



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		3. Fed. Employer ID. No. or Soc. Security No. 38-3251129		Locate well and outline drilling unit on section plat N W E S							
4. Conformance bond <input checked="" type="checkbox"/> Blanket <input type="checkbox"/> Single well	5. <input type="checkbox"/> Attached <input checked="" type="checkbox"/> On file	6. Bond number LOC #147	7. Bond amount \$250,000								
8. Applicant (name of permittee as bonded) Jordan Development Company											
9. Address 1503 Garfield Road North Traverse City, MI 49696											
		Phone 231-935-4220									
		I authorize DEQ 4 additional days to process this application. <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No									
10. Lease or well name (be as brief as possible) Word of Faith		Well number #16-27									
11. Surface owner Word of Faith International Christian Center, Inc.											
12. Surface location SE 1/4 of SE 1/4 of SE 1/4 of Sec 27 T 01N R 10E				Township Southfield							
				County Oakland							
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 330 feet from nearest (N/S) South section line AND 670 feet from nearest (E/W) East section line											
15. Is this a directional well? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes If yes, complete line 15. 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 330 feet from nearest (N/S) South drilling unit line AND 670 feet from nearest (E/W) East drilling unit line											
17. Kind of tools <input checked="" type="checkbox"/> Rotary <input type="checkbox"/> Cable <input type="checkbox"/> Combination		18. Is sour oil or gas expected? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> H ₂ S Cont. plan enclosed		19. Base of lowest known fresh water aquifer Formation Drift Depth 130'							
20. Intended total depth MD 2900' TVD 2900'		21. Formation at total depth Gray Niagaran		22. Producing/injection formation(s) Niagaran							
				23. Objective pool, field, or project Exploratory							
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.
50'	Drift	Driven	16"	65#	H-40 New	50'					
300'	Antrim	14-3/4"	11-3/4"	42#	H-40 New	300'	199	Surf	12 hr	8.4	60
1200'	Bass Island	10-5/8"	8-5/8"	24#	J-55 New	1200'	269	Surf	12 hr	8.8	var
2900'	Gray Niagaran	7-7/8"	5-1/2"	15.5#	J-55 Used/Tested	2900'	291	1300'	12 hr	9	var
25. DETAIL CEMENTING PROGRAM. IDENTIFY ALL CEMENT CLASSES, ADDITIVES, AND VOLUMES (IN CU. FT.) FOR EACH CASING STRING.											
Surface 49 sx 65/35 Poz/Type I (83 CF) + 150 sx Class A (177 CF)											
Intermediate 119 sx 65/35 Poz/Type I (201 CF) + 150 sx Class A (177 CF)											
Production/Injection 142 sx 65/35 Poz/Type I (239) + 150 sx Class A (177 CF)											
26. Send correspondence and permit to Name Jordan Development Company, L.L.C. E-mail troym@jordanex.com Address 1503 Garfield Road North, Traverse City, MI 49696 Phone 231-935-4220											
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. DEQ Cashier use only.					
27. Application prepared by (print or type) Phone Troy E. Molby, P.E., Authorized Agent 231-935-4220											
28. Signature Date 10/30/15											
Office of Geological Survey Use Only											
Permit number	API number	Date issued	Owner number								



SURVEY RECORD OF WELL LOCATION

This information is required by authority of Part 615
Supervisor of Wells, or Part 625 Mineral Wells, of Act 451
PA 1994, as amended, in order to obtain a drilling permit.

Applicant

Jordan Development

Well name and number

Word of Faith 16-27

1a. Surface location

Township

County

SE 1/4 of SE 1/4 of SE 1/4 of section 27 T 01N R 10E

Southfield

Oakland

1b. If this is a directional well, bottom hole location will be

Township

County

1/4 of 1/4 of 1/4 of section T R

Instructions: Outline drilling unit for oil/gas wells (Part 615) or property boundary for mineral wells (Part 625) and spot well location on plat shown. Locate the well in two directions from the nearest section, quarter section, and unit (or property, Part 625) lines.

2. The surface location is

330 ft. from nearest (N/S) South section line

670 ft. from nearest (E/W) East section line
and

2355 ft. from nearest (N/S) North quarter section line

2158 ft. from nearest (E/W) West quarter section line

3. Bottom hole will be (if directional)

ft. from nearest (N/S) section line

ft. from nearest (E/W) section line
and

ft. from nearest (N/S) quarter section line

ft. from nearest (E/W) quarter section line

4. Bottom hole will be (directional or straight)

330 ft. from nearest (N/S) South drilling unit line

670 ft. from nearest (E/W) East drilling unit line

5. Show access to stake on plat and describe if it is not readily accessible. From the intersection of 9 Mile Rd and Evergreen Rd, go west ± 500 on 9 Mile Rd to drive on the right, then go north on drive ± 300 ft to marker, then go west ± 250 ' through woods to well stake.

6. Zoning

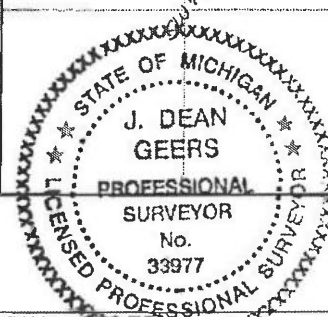
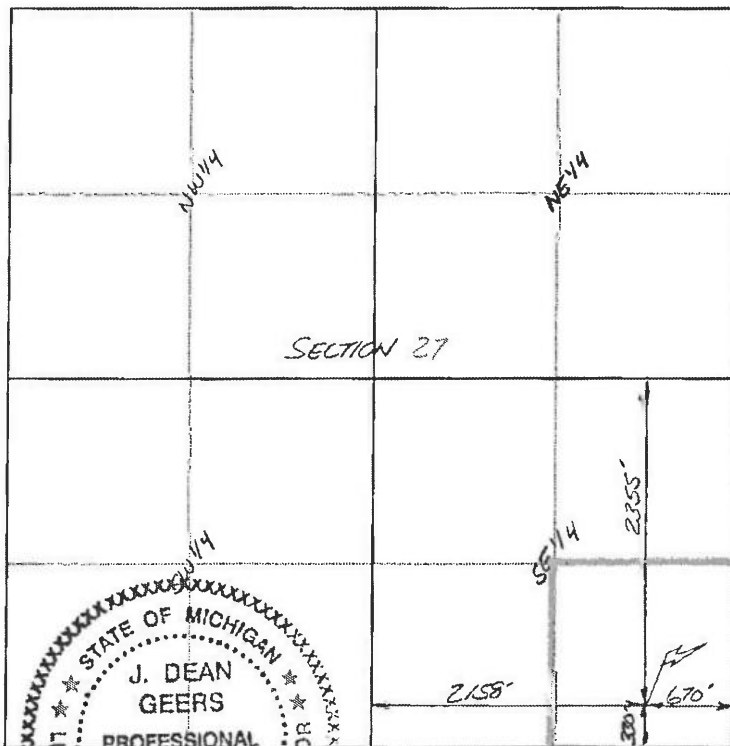
☒ Residential, effective date 12-6-2007

Initial date of residential zoning 9-26-1969

☐ Other

PLAT BELOW REPRESENTS ONE FULL SECTION
(1 MILE SQUARE)

N ↑



ON SEPARATE PLAT OR PLOT PLAN, LOCATE, IDENTIFY AND SHOW DISTANCES TO:

- A. All roads, power lines, buildings, residences, fresh water wells, and other man-made features, within 600 feet of the stake.
- B. All lakes, streams, wetlands, drainage-ways, floodplains, environmentally sensitive areas, natural rivers, critical dune areas, and threatened or endangered species within 1320 feet of the stake.
- C. All type I and IIa public water supply wells within 2000 feet and all type IIb and III public water supply wells within 800 feet of the well stake.

Name of individual who surveyed site

J. Dean Geers, PS

Company

Atwell

Date of survey

10-19-2015

Address

7192 E34 Road, Cadillac, MI 49601

Phone

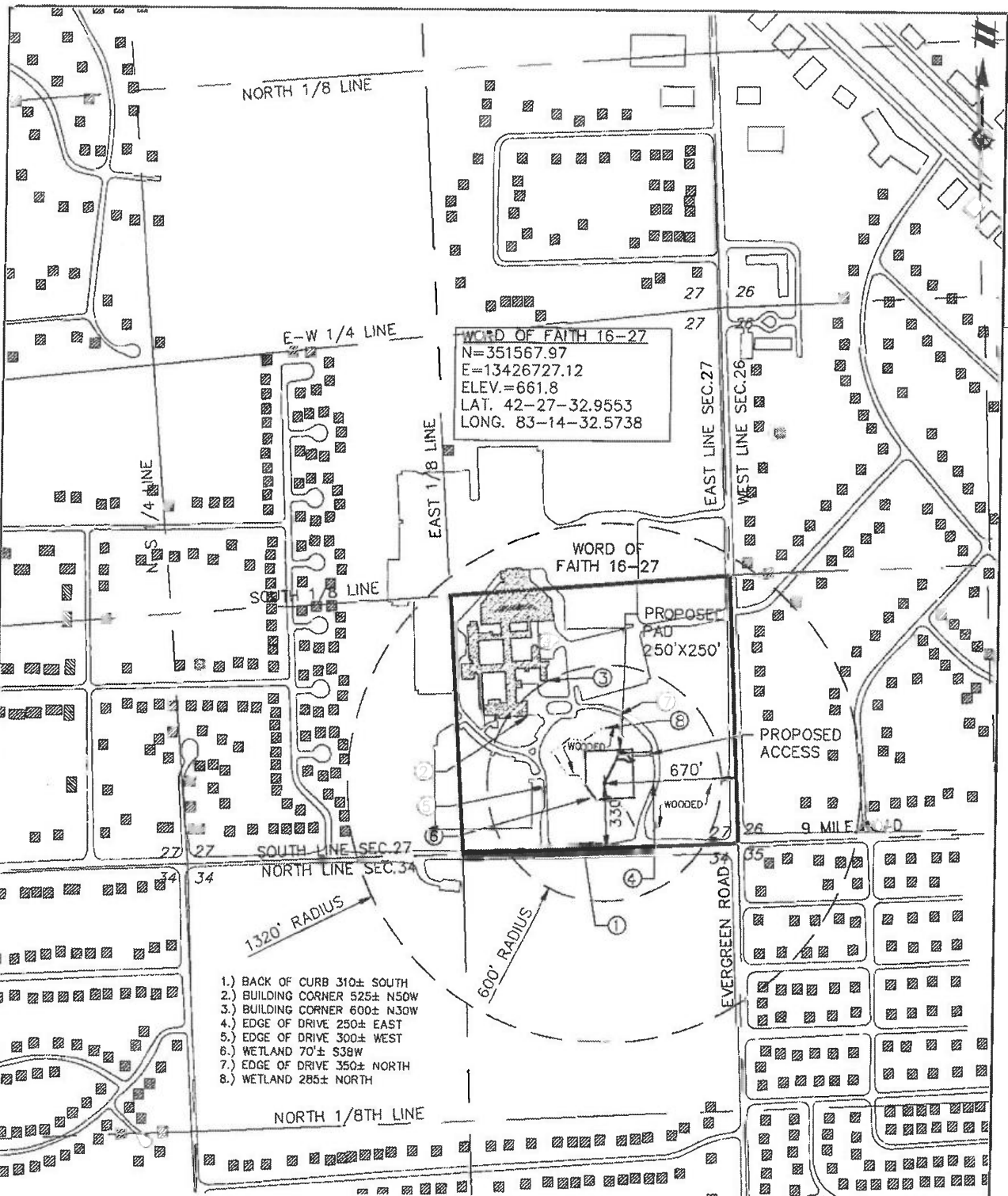
231-775-3000

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

Signature of licensed surveyor (affix seal)

Date

10-30-15



SUPPLEMENTAL PLAT: WORD OF FAITH 16-27
SEC. 27 TIN-RICE
SOUTHFIELD TWP.
OAKLAND COUNTY, MICHIGAN

CLIENT:

JORDAN DEVELOPMENT

DATE:
10/21/2015
DRN:
JER

SCALE:
1"=660'



ATWELL
866.850.4200 www.atwell-group.com
7192 EAST 34 ROAD, SUITE 4
CADILLAC, MI 49601
231.775.3000

F.B. NA
PAGE. NA

SHEET
1 OF 1

JOB NO.:
15000151.08

K:\15000151.08\DWG\SURVEY\15000151.08 JORDAN SUPP PLAT.DWG 10/30/2015 8:46 AM

**ENVIRONMENTAL IMPACT ASSESSMENT**

Required for issuance of well permit pursuant to Part 615, 1994 PA 451, as amended. Falsification of this information may result in fines and/or imprisonment. Check all boxes and fill in all blanks which apply to this drilling application. Attach additional pages as necessary.

A. DESCRIPTION OF PROJECT

1. Applicant's name Jordan Development	Well name and number Word of Faith 16-27	Intended use of well Development of Hydrocarbons																
2. Mineral ownership , check each category of mineral owners in drilling unit or Antrim Uniform Spacing Plan <input checked="" type="checkbox"/> Private <input type="checkbox"/> State <input type="checkbox"/> Federal <input type="checkbox"/> Other, identify _____																		
3. Applicable spacing order and drilling unit size <table style="width: 100%;"><tr><td><input type="checkbox"/> S.O. 14-9-94 N. Mich. Antrim, 80 acres</td><td><input type="checkbox"/> S.O. 3-3-95 S. Mich. Antrim, 40 acres</td></tr><tr><td><input type="checkbox"/> S.O. 1-73 Niagaran, 80 acres</td><td><input checked="" type="checkbox"/> S.O. 2-81 Oakland Co. Niagaran, 40 acres</td></tr><tr><td><input type="checkbox"/> R 324.301 General rule, 40 acres</td><td><input type="checkbox"/> S.O. 1-86 P.D.C., 640 acres</td></tr><tr><td colspan="2"><input type="checkbox"/> Field Spacing or Unitization Order (identify below) _____</td></tr><tr><td colspan="2"><input type="checkbox"/> Antrim USP (identify name, number of acres, and number of drilled and permitted wells) _____</td></tr><tr><td colspan="2"><input type="checkbox"/> Administrative exception requested per R324.303 (2). See instructions for applying for an administrative spacing exception</td></tr><tr><td colspan="2"><input type="checkbox"/> Exception to spacing requested, petition for hearing filed</td></tr><tr><td colspan="2"><input type="checkbox"/> Non-producing well, no drilling unit</td></tr></table>			<input type="checkbox"/> S.O. 14-9-94 N. Mich. Antrim, 80 acres	<input type="checkbox"/> S.O. 3-3-95 S. Mich. Antrim, 40 acres	<input type="checkbox"/> S.O. 1-73 Niagaran, 80 acres	<input checked="" type="checkbox"/> S.O. 2-81 Oakland Co. Niagaran, 40 acres	<input type="checkbox"/> R 324.301 General rule, 40 acres	<input type="checkbox"/> S.O. 1-86 P.D.C., 640 acres	<input type="checkbox"/> Field Spacing or Unitization Order (identify below) _____		<input type="checkbox"/> Antrim USP (identify name, number of acres, and number of drilled and permitted wells) _____		<input type="checkbox"/> Administrative exception requested per R324.303 (2). See instructions for applying for an administrative spacing exception		<input type="checkbox"/> Exception to spacing requested, petition for hearing filed		<input type="checkbox"/> Non-producing well, no drilling unit	
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<input type="checkbox"/> Exception to spacing requested, petition for hearing filed																		
<input type="checkbox"/> Non-producing well, no drilling unit																		
4. Applicant's right to drill and produce <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Are all mineral interests in the drilling unit under lease and controlled by the applicant/permittee? If no, <input type="checkbox"/> petition filed for compulsory pooling OR <input type="checkbox"/> certified efforts to obtain leases are attached (if allowed by spacing order) <input type="checkbox"/> Not applicable, no drilling unit. <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Has applicant obtained all contractual rights needed to locate the well where it is proposed? If no, <input type="checkbox"/> what additional approvals are needed? _____																		
5. Special considerations <input type="checkbox"/> Replacement well for permit no. _____ or <input type="checkbox"/> Existing well pad <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Is well expected to encounter H ₂ S? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Is well located in a city, township, or village with a population greater than 70,000? <input type="checkbox"/> Other (describe) _____																		

B. IMPACTS AS A RESULT OF DRILLING

1. Access route dimensions 100 feet x 20 feet / 43,560 = ±0.1 acres. Provide a detailed description of topography, drainage, soil type(s), direction and percentage of slopes, land cover and present land use for the access route while drilling. Identify route on attached plat. Approximately 100 ft of new access road will need to be constructed for this project. The access road will utilize an driveway running northerly from 9 Mile Rd for ±500', then westerly ±100' through woods to the well pad. The route passes through a wooded area over relatively level terrain. The general drainage is southwesterly. The soils are loamy sand. The land use is residential.
2. Well site dimensions ±250 feet x ±250 feet / 43,560 = ±1.4 acres. Provide a detailed description of topography, drainage, soil type(s), direction and percentage of slopes, land cover and present land use for the well site. Identify well site on attached plat. The well site is located in a wood lot surrounded by residential neighborhoods. The ground to the north rises at 3% for 100', then drops at 1% for 100'. East it rises at 4% for 100', then is flat for 100'. South it drops at 2% for 150', then rises at 2% for 50'. West it drops at 2% for 150', then rises at 1% for 100'. The general drainage is southwesterly. The land use is residential. Soils are loamy sand.
3. Is well site located in residentially zoned area? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If yes, R324.407(3) and R324.505 apply.
4. Are drain tiles present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, identify where they exist on attached plat or project map. How will they be handled if they are encountered? Location of tile is unknown.
5. Identify the distance and direction to all of the following, also identify on attached plat a. All buildings, fresh water wells, public roads, power lines and other man-made features within 600' of the well site. From the well site there is a building corner N50W ±525', building corner N30W ±600', 9 Mile Rd curb is South ±310', edge of drive East ±250', edge of drive west ±300', edge of drive north ±285'. b. All Type I and Type IIa public water supply wells within 2000' of the well site and all Type IIb and Type III public water wells within 800' of the well site. None <small>(Type I is a community water supply with year-round service ≥ 15 living units or ≥ 25 residents. Type II is a non-community water supply with ≥ 15 service connections or ≥ 25 individuals for not less than 60 days per year. Average daily water production: IIA ≥ 20,000 GPD IIB < 20,000 GPD Type III is a public water supply which is neither type I or II.)</small>

(Part B-5 continued)

c. Surface waters, floodplains, wetlands, natural rivers, critical dune areas, threatened or endangered species within 1320' and Great Lake shorelines within 1500' of the well site. From the well stake, there is a pocket of wetlands which runs NW-SE South $\pm 89^\circ$ and West $\pm 105^\circ$ and a wetland area to the North is $\pm 285^\circ$.

d. Describe the actions to be taken to mitigate impacts to any of the items identified in Part B-5 a-c above. The well pad will be situated to accommodate the surroundings and not encroach upon the wetlands. Soil erosion and sedimentation control measures will be utilized to control runoff. A green belt will be left between the pad, surrounding low lands and drive.

6. Identify the source of fresh water used for drilling and completing this well

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

☒ "Temporary" water well, will be plugged upon final completion and not used for drinking water (consult R 324.403 (2) for minimum construction requirements)

☐ Fresh water will be hauled from existing water well or municipal source (identify) _____

☐ No fresh water will be used in drilling this well

7. Method of Well Completion and Well Treatment (check all that may apply)

☒ Conventional perforated casing

☒ Acidizing

☐ Open Hole

☐ Hydraulic Fracturing Estimated Total Water Volume _____

NOTE: Water volumes in excess of 100,000 gallons are subject to SOW Instruction 1-2011

☐ Other (describe) _____

8. Pit location and handling and disposal of drill cuttings, muds and fluids

Anticipated depth to groundwater <5' Method determined by soil boring

☐ On site in-ground pit, anticipated dimensions: L _____ W _____ D _____

☐ Remote in-ground pit, anticipated dimensions: L _____ W _____ D _____

Attach approval of landowner and attach survey of remote pit location

☒ Well drilled below base of Detroit River Anhydrite. Describe how mud and cuttings pursuant to R324.407(7)(iv) will be handled.

Pit fluids below DRA disposed by Beckman Production Services licensed liquid waste hauler OR

Pit fluids below DRA disposed at the _____ disposal well.

If drill cuttings & mud don't pass paint filter test, they will be disposed at _____ landfill.

☐ No salt cuttings OR

☒ Salt cuttings dissolved and disposed by Beckman Production Services licensed liquid waste hauler OR

☐ Salt cuttings hauled to _____ landfill

☐ Temporary pit, cuttings and muds disposed at (identify) _____

☒ No in-ground pit, cuttings and muds disposed at (identify) approved landfill to be determined

☐ Pit will be solidified.

C. IMPACTS AS A RESULT OF PRODUCTION

1. Kind of well ☒ exploratory ☐ development ☐ Other (describe) _____

☐ Antrim project (submit separate project EIA, form EQP 7200-21, for access roads, flow lines, and surface facilities)

Where is project EIA found? _____ and complete C-2, omit C-3 and C-4

2. Location of surface facilities (Prior to construction, the District Geologist, pursuant to R324.1002, must also approve all surface facility secondary containment plans.)

☐ Greater than 300' from wellhead. Identify facility location on attached plat and complete C-3 and C-4.

☐ Less than 300' from wellhead. Identify facility location on attached plat, complete C-3, omit C-4

☐ Surface facility exists or was previously approved for construction and is known as _____

Complete C-3, omit C-4.

☒ Surface facility location was not determined for this **exploratory** well (omit C-3 and C-4). Submit a separate request for **Surface Facility Location Approval (form 7200-22)**, which includes a Facility Plan, Environmental Impact Assessment, and Soil Erosion and Sedimentation Control Plan, to District Geologist prior to construction pursuant to R324.504.

3. Flow Line Environmental Impact Assessment

☐ Identify flow line location and course from well to the surface facility on attached plat.

Flow line route dimensions _____ feet x _____ feet / 43,560 = _____ acres.

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

4. Surface Facility Environmental Impact Assessment

a. Dimensions of surface facility _____ feet x _____ feet / 43,560 = _____ acres.

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

1. Along access route to surface facility

Part C-4, continued

2. At surface facility site

c. Are surface facilities likely to receive oil or gas with H₂S concentration greater than 300 ppm? ☐ Yes ☐ No, if yes, R324.1106(2) applies.

d. Will surface facilities be located in residentially zoned area? ☐ Yes ☐ No, If yes, R324.506 may apply

e. Identify the distance and direction to all of the following, and identify on attached plat

1. Distance and direction to all buildings, fresh water wells, public roads, power lines and other man-made features within 600' of surface facility

2. Distance and direction to any surface waters, floodplains, wetlands, natural rivers, critical dune areas, and threatened or endangered species within 1320' and Great Lakes shorelines within 1500' of the surface facility site

3. Describe the actions to be taken to mitigate impacts to any of the items identified in Part C-4e 1 and 2 above.

4. Distance and direction to all Type I and Type IIa public water supply wells within 2000' of the surface facility site and all Type IIb and Type III wells within 800' of the surface facility

Type I is a community water supply with year-round service ≥ 15 living units or ≥ 25 residents. Type II is a non-community water supply with ≥ 15 service connections or ≥ 25 individuals for not less than 60 days per year. Average daily water production: IIa $\geq 20,000$ GPD IIb $< 20,000$ GPD Type III is a public water supply which is neither type I or II.

5. Method of brine disposal

☐ Dedicated flow line to disposal well _____, permit number _____

☒ Transported by tanker. ☐ Other _____

6. Method of transporting hydrocarbons past the point of sale

☐ Oil sold through transmission line

☐ Gas sold through transmission line

☒ Oil transported by tanker for sale

☒ Gas flared on site (production restrictions may apply)

☐ Other _____

D. MITIGATION OF IMPACTS FROM DRILLING AND/OR PRODUCTION

Describe additional measures to be taken to protect environmental and/or land use values

Drilling of this well will not curtail the use of the surrounding environment. Surface resources will not be irreversibly committed. Soil erosion and sedimentation control measures will be utilized to control runoff. The location was selected in coordination with the land owner to minimize any impacts.

E. ADDITIONAL PERMITS

Identify additional permits to be sought None

F. SOIL EROSION AND SEDIMENTATION PLAN

Submit a soil erosion and sedimentation plan (form 7200-18) which addresses each well site, surface facility, and flow line route identified in this application. (Refer to requirements under Part 91, 1994 PA 451)

G. ALTERNATE WELL AND SURFACE FACILITY LOCATIONS

Were alternate surface locations considered for this well or surface facility?

☒ No, alternate sites did not seem necessary or more desirable

☐ Yes, the following locations were considered

Why were they rejected in favor of the proposed location?

H. 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."

J. Dean Geers, PS Agent, Atwell

Name and title (printed or typed)

Authorized Signature

Date

10-30-15

Enclose with Application for Permit to Drill

**SOIL EROSION & SEDIMENTATION
CONTROL PLAN**

By authority of Part 91, and 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. Applicants for multisource commercial hazardous waste disposal wells under Part 625 are required to obtain a Part 91 permit from a county or local enforcing agency

☒ Part 615 Oil/Gas Well ☐ Part 625 Mineral Well

1. Name and address of applicant

Jordan Development
1503 N. Garfield
Traverse City, MI 49686

Phone: (231) 935-4220 Fax: (231) 935-4450

2. Well or project name:

Word of Faith 16-27

3. Well or project location:

Section(s) 27 T01N R10E

4. Name and address of County or local Enforcement Agent (CEA)

Oakland County Water Resources Commissioner
One Public Works Dr, BLD 95 West
Waterford, MI 48328-1907

5. Township

Southfield

6. County

Oakland

7. Date earth changes expected to start

Within 30 days of permit issuance, weather permitting

8. Date of expected completion

Within 90 days of well completion, weather permitting

9. Name and address of person responsible for earth change:

Not yet selected

10. Name and address of person responsible for maintenance:

Mr. Ben Brower
1503 N. Garfield
Traverse City, MI 49686

Phone: () Fax: ()

Phone: (231) 935-4220 Fax: (231) 935-4450

11. Send copies of supplemental plat required by Part 615, R 324.201(2)(b) or R 324.504(4), and this form and all attachments, to CEA. For Part 625 Mineral Wells, send to CEA only as instructed by OOGM staff.

Date sent to CEA 10-30-15

EARTH CHANGE ACTIVITIES

12. Project description: (Project activities may be permitted sequentially.)

- a. Number of well sites 1, ±1.4 acres d. Flow line(s) trenched in off well site* 0 feet, 0 acres
b. Number of surface facility sites 0, 0 acres e. Flow line(s) plowed in off well site* 0 feet, 0 acres
c. New access roads 100 feet, ±0.1 acres *Contact CEA for fee schedule

13. Describe sites for which permits are being sought under Part 301 (Inland Lakes & Streams) None

Describe sites for which permits are being sought under Part 303 (Wetlands) None

List file numbers if known

14. Attach detail map at scale of 1"=200' or larger, with contour lines at a minimum of 20' intervals OR percent slope descriptions.

15. Areas requiring control structures

Will earth changes occur in areas with slopes of 10% or greater; areas where runoff water is likely, such as runs greater than 500' of moderate slope (5% to 10%), narrow valley bottoms, etc.; areas within 500' of a lake or stream; or other areas where sedimentation to a wetland or drainage way may occur?

☒ Yes ☐ No

Indicate any of the following erosion control structures that will be utilized. Identify location on detail map and attach detail plan.

Indicate on plan whether erosion control structures are temporary or permanent.

☐ Diversions ☐ Culverts ☒ Sediment basins ☒ Silt fences ☐ Rip-rap ☒ Berms ☐ Check dams

☐ Other

16. Site restoration

☒ Topsoil will be segregated from subsoil and stockpiled OR ☐ No topsoil on site

☐ Recontour and revegetate as soon as weather permits. Seed mix per land owners request

☐ Describe other proposed methods of restoration

17. Application prepared by (name)

J. Dean Geers, Agent Atwell

Signature

Date

10-30-15

FOR USE OF COUNTY OR LOCAL ENFORCING AGENT

INSTRUCTIONS TO COUNTY OR LOCAL ENFORCEMENT AGENT: Copies of supplemental plat required by Part 615, R 324.201(2)(b) or R 324.504(4), and this form and all attachments are provided for CEA review and informational purposes only. Submittal to CEA is not a requirement under Part 615 or 625. Part 615 and 625 Permits to Drill and Operate include erosion control plan approval for well sites, access roads, flow lines, and surface facilities. Return this form to the applicable field or district office of the Office of Oil, Gas, and Minerals (OOGM) within 30 days of receipt. OOGM will consider all comments and recommendations in reviewing the application.

17. Comments

☐ Conducted on site inspection

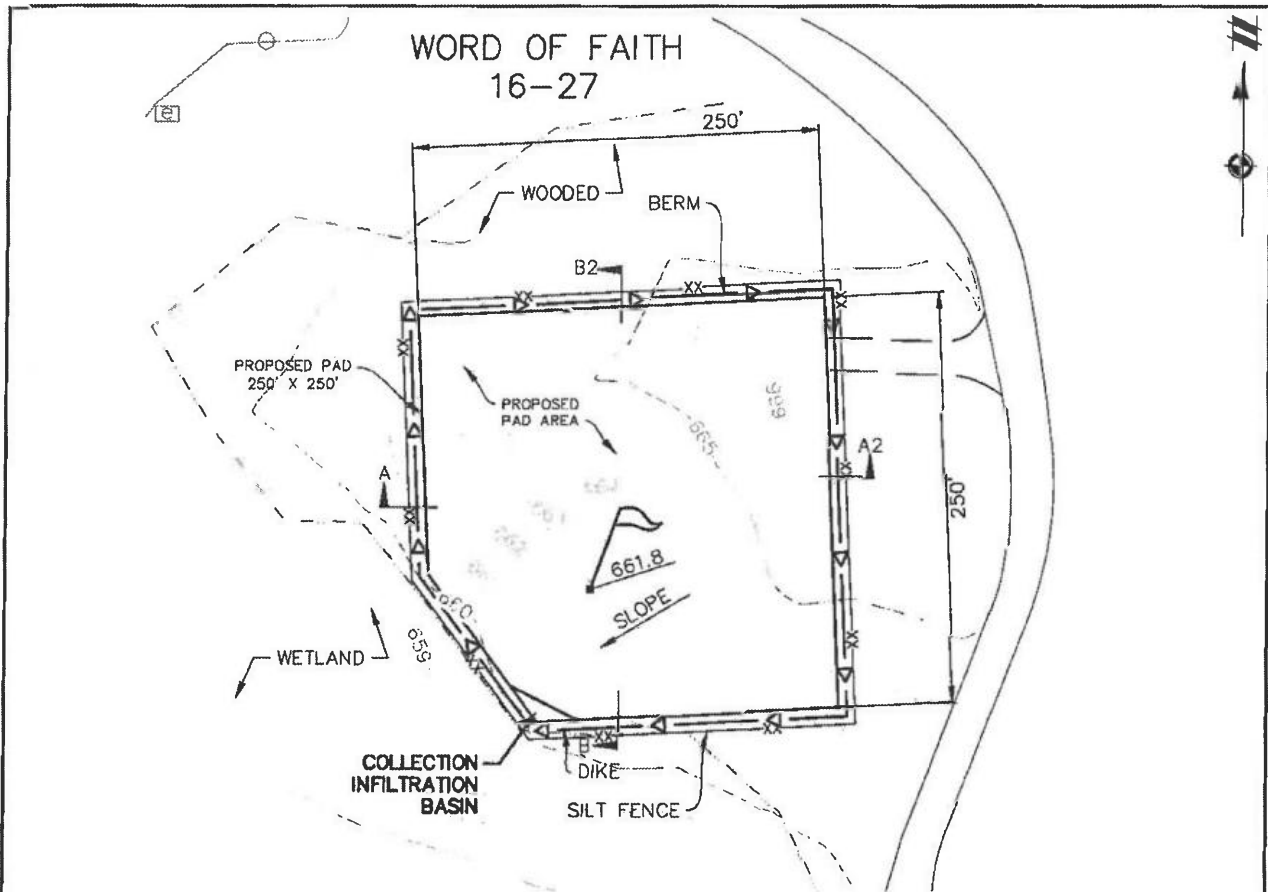
Date

☐ Inspected site with representative of applicant

Date

CEA (name)

Date



NOTES:

- 1.) EROSION AND SEDIMENTATION CONTROL DEVICES SHALL BE IN PLACE PRIOR TO START OF GRADING OPERATIONS.
- 2.) EROSION AND SEDIMENTATION CONTROL DEVICES SHALL BE CLEANED AND/OR REPLACED WHEN THEY REACH 40% CAPACITY (INCLUDING INFILTRATION BASIN).
- 3.) ALL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE INSTALLED PER ACT 347, P.A.1972 AS AMENDED.
- 4.) SET ELEVATIONS FOR WELL PAD TO MINIMIZE MASS GRADING QUANTITY (661.0'±).
- 5.) SLOPE WELL PAD SOUTHWESTERLY AT ±2% TO MAINTAIN A WELL DRAINED WORK AREA DURING DRILLING OPERATIONS.
- 6.) A COLLECTION & INFILTRATION BASIN SHALL BE CONSTRUCTED AT THE SOUTHWEST CORNER OF PAD IF NEEDED.
- 7.) SLOPES SHALL BE FINE GRADED TO MAXIMUM SLOPE TO 2:1 TO MINIMIZE EROSION. IN ALL FILL AREAS, THE EDGES SHALL BE DIKED TO PREVENT EROSION. CUT SLOPES SHALL BE CONTOURED AND COMPACTED.
- 8.) AN UPSLOPE DIVERSION BERM AND DIVERSION CHANNEL SHALL BE CONSTRUCTED ALONG THE SOUTH AND EAST SIDES OF THE LOCATION.
- 9.) ARMOR, SILT FENCING OR OTHER SOIL EROSION CONTROL MEASURES SHALL BE UTILIZED AS NEEDED.
- 10.) ALL DISTURBED AREAS SHALL BE SEEDED AND MULCHED FOLLOWING THE COMPLETION OF GRADING OPERATIONS, WEATHER PERMITTING.

EROSION CONTROL PLAN: WORD OF FAITH 16-27
SEC. 27 TIN-RIOE
SOUTHFIELD TWP.
OAKLAND COUNTY, MICHIGAN

DATE:
10/30/2015
DRN:
JER



ATWELL
866.850.4200 www.atwell-group.com
7192 EAST 34 ROAD, SUITE 4
CADILLAC, MI 49801
231.775.3000

CLIENT: JORDAN DEVELOPMENT

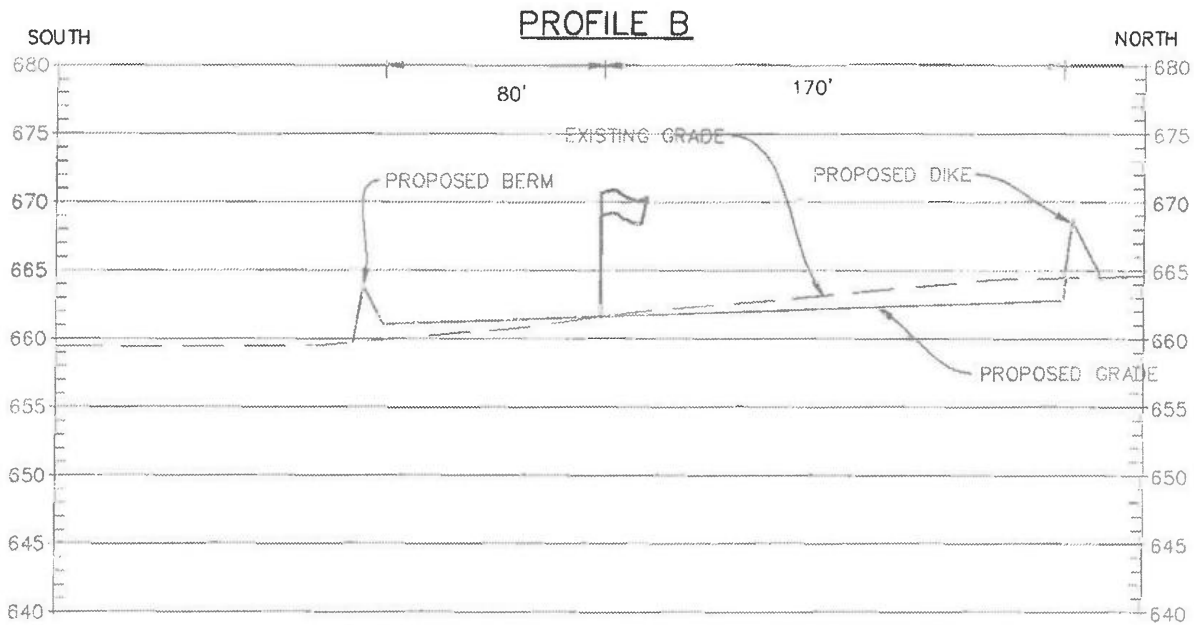
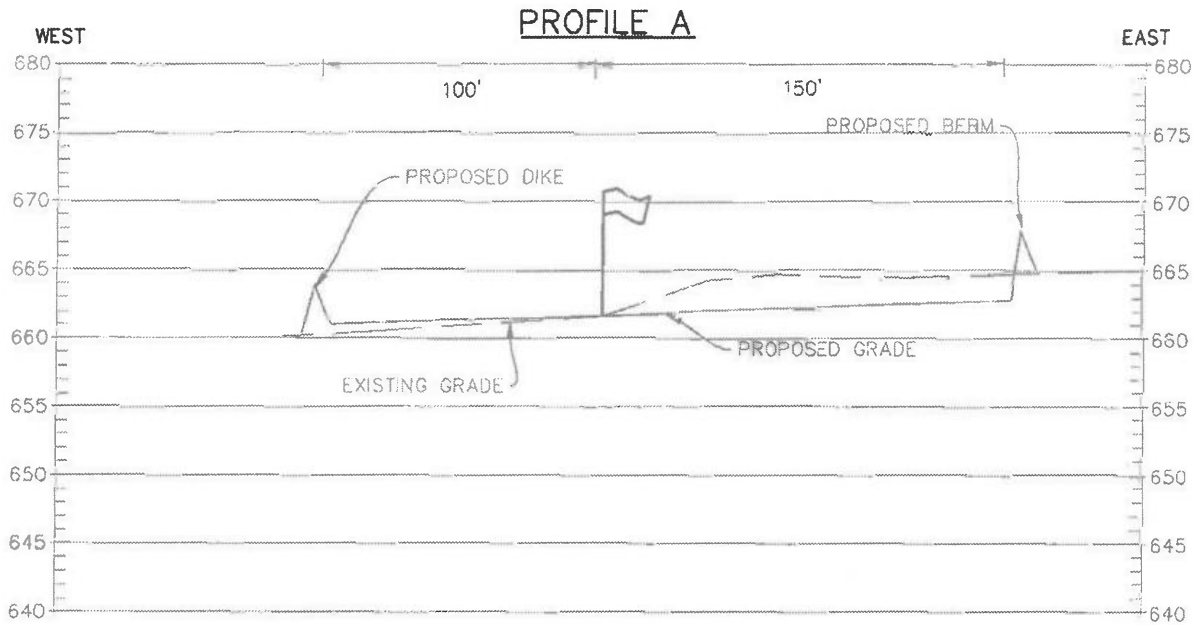
SCALE:
1"=100'

F.B. NA
PAGE. NA

SHEET
1 OF 2

JOB NO.:
15000151.08

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EROSION CONTROL PLAN: WORD OF FAITH 16-27
SEC. 27 TIN-RIOE
SOUTHFIELD TWP.
OAKLAND COUNTY, MICHIGAN

DATE:
10/30/2015
DRN:
JER

SCALE:
1"=60'



ATWELL
866.850.4200 www.atwell-group.com
7192 EAST 34 ROAD, SUITE 4
CADILLAC, MI 49601
231.775.3000

CLIENT: JORDAN DEVELOPMENT

F.B. NA
PAGE. NA

SHEET
2 OF 2

JOB NO.:
15000151.08

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**WELLHEAD BLOWOUT CONTROL SYSTEM**

Worksheet supplement for "Application for Permit to Drill or Deepen a Well"

This information is required by authority of Part 615
Supervisor of Wells or Part 625 Mineral Wells, Act 451
PA 1994, as amended, in order to obtain a permit.

Applicant

Jordan Development Company

Well name and number

Word of Faith #16-27Max. anticipated surface pressure 1800 psigAnnular B.O.P. 10 ", 3000 W.P.B.O.P. Pipe Rams 10 ", 3000 W.P.
(Pipe/Blind)Check Valve 2 ", 3000 W.P.Valve 2 ", 3000 W.P.Valve 2 ", 3000 W.P.Spool 10 ", 3000 W.P.

B.O.P.

☐ Manual☒ Hydraulic☐ Sour TrimB.O.P. Blind Rams 10 ", 3000 W.P.
(Pipe/Blind)Valve 2 ", 3000 W.P.Valve 2 ", 3000 W.P.Manifold Line
Line 2 ", 3000 W.P.Wellhead 3000 W.P.

Fill above blanks with applicable information. If not applicable, enter "N.A." or cross-out item shown.
Describe test pressures and procedure for conducting pressure test. Identify any exceptions to R324.406 being requested.

BOP pressure test will be run in accordance with SO #2-73, amended.

JDC JORDAN DEVELOPMENT COMPANY, L.L.C.
1503 GARFIELD ROAD NORTH • TRAVERSE CITY, MICHIGAN 49686
Telephone: 231.935.4220 • Facsimile: 231.935.4450

October 30, 2015

Oakland County Clerk
Building 12 East
1200 N. Telegraph Rd.
Pontiac, MI 48341

RE: Application for Permit to Drill and Operate a Well
Word of Faith #16-27, Southfield Twp., Oakland Co.

Jordan Development Company, L.L.C. has prepared the enclosed application for a permit to drill an oil well in Oakland County. This letter is to serve as required notification pursuant to Michigan Department of Environmental Quality, Office of Oil, Gas and Minerals rules as part of the drilling permit process.

If you should have any questions, please feel free to call me at the number listed above.

Very truly yours,

Jordan Development Company, L.L.C.



Troy E. Molby, P.E.
Authorized Agent

Enclosure

cc: MDEQ-OOGM

JDC **JORDAN DEVELOPMENT COMPANY, L.L.C.**
1503 GARFIELD ROAD NORTH • TRAVERSE CITY, MICHIGAN 49696
Telephone: 231.935.4220 • Facsimile: 231.935.4450

October 30, 2015

Word of Faith International Christian Center, Inc.
Attn: Tracey Lee, Esq.
20000 W. Nine Mile Road
Southfield, MI 48075

RE: Application for Permit to Drill and Operate a Well
Word of Faith #16-27, Southfield Township, Oakland County

Dear Ms. Lee,

Jordan Development Company, L.L.C. has staked a well on your property located in Southfield Township, Oakland County. Please find enclosed a copy of the application submitted to the Michigan Department of Environmental Quality, Office of Geological Survey Division.

We will contact you prior to moving on the location. Please call me if you have questions.

Sincerely,
Jordan Development Company, L.L.C.



Troy E. Molby, P.E.
Authorized Agent

Enclosures

cc: MDEQ