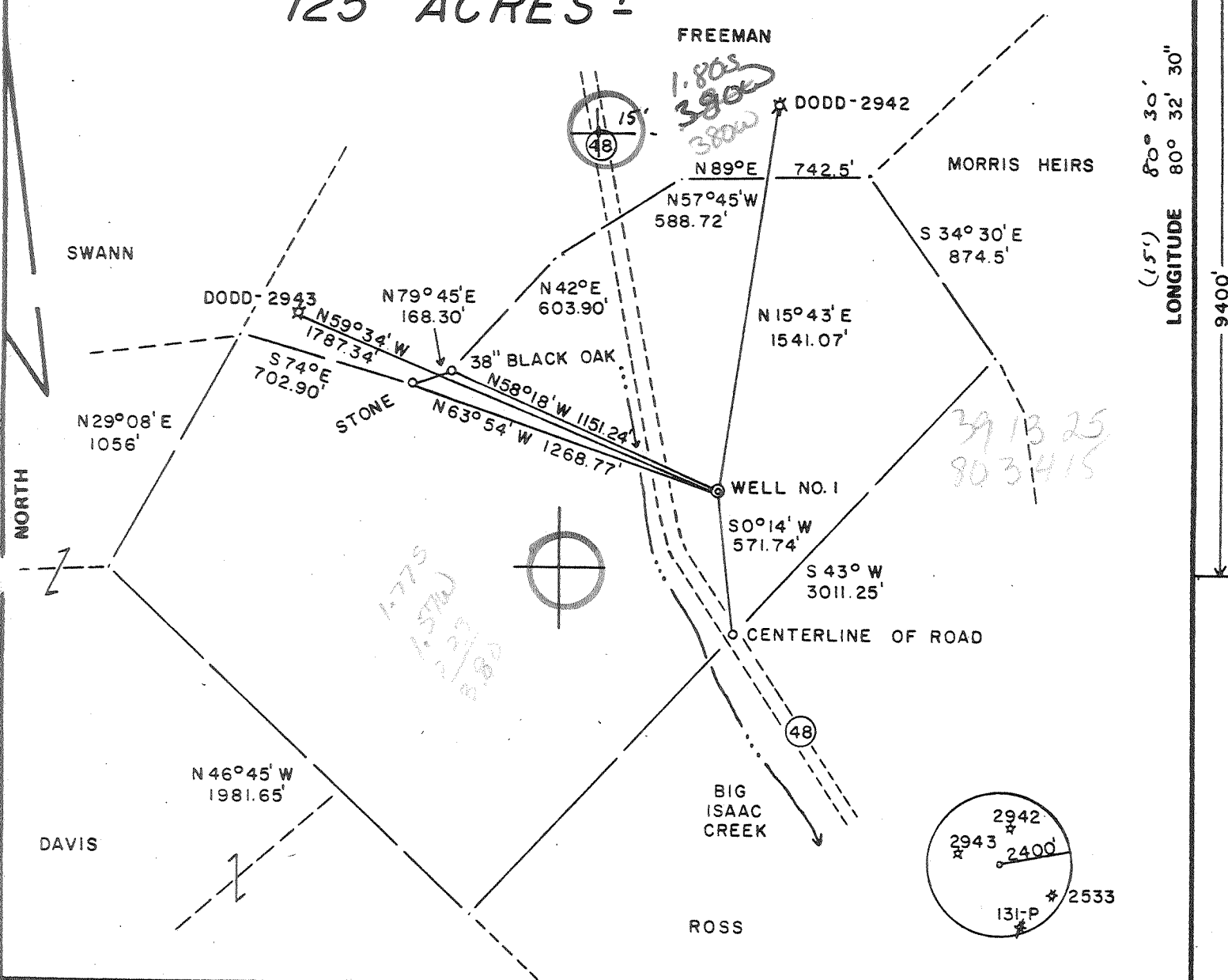


RICHARDS WELL NO. 1

125 ACRES ±



LONGITUDE 80° 32' 30"

9400'

FILE NO. 5-33
 DRAWING NO. _____
 SCALE 1" = 600'
 MINIMUM DEGREE OF ACCURACY 1/200
 PROVEN SOURCE OF ELEVATION JUNCTION OF ROADS
 ELEV. 1051'

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) Gregory A. Smith
 R.P.E. _____ L.L.S. 677

PLACE SEAL HERE

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



DATE NOVEMBER 18, 1981
 OPERATOR'S WELL NO. 98-S
 API WELL NO. _____
47 - 017 - 3064
 STATE COUNTY PERMIT

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION

WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___
 (IF "GAS,") PRODUCTION X STORAGE ___ DEEP ___ SHALLOW X
 LOCATION: ELEVATION 1189' WATER SHED BIG ISAAC CREEK
 DISTRICT GREENBRIAR COUNTY DODDRIDGE
 QUADRANGLE BIG ISAAC 7.5 Uadis 15' BE
 SURFACE OWNER JOHN K. DAVIS ACREAGE 125
 OIL & GAS ROYALTY OWNER Wm. E. Richards et al. LEASE ACREAGE 125
 LEASE NO. _____
 PROPOSED WORK: DRILL X 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 ELK ESTIMATED DEPTH 5400' MEATHOUSE FX
 WELL OPERATOR STONEWALL GAS DESIGNATED AGENT R. DENNIS XANDER
 ADDRESS P.O. BOX 225 ADDRESS P.O. BOX 225
CLARKSBURG, W.V. 26301 CLARKSBURG, W.V. 26301

DEC 23 1981
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DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC.

Formation	Perfs	Sand	Fluid	Av. Rate	Av Press	ISIP	BRKE
Alexander	5397-5402	70,000	595	28	2300	1600	2400
Benson	5046-5056	70,000	590	28	2250	1600	2800

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
					Including indication of all fresh and salt water, coal, oil and gas
Shale		Gr. S	2000	2100	
Big Lime		Br.	2100	2180	
Big Injun		Wh. H	2180	2265	
Shales		Gr. S	2265	2740	
Sand		Wh. H	2740	2890	Gas Show @ 2865
Shale & Silt		Gr. S	2890	5045	
Benson		Br. M	5045	5090	Gas Show @ 5050
Shale		Gr. S	5090	5335	
Siltstone		Br. M	5335	5455	Gas Show @ 5400
Shale		Gr.	5455	5574	
TD			5574		

(Attach separate sheets as necessary)

Stonewall Gas Company

Well Operator

By:

R. Dennis Xander

Date:

Vice President

02/15/82

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 those encountered in the drilling of a well."

PROPOSED WORK ORDER

THIS IS AN ESTIMATE ONLY:
ACTUAL INFORMATION MUST BE SUBMITTED ON FORM IV-35 UPON COMPLETION

DRILLING CONTRACTOR (IF KNOWN) Unknown
Address _____

GEOLOGICAL TARGET FORMATION, Elk

Estimated depth of completed well, 5400 feet Rotary X / Cable tools _____ /

Approximate water strata depths: Fresh, 90 feet; salt, 750 feet.

Approximate coal seam depths: 150' & 770' Is coal being mined in the area? Yes _____ / No X /

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		42		X	30'		NONE	Kinds
Fresh Water									
Intermediate	8 5/8	ERW	23	X		1350'	1350'	250 sacks or to fill up	Sizes
Production	4 1/2	ERW	10.5	X		5400'	5400'	540 sacks or as required	Depths set
Tubing								by rule 15.01	
Liners									Perforations:
									Top Bottom

NOTE: 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.

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.

THIS PERMIT MUST BE POSTED AT THE WELL SITE

All provisions being in accordance with Chapter 22, of the W. Va. Code, the location is hereby approved

for Drilling. This permit shall expire if operations have not commenced by 8-8-82


Deputy Director - Oil & Gas Division

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 _____