

APPLICATION CHECKLIST

Trumbull Co. SWW #16 Permit #

Ray Pander Trucking Pander RAP #

Newburg Dolomite

	Date	Initials
Enter on Agenda	7-27-12	AA
Completeness Review	7-27-12	AA
Date - Time Stamp	7-23-12	AA
Area of Review	7-27-12	AA
Site Evaluation		
Permitting Section		
Memo to Inspector	7-27-12	AA
Public Notice	8-3-12	AA
Letter	8-3-12	
Date Run		
15 Days		
Review Public Notice		
Affidavit of Notification		
Objections Received	Yes _____ No _____	
Public Hearing Date		
Chief's Order, if Required		
Schematic	7-27-12	AA
Plot on Map	7-27-12	AA
Review by Geologist		
Permit Conditions (Same date as permit)		
Enter on Computer (Same or later date than Chief's Order)		
Enter on Master List	7-27-12	AA
EPA Form	7-27-12	AA
Mail Permit		
Update Agenda		
File		

RECORD OF CONVERSATION

- Needs surface facility sketch 7-27-12 AA
- Called about surface facility 7-31-12 AA
- Will use existing surface facility # 3795 8-1-12 AA

DAILY ROUTE SLIP

Newton

APPLICATION NO. aAMY0001382 TYPE: Re-issue
~~Convert SWIW~~
APR
WELL NAME PANDER RAY TRUCKING INC API 34155237940000

WELL NAME /NO. PANDER R & P (SWIW #16) 2

COUNTY 155 TRUMBULL INITIALS DATE

DATE APPLICATION REC'D AM 7/25/2012

PERMIT FEE AND CHECK NO. \$1,000.00 25763

RUSH AMOUNT RUSH CHECK NO. \$0.00 0

APPLICATION ENTERED AM 7/25/2012

APPLICATIONS AND PLATS SENT FOR MINE APPROVAL _____

COAL APPROVAL RECEIVED _____

OIL/GAS AFFIDAVIT REC'D _____

URBANIZED AREA NOTIFICATION SENT _____

URBANIZED AREA NOTIFICATION SENT TO INSPECTOR/REC'D BACK _____

URBAN MAP REVIEW _____

SAMPLES: YES ___ /SPECIAL AREAS _____

GEOLOGIST APPROVAL _____

DATA ENTRY /ISSUED _____

PERMIT: TAKEN ___ MAILED _____

FAX TO: _____

FINAL MAP CHECK _____

COMMENTS:

Proof Sheet

APPL NUMBER aAMY0001382
OWNER NUMBER 1258
OWNER NAME PANDER RAY TRUCKING INC
EXISTING WELL -1
API PERMIT NO 34155237940000
APPL TYPE CS
TYPE OF WELL SWD
VARIANCE REQUEST
WELL NAME PANDER R & P (SWIW #1
WELL NUMBER 2
PREV/PROPOSED TD 4300
DRILL UNIT ACRES 7.955
TYPE OF TOOL RTAF
WELL CLASS SWIW
FIRE PHONE (330) 872-5757
MEDICAL PHONE (330) 872-5757
COUNTY CODE 155
COUNTY NAME TRUMBULL
COAL (Y=-1/N=0) -1
CIVIL TOWNSHIP NEWTON
SURF QUAD NEWTON FALLS
Nad 27 SURF ORIG X 2,415,100
Nad 27 SURF ORIG Y 562,300
GROUND ELEVATION 946
SURF SEC 1
SURF LOT
SURF QTR TWP
SURF ALLOT
SURF TRACT
SURF FRACTION

URBANIZED AREA ?
NAME

DISPOSAL PLAN 1 ND
DISPOSAL PLAN 2
DISPOSAL PLAN 3
DISPOSAL PLAN 4
DISPOSAL PLAN 5
MP Check # 0

PROPOSED FORMATIONS

NEWBURG

TARG CIVIL TWP
TARG QUAD
Nad 27 TARG ORIG X
Nad 27 TARG ORIG Y
TARG ELEV 0
TARG SECTION
TARG LOT
TARG QTR TWP
TARG ALLOT
TARG TRACT
TARG FRACTION



Ohio Department of Natural Resources

JOHN R. KASICH, GOVERNOR

JAMES ZEHRINGER, DIRECTOR

Richard J. Simmers, Chief
Division of Oil and Gas Resources Management
2045 Morse Road, Bldg. F-2
Columbus, OH 43229-6693
Phone (614) 265-6922 Fax (614) 265-6910

August 3, 2012

Mr. Raymond C. Pander
Ray Pander Trucking, Inc.
P.O. Box 187
Diamond, Ohio 44412

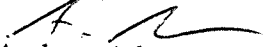
RE: Public Notification for SWIW application for Trumbull County, Newton Twp., new well, Ray Pander Trucking, Inc., Pander R & P SWD #2, injection well

Dear Mr. Pander:

As outlined in Rule 1501: 9-3-06 (H) (1) of the Ohio Administrative Code, please consider this letter as notification from the Division for you to proceed with the public notice. Enclosed, please find a copy of the notice you will need to have run in the newspaper of general circulation in the area of the proposed injection well. **The public notice must be run for no less than five consecutive days. After running this notice in the newspaper, please send me the original proof-of-publication from the newspaper as soon as possible.**

If you have any questions regarding this matter, please feel free to contact me at (614) 265-6673.

Sincerely,


Andrew Adgate, Geologist
UIC Section
Division of Oil and Gas Resources Management
2045 Morse Road, F-2
Columbus, Ohio 43229-6693

Cc: File

PUBLIC NOTICE

Ray Pander Trucking, Inc., P.O. Box 187, Diamond, Ohio 44412, (330) 654-2500 is applying to permit a well for the injection of brine water produced in association with oil and natural gas. The location of the proposed injection well is the Pander R & P SWD #2 well, New well, Sec. 1, Newton Township, Trumbull County, Ohio. The proposed well will inject into the Newburg dolomite at a depth of 4000 to 4200 feet. The average injection is estimated to be 1000 barrels per day. The maximum injection pressure is estimated to be 920 psi. Further information can be obtained by contacting Ray Pander Trucking Inc., or the Division of Oil and Gas Resources Management. The address of the Division is: Ohio Department of Natural Resources, Division of Oil and Gas Resources Management, 2045 Morse Road, Building F-2, Columbus, Ohio 43229-6693, (614) 265-6633. For full consideration, all comments and objections must be received by the Division, in writing, within fifteen calendar days of the last date of this published legal notice.

OPERATOR Kay Vander Larking

COUNTY Trembly

TOWNSHIP Newton

P & A	FM	Permit Number	Casing/Cement Program	Well Log and/or Method of Plug
<input type="checkbox"/>	<u>Nbg</u>	<u>New Well</u>	<u>16" - 75'</u>	<u>Cemented to surface</u>
		<u>SWIW #16</u>	<u>11 3/4" - 375'</u>	<u>Cemented to surface</u>
		<u>Reissue</u>	<u>8 5/8" - 4000'</u>	<u>Cemented to 3000'</u>
<input type="checkbox"/>			<u>5 1/2" - 4000'</u>	<u>set on packer</u>
<input type="checkbox"/>	<u>Nbg</u>	<u>1894</u>	<u>8 5/8" - 356'</u>	<u>Cemented to surface</u>
			<u>4 1/2" - 4501'</u>	<u>Cemented w/ 200 SKS</u>
				<u>Calculated TOC = 3243'</u>
<input type="checkbox"/>	<u>Nbg</u>	<u>1893</u>	<u>8 5/8" - 471'</u>	<u>Cemented to surface</u>
			<u>4 1/2" - 4518'</u>	<u>Cemented w/ 250 SKS</u>
				<u>Calc TOC = 3518'</u>
<input type="checkbox"/>	<u>Nbg</u>	<u>3203</u>	<u>8 5/8" - 32'</u>	<u>cemented to surface</u>
			<u>4 1/2" - 4182'</u>	<u>cemented w/ 180 SKS</u>
				<u>Calc TOC = 3255'</u>
<input type="checkbox"/>	<u>CL</u>	<u>1895</u>		<u>Not drilled</u>
<input type="checkbox"/>	<u>CL</u>	<u>2833</u>	<u>8 5/8" - 332'</u>	<u>Cemented w/ 175 SKS</u>
			<u>4 1/2" - 4665'</u>	<u>Cemented w/ 220 SKS</u>
				<u>Calc TOC = 3524 feet</u>
<input type="checkbox"/>	<u>CL</u>	<u>2951</u>	<u>8 5/8" - 305'</u>	<u>Cemented w/ 100 SKS</u>
			<u>4 1/2" - 4513'</u>	<u>Cemented w/ 125 SKS</u>
				<u>Calc TOC = 3822'</u>
<input type="checkbox"/>				
<input type="checkbox"/>				
<input type="checkbox"/>				

NOTE: Proposed injection well should be circumscribed with appropriate radius and all wells clearly labeled and identified. A legend depicting color code is required.

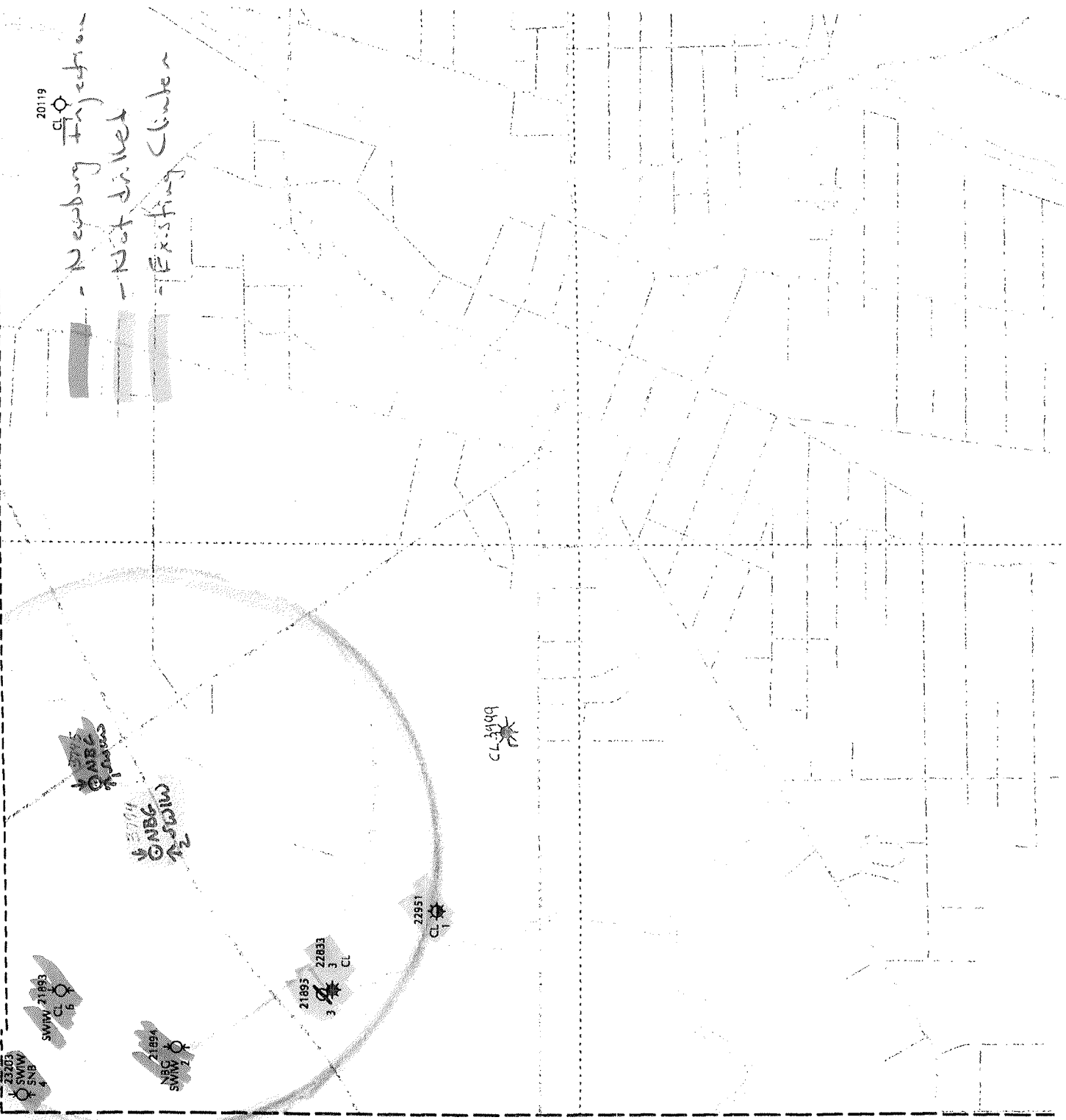
Trumbull County, Newton
Township
SW 1/4 #16

20119

- Newburg Projection

- Not drilled

- Existing Cluster



23203
SW 1/4
SNB
4

SW 1/4 #1893
CL
5

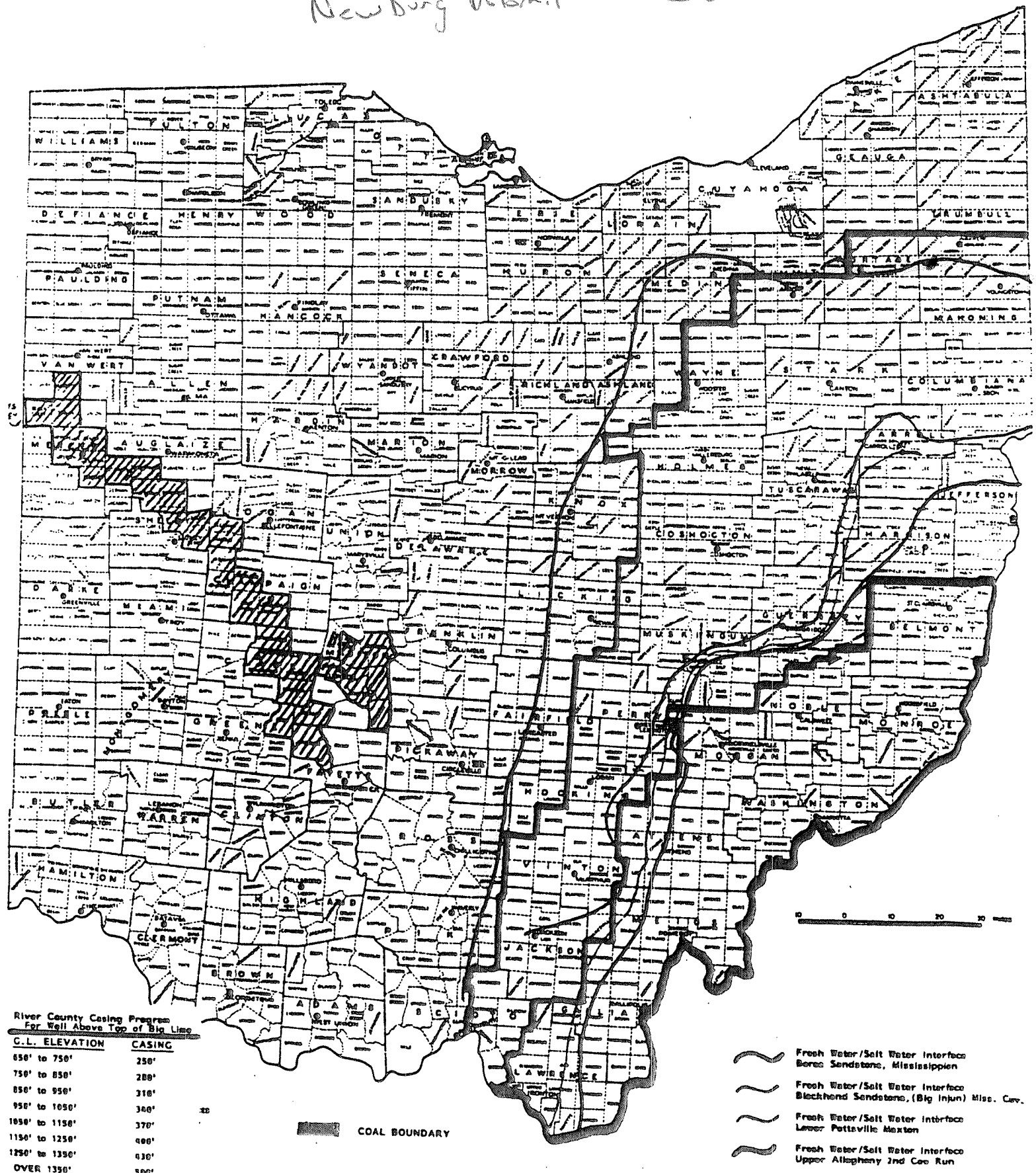
SW 1/4 #1894
SNB
2

21895 22833
3 3
CL

22951
CL

CL
66677

Trumbull County, Newton Twp.
 Rex Porter Trucking Porter R & P #2
 Newburg Submits SW 1/4 #16



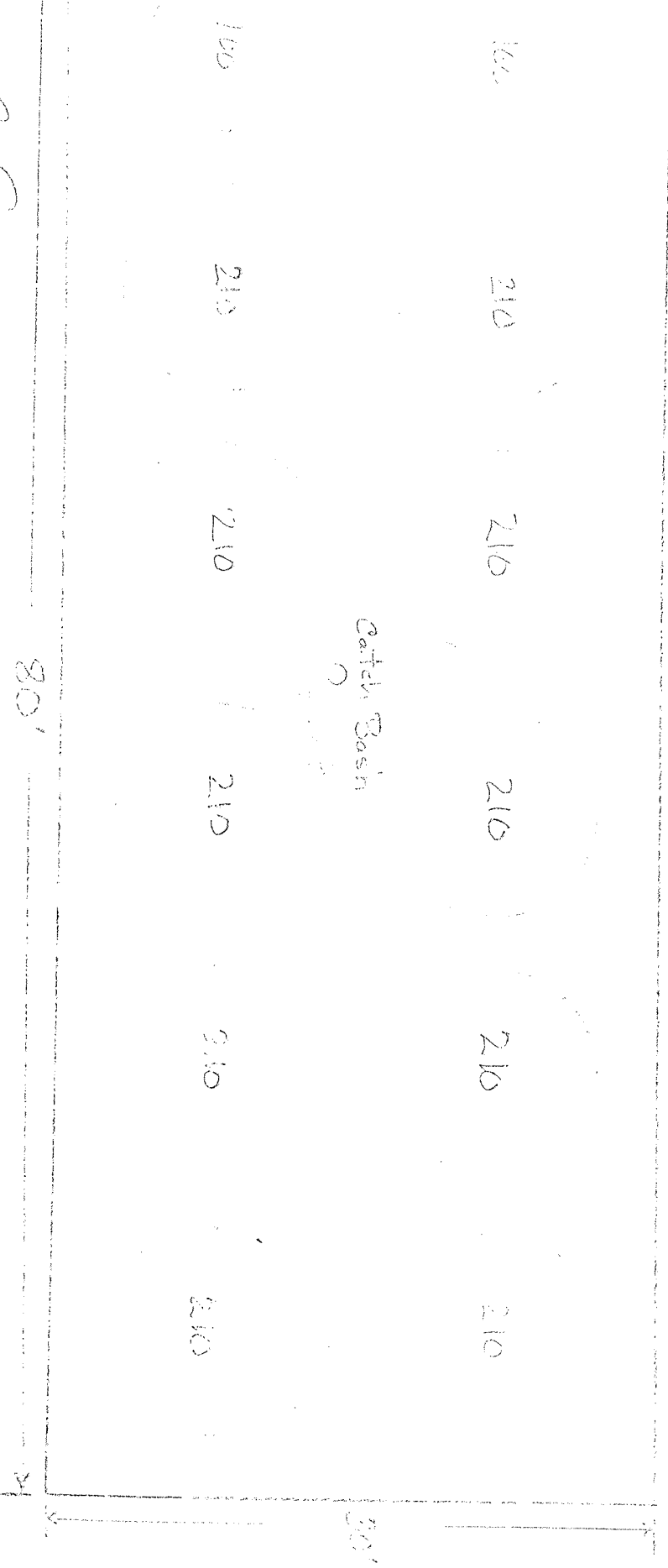
River County Casing Program
 For Well Above Top of Big Lime

G.L. ELEVATION	CASING
650' to 750'	250'
750' to 850'	200'
850' to 950'	318'
950' to 1050'	340'
1050' to 1150'	370'
1150' to 1250'	400'
1250' to 1350'	630'
OVER 1350'	500'

COAL BOUNDARY

- ~~~~~ Fresh Water/Salt Water Interface
Berea Sandstone, Mississippian
- ~~~~~ Fresh Water/Salt Water Interface
Blochhard Sandstone, (Big Injun) Miss. Cav.
- ~~~~~ Fresh Water/Salt Water Interface
Lower Pottsville Maxton
- ~~~~~ Fresh Water/Salt Water Interface
Upper Allegheny 2nd Coe Run

Will use existing facility for #3795 P&L REP #1



PLY P&L TENDERS

Dyke with tanks for P&L #1 & 2 Injection wells
30' x 80' x 6'

30 x 80 x 0.0148 = 35,52 bbls per well

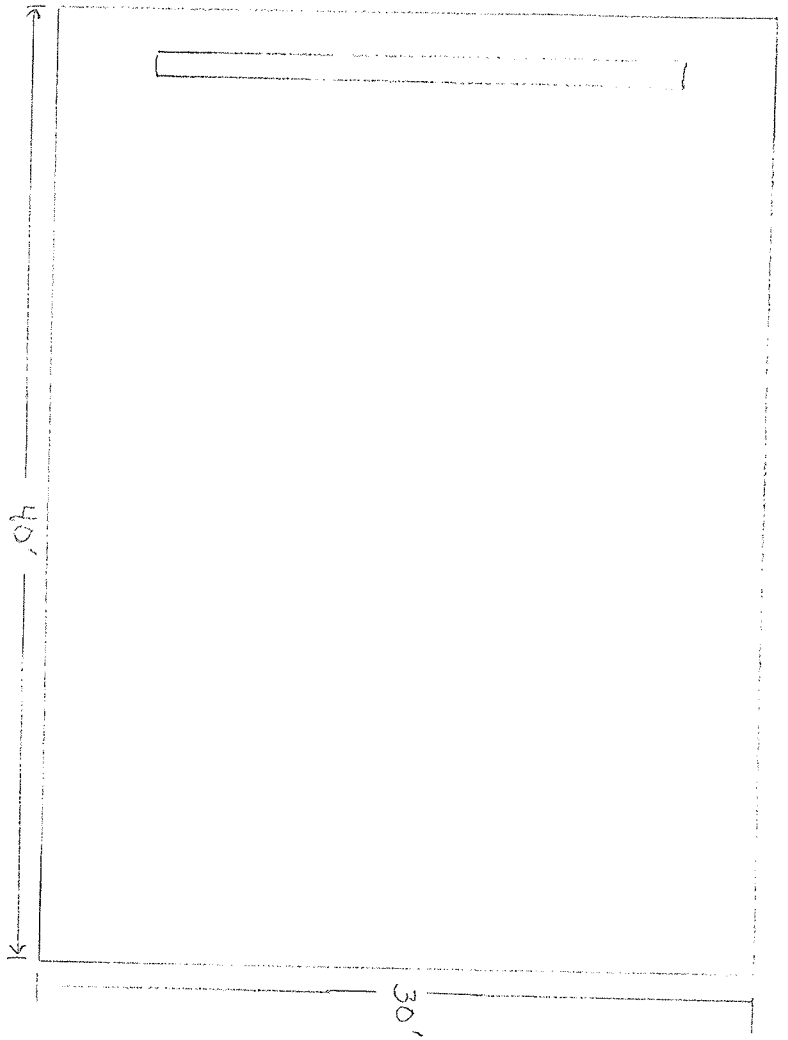
35,52 x 72 = 2557 bbls. of capacity

RS 10/25/2005

10/25/2005

10/25/2005

UNBORING END
concrete sloped to drain into 1500 gal
concrete vault with sump pump to storage tanks



1500 gal

**SUPPLEMENT TO APPLICATION
PERMIT FOR A SALTWATER INJECTION WELL (Form 210)**

Ohio Department of Natural Resources, Division of Oil and Gas Resources Management
2045 Morse Road, Bldg F-2
Columbus, OH 43229-6693

AREA OF REVIEW. An application for a saltwater injection well (SWIW) will be evaluated on the basis of an "area of review" surrounding the proposed well. The area of review for wells in which injection of greater than two hundred barrels per day is proposed shall be the area circumscribed by a circle with the center point at the location of the injection well and a radius of one-half mile. The area of review for wells in which a maximum injection of two hundred barrels per day or less is proposed shall be the area circumscribed by a circle with the center point at the location of the injection well and a radius of one-quarter mile.

31. PROPOSED INJECTION ZONE

Geological Formation: _____
Injection Interval: From: 4050 4000 AA AA Newburg feet to 4200
Geologic description of injection zone: _____

32. WELL CONSTRUCTION AND OPERATION

A. Description of the proposed casing and cement program for new wells, or of the casing, cementing or sealing with prepared clay for existing wells to be converted:
16" Conductor approximately 75' cement to surface, 11 3/4" surface to approximately 375' cement to surface,
8 5/8" surface to approximately 4000' cement to approximately 3000', 5 1/2" tubing set on a packer at
approximately 4000'

B. Proposed method for testing the casing:
Pressure test after cement cures and before running tubing

C. Description of the proposed method for completion and operation of the injection well:
Inject into 5 1/2" tubing set on a packer at approximately 4000'.

D. Description of the proposed unloading, surface storage, and spill containment facilities:
The unloading area will be concrete with a concrete vault to hold any spillage. The water will be stored in either
210, 300, or 400 bbl tanks which will be placed on a concrete pad with concrete walls. This dyke will be of
sufficient size to contain all water plus 10% in case of tank failure.
Trucks will unload through a filter or strainer and water will be filtered before the injection pump.

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JUL 23 2012

33. PROPOSED INJECTION VOLUMES

A. Indicate the estimated amount of saltwater to be injected into the proposed injection well per day:
AVERAGE: 1000 bbls MAXIMUM: 2000 bbls
B. Indicate the method to be used to measure the actual amount of saltwater injected into the well:

34. PROPOSED INJECTION PRESSURES

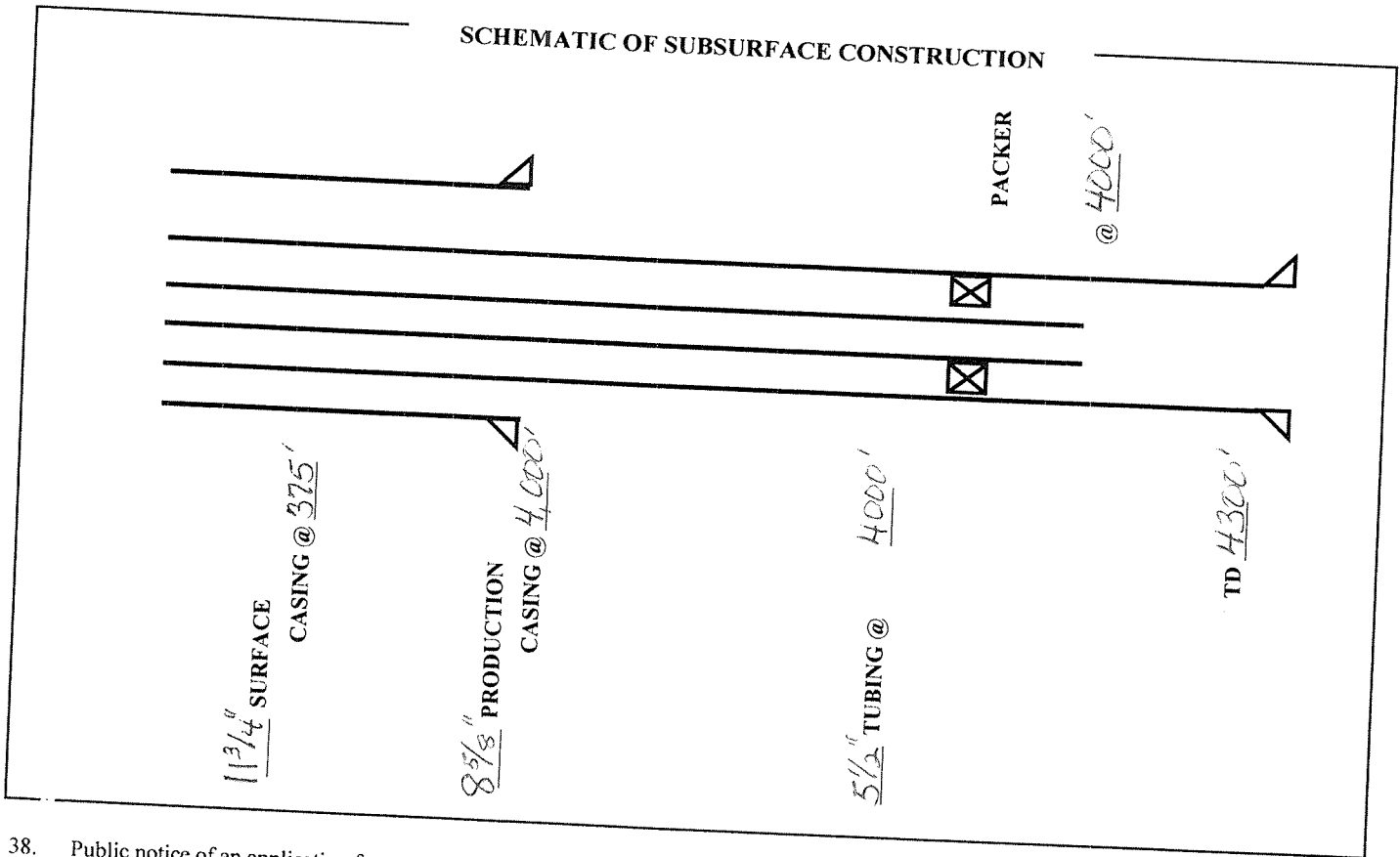
A. Indicate the estimated pressure to be used for injection of saltwater into the proposed injection well:
AVERAGE: 750 psi MAXIMUM: 925 psi 920 AA
B. Indicate the method to be used to measure the actual daily injection pressure:
Paperwork by drivers, electronics at unload station and a flowmeter

35. PROPOSED CORRECTIVE ACTION

Explain any corrective action proposed for wells penetrating the proposed injection formation or zone within the area of review:
No corrective action necessary

36. **MAP.** Each application for a permit shall be accompanied by a map or maps showing and containing the following information:
- A. The subject tract of land on which the proposed injection well is to be located.
 - B. The location of the proposed injection well on the subject tract established by an Ohio registered surveyor showing the distances in feet from the proposed well site to the boundary lines on the subject tract;
 - C. The geographic location of all wells, penetrating the formation proposed for injection regardless of status, within the area of review;
 - D. All holders of the land owner's royalty interest of record, or holders of the severed oil and gas mineral estates of record in the subject tract;.
 - E. All owners or operators of wells producing from or injecting into the same formation proposed as the injection formation.

37. **SCHEMATIC DRAWING OF SUBSURFACE CONSTRUCTION.** Label the schematic drawing below indicating size and setting depth of surface casing, intermediate (if any) and production casings; amount of cement used, measured or calculated tops of cement; size and setting depth of tubing; type and setting depth of packer; geologic name of injection zone showing top and bottom of injection interval. If the proposed input well design is substantially different from the schematic below, attach on a separate sheet a schematic of your proposal labeled with the above information.



38. Public notice of an application for an enhanced recovery project is required by law. In addition, the applicant must submit, on an attached sheet, a list of the names and address of those persons required to receive personal notice in accordance with Rule 1501:9-5-05(E)(1), of the Ohio Administrative Code.

After submitting the application, and after a determination by the Division that it is complete as required by the rules of the Division, a legal notice must be published by the applicant in a newspaper of general circulation in the area of review. The legal notice must contain the information described in Rule 1501:9-5-05(E)(1) of the Ohio Administrative Code. A copy of the notice must be delivered to all owners or operators of wells within the area of review producing from or injecting into the same formation proposed as the injection formation. Proof of publication, publication date, and an oath as to the delivery to those entitled to receive personal notice under this method must be filed with the Division within thirty days after the Division determines that the application is complete.

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JUL 23 2012

In addition, notice of all applications for enhanced recovery projects will be published in the Division's Weekly Circular.

The undersigned hereby agrees to comply with all provisions for an enhanced recovery project as required by Chapter 1501:9-5 of the Ohio Administrative Code. In addition, the undersigned deposes and says that he shall conform to all provisions of Section 1509.072 of the Ohio Revised Code, and to all orders and rules issued by the Chief, Division of Mineral Resources Management.

Owner/Authorized Agent (Type or Print): RAYMOND C. CAVENDER
 Signature of Owner/Authorized Agent: [Signature] Title: President
 Permanent Address of Home Office: P.O. Box 187
4317 ST RT 225 DIAMOND, OHIO 44412

If signed by Authorized Agent, a certified copy of appointment of agent must be on file with the Division.

SWORN to and subscribed before me this 19 day of July, 2012.



Dawnya C. LaMantia
Resident Summit County
Notary Public, State of Ohio
My Commission Expires: 12/21/14

[Signature]
Notary Public
Date Commission Expires 12/21/14

RESTORATION PLAN (Form 4)

Ohio Department of Natural Resources

Division of Oil and Gas Resources Management, 2045 Morse Road, Bldg. H-3, Columbus OH 43229-6693

1. DATE OF APPLICATION: 4-Jun-12		3. API #:	
2. OWNER NAME, ADDRESS, & TELEPHONE NO.: Ray Pander Trucking Inc., P.O. Box 187, Diamond, Ohio 44412 330-654-2500		4. WELL #: 2.	
		5. LEASE NAME: Pander R & P (SWIW#16)	
		6. PROPERTY OWNER: Raymond C. & Paula J. Pander	
		7. COUNTY: Trumbull	
		8. CIVIL TOWNSHIP: Newton	
		9. SECTION: 10. LOT:	
11. CURRENT LAND USE: <input type="checkbox"/> Cropland <input type="checkbox"/> Commercial <input type="checkbox"/> Pasture <input checked="" type="checkbox"/> Idle Land <input type="checkbox"/> Wetlands <input type="checkbox"/> Recreational <input type="checkbox"/> Residential <input type="checkbox"/> Industrial <input type="checkbox"/> Unreclaimed strip mine <input type="checkbox"/> Woodland: <input type="checkbox"/> Broadleaf <input type="checkbox"/> Needlelike		17. TYPE OF WELL: <input type="checkbox"/> Oil <input type="checkbox"/> Gas <input checked="" type="checkbox"/> Other	
12. SLOPE GRADIENT & LENGTH DETERMINED FROM: <input checked="" type="checkbox"/> Ground Measurement <input type="checkbox"/> U.S. Geological Survey Topographical Maps <input type="checkbox"/> Other: (explain) _____		18. STEEPEST SLOPE GRADIENT CROSSING SITE: <input checked="" type="checkbox"/> 0 to 2% <input type="checkbox"/> 2.1 to 8% <input type="checkbox"/> 8.1 to 10% <input type="checkbox"/> 10.1 to 24% <input type="checkbox"/> greater than 24%	
13. TYPE OF FALL VEGETAL COVER: <input type="checkbox"/> Little or no vegetal cover <input type="checkbox"/> Short grasses <input checked="" type="checkbox"/> Tall weeds or short brush (1 to 2 ft.) <input type="checkbox"/> Brush or bushes (2 to 6 ft.) <input type="checkbox"/> Agricultural crops <input type="checkbox"/> Trees with sparse low brush <input type="checkbox"/> Trees with dense low brush		19. LENGTH OF STEEPEST SLOPE CROSSING SITE: <input checked="" type="checkbox"/> 1 to 100 ft. <input type="checkbox"/> 101 to 200 ft. <input type="checkbox"/> 201 to 400 ft. <input type="checkbox"/> greater than 400 ft.	
14. SOIL & RESOILING MATERIAL AT WELLSITE: <input checked="" type="checkbox"/> Stockpile and protect topsoil to be used when preparing seedbed <input type="checkbox"/> Use of soil additives (e.g., lime, fertilizer) <input type="checkbox"/> No resoiling planned <input type="checkbox"/> Proposed alternative _____		20. RESTORATION OF DRILLING PITS: ** <input checked="" type="checkbox"/> Haul drilling fluids and fill pits <input type="checkbox"/> Use steel circulating tanks <input type="checkbox"/> Proposed alternative _____	
15. DISPOSAL PLAN FOR TREES AND TREE STUMPS: <input checked="" type="checkbox"/> No trees disturbed <input type="checkbox"/> Haul to landfill <input type="checkbox"/> Cut into firewood <input type="checkbox"/> Sell to lumber company <input type="checkbox"/> Bury with landowner's approval <input type="checkbox"/> Mulch small trees and branches, erosion control <input type="checkbox"/> Use for wildlife habitat with landowner approval <input type="checkbox"/> Proposed alternative _____		21. BACKFILLING AND GRADING AT SITE: <input type="checkbox"/> Construct diversions channeled to naturally established drainage systems <input type="checkbox"/> Construct terraces across slopes <input checked="" type="checkbox"/> Grade to approximate original contour <input type="checkbox"/> Grade to minimize erosion & control offsite runoff <input type="checkbox"/> Proposed alternative _____	
16. SURFACE AND SUBSURFACE DRAINAGE FACILITIES: <input checked="" type="checkbox"/> No existing drainage facilities for removal of surface and/or subsurface water <input type="checkbox"/> Tile drainage system underlying land to be disturbed <input type="checkbox"/> Drain pipe(s) underlying land to be disturbed <input type="checkbox"/> Surface drainage facilities on land to be disturbed		22. VEGETATIVE COVER TO BE ESTABLISHED AT SITE: <input checked="" type="checkbox"/> Seeding plan <input type="checkbox"/> Sod <input type="checkbox"/> Agricultural crops <input type="checkbox"/> Trees and/or Bushes <input type="checkbox"/> Proposed alternative _____	
		23. ADDITIONAL HOLES: <input checked="" type="checkbox"/> Rat/Mouse, if used, will be plugged	
		24. PROPOSED OR CURRENT LENGTH OF ACCESS ROAD: <input type="checkbox"/> 100 ft. or less <input type="checkbox"/> 101 to 500 ft. <input checked="" type="checkbox"/> 501 to 1500 ft. <input type="checkbox"/> greater than 1500 ft.	
		25. CURRENT LAND USE OF PATH OF ACCESS ROAD: <input type="checkbox"/> Cropland <input type="checkbox"/> Pasture <input type="checkbox"/> Commercial <input checked="" type="checkbox"/> Idle land <input type="checkbox"/> Wetlands <input type="checkbox"/> Recreational <input type="checkbox"/> Industrial <input type="checkbox"/> Residential <input type="checkbox"/> Unreclaimed strip mine <input type="checkbox"/> Woodland: <input type="checkbox"/> Broadleaf <input type="checkbox"/> Needlelike	

**PITS MUST BE FILLED WITHIN TWO MONTHS AFTER COMMENCEMENT OF THE WELL AND WITHIN FOURTEEN DAYS AFTER COMMENCEMENT OF THE WELL IN AN URBANIZED AREA.

REQUIRED BY SECTION 1509.06 (A)(10), OHIO REVISED CODE -- FAILED TO SUBMIT MAY RESULT IN AN ASSESSMENT OF CRIMINAL FINES NOT LESS THAN \$100.00 NOR MORE THAN \$2,000.00 OR CIVIL PENALTIES NOT LESS THAN \$4,000.00.

26. SURFACING MATERIAL FOR ACCESS ROAD: <input type="checkbox"/> Gravel <input type="checkbox"/> Brick and/or tile waste <input type="checkbox"/> Slag <input checked="" type="checkbox"/> Crushed stone <input type="checkbox"/> No surfacing material to be used <input type="checkbox"/> Proposed alternative	29. STEEPEST SLOPE GRADIENT ON ACCESS ROAD: <input checked="" type="checkbox"/> 0 to 5% <input type="checkbox"/> 6 to 10% <input type="checkbox"/> greater than 10%
27. PATH OF ACCESS ROAD TO BE DETERMINED BY: <input checked="" type="checkbox"/> Landowner <input type="checkbox"/> Contractor <input type="checkbox"/> Existing access road <input type="checkbox"/> Operator	30. APPROXIMATE LENGTH OF STEEPEST SLOPE ON ROAD: <input checked="" type="checkbox"/> 0 to 100 ft. <input type="checkbox"/> 101 to 200 ft. <input type="checkbox"/> 201 to 400 ft. <input type="checkbox"/> greater than 400 ft.
28. GRADING AND EROSION CONTROL PRACTICE ON ROAD: <input checked="" type="checkbox"/> Diversions <input type="checkbox"/> Filter strips <input type="checkbox"/> Drains <input type="checkbox"/> Riprap <input type="checkbox"/> Open top culverts <input type="checkbox"/> Water breaks <input type="checkbox"/> Outsloping of road <input type="checkbox"/> Pipe culverts <input type="checkbox"/> Proposed alternative	31. HAS LANDOWNER RECEIVED A COPY OF THIS RESTORATION PLAN? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

The undersigned hereby agrees to implement all restoration operations identified on this form, and conform to all provisions of Section 1509.072 of the Ohio Revised Code, and to all Orders and rules issued by the Chief, Division of Oil and Gas Resources Management.

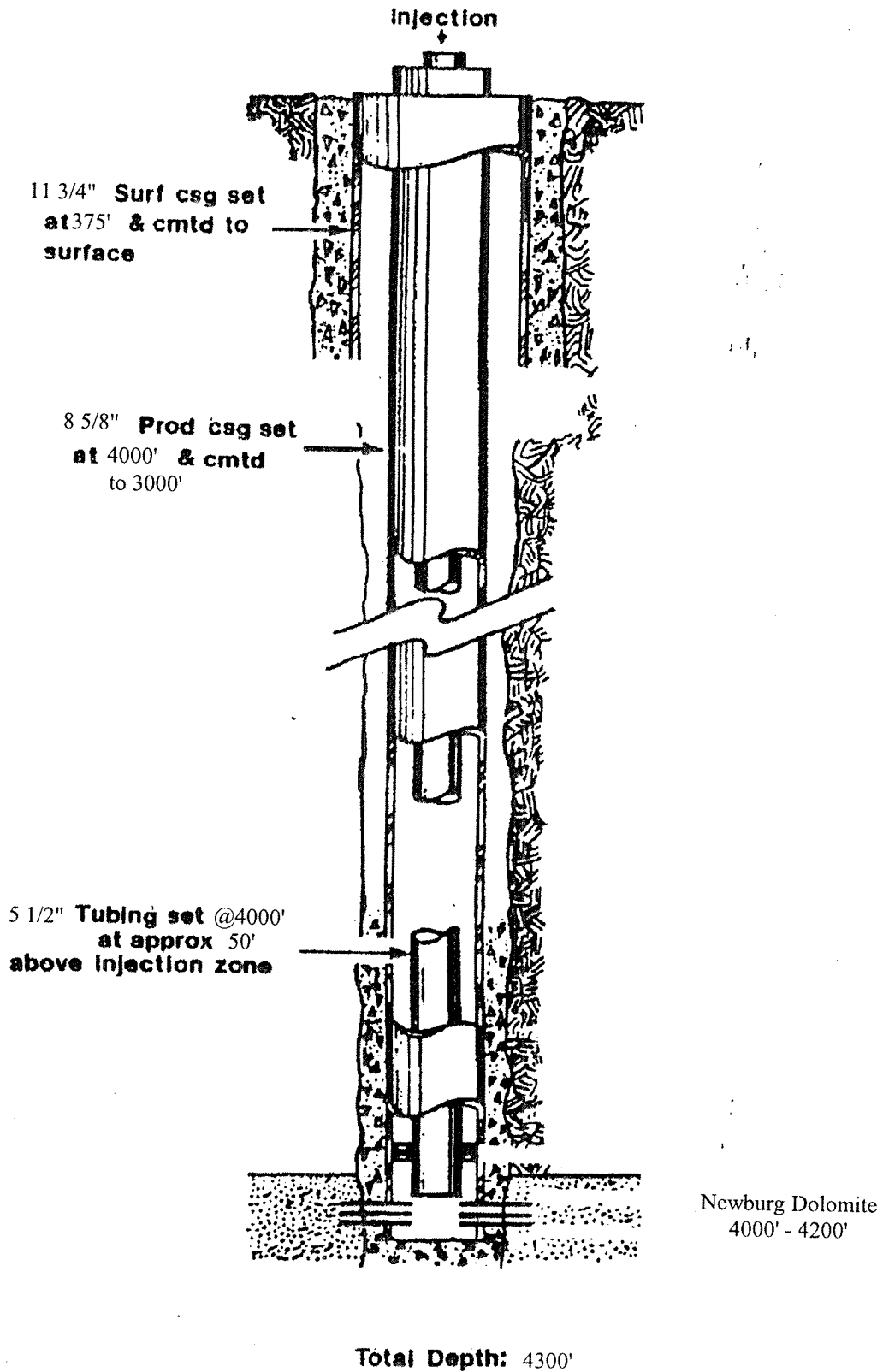
Signature of Owner/Authorized Agent Raymond C. Pander, President
Name (Typed or Printed) RAYMOND C. PANDER Date JUNE 4, 2012

RESTORATION PLAN MUST BE SUBMITTED TO THE DIVISION IN DUPLICATE.

Trumbull County, Newton Twp., SWIW # 16
Pander R & P SWD # 2

**Subsurface Construction
For Injection Well**

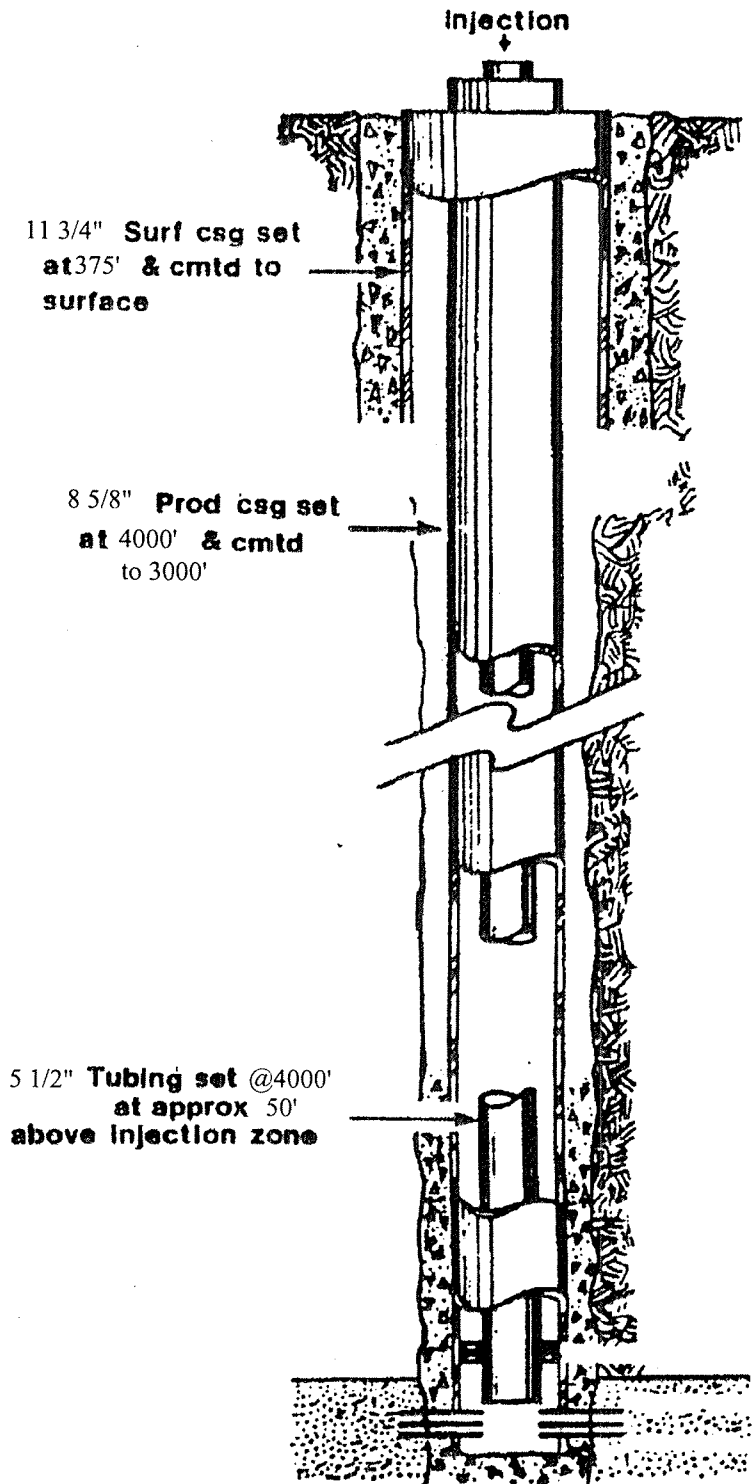
Maximum Injection Pressure: 920 psi



Trumbull County, Newton Twp., SWIW # 16
Pander R & P SWD # 2

**Subsurface Construction
For Injection Well**

Maximum Injection Pressure: 920 psi



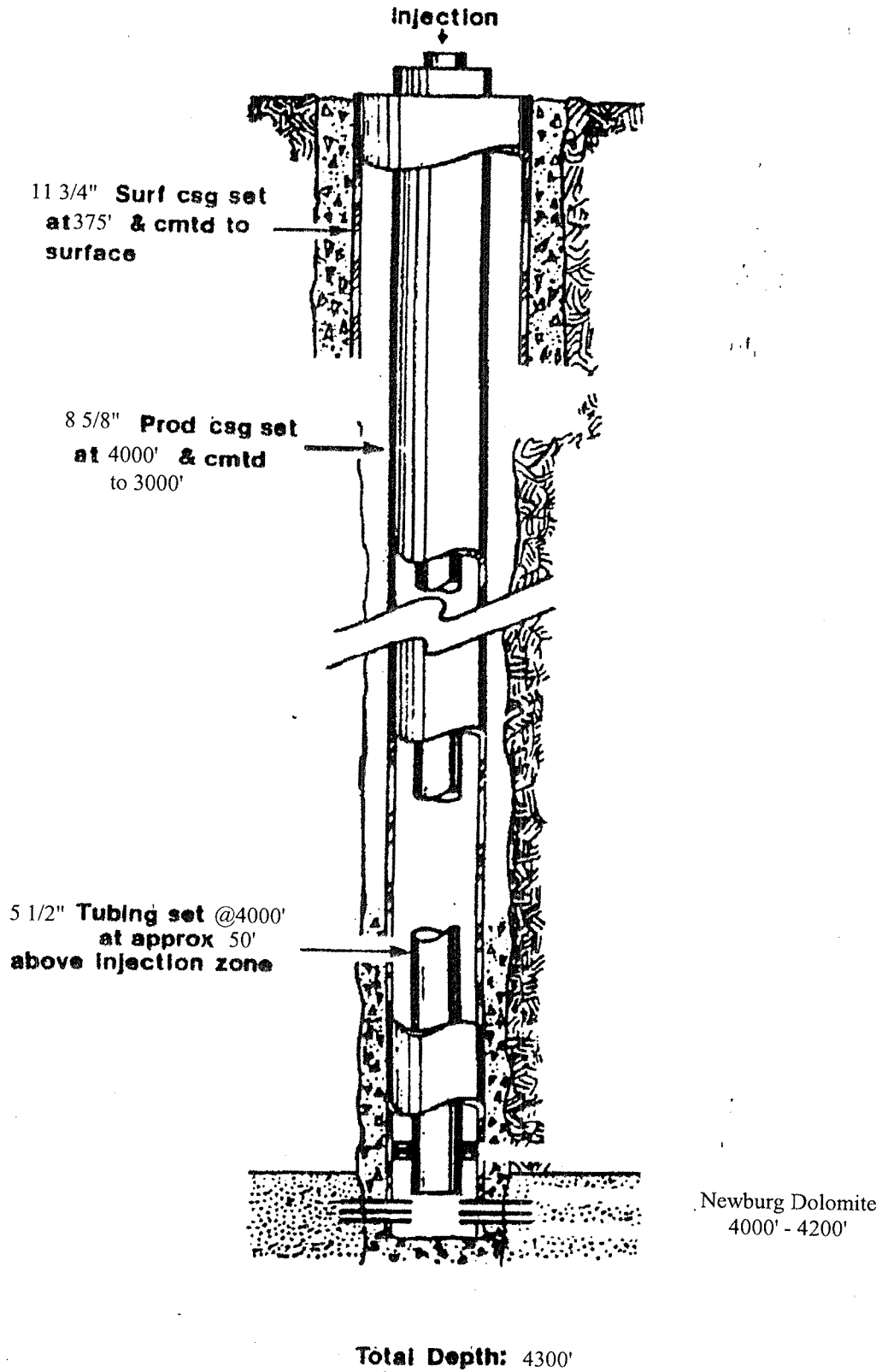
Newburg Dolomite
4000' - 4200'

Total Depth: 4300'

Trumbull County, Newton Twp., SWIW # 16
Pander R & P SWD # 2

**Subsurface Construction
For Injection Well**

Maximum Injection Pressure: 920 psi



APPLICATION FOR A PERMIT (Form 1)
 OHIO DEPARTMENT OF NATURAL RESOURCES
 DIVISION OF OIL AND GAS RESOURCES MANAGEMENT
 2045 Morse Road, Building F-2
 COLUMBUS, OHIO 43229-6693
 (614) 265-6922

SEE INSTRUCTIONS ON PAGE 2 (BACK)

1. I, We (applicant) <u>Ray Pander Trucking, Inc.</u>		2. Owner #: <u>1258</u>
(address) <u>P.O. Box 187, 4317 State Route 225 Diamond, Ohio 44412</u>		Phone #: <u>330-654-2500</u>
hereby apply this date <u>4-Jun</u> , 20 <u>12</u> for a permit to:		
<input checked="" type="checkbox"/> Reissue (check appropriate blank)	<input type="checkbox"/> Revised Location	<input type="checkbox"/> Convert
<input type="checkbox"/> Drill New Well	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Deepen
<input type="checkbox"/> Drill Directionally	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Reopen
<input type="checkbox"/> Drill Horizontally	<input type="checkbox"/> Orphan Well Program	<input type="checkbox"/> Temporary Inactive
3. TYPE OF WELL:		
<input type="checkbox"/> Oil & Gas	<input type="checkbox"/> Annular Disposal	<input checked="" type="checkbox"/> Saltwater Injection
<input type="checkbox"/> Stratigraphic Test	<input type="checkbox"/> Gas Storage	<input type="checkbox"/> Other (explain): _____
<input type="checkbox"/> Solution Mining*	<input type="checkbox"/> Enhanced Recovery* (* if checked, select appropriate box below)	
<input type="checkbox"/> Input/Injection	<input type="checkbox"/> Water Supply	<input type="checkbox"/> Observation
<input type="checkbox"/> Production/Extraction		
4. MAIL PERMIT TO: <u>Ray Pander Trucking, Inc., P.O. Box 187, Diamond, Ohio 44412</u>		20. TYPE OF TOOLS:
		<input type="checkbox"/> Cable
		<input type="checkbox"/> Cable / Air Rotary
		<input type="checkbox"/> Cable / Fluid Rotary
		<input type="checkbox"/> Cable / Air / Fluid Rotary
		<input type="checkbox"/> Air Rotary
		<input checked="" type="checkbox"/> Air / Fluid Rotary
		<input type="checkbox"/> Fluid Rotary
		<input type="checkbox"/> Service Rig
5. COUNTY: <u>Trumbull</u>	21. PROPOSED CASING PROGRAM:	
6. CIVIL TOWNSHIP: <u>Newton</u>	16" Conductor approximately 75' cement to surface, 11 3/4" surface to approximately 375' cement to surface, 8 5/8 surface to approximately 4000' cement to approximately 3000', 5 1/2" tubing set on packer at approximately 4000'.	
7. SECTION: _____		
8. LOT: _____		
9. FRACTION: _____		
10. QTR TWP: _____		
11. TRACT / ALLOT: _____		
12. WELL #: <u>2</u>		
13. LEASE NAME: <u>Pander R & P (SWIW#16)</u>		
14. PROPOSED TOTAL DEPTH: <u>4300</u>		
15. PROPOSED GEOLOGICAL FORMATION: <u>Newburg</u>	22. FIRE AND MEDICAL DEPARTMENT TELEPHONE NUMBERS: (closest to well site)	
16. DRILLING UNIT IN ACRES (must be same as acres indicated on plat): <u>7.955</u>	Fire: <u>330-872-5757</u>	
17. IF PERMITTED PREVIOUSLY:	Medical: <u>330-872-5757</u>	
API #: <u>34-155-2-3794-00-00</u>	23. MEANS OF INGRESS & EGRESS:	
OWNER: <u>Ray Pander Trucking, Inc.</u>	Township Road: _____	
WELL #: <u>2</u>	County Road: _____	
LEASE NAME: <u>Pander R & P (SWIW#16)</u>	Municipal Road: _____	
TOTAL DEPTH: <u>4300</u>	State Highway: <u>State Route 5</u>	
GEOLOGICAL FORMATION: <u>Newburg</u>		
18. IF SURFACE RIGHTS ARE OWNED BY THE OHIO DEPARTMENT OF NATURAL RESOURCES	24. IS THE WELL LOCATION OR PRODUCTION FACILITIES WITHIN AN URBANIZED AREA AS DEFINED BY 1509.01(Y) ?	
Division Name: _____	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Division Phone: _____		
19. LANDOWNER ROYALTY INTEREST:		
Is There An Attached List? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Name: <u>Raymond C. & Paula J. Pander</u>		
Address: <u>P.O. Box 488, Bolivar, Ohio 44612</u>		
Name: _____		
Address: _____		
Name: _____		
Address: _____		

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I, the undersigned, being first duly sworn, depose and state under penalties of law, that I am authorized to make this application, that this application was prepared by me or under my supervision and direction, and that the facts stated herein are true, correct, and complete, to the best of my knowledge.

I, the undersigned, further depose and state that I am the person who has the right to drill on the tract or drilling unit and to drill into and produce from a pool and to appropriate the oil or gas that I produce therefrom either for myself or others as described in this application. And furthermore, I the undersigned, being duly sworn, depose and state at this time that I am not liable for any final nonappealable order of a court for damage to streets, roads, highways, bridges, culverts, or drainage ways pursuant to Section 5677.12 of the Ohio Revised Code (ORC). I, the undersigned, further depose and state that all notices required by 1509.06 (A) (9) ORC for this application have been duly provided by me. If applying for a permit to plug and abandon a well, I hereby certify that the written notices, as required in Section 1509.13, ORC, have been given.

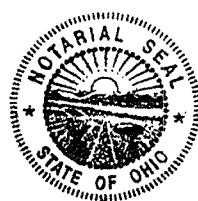
That I hereby agree to conform with all provisions of Chapter 1509., ORC, and Chapter 1501., OAC, and all orders and conditions issued by the Chief, Division of Oil and Gas Resources Management.

Signature of Owner/Authorized Agent Raymond C. Pander
 Name (Type or Print) RAYMOND C. PANDER Title President

If signed by: Authorized Agent, a certificate of appointment of agent must be on file.

Sworn to and subscribed before me this the 19 day of July, 20 12.

Dawnya C. LaMantia
(Notary Public)



Dawnya C. LaMantia
 Resident Summit County
 Notary Public, State of Ohio
 My Commission Expires: 12/21/14
 (Date Commission Expires)

APPLICATION FOR A PERMIT (FORM 1)
OHIO DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL AND GAS RESOURCES MANAGEMENT
 2045 Morse Road, Building F-2
 COLUMBUS, OHIO 43229-6693
 (614) 265-6922

SEE INSTRUCTIONS ON PAGE 2 (BACK)

1. I, We (applicant) <u>Ray Pander Trucking, Inc.</u>		2. Owner #: <u>1258</u>
(address) <u>P.O. Box 187, 4317 State Route 225 Diamond, Ohio 44412</u>		Phone #: <u>330-654-2500</u>
hereby apply this date <u>4-Jun</u> , 20 <u>12</u> for a permit to:		
<input checked="" type="checkbox"/> Reissue (check appropriate blank)	<input type="checkbox"/> Revised Location	<input type="checkbox"/> Convert
<input type="checkbox"/> Drill New Well	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Deepen
<input type="checkbox"/> Drill Directionally	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Reopen
<input type="checkbox"/> Drill Horizontally	<input type="checkbox"/> Orphan Well Program	<input type="checkbox"/> Temporary Inactive
3. TYPE OF WELL:		
<input type="checkbox"/> Oil & Gas	<input type="checkbox"/> Annular Disposal	<input checked="" type="checkbox"/> Saltwater Injection
<input type="checkbox"/> Stratigraphic Test	<input type="checkbox"/> Gas Storage	<input type="checkbox"/> Other (explain): _____
<input type="checkbox"/> Solution Mining*	<input type="checkbox"/> Enhanced Recovery* (* if checked, select appropriate box below)	
<input type="checkbox"/> Input/Injection	<input type="checkbox"/> Water Supply	<input type="checkbox"/> Observation
<input type="checkbox"/> Production/Extraction		
4. MAIL PERMIT TO: <u>Ray Pander Trucking, Inc., P.O. Box 187, Diamond, Ohio 44412</u>		20. TYPE OF TOOLS:
		<input type="checkbox"/> Cable
		<input type="checkbox"/> Cable / Air Rotary
		<input type="checkbox"/> Cable / Fluid Rotary
		<input type="checkbox"/> Cable / Air / Fluid Rotary
		<input type="checkbox"/> Air Rotary
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		<input type="checkbox"/> Fluid Rotary
		<input type="checkbox"/> Service Rig
5. COUNTY: <u>Trumbull</u>		21. PROPOSED CASING PROGRAM:
6. CIVIL TOWNSHIP: <u>Newton</u>		16" Conductor approximately 75' cement to surface, 11 3/4" surface to approximately 375' cement to surface, 8 5/8 surface to approximately 4000' cement to approximately 3000', 5 1/2" tubing set on packer at approximately 4000'.
7. SECTION: _____		
8. LOT: _____		
9. FRACTION: _____		
10. QTR TWP: _____		
11. TRACT / ALLOT: _____		22. FIRE AND MEDICAL DEPARTMENT TELEPHONE NUMBERS: (closest to well site)
12. WELL #: <u>2</u>		Fire: <u>330-872-5757</u>
13. LEASE NAME: <u>Pander R & P (SWIW#16)</u>		Medical: <u>330-872-5757</u>
14. PROPOSED TOTAL DEPTH: <u>4300</u>		23. MEANS OF INGRESS & EGRESS:
15. PROPOSED GEOLOGICAL FORMATION: <u>Newburg</u>		Township Road: _____
16. DRILLING UNIT IN ACRES (must be same as acres indicated on plat): <u>7.955</u>		County Road: _____
17. IF PERMITTED PREVIOUSLY:		Municipal Road: _____
AF #: <u>34-155-2-3794-00-00</u>		State Highway: <u>State Route 5</u>
OWNER: <u>Ray Pander Trucking, Inc.</u>		24. IS THE WELL LOCATION OR PRODUCTION FACILITIES WITHIN AN URBANIZED AREA AS DEFINED BY 1509.01(Y) ?
WELL #: <u>2</u>		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
LEASE NAME: <u>Pander R & P (SWIW#16)</u>		
TOTAL DEPTH: <u>4300</u>		
GEOLOGICAL FORMATION: <u>Newburg</u>		
18. IF SURFACE RIGHTS ARE OWNED BY THE OHIO DEPARTMENT OF NATURAL RESOURCES		
Division Name: _____		
Division Phone: _____		
19. LANDOWNER ROYALTY INTEREST:		
Is There An Attached List? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Name: <u>Raymond C. & Paula J. Pander</u>		
Address: <u>P.O. Box 488, Bolivar, Ohio 44612</u>		
Name: _____		
Address: _____		
Name: _____		
Address: _____		

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I, the undersigned, being first duly sworn, depose and state under penalties of law, that I am authorized to make this application, that this application was prepared by me or under my supervision and direction, and that the facts stated herein are true, correct, and complete, to the best of my knowledge.

I, the undersigned, further depose and state that I am the person who has the right to drill on the tract or drilling unit and to drill into and produce from a pool and to appropriate the oil or gas therefrom either for myself or others as described in this application. And furthermore, I the undersigned, being duly sworn, depose and state at this time that I am not liable for any final nonappealable order of a court for damage to streets, roads, highways, bridges, culverts, or drainage ways pursuant to Section 5577.12 of the Ohio Revised Code (ORC). I, the undersigned, further depose and state that all notices required by 1509.06 (A) (9) ORC for this application have been duly provided by me. If applying for a permit to plug and abandon a well, I hereby certify that the written notices, as required in Section 1509.13, ORC, have been given.

That I hereby agree to conform with all provisions of Chapter 1509., ORC, and Chapter 1501., OAC, and all orders and conditions issued by the Chief, Division of Oil and Gas Resources Management.

Signature of Owner/Authorized Agent: Raymond C. Pander
 Name (Type or Print): RAYMOND C. PANDER Title: President

If signed by Authorized Agent, a certificate of appointment of agent must be on file.

Sworn to and subscribed before me this 19 day of July, 20 12
Dawnya C. LaMantia
 (Notary Public)



Dawnya C. LaMantia
 Resident Summit County
 Notary Public, State of Ohio
 My Commission Expires: 12/21/14
 (Date Commission Expires)

SUPPLEMENT TO APPLICATION
PERMIT FOR A SALTWATER INJECTION WELL (Form 210)

Ohio Department of Natural Resources, Division of Oil and Gas Resources Management
2045 Morse Road, Bldg F-2
Columbus, OH 43229-6693

AREA OF REVIEW. An application for a saltwater injection well (SWIW) will be evaluated on the basis of an "area of review" surrounding the proposed well. The area of review for wells in which injection of greater than two hundred barrels per day is proposed shall be the area circumscribed by a circle with the center point at the location of the injection well and a radius of one-half mile. The area of review for wells in which a maximum injection of two hundred barrels per day or less is proposed shall be the area circumscribed by a circle with the center point at the location of the injection well and a radius of one-quarter mile.

31. **PROPOSED INJECTION ZONE**

Geological Formation: _____
Injection Interval: From: 4050 ^{4000 AA} feet to Newburg 4200
Geologic description of injection zone: _____

32. **WELL CONSTRUCTION AND OPERATION**

A. Description of the proposed casing and cement program for new wells, or of the casing, cementing or sealing with prepared clay for existing wells to be converted:
16" Conductor approximately 75' cement to surface, 11 3/4" surface to approximately 375' cement to surface,
8 5/8" surface to approximately 4000' cement to approximately 3000', 5 1/2" tubing set on a packer at
approximately 4000'

B. Proposed method for testing the casing:
Pressure test after cement cures and before running tubing

C. Description of the proposed method for completion and operation of the injection well:
Inject into 5 1/2" tubing set on a packer at approximately 4000'.

D. Description of the proposed unloading, surface storage, and spill containment facilities:
The unloading area will be concrete with a concrete vault to hold any spillage. The water will be stored in either
210, 300, or 400 bbl tanks which will be placed on a concrete pad with concrete walls. This dyke will be of
sufficient size to contain all water plus 10% in case of tank failure.
Trucks will unload through a filter or strainer and water will be filtered before the injection pump.

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33. **PROPOSED INJECTION VOLUMES**

A. Indicate the estimated amount of saltwater to be injected into the proposed injection well per day:
AVERAGE: _____ 1000 bbls _____ MAXIMUM: _____ 2000 bbls

B. Indicate the method to be used to measure the actual amount of saltwater injected into the well:

34. **PROPOSED INJECTION PRESSURES**

A. Indicate the estimated pressure to be used for injection of saltwater into the proposed injection well:
AVERAGE: _____ 750 psi _____ MAXIMUM: _____ 925 psi ^{720 AA}

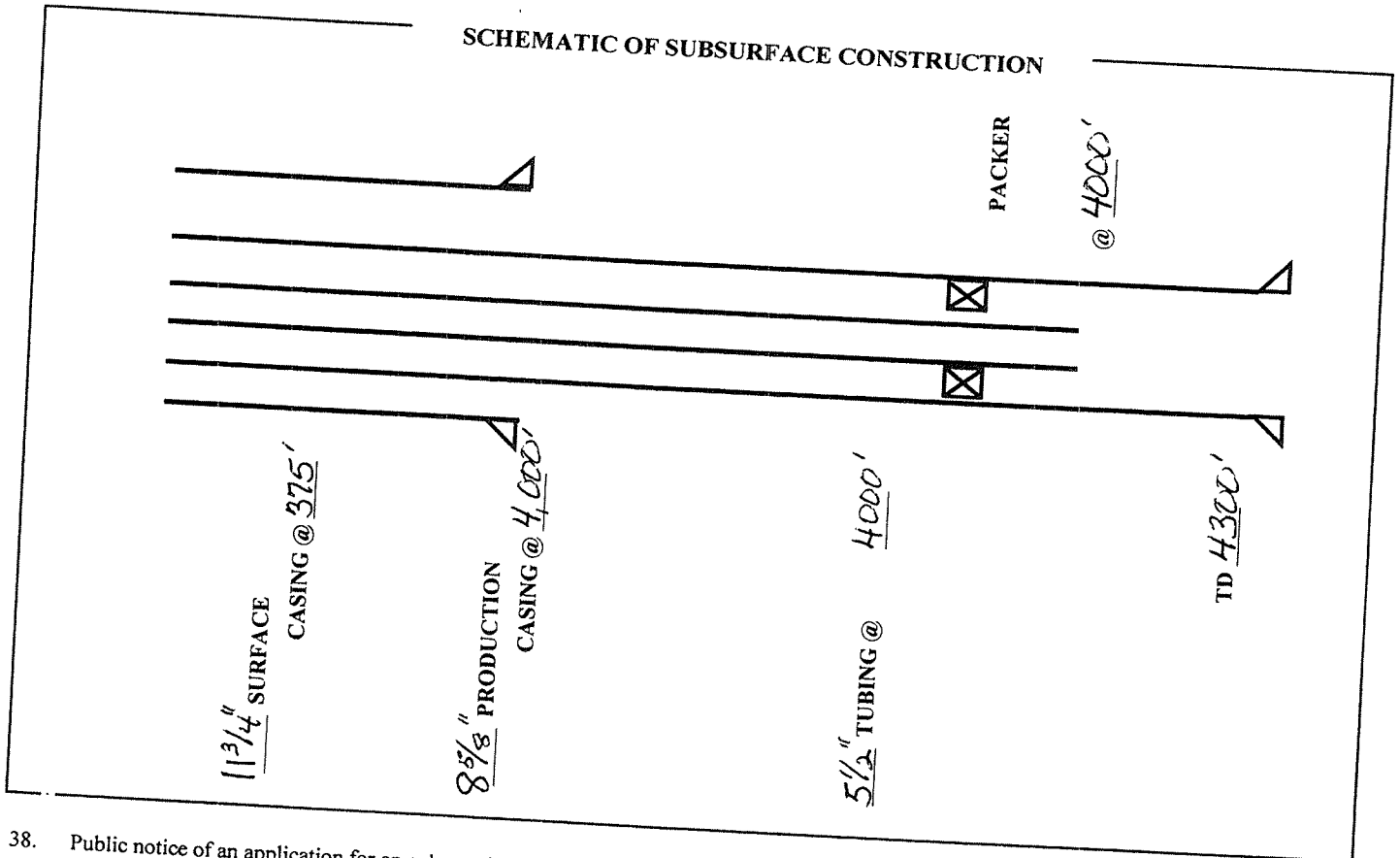
B. Indicate the method to be used to measure the actual daily injection pressure:
Paperwork by drivers, electronics at unload station and a flowmeter

35. **PROPOSED CORRECTIVE ACTION**

Explain any corrective action proposed for wells penetrating the proposed injection formation or zone within the area of review:
No corrective action necessary

36. **MAP.** Each application for a permit shall be accompanied by a map or maps showing and containing the following information:
- A. The subject tract of land on which the proposed injection well is to be located.
 - B. The location of the proposed injection well on the subject tract established by an Ohio registered surveyor showing the distances in feet from the proposed well site to the boundary lines on the subject tract;
 - C. The geographic location of all wells, penetrating the formation proposed for injection regardless of status, within the area of review;
 - D. All holders of the land owner's royalty interest of record, or holders of the severed oil and gas mineral estates of record in the subject tract;
 - E. All owners or operators of wells producing from or injecting into the same formation proposed as the injection formation.

37. **SCHEMATIC DRAWING OF SUBSURFACE CONSTRUCTION.** Label the schematic drawing below indicating size and setting depth of surface casing, intermediate (if any) and production casings; amount of cement used, measured or calculated tops of cement; size and setting depth of tubing; type and setting depth of packer; geologic name of injection zone showing top and bottom of injection interval. If the proposed input well design is substantially different from the schematic below, attach on a separate sheet a schematic of your proposal labeled with the above information.



38. Public notice of an application for an enhanced recovery project is required by law. In addition, the applicant must submit, on an attached sheet, a list of the names and address of those persons required to receive personal notice in accordance with Rule 1501:9-5-05(E)(1), of the Ohio Administrative Code.

After submitting the application, and after a determination by the Division that it is complete as required by the rules of the Division, a legal notice must be published by the applicant in a newspaper of general circulation in the area of review. The legal notice must contain the information described in Rule 1501:9-5-05(E)(1) of the Ohio Administrative Code. A copy of the notice must be delivered to all owners or operators of wells within the area of review producing from or injecting into the same formation proposed as the injection formation. Proof of publication, publication date, and an oath as to the delivery to those entitled to receive personal notice under this method must be filed with the Division within thirty days after the Division determines that the application is complete.

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In addition, notice of all applications for enhanced recovery projects will be published in the Division's Weekly Circular.

The undersigned hereby agrees to comply with all provisions for an enhanced recovery project as required by Chapter 1501:9-5 of the Ohio Administrative Code. In addition, the undersigned deposes and says that he shall conform to all provisions of Section 1509.072 of the Ohio Revised Code, and to all orders and rules issued by the Chief, Division of Mineral Resources Management.

Owner/Authorized Agent (Type or Print): RAYMOND C. SANDER
 Signature of Owner/Authorized Agent: [Signature] Title: President
 Permanent Address of Home Office: P.O. Box 187
4317 ST RT 225 DIAMOND, OHIO 44412

If signed by Authorized Agent, a certified copy of appointment of agent must be on file with the Division.

SWORN to and subscribed before me this 19 day of July, 2012.

[Signature]
 Dawnya C. LaMantia
 Resident Summit County
 Notary Public, State of Ohio
 My Commission Expires: 12/21/14
12/21/14
 Notary Public
 Date Commission Expires

RESTORATION PLAN (Form 4)

Ohio Department of Natural Resources

Division of Oil and Gas Resources Management, 2045 Morse Road, Bldg. H-3, Columbus OH 43229-6693

<p>1. DATE OF APPLICATION: 4-Jun-12</p>																
<p>2. OWNER NAME, ADDRESS, & TELEPHONE NO.: Ray Pander Trucking Inc., P.O. Box 187, Diamond, Ohio 44412 330-654-2500</p>	<p>3. API #:</p> <p>4. WELL #: 2</p> <p>5. LEASE NAME: Pander R & P (SWIW#16)</p> <p>6. PROPERTY OWNER: Raymond C. & Paula J. Pander</p> <p>7. COUNTY: Trumbull</p> <p>8. CIVIL TOWNSHIP: Newton</p> <p>9. SECTION: 10. LOT:</p>															
<p>11. CURRENT LAND USE:</p> <table style="width: 100%;"> <tr> <td><input type="checkbox"/> Cropland</td> <td><input type="checkbox"/> Commercial</td> </tr> <tr> <td><input type="checkbox"/> Pasture</td> <td><input checked="" type="checkbox"/> Idle Land</td> </tr> <tr> <td><input type="checkbox"/> Wetlands</td> <td><input type="checkbox"/> Recreational</td> </tr> <tr> <td><input type="checkbox"/> Residential</td> <td><input type="checkbox"/> Industrial</td> </tr> <tr> <td><input type="checkbox"/> Unreclaimed strip mine</td> <td></td> </tr> <tr> <td><input type="checkbox"/> Woodland: <input type="checkbox"/> Broadleaf <input type="checkbox"/> Needlelike</td> <td></td> </tr> </table>	<input type="checkbox"/> Cropland	<input type="checkbox"/> Commercial	<input type="checkbox"/> Pasture	<input checked="" type="checkbox"/> Idle Land	<input type="checkbox"/> Wetlands	<input type="checkbox"/> Recreational	<input type="checkbox"/> Residential	<input type="checkbox"/> Industrial	<input type="checkbox"/> Unreclaimed strip mine		<input type="checkbox"/> Woodland: <input type="checkbox"/> Broadleaf <input type="checkbox"/> Needlelike		<p>17. TYPE OF WELL:</p> <p style="text-align: center;"><input type="checkbox"/> Oil <input type="checkbox"/> Gas <input checked="" type="checkbox"/> Other</p> <p>18. STEEPEST SLOPE GRADIENT CROSSING SITE:</p> <p><input checked="" type="checkbox"/> 0 to 2% <input type="checkbox"/> 2.1 to 8%</p> <p><input type="checkbox"/> 8.1 to 10% <input type="checkbox"/> greater than 24%</p> <p><input type="checkbox"/> 10.1 to 24%</p>			
<input type="checkbox"/> Cropland	<input type="checkbox"/> Commercial															
<input type="checkbox"/> Pasture	<input checked="" type="checkbox"/> Idle Land															
<input type="checkbox"/> Wetlands	<input type="checkbox"/> Recreational															
<input type="checkbox"/> Residential	<input type="checkbox"/> Industrial															
<input type="checkbox"/> Unreclaimed strip mine																
<input type="checkbox"/> Woodland: <input type="checkbox"/> Broadleaf <input type="checkbox"/> Needlelike																
<p>12. SLOPE GRADIENT & LENGTH DETERMINED FROM:</p> <p><input checked="" type="checkbox"/> Ground Measurement</p> <p><input type="checkbox"/> U.S. Geological Survey Topographical Maps</p> <p><input type="checkbox"/> Other: (explain)</p>	<p>19. LENGTH OF STEEPEST SLOPE CROSSING SITE:</p> <p><input checked="" type="checkbox"/> 1 to 100 ft. <input type="checkbox"/> 101 to 200 ft.</p> <p><input type="checkbox"/> 201 to 400 ft. <input type="checkbox"/> greater than 400 ft.</p>															
<p>13. TYPE OF FALL VEGETAL COVER:</p> <p><input type="checkbox"/> Little or no vegetal cover</p> <p><input type="checkbox"/> Short grasses</p> <p><input checked="" type="checkbox"/> Tall weeds or short brush (1 to 2 ft.)</p> <p><input type="checkbox"/> Brush or bushes (2 to 6 ft.)</p> <p><input type="checkbox"/> Agricultural crops</p> <p><input type="checkbox"/> Trees with sparse low brush</p> <p><input type="checkbox"/> Trees with dense low brush</p>	<p>20. RESTORATION OF DRILLING PITS: **</p> <p><input checked="" type="checkbox"/> Haul drilling fluids and fill pits</p> <p><input type="checkbox"/> Use steel circulating tanks</p> <p><input type="checkbox"/> Proposed alternative</p>															
<p>14. SOIL & RESOILING MATERIAL AT WELLSITE:</p> <p><input checked="" type="checkbox"/> Stockpile and protect topsoil to be used when preparing seedbed</p> <p><input type="checkbox"/> Use of soil additives (e.g., lime, fertilizer)</p> <p><input type="checkbox"/> No resoiling planned</p> <p><input type="checkbox"/> Proposed alternative</p>	<p>21. BACKFILLING AND GRADING AT SITE:</p> <p><input type="checkbox"/> Construct diversions channeled to naturally established drainage systems</p> <p><input type="checkbox"/> Construct terraces across slopes</p> <p><input checked="" type="checkbox"/> Grade to approximate original contour</p> <p><input type="checkbox"/> Grade to minimize erosion & control offsite runoff</p> <p><input type="checkbox"/> Proposed alternative</p>															
<p>15. DISPOSAL PLAN FOR TREES AND TREE STUMPS:</p> <p><input checked="" type="checkbox"/> No trees disturbed <input type="checkbox"/> Haul to landfill</p> <p><input type="checkbox"/> Cut into firewood <input type="checkbox"/> Sell to lumber company</p> <p><input type="checkbox"/> Bury with landowner's approval</p> <p><input type="checkbox"/> Mulch small trees and branches, erosion control</p> <p><input type="checkbox"/> Use for wildlife habitat with landowner approval</p> <p><input type="checkbox"/> Proposed alternative</p>	<p>22. VEGETATIVE COVER TO BE ESTABLISHED AT SITE:</p> <p><input checked="" type="checkbox"/> Seeding plan <input type="checkbox"/> Sod</p> <p><input type="checkbox"/> Agricultural crops <input type="checkbox"/> Trees and/or Bushes</p> <p><input type="checkbox"/> Proposed alternative</p>															
<p>16. SURFACE AND SUBSURFACE DRAINAGE FACILITIES:</p> <p><input checked="" type="checkbox"/> No existing drainage facilities for removal of surface and/or subsurface water</p> <p><input type="checkbox"/> Tile drainage system underlying land to be disturbed</p> <p><input type="checkbox"/> Drain pipe(s) underlying land to be disturbed</p> <p><input type="checkbox"/> Surface drainage facilities on land to be disturbed</p>	<p>23. ADDITIONAL HOLES:</p> <p><input checked="" type="checkbox"/> Rat/Mouse, if used, will be plugged</p> <p>24. PROPOSED OR CURRENT LENGTH OF ACCESS ROAD:</p> <p><input type="checkbox"/> 100 ft. or less <input type="checkbox"/> 101 to 500 ft.</p> <p><input checked="" type="checkbox"/> 501 to 1500 ft. <input type="checkbox"/> greater than 1500 ft.</p>															
<p>16. SURFACE AND SUBSURFACE DRAINAGE FACILITIES:</p> <p><input checked="" type="checkbox"/> No existing drainage facilities for removal of surface and/or subsurface water</p> <p><input type="checkbox"/> Tile drainage system underlying land to be disturbed</p> <p><input type="checkbox"/> Drain pipe(s) underlying land to be disturbed</p> <p><input type="checkbox"/> Surface drainage facilities on land to be disturbed</p>	<p>25. CURRENT LAND USE OF PATH OF ACCESS ROAD:</p> <table style="width: 100%;"> <tr> <td><input type="checkbox"/> Cropland</td> <td><input type="checkbox"/> Pasture</td> <td><input type="checkbox"/> Commercial</td> </tr> <tr> <td><input checked="" type="checkbox"/> Idle land</td> <td><input type="checkbox"/> Wetlands</td> <td><input type="checkbox"/> Recreational</td> </tr> <tr> <td><input type="checkbox"/> Industrial</td> <td><input type="checkbox"/> Residential</td> <td></td> </tr> <tr> <td><input type="checkbox"/> Unreclaimed strip mine</td> <td></td> <td></td> </tr> <tr> <td><input type="checkbox"/> Woodland: <input type="checkbox"/> Broadleaf <input type="checkbox"/> Needlelike</td> <td></td> <td></td> </tr> </table>	<input type="checkbox"/> Cropland	<input type="checkbox"/> Pasture	<input type="checkbox"/> Commercial	<input checked="" type="checkbox"/> Idle land	<input type="checkbox"/> Wetlands	<input type="checkbox"/> Recreational	<input type="checkbox"/> Industrial	<input type="checkbox"/> Residential		<input type="checkbox"/> Unreclaimed strip mine			<input type="checkbox"/> Woodland: <input type="checkbox"/> Broadleaf <input type="checkbox"/> Needlelike		
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<input type="checkbox"/> Unreclaimed strip mine																
<input type="checkbox"/> Woodland: <input type="checkbox"/> Broadleaf <input type="checkbox"/> Needlelike																

****PITS MUST BE FILLED WITHIN TWO MONTHS AFTER COMMENCEMENT OF THE WELL AND WITHIN FOURTEEN DAYS AFTER COMMENCEMENT OF THE WELL IN AN URBANIZED AREA.**

REQUIRED BY SECTION 1509.06 (A)(10), OHIO REVISED CODE -- FAILED TO SUBMIT MAY RESULT IN AN ASSESSMENT OF CRIMINAL FINES NOT LESS THAN \$100.00 NOR MORE THAN \$2,000.00 OR CIVIL PENALTIES NOT LESS THAN \$4,000.00.

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<p>26. SURFACING MATERIAL FOR ACCESS ROAD:</p> <input type="checkbox"/> Gravel <input type="checkbox"/> Brick and/or tile waste <input type="checkbox"/> Slag <input checked="" type="checkbox"/> Crushed stone <input type="checkbox"/> No surfacing material to be used <input type="checkbox"/> Proposed alternative _____	<p>29. STEEPEST SLOPE GRADIENT ON ACCESS ROAD:</p> <input checked="" type="checkbox"/> 0 to 5% <input type="checkbox"/> 6 to 10% <input type="checkbox"/> greater than 10%
<p>27. PATH OF ACCESS ROAD TO BE DETERMINED BY:</p> <input checked="" type="checkbox"/> Landowner <input type="checkbox"/> Contractor <input type="checkbox"/> Existing access road <input type="checkbox"/> Operator	<p>30. APPROXIMATE LENGTH OF STEEPEST SLOPE ON ROAD:</p> <input checked="" type="checkbox"/> 0 to 100 ft. <input type="checkbox"/> 101 to 200 ft. <input type="checkbox"/> 201 to 400 ft. <input type="checkbox"/> greater than 400 ft.
<p>28. GRADING AND EROSION CONTROL PRACTICE ON ROAD:</p> <input checked="" type="checkbox"/> Diversions <input type="checkbox"/> Filter strips <input type="checkbox"/> Drains <input type="checkbox"/> Riprap <input type="checkbox"/> Open top culverts <input type="checkbox"/> Water breaks <input type="checkbox"/> Outsloping of road <input type="checkbox"/> Pipe culverts <input type="checkbox"/> Proposed alternative _____	<p>31. HAS LANDOWNER RECEIVED A COPY OF THIS RESTORATION PLAN?</p> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

The undersigned hereby agrees to implement all restoration operations identified on this form, and conform to all provisions of Section 1509.072 of the Ohio Revised Code, and to all Orders and rules issued by the Chief, Division of Oil and Gas Resources Management.

Signature of Owner/Authorized Agent Raymond C. Pander, President

Name (Typed or Printed) RAYMOND C. PANDER Date JUNE 4, 2012

RESTORATION PLAN MUST BE SUBMITTED TO THE DIVISION IN DUPLICATE.