



FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 500'
 MINIMUM DEGREE OF ACCURACY 1/200
 PROVEN SOURCE OF ELEVATION INTERSECTION ROADS 4700' N.E. OF LOCATION, ELEV. = 939'

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.
Mark C. Echard
 (SIGNED) MARK C. ECHARD
 R.P.E. _____ L.L.S. 490

PLACE SEAL HERE

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



DATE MARCH 21, 1984
 OPERATOR'S WELL NO. ONE - A
 API WELL NO. 47 - 017 - 3305
 STATE COUNTY PERMIT

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION

WELL TYPE: OIL GAS LIQUID INJECTION _____ WASTE DISPOSAL _____
 (IF "GAS,") PRODUCTION STORAGE _____ DEEP _____ SHALLOW
 LOCATION: ELEVATION 1170' WATER SHED BEAR FORK
 DISTRICT SOUTHWEST COUNTY DODDRIDGE
 QUADRANGLE OXFORD 7.5' 584 Halbrook 15' EC 6
 SURFACE OWNER HOWARD HERRINGTON 058 ACREAGE 118.19
 OIL & GAS ROYALTY OWNER F.C. SPURGEON, ET AL. LEASE ACREAGE 118.19
 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 5900'
 WELL OPERATOR FOX DRILLING CO. 303 DESIGNATED AGENT ROBERT E. FOX
 ADDRESS P.O. BOX 129 ADDRESS P.O. BOX 129
 GLENVILLE, W.V. 26351 GLENVILLE, W.V. 26351

APR 16 1984



IV-35
(Rev 8-81)

Date May 23, 1984
Operator's
Well No. #2A
Farm Spurgeon
API No. 47 - 017 - 3305

State of West Virginia
Department of Mines
Oil and Gas Division

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: 1170' Watershed Bear Fork
District: Southwest County Doddridge Quadrangle Oxford

COMPANY Tri-Don, Inc.
ADDRESS Box 83, Harrisville, WV 26362
DESIGNATED AGENT A.D. Steed
ADDRESS Box 83, Harrisville, WV 26362
SURFACE OWNER Howard Herrington
ADDRESS RFD 1, New Milton, WV
MINERAL RIGHTS OWNER F.C. Spurgeon
ADDRESS 1216 23rd St. Parkersburg, WV 26101
OIL AND GAS INSPECTOR FOR THIS WORK Mike
Underwood ADDRESS Salem, WV
PERMIT ISSUED 4/10/84
DRILLING COMMENCED 4/28/84
DRILLING COMPLETED 5/2/84
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 Cord.			
13-10"			
9 5/8			
8 5/8	922'	922'	to surf
.7			
5 1/2			
4 1/2	5358'	5358'	3274'
.3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Devonian Shale Depth 3274 feet
Depth of completed well 5358 feet Rotary X / Cable Tools
Water strata depth: Fresh 80 feet; Salt n/a feet
Coal seam depths: n/a Is coal being mined in the area? No

OPEN FLOW DATA

Producing formation Alexander, Warren, Riley, Balltown Pay zone depth 3274 feet
Gas: Initial open flow 2.39 Mcf/d Oil: Initial open flow show Bbl/d
Final open flow 2.39 Mcf/d Final open flow show Bbl/d
Time of open flow between initial and final tests 4 hours
Static rock pressure 825 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

FOF
2,390 MCF
showed

(Continue on reverse side)

DEC 17 1984

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

FIRST STAGE OF PERFORATIONS

SECOND STAGE OF PERFORATIONS

Set plug at 4125'

Riley	Benson	
4476'	5164'	5202'
4478'	5166'	5204'
4480'	5168'	5206'
4482'	5172'	5208'
4484'	5174'	
4498'	5176'	<u>Alexander</u>
4500'	5178'	5246'
4502'	5188'	5248'
4504'	5190'	5250'
	5192'	
	5198'	

<u>1st Warren</u>	<u>Balltown</u>
3348'	3970'
3350'	3972'
3352'	3974'
3358'	
3360'	
3364'	
3366'	
3368'	
3370'	
3372'	
3374'	
3417'	
3419'	

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS	
					Including indication of all fresh and salt water, coal, oil and gas	
Soil			0	10	2nd Warren	3420 3470
R.R. & Slate			10	325	Shale	3470 3550
Silty Sand			325	364	Silty Sand	3550 3650
R.R. & Slate			364	715'	Shale	3650 3750
Silty Sand			715	807	Speechley	3750 3840
Shale			807	990	Balltown	3840 3868
Silty Sand			990	1020	Shale	3868 3925
R.R. & Slate			1020	1100	Silty Sand	3925 4115
Silty Sand			1100	1180	Shale	4115 4416
R.R. & Slate			1180	1240	Riley	4416 4424
Silty Sand			1240	1305	Shale	4424 4840
Shale			1305	1435	Benson	4840 4895
Silty Sand			1435	1520	Shale	4895 5242
Shale			1520	1575	<u>Alexander</u>	5242 5262
R.R.			1575	1605	Shale	5262 5358
Shale			1605	1685	Total Depth	5358'
Silty Sand			1685	1747		
Shale			1747	1818		
Silty Sand			1818	1990		
Lime			1990	2084		
Big Injun			2084	2134		
Shale			2134	2160		
Silty Sand			2160	2170		
Shale			2170	2239		
Weir			2239	2276		
Shale			2276	2315		
Silty Sand			2315	2320		
Gantz			2320	2410		
Gordon			2410	2465		
Silty Sand			2465	2560		
Shale			2560	2630		
Silty Sand			2630	2770		
Shale			2770	2830		
Silty Sand			2830	2905		
Shale			2905	3020		
Silty Sand			3020	3110		
Shale			3110	3284		
1st Warren			3284	3330		
Shale			3330	3420		

Same as Permit # 3222

(Attach separate sheets as necessary)

Tri-Don, Inc.

Well Operator

By:

A.D. Steed

Date:

5/23/84

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



1) Date: 21 March, 19 84
 2) Operator's Well No. Spurgeon 1-A
 3) API Well No. 47 - 017 - 3305
 State: _____ County: _____ Permit: _____

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES, OIL AND GAS DIVISION

APPLICATION FOR A WELL WORK PERMIT

- 4) WELL TYPE: A Oil XXX / Gas XXX /
 B (If "Gas", Production XXX / Underground storage DEPT Deep DEPT / Shallow XXX)
 5) LOCATION: Elevation: 1170' Watershed: Bear Fork
 District: Southwest County: Doddridge Quadrangle: Oxford 7.5
 6) WELL OPERATOR Fox Drilling Co., Inc. 7) DESIGNATED AGENT Robert E. Fox
 Address P.O. Box 129 Address P.O. Box 129
Glenville, WV 26351 Glenville, WV 26351
 8) OIL & GAS INSPECTOR TO BE NOTIFIED 9) DRILLING CONTRACTOR:
 Name Stephen Casey (504) Name Fox Drilling Co., Inc.
 Address P.O. Box 237-D Address P.O. Box 129
Jane Lew, WV 26378 Salem, W.V. Glenville, WV 26351
 10) PROPOSED WELL WORK: Drill XXX / Drill deeper _____ / Redrill _____ / Stimulate XXX /
 Plug off old formation _____ / Perforate new formation _____
 Other physical change in well (specify) _____
 11) GEOLOGICAL TARGET FORMATION, Alexander
 12) Estimated depth of completed well, 5900' feet
 13) Approximate strata depths: Fresh, 80' feet; salt, _____ feet.
 14) Approximate coal seam depths: N/A Is coal being mined in the area? Yes _____ / No XXX

15) CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS					FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS
	Size	Grade	Weight per ft.	New	Used	For drilling	Left in well		
Conductor	11 3/4			X		40'	40'	to Surf	Kinds
Fresh water									
Coal									Sizes
Intermediate	8 5/8	CW	23	X		1000'	1000'	Slurry 61 to surface	Depths set
Production	4 1/2	ERW	10.5	X			5900'	800 sks	Depths set
Tubing									or as req. by rule 15.01
Liners									Perforations:
									Top Bottom

FOR MAY RUN SLURRY 61 ON SURFACE STRING - PER CAUSE NO 46, ORDER NO. 1 - entered 9/23/83

OFFICE USE ONLY
DRILLING PERMIT

Permit number 47-017-3305

April 10, 19 84
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 must be given to the District Oil and Gas Inspector. (Refer to No. 8) Prior to the construction of roads, locations and pits for any permitted work. In addition, the well operator or his contractor shall notify the proper district oil and gas inspector 24 hours before actual permitted work has commenced.)

The permitted work is as described in the Notice and Application, plat, and reclamation plan, subject to any modifications and conditions specified on the reverse hereof.

Permit expires April 10, 1986 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond: <u>PP</u>	Agent: <u>✓</u>	Plat: <u>✓</u>	Casing: <u>MH</u>	Fee: <u>8971</u>
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Margaret J. Hill
Administrator, Office of Oil and Gas

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