O.I.L. ENERGY CORP.

Harvesting Michigan's Natural Resources

954 BUSINESS PARK DR., STE. #5 TRAVERSE CITY, MI 49686
(231) 933-3600

March 20, 2009

Mr. Rex Tefertiller
M.D.E.Q.
Geological Survey Division
Permits and Bonding Unit
525 W. Allegan Street
South Tower, 1st Floor
Lansing, MI. 48933

RE: O.I.L. Energy Corp.; Hubbell B1-9 SWD Mineral Well Application, Located in T28N-9W, Whitewater Township, Grand Traverse County, Michigan

Dear Mr. Tefertiller:

Enclosed for your review is an updated:

- Bell Shale structure map (additional data reviewed to assist with map)
- Dundee structure map (additional data reviewed to assist with map)
- Form 7200-14 Injection Well Data (# 6 revised)
- ½ mile AOR map with water wells of record (Please note that this map is renamed ½ mile AOR as it is a ½ mile radius or 1 mile diameter.)

For clarification the 2 mile AOR included in the original application is a general overview of the area that was required for the USEPA application.

If you have any questions please call me at 231-933-3931.

Sincerely,

Ben Croftchik
O.I.L. Energy Corp.

Enclosures

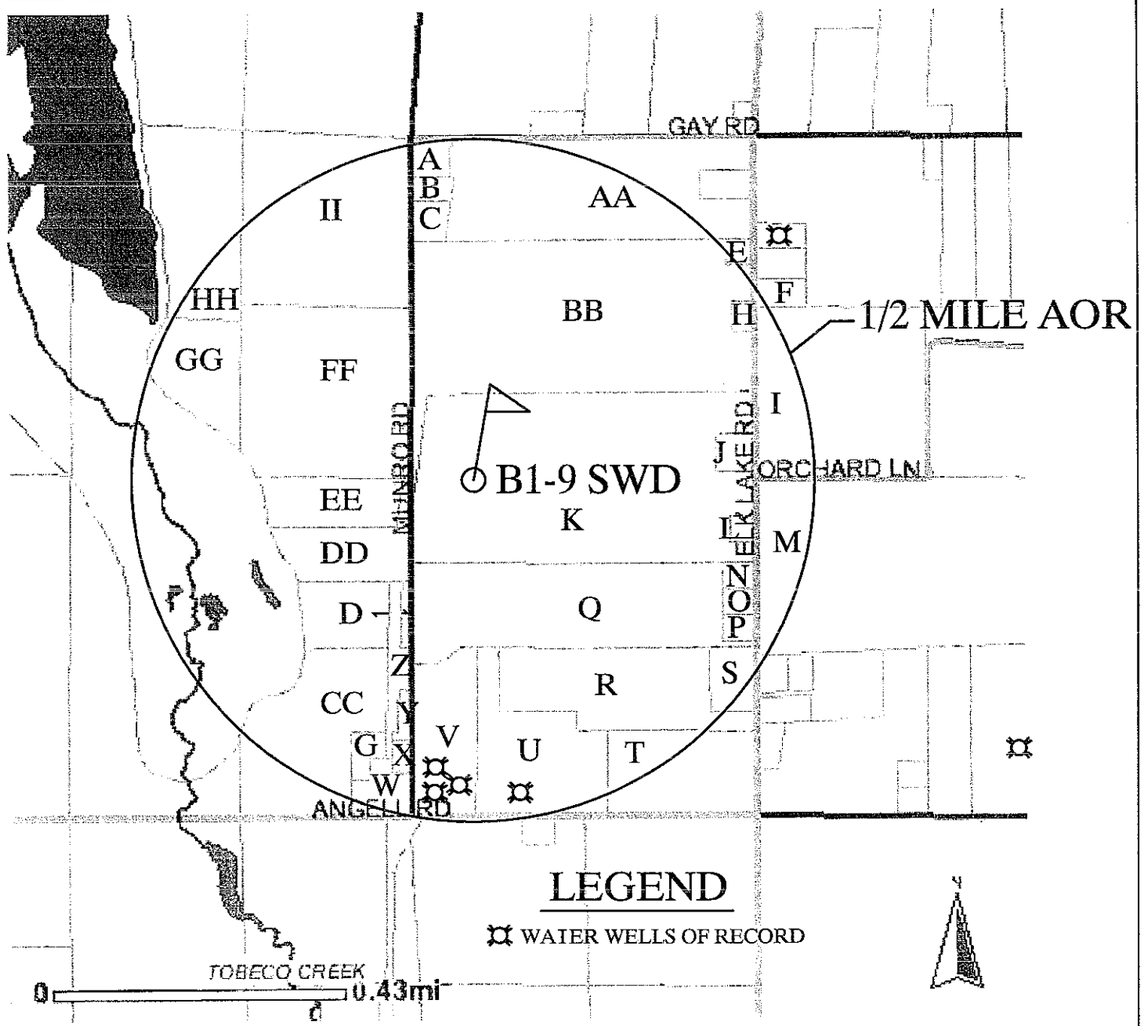
HUBBELL B1-9 SWD

Grand Traverse County

Location Map

T28N-R9W, SECTION 9, WHITEWATER TOWNSHIP

This map is based on digital databases prepared by Grand Traverse County. Grand Traverse County does not warrant, express or impliedly, or accept any responsibility for any errors, omissions, or that the information contained in the map or the digital databases is currently or positionally accurate



OIL ENERGY CORP. 1/2 MILE A.O.R.

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
O.I.L. Energy Corp.
954 Business Park Dr , Suite 5
Traverse City, MI. 49686

Well name and number
Hubbell B1-9 SWD

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 Fruit Wash Water/Brine

Potential Intermittent peak injection rate 6000 bbld
6. Maximum Expected Avg. injection rate (based on 25 years) 2000 bbld

7. Specific gravity of injected fluid 1.023 and 1.113 as tested

8. Maximum expected injection pressure 552 psi

9. Maximum bottom hole injection pressure 828 psi
Show calculations .433 psi/ft x 1913' = 828 psi

10. Fracture pressure of confining formation 1446 psi
Show calculations 0.8 x 1808 ft. = 1446 psi

11. Fracture pressure of injection formation 1530 psi
Show calculations 0.8 x 1913 ft. = 1530 psi

12. Chemical analysis of representative samples of injected fluid
Specific conductance SEE ATTACHMENTS

Cation (mg/l)		**Anions** (mg/l)	
Calcium		Chloride	
Sodium		Sulfate	
Magnesium		Bicarbonate	
Potassium			

What was the source of this representative sample? Hubbell C1-9 and from a tank at Cherry Blossom LLC

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.
SEE ATTACHMENT

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
DRIFT
385 FEET

Base of freshwater, name & depth
DRIFT 385 FEET

Surface casing 8 5/8 "x 494 '
Amount of cement 275 sacks
T.O.C. 0 feet

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

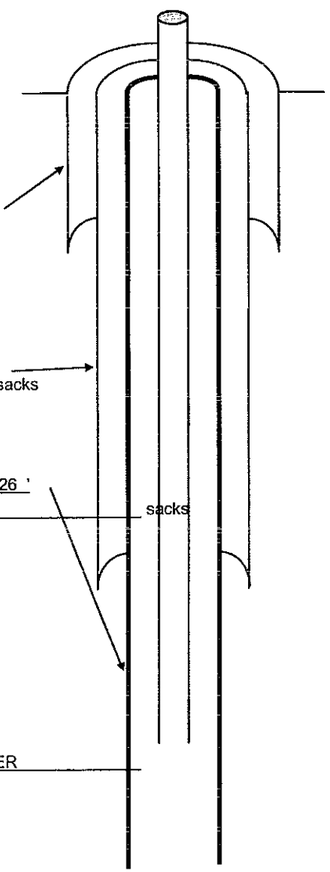
Long string casing 5 1/2 "x 1926 '
Amount of cement 390 sacks
T.O.C. 0 feet

Confining formation(s) BELL SHALE
Depth to top 1808 FEET
Depth to base 1913 FEET

Injection formation(s) DUNDEE/DET. RIVER
Depth to top 1913 FEET
Depth to base 2118 FEET

Tubing 2 7/8 " x 1908 '
Packer Depth 1900'

Bottom TD or PBTD 2118 ft



15. Application prepared by (print or type): Ben Croftchik

Date 3/2/09

BELL SHALE STRUCTURE MAP

O.I.L. ENERGY CORP.

HUBBELL B1-9 SWD

ANTRIM, GRAND TRAVERSE AND KALKASKA COUNTIES

LEGEND

BELL SHALE STRUCTURE

CONTOUR INTERVAL = 50 FEET

0' 2640' 5280'

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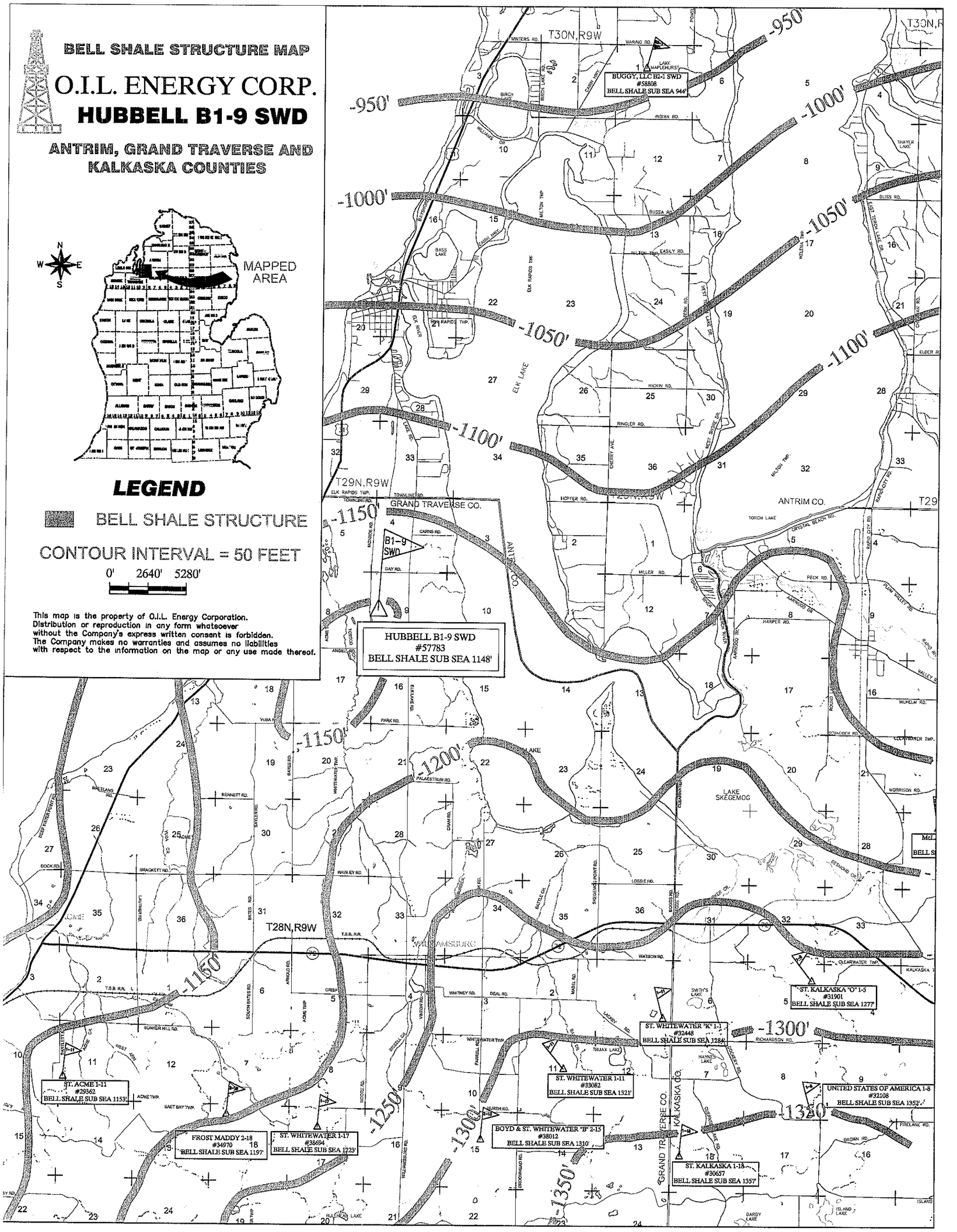


DUNDEE STRUCTURE MAP

O.I.L. ENERGY CORP.

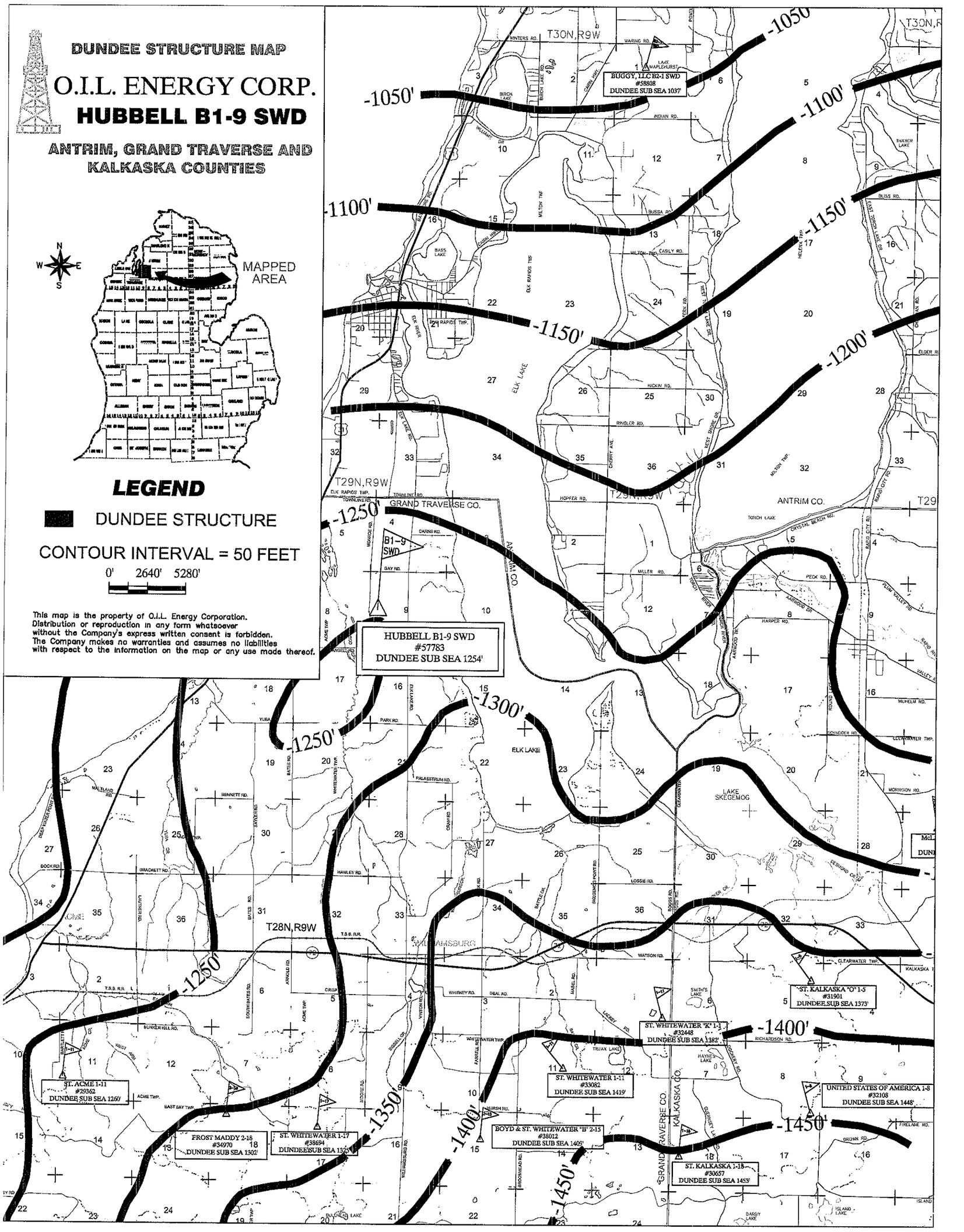
HUBBELL B1-9 SWD

ANTRIM, GRAND TRAVERSE AND KALKASKA COUNTIES

LEGEND

DUNDEE STRUCTURE

CONTOUR INTERVAL = 50 FEET

0' 2640' 5280'

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