



FILE NO. \_\_\_\_\_  
 DRAWING NO. \_\_\_\_\_  
 SCALE 1" = 500'  
 MINIMUM DEGREE OF ACCURACY 1/200  
 PROVEN SOURCE OF ELEVATION Top of Knob N-E of Location ELEV. = 1337'

I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF MINES.  
 (SIGNED) Mark C. Echard  
 MARK C. ECHARD  
 R.P.E. \_\_\_\_\_ L.L.S. 490

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS  
 FORM IV-6 (8-78)



STATE OF WEST VIRGINIA  
 DEPARTMENT OF MINES  
 OIL AND GAS DIVISION

DATE APRIL 12 1983  
 OPERATOR'S WELL NO. ONE - "A"  
 API WELL NO. 47 - 017 - 3218  
 STATE COUNTY PERMIT

JUN 10 1983

WELL TYPE: OIL  GAS  LIQUID INJECTION  WASTE DISPOSAL   
 (IF "GAS," ) PRODUCTION  STORAGE  DEEP  SHALLOW   
 LOCATION: ELEVATION 1240' WATER SHED BEAR FORK  
 DISTRICT COVE COUNTY DOBDRIDGE  
 QUADRANGLE OXFORD 7.5' Halbreak 15' EC ACREAGE 20 of 117.25  
 SURFACE OWNER COASTAL LUMBER CO. LEASE ACREAGE 20 of 117.25  
 OIL & GAS ROYALTY OWNER L.K. MATHENY LEASE NO. \_\_\_\_\_

PROPOSED WORK: DRILL  CONVERT  DRILL DEEPER  REDRILL  FRACTURE OR STIMULATE  PLUG OFF OLD FORMATION  PERFORATE NEW FORMATION  OTHER PHYSICAL CHANGE IN WELL (SPECIFY) \_\_\_\_\_

PLUG AND ABANDON  CLEAN OUT AND REPLUG \_\_\_\_\_  
 TARGET FORMATION ALEXANDER ESTIMATED DEPTH 5290'  
 WELL OPERATOR GENE STALNAKER, INC. DESIGNATED AGENT GENE STALNAKER, INC.  
 P.O. BOX 178 - 220 W. MAIN ST. ADDRESS P.O. BOX 178 - 220 W. MAIN ST.

6-6 133

PLACE SEAL HERE



Date November 25, 1983  
 Operator's Well No. #1a  
 State of West Virginia  
 Department of Offices  
Oil and Gas Division  
 Farm Matheny  
 API No. 47 - 0#7 - 3218

WELL OPERATOR'S REPORT  
OF

DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

WELL TYPE: Oil X / Gas X / Liquid Injection / Waste Disposal /  
 (If "Gas," Production / Underground Storage / Deep X / Shallow /)

LOCATION: Elevation: 1240' Watershed Bear Run  
 District: Cove County Doddridge Quadrangle Auburn

COMPANY Tri-Don, Inc.  
 ADDRESS P.O. Box 83, Harrisville, WV 26362  
 DESIGNATED AGENT A. D. Steed  
 ADDRESS Box 83, Harrisville, WV 26362  
 SURFACE OWNER Coastal Lumber Co.  
 ADDRESS Buckhannon, WV 26201  
 MINERAL RIGHTS OWNER L. K. Matheny  
 ADDRESS Troy, WV

OIL AND GAS INSPECTOR FOR THIS WORK Stephen Casey  
 ADDRESS Jane Lew, WV  
 PERMIT ISSUED 5/17/83  
 DRILLING COMMENCED 11/6/83  
 DRILLING COMPLETED 11/13/83  
 IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED ON

Casing Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft.
Size 20-16 Cond.			
13-10"			
9 5/8			
8 5/8	1355'	1355'	to surface
7			
5 1/2			
4 1/2	5304'	5304'	2988' cement fill up
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Devonian Shale Depth 2988 feet  
 Depth of completed well 5304 feet Rotary X / Cable Tools  
 Water strata depth: Fresh 170 feet; Salt n/a feet  
 Coal seam depths: n/a Is coal being mined in the area? no

OPEN FLOW DATA

Producing formation Warren, Alexander Pay zone depth 1492 feet  
 Gas: Initial open flow 285,000 Mcf/d Oil: Initial open flow Show Bbl/d  
 Final open flow (285,000) Mcf/d Final open flow Show Bbl/d  
 Time of open flow between initial and final tests 4 hours  
 Static rock pressure 1525 psig (surface measurement) after 24 hours shut in  
 (If applicable due to multiple completion--)  
 Second producing formation Pay zone depth \_\_\_\_\_ feet  
 Gas: Initial open flow \_\_\_\_\_ Mcf/d Oil: Initial open flow \_\_\_\_\_ Bbl/d  
 Final open flow \_\_\_\_\_ Mcf/d Oil: Final open flow \_\_\_\_\_ Bbl/d  
 Time of open flow between initial and final tests \_\_\_\_\_ hours  
 Static rock pressure \_\_\_\_\_ psig (surface measurement) after \_\_\_\_\_ hours shut in

DEC 17 1984 (Continue on reverse side)

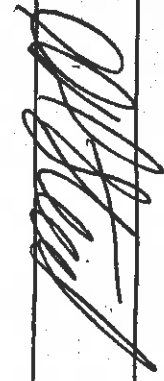
DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC.

Alexander	4970'	4382'	4198'	Warren	3544'
Speechley	4968'	4380'	4196'	3732'	3520'
	4966'	4362'		3730'	3518'
Riley	4666'	4360'		3726'	3490'
	4664'	4344'	Frac plug at 3854'	3724'	3488'
	4662'	4342'		3692'	3486'
	4644'	4312'		3638'	3480'
	4642'	4310'	2 stage frac	3598'	3476'
	4490'	4308'	48 shots	3580'	
Balltown	4236'	4970' - 3476'		3508'	
	4234'			3576'	
	4232'	1492 feet		3552'	
			WELL LOG	3550'	
				3548'	

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
Soil			0	10	
Red rock and silt			10	325	Silty Sand
Sand			325	364	Gordon Stray
Red rock and slate			364	715	Gordon
Shale			715	804	Shale
Sand			804	990	Silty Sand
Shale			990	1020	Shale
Red rock and slate			1020	1100	Silty Sand
Sand			1100	1180	Shale
Slate			1180	1240	Silty Sand
Sand			1240	1305	1st Warren
Shale			1305	1435	Silty Sand
Sand			1435	1520	2nd Warren
Shale			1520	1605	Shale
Red rock			1605	1685	Silty Sand
Shale			1685	1747	Shale
Sand			1747	1865	Clarenoon
Shale			1865	1945	Shale
Sand			1945	2075	Speechley
Slate			2075	2155	Silty Sand
Shale			2155	2250	Balltown
Sand			2250	2326	Shale
Lime			2326	2350	1st Riley
Injun Sand			2350	2410	Silty Sand
Shale			2410	2550	2nd Riley
Silty Sand			2550	2612	Shale
Weir Sand			2612	2620	Silty Sand
Shale			2620	2700	Shale
Gantz Sand			2700	2732	Sand
Shale			2732	2750	Alexander
Silty Sand			2750	2765	Shale
5th Sand			2765	2800	Total Depth
Silty Sand			2800	2832	
Shale			2832	2844	
Silty Sand			2844	2870	
Berea Sand			2870	2910	
Silty Sand			2910		
Shale					

(Attach separate sheets as necessary)

Tri-Don, Inc.  
 Well Operator  
 By: A. D. Steed, Agent  
 Date: 11/25/83



Note: Regulation 2.02(i) provides as follows:  
 "The term 'log' or 'well log' shall mean a  
 detailed geological record of all formations, in  
 which, encountered in the drilling of a well."

5304



1) Date: Nov 17, 1983  
 2) Operator's Well No. \_\_\_\_\_  
 3) API Well No. 47 State \_\_\_\_\_ County \_\_\_\_\_ Permit \_\_\_\_\_

STATE OF WEST VIRGINIA  
 DEPARTMENT OF MINES, OIL AND GAS DIVISION  
 OIL AND GAS WELL PERMIT APPLICATION

4) WELL TYPE: A Oil \_\_\_\_\_ / Gas \_\_\_\_\_ / Production \_\_\_\_\_  
 B (If "Gas", Production \_\_\_\_\_) Underground storage \_\_\_\_\_ / Deep \_\_\_\_\_ / Shallow \_\_\_\_\_  
 5) LOCATION: Elevation: \_\_\_\_\_ Watershed: \_\_\_\_\_  
 District: \_\_\_\_\_ County: \_\_\_\_\_ Quadrangle: \_\_\_\_\_

6) WELL OPERATOR \_\_\_\_\_  
 Address \_\_\_\_\_  
 11) DESIGNATED AGENT \_\_\_\_\_  
 Address \_\_\_\_\_

7) OIL & GAS ROYALTY OWNER \_\_\_\_\_  
 Address \_\_\_\_\_  
 12) COAL OPERATOR \_\_\_\_\_  
 Address \_\_\_\_\_

8) SURFACE OWNER \_\_\_\_\_  
 Address \_\_\_\_\_  
 13) COAL OWNER(S) WITH DECLARATION ON RECORD:  
 Name \_\_\_\_\_  
 Address \_\_\_\_\_

9) FIELD SALE (IF MADE) TO: \_\_\_\_\_  
 Address \_\_\_\_\_  
 Name \_\_\_\_\_  
 Address \_\_\_\_\_

10) OIL & GAS INSPECTOR TO BE NOTIFIED \_\_\_\_\_  
 Name \_\_\_\_\_  
 Address \_\_\_\_\_  
 14) COAL LESSEE WITH DECLARATION ON RECORD:  
 Name \_\_\_\_\_  
 Address \_\_\_\_\_

15) PROPOSED WORK: Drill \_\_\_\_\_ / Drill deeper \_\_\_\_\_ / Redrill \_\_\_\_\_ / Fracture or stimulate \_\_\_\_\_  
 Plug off old formation \_\_\_\_\_ / Perforate new formation \_\_\_\_\_  
 Other physical change in well (specify) \_\_\_\_\_

16) GEOLOGICAL TARGET FORMATION, \_\_\_\_\_  
 17) Estimated depth of completed well, \_\_\_\_\_ feet  
 18) Approximate water strata depths: Fresh, \_\_\_\_\_ feet; salt, \_\_\_\_\_ feet.  
 19) Approximate coal seam depths: \_\_\_\_\_ Is coal being mined in the area? Yes \_\_\_\_\_ No \_\_\_\_\_

20) CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS			FOOTAGE INTERVALS		PACKERS
	Size	Grade	Weight per ft.	For drilling	Left in well	
Conductor	13 3/8"	Grade	10.5	60'		Kinds
Fresh water						Sizes
Coal						Depths set
Intermediate						Perforations:
Production						Top
Tubing						Bottom
Liners						

21) EXTRACTION RIGHTS  
 Check and provide one of the following:  
 Included is the lease or leases or other continuing contract or contracts by which I hold the right to extract oil or gas.  
 The requirement of Code 22-4-1-(c) (1) through (4). (See reverse side for specifics.)

22) ROYALTY PROVISIONS  
 Is the right to extract, produce or market the oil or gas based upon a lease or other continuing contract or contracts providing for flat well royalty or any similar provision for compensation to the owner of the oil or gas in place which is not inherently related to the volume of oil or gas so extracted, produced or marketed? Yes  No   
 If the answer above is No, nothing additional is needed. If the answer is Yes, you may use Affidavit Form IV-60.  
 23) Required Copies (See reverse side.)

24) Copies of this Permit Application and the enclosed plat and reclamation plan have been mailed by registered mail or delivered by hand to the above named coal operator, coal lessee(s), and coal lessee on or before the day of the mailing or delivery of this Permit. Application to the Department of Mines at Charleston, West Virginia.  
 Notary: \_\_\_\_\_ Signed: \_\_\_\_\_  
 My Commission Expires \_\_\_\_\_ Its: \_\_\_\_\_

OFFICE USE ONLY  
 DRILLING PERMIT

Permit number \_\_\_\_\_ Date \_\_\_\_\_  
 This permit covering the well operator and well location shown below is evidence of permission granted to drill in accordance with the pertinent legal requirements subject to the conditions contained herein and on the reverse hereof. **Notification is required to the District Oil and Gas Surveyor in the proper district 30 days prior to the commencement of such location permitted work has commenced.**  
 Permit expires JANUARY 31, 1984 unless drilling is commenced prior to that date and prosecuted with due diligence.

Bond:	Agent:	Plat:	Casing:	Fee:

Administrator, Office of Oil and Gas

NOTE: Keep one copy of this permit posted at the drilling location.

Line Item Explanation

- 1) Date of Application
- 2) Your well name and number
- 3) To be filled out by office of oil & gas
- 4A) "Oil" means natural crude oil or petroleum and other hydrocarbons, regardless of gravity, which are produced at the well in liquid form by ordinary production methods and which are not the result of condensation of gas after it leaves underground reservoirs: "Gas" means all natural gas and all other fluid hydrocarbons not defined as oil.
- 4B) "Shallow well" means any well drilled and completed in a formation above the top of the uppermost member of the "Onondaga Group" or a depth less than six thousand feet, whichever is shallower.  
"Deep well" means any well drilled and completed in a formation at or below the top of the uppermost member of the "Onondaga Group" or at a depth less than six thousand feet, whatever is shallower.
- 5) Where well is located
- 6) Before a permit can be issued in a corporation, company partnership, or fictitious name, the name must be registered with the Secretary of State Office
- 7) Use separate sheet if necessary
- 8) Present surface owner at time application is filed.
- 9) Optional
- 11) See Reg. 7.01 relating to code §22-4-1k
- 12) "Coal Operator" means any persons, firm, partnership, partnership association or corporation that proposes to or does operate a coal mine. See Note 24
- 13 & 14) As per §22-4-20; See Note 24
- 15) Work that will be attempted—A separate Form IV-2 shall not be required for fracturing or stimulating a well where fracturing or stimulating is to be part of the work for which a permit is sought and is noted as such on the Form IV-2 filed in connection therewith.
- 16) Anticipated formation for which well will be completed
- 17) Self explanatory
- 18) Depth to deepest freshwater, and shallowest salt water, taken from nearby wells corrected for differences in elevation
- 19) All coal seam depths
- 20) Proposed casing program and cementing refer to Code 22-4-5, 22-4-6, 22-4-7, 22-4-8, 22-4-8a Reg 9.01, 15.01, 15.02, 15.03, 15.04, 25.01, 25.02, 25.03, 25.04
- 21) Code 22-4-11(c) - In lieu of filing the lease or leases or other continuing contract or contracts, the applicant for a permit described herein may file the following:
  - (1) A brief description of the tract of land including the district and county wherein the tract is located;
  - (2) The identification of all parties to all leases or other continuing contractual agreements by which the right to extract, produce or market the oil or gas is claimed;
  - (3) The book and page number wherein each such lease or contract by which the right to extract, produce or market the oil or gas is recorded;
  - (4) A brief description of the royalty provisions of each such lease or contract.
- 22) Code 22-4-11(d) and 22-4-11(e).
- 23) Regulation 7.02 of the Department of Mines provides that the original and four copies of Form IV-2 must be filed with the Department, accompanied by (i) a plat in the form prescribed by Regulation 11, (ii) a bond in one of the forms prescribed by Regulation 12, or in lieu thereof the other security allowed by Code §22-4-2, (iii) Form IV-9, "Reclamation Plan", applicable to the reclamation required by Code §22-4-12b and Regulation 23, (iv) unless previously paid on the same well, the fee required by Code §22-4-12a, and (v) if applicable, the consent required by Code §22-4-8a from the owner of any water well or dwelling within 200 feet of the proposed well.
- 24) **The above named coal operator, coal owner(s), and coal lessee are hereby notified that any objection they wish to make or are required to make by Code §22-4-3 must be filed with the Department of Mines within fifteen (15) days after the receipt of this Application by the Department.**

.....  
The following waiver must be completed by the coal operator and by any coal owner or coal lessee who has recorded a declaration under Code 22-4-20, if the permit is to be issued within fifteen (15) days of receipt thereof.

WAIVER

The undersigned coal operator \_\_\_\_\_ / owner \_\_\_\_\_ / lessee \_\_\_\_\_ / of the coal under this well location has examined this proposed well location. If a mine map exists which covers the area of the well location, the well location has been added to the mine map. The undersigned has no objection to the work proposed to be done at this location, provided, the well operator has complied with all applicable requirements of the West Virginia Code and the governing regulations.

Date: \_\_\_\_\_, 19\_\_\_\_ By \_\_\_\_\_  
Its \_\_\_\_\_