506	3-8B
4	34968	3-8C
5	34594	2-8
6	34147	1-8
	36359	2-8A
7	34594	2-8A
	36359	2-8A
8	33644	1-8A
	33597	1-8
9	33644	1-8A



0' 400' 800'
SCALE: 1" = 800'

□ = SURFACE HOLE LOCATION

⌀ = BOTTOM HOLE LOCATION

■ = RESIDENCE

G:\PROJECT\CAP\30402

FARRIER SURVEYING

P.O. BOX 998
244 S.CEDAR STREET
KALKASKA, MI 49646
TEL (231) 258-8162
FAX (231) 258-3249

P.O. BOX 1105
502 CAYUGA STREET
BELLAIRE, MI 49615
TEL (231) 533-8161
FAX (231) 533-5206

CLIENT TEAM COMPLETIONS

DESCRIPTION WEBBER #4-8
SW/4-NE/4-NE/4 OF SEC. 8
T25N-R11W, MAYFIELD TOWNSHIP,
GRAND TRAVERSE COUNTY, MICHIGAN

DRAWN: JM	FILE No. 30402
CHECK: DF	Fd. Bk. Pg.
REVISED: 11-26-02	DATE: 11-8-02
	SHEET: 1 of 1

TEAM
Services, LLC

DISPOSAL MONITORING AND OPERATING PROCEDURES
MI-055-2D-C013, State Blair Ryder #2-15
MI-055-2D-C034, Weber #4-8
MI-101-2D-C013, Fauble-Meyers #1-3

DISPATCH

1. Receives request to dispose of fluids related to the production of oil and gas from:

    a. Oilfield Lease Operators
    b. Team Supervisors
    c. Drivers
    d. Others

2. Determines the source and type of fluid from the requesting person(s) (brine, dike water, pit water, fresh water, etc.)

3. If fluid is brine, determine if the brine is from an authorized source.

4. If source is authorized, dispatch driver/operator to transport fluid to the proper injection well.

5. If source is not an authorized source of brine, Notify Disposal Coordinator of the new source so that the proper source information and fluid sample may be obtained.

6. If a state-mandated clean up or other urgent need for accepting a new source of oil field brine arises; the fluid may be injected providing notification is given to the USEPA by telephone within twenty-four (24) hours of the time injection commences; and, chemical analysis of the new source is submitted to the USEPA within thirty (30) days from the day injection commences. This temporary permission to inject terminates thirty (30) days after injection commences unless the permit is modified to add the new source to Part III (D).

P.O. Box 1104
Kalkaska, MI. 49646
231-258-9130 Fax 231-258-8760

DRIVER OPERATOR

1. Receives request to transport fluids related to the production of oil and gas from:

    a. Dispatch
    b. Team Supervisors
    c. Oilfield Lease Operator

2. Fill out work/drop ticket to include:

    a. Lease Name (source)
    b. Date
    c. Type of fluid
    d. Amount of fluid
    e. Injection well fluid is to be transported to
    f. Manifest number
    g. Give work/delivery ticket to dispatch daily at the end of the day's work.

DISPOSAL COORDINATOR

1. Checks the driver work/drop ticket(s) daily for correct:

    a. Source names and codes
    b. Type of fluid
    c. Amount of fluid
    d. Name of injection well
    e. Other information needed to maintain monitoring reports as required by the permit issued for each of the injection wells.
    f. Forward a copy of the driver work/drop ticket to the Disposal Monitoring Report Coordinator.

2. Insure all brine sources are authorized by the USEPA prior to being injected into the well. This is to include obtaining information and samples as necessary and insuring the samples are analyzed with applicable analytical methods cited and described in Table 1 of 40. Compile information from work/drop ticket(s) on to spread sheet(s) to be used in completing USEPA Disposal Monitoring Reports.

3. Print out USEPA Disposal Monitoring Reports as necessary and forward for approval to:

    a. Disposal Coordinator
    b. Disposal Management

4. After USEPA Disposal Monitoring Reports are approved and signed:

    a. Copy all reports
    b. Forward reports to the USEPA
    c. File copies of all reports
    d. CFR 136.3 or in Appendix III of 40 CFR Part 261 or by other methods that have been approved by the Director.
    e. Submit a request for a minor permit modification of the permit(s) with the complete chemical analysis for each for the parameters listed in Part III (A) with the appropriate source information to the USEPA for approval.
    f. Check all monitoring reports prior to being signed and forward to the USEPA.

DISPOSAL MONITORING REPORT COORDINATOR

1. Receives work/drop tickets and other information from:

    a. Disposal Coordinator
    b. Disposal Management
    c. Others that have information necessary to complete Monitoring reports.

2. Compile information from work/drop tickets on spread sheet(s) to be used in completing USEPA Disposal Monitoring Reports.

3. Compile print-out of USEPA Disposal Monitoring Reports as necessary and forward for approval to:

    a. Disposal Coordinator; or,
    b. Disposal Management

4. After USEPA Disposal Monitoring Reports are approved and signed:

    a. Copy all reports
    b. Forward reports to USEPA
    c. File copies of all reports