


FILE NO. _____
DRAWING NO. _____
SCALE 1" = 400'
MINIMUM DEGREE OF ACCURACY 1 PART IN 200
PROVEN SOURCE OF ELEVATION RD. FKS. BIG ISAAC TOPD 7.5
ELEVATION 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) Douglas P. Moots
R.P.E. 7002 L.L.S. _____

PLACE SEAL HERE

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS
FORM IV-6 (8-78)
WELL TYPE: OIL ___ GAS LIQUID INJECTION ___ WASTE DISPOSAL ___
(IF "GAS,") PRODUCTION STORAGE ___ DEEP ___ SHALLOW
LOCATION: ELEVATION 1255' WATER SHED WOLF PEN RUN
DISTRICT GREENBRIER COUNTY DODDRIDGE
QUADRANGLE BIG ISAAC TOPD 7.5 Wadis NE
SURFACE OWNER ARGILE FREEMAN ACREAGE 75.5 Ac.
OIL & GAS ROYALTY OWNER ARGILE FREEMAN LEASE ACREAGE 75.5 Ac.
LEASE NO. 329
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 2. FIFTH SAND 4. BENSON ESTIMATED DEPTH 2,300' 4,510'
WELL OPERATOR SCOTT OIL AND GAS DESIGNATED AGENT ROGER ZINN
ADDRESS P.D. BOX 112 SALEM, WEST VIRGINIA 26426 ADDRESS P.D. BOX 112 SALEM, WEST VIRGINIA 26426



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

DATE JANUARY 10th, 19 81
OPERATOR'S WELL NO. 5-335
API WELL NO. 47 - 017 - 2943
STATE COUNTY PERMIT

Operator's
Well No.

FORM 12-35
(Revised)

WELL OPERATOR'S REPORT
OF

API Well

108-78

DRILLING, REWORKING AND/OR STIMULATING OF THIS WELL CHANGE

2778
2743

TYPE: Oil / Gas X / Liquid Injection / Waste Disposal
 (If "Gas", Production X / Underground storage / Deep
 Elevation: 1255 Watershed: Wolf Run
 District: Greenbrier County: Doddridge Quadrangle: Big Isaac 7.5'

OPERATOR James F. Scott DESIGNATED AGENT
 Address P.O. Box 112 Address
Salem, W. Va. 26426

PERMITTED WORK: Drill X / Convert / Drill deeper / Re-drill /
 Plug off old formation / Perforate new formation /
 Other physical change in well (specify)

PERMIT ISSUED ON Jan. 13, 1981 OIL & GAS INSPECTOR FOR THIS WORK:
 Name Stephen Casey
 Address Rt. 2 Box 232 D
Jane Lew, W. Va. 26378

APPLICABLE: PLUGGING OF DRY HOLE OR CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED
 Name Stephen Casey
 Address Rt. 2 Box 232 D
Jane Lew, W. Va. 26378
 GEOLOGICAL TARGET FORMATION: Alexander Depth 5567 feet
 Depth of completed well, 5567 feet Rotary X / Cable Tools
 Water strata depth: Fresh, 469 feet; salt, feet.
 Coal seam depths: 105-109, 205-208, 287-290 Is coal being mined in the area? NO
 Work was commenced Jan. 27, 1981, and completed Feb. 2, 1981

CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS				FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS (Cable feet)	REMARKS
	Size	Grade	Weight per ft	New	Used	For drilling		
Conductor	11 3/4					30'		Steel
Fresh water								
Coal								Steel
Intermediate	8 5/8		20	X			910	to surface
Production	4 1/2		10.5	X			5567	365 sks. 2 1/2" set

OPEN FLOW DATA

Producing formation Benson; Alexander *see back* Pay zone depth 5118-5456 feet
 Gas: Initial open flow, show Mcf/d Oil: Initial open flow, 0 bbl/d
 Final open flow, 1391 Mcf/d Final open flow, 0 bbl/d
 Time of open flow between initial and final tests, 4 hours
 Static rock pressure, 1525 psig (surface measurement) after 38 hours shut in
 (If applicable due to multiple completions--)
 Second producing formation _____ Pay zone depth _____ feet
 Gas: Initial open flow, _____ Mcf/d Oil: Initial open flow, _____ bbl/d
 Final open flow, _____ Mcf/d 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

5/12/83

[00-78]

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

Perforations:

Benson - 5118-31 20 holes
Alexander 5457-63 5480-85 12 holes

WELL LOG

FORMATION	Color	Hard or Soft	Top Feet	Bottom Feet	Remarks Including indication of all gas and salt water, coal, oil and
Clay & Fill			0	5	
Shale & R. Rock			5	40	
Sand & Shale			40	105	
Coal			105	109	1/2 inch H2/O at 469
Sand & Shale			109	150	
Sand			150	205	
Coal			205	208	
Sand			208	287	
Coal			287	290	
Shale			290	317	
Sand & Shale			317	385	
R. Rock & Shale			385	438	
Sand & Shale			438	500	
Shale & R. Rock			500	800	
Sand & Shale			800	1335	
Shale			1335	1643	
Sand & Shale			1643	1921	
Shale			1921	2120	
Little Lime			2120	2150	
Shale			2150	2168	
B. Lime & Injun			2168	2325	
Sand & Shale			2325	2480	
Sand & Shale			2480	2965	
Shale			2965	3100	
Sand & Shale			3100	3385	
Sand & Shale			3385	4201	
Sand & Shale			4201	5100	
Benson			5100	5115	
Shale			5115	5480	
Alexander			5480	5510	
Shale			5510	5655	
Gamma Ray Log					
Big Lime-Big Injun			2176	2330	
Benson			5118	5132	
Alexander			5456	5486	

(Attach separate sheets if complete is necessary.)

James F. Scott
 Well Operator

By _____

Date _____

N.T.E. Regulation 2.02(f) provides as follows:
 "The term 'log' or 'well log' shall mean a systematic, detailed geological record of all formations, including coal, encountered in the drilling of a well."

[08-78]

OIL AND GAS WELL PERMIT APPLICATION

Operator's Well No. S-335

API Well No. 47 - 017 - 2943
State County Permit

WELL TYPE: Oil Gas

(If "Gas", Production / Underground storage / Deep / Shallow

LOCATION: Elevation: 1255

Watershed: Wolfpen Run

District: Greenbrier

County: Doddridge

Quadrangle: Big Isaac 7.5

WELL OPERATOR Scott Enterprises

DESIGNATED AGENT SAME

Address: P.O. Box 112
Salem, W. Va. 26426

Address: RECEIVED
JAN 13 1981

MINERAL & GAS INTERESTS
ROYALTY OWNER Argile Freeman

COAL OPERATOR

Address: 3643 W. Pasadena Ave.
Phoenix, Ariz. 85019
Acres: 75.5

Address: OIL & GAS DIVISION
DEPT. OF MINES

SURFACE OWNER Argile Freeman

COAL OWNER(S) WITH DECLARATION ON RECORD:

Address: 3643 W. Pasadena Ave.
Phoenix, Ariz. 85019

Name Willis G. Tetrick

Address Union-Bank Bldg.
Clarksburg, W. Va. 26301

ADDRESS

Name

Address

DEED SALE (IF MADE) TO:

Address

COAL LESSEE WITH DECLARATION ON RECORD:

Name Consolidation Coal Co.

Address P.O. Box 1314

& GAS INSPECTOR TO BE NOTIFIED

Morgantown, W. Va.

Name Steve Casey

Address Rt. 2

Jane Lew, W. Va.

The undersigned well operator is entitled to operate for oil or gas purposes at the above location under a deed / lease / other contract / dated Aug. 18, 1980, to the undersigned well operator from Argil Freeman and Hildren Freeman (said deed, lease, or other contract has been recorded):

dated Aug. 25, 1980, in the office of the Clerk of the County Commission of Doddridge County, West Virginia, in Book 116 at page 687. A permit to operate is as follows:

Drill / Drill deeper / Redrill / Fracture or stimulate / Perforate old formation / Perforate new formation / Other physical change in well (specify) _____

--- Planned or shown on the work order on the reverse side hereof.

The undersigned well operator, coal owner(s), and coal lessee are hereby notified that any change in ownership, interest, or other matters to be made by Code § 20-2-1 must be filed with the Department of Mines, Oil and Gas Division after the receipt of this Application by the Department.

This permit Application and the enclosed fee and declaration shall have been validly executed and returned to the above named well operator, coal owner(s), and coal lessee upon the delivery of this permit Application to the Department of Mines, Oil and Gas Division.

MINING AND OIL AND GAS DEPARTMENT
100 MARKET STREET EAST
CHARLESTON, WV 25301

BLANKET BOND

Well Operator

By: D. Edward Arnold
Contractor

[08-78]

PROPOSED WORK ORDER

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

DRILLING CONTRACTOR (IF KNOWN) S. W. Jack Drilling
Address Buckhannon, W. Va.

GEOLOGICAL TARGET FORMATION, Big Injun Ball Town Alexander
Fifth Sand Benson

Estimated depth of completed well, 5450 feet Rotary X / Cable tools /

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

Approximate coal seam depths: 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					30'			Kinds
Fresh water									
Coal									Sizes
Intermediate	8 5-8						800	to surface	
Production	4 1/2						5450	350 ⁵⁵⁰ sks.	Depths set
Tubing								<i>or as reqd</i>	
Liners								<i>by rule 15.0</i>	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 included 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 9-14-81.

J. H. Huzzey
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:

W A I V E R

The undersigned coal operator / owner / lessee X / 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.

of , 1981

Carroll Station Coal Co.
By Donald A. Burn
Its Senior Mining Engineer