

FILE NO. WHITNAM
 DRAWING NO. 1
 SCALE 1/200'
 MINIMUM DEGREE OF ACCURACY 1/200
 PROVEN SOURCE OF ELEVATION 618' @ ROAD INTERSECTION

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) Neal Hughes
 R.P.E. _____ L.L.S. 632

PLACE SEAL HERE

(+) 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

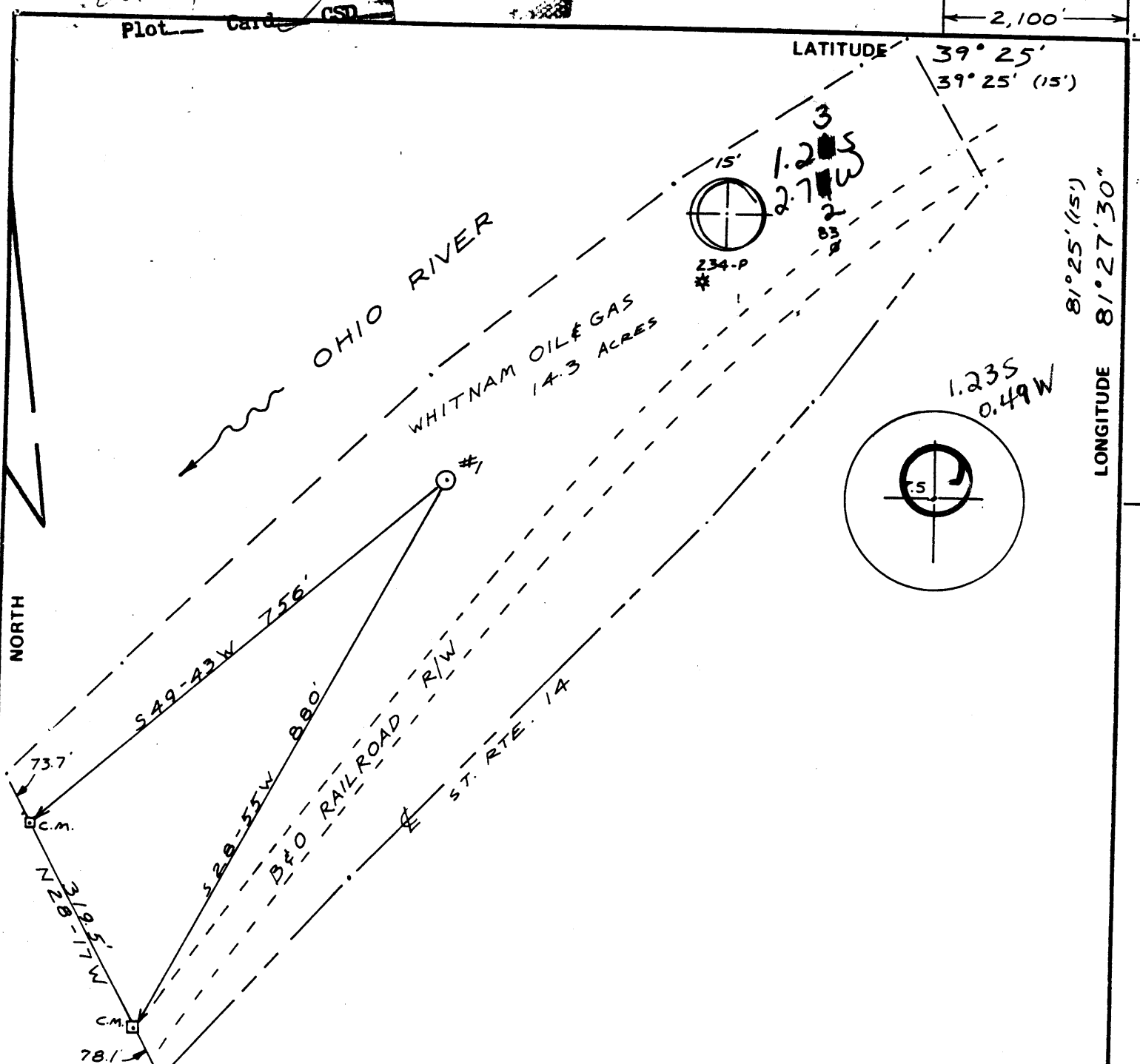
DATE NOV. 2, 19 81
 OPERATOR'S WELL NO. 1
 API WELL NO. 47-107-1185 DD
 STATE COUNTY PERMIT
Rev. Depth 2' pit

WELL TYPE: OIL GAS LIQUID INJECTION _____ WASTE DISPOSAL _____
 (IF "GAS,") PRODUCTION STORAGE _____ DEEP _____ SHALLOW _____
 LOCATION: ELEVATION 614' WATER SHED OHIO RIVER
 DISTRICT WILLIAMS COUNTY WOOD
 QUADRANGLE MARIETTA 7.5' 415 WC
 SURFACE OWNER WHITNAM OIL & GAS ACREAGE 14.3
 OIL & GAS ROYALTY OWNER WHITNAM OIL & GAS LEASE ACREAGE 14.3
 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 5th SAND ESTIMATED DEPTH 3000' - 41'
 WELL OPERATOR WHITNAM OIL & GAS CORP DESIGNATED AGENT JE WILLIAMS
 ADDRESS 100 FRONT ST MARIETTA, OH 45750 ADDRESS RT 1 BOX 41 LYNN, WV 26384

FEB 01 1982

Brailer 3-35 Boaz (37)



FILE NO. WHITNAM
 DRAWING NO. 1
 SCALE 1"=200'
 MINIMUM DEGREE OF ACCURACY 1/200
 PROVEN SOURCE OF ELEVATION 618' @ ROAD INTERSECTION

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) Neal Heigher
 R.P.E. _____ L.L.S. 632

PLACE SEAL HERE

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



DATE NOV. 2 1981
 OPERATOR'S WELL NO. 1
 API WELL NO. 47-107-1185
 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 614' WATER SHED OHIO RIVER
 DISTRICT WILLIAMS COUNTY WOOD
 QUADRANGLE MARIETTA T5.415WC
 SURFACE OWNER WHITNAM OIL & GAS ACREAGE 14.3
 OIL & GAS ROYALTY OWNER WHITNAM OIL & GAS LEASE ACREAGE 14.3
 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 5TH SAND ESTIMATED DEPTH 3000'
 WELL OPERATOR WHITNAM OIL & GAS CORP DESIGNATED AGENT JE WILLIAMS
 ADDRESS 100 FRONT ST MARIETTA, OH 45750 ADDRESS RT 1 BOX 41 LYNN, WV 26384

DEC 4 1981



IV-35
(Rev 8-81)

State of West Virginia
Department of Mines
Oil and Gas Division

Date July 20, 1982

Operator's Well No. 1

Farm WHITNAM

API No. 47 - 107 - 1185
? DD

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 ___ / Shallow ___ /)

LOCATION: Elevation: 614 Watershed Ohio River
District: Williams County Wood Quadrangle Marietta 7.5'

COMPANY WHITNAM OIL & GAS CORPORATION
ADDRESS P. O. Box 719, Marietta, OH 45750
DESIGNATED AGENT John E. Williams
ADDRESS Rt. #1, Box 41, Linn, WV 26384
SURFACE OWNER Whitnam Oil & Gas Corporation
ADDRESS P. O. Box 719, Marietta, OH 45750
MINERAL RIGHTS OWNER Same
ADDRESS _____
OIL AND GAS INSPECTOR FOR THIS WORK Deo Mace
Rt. 1, Box 5
ADDRESS Sandridge, WV 25274
PERMIT ISSUED 11/9/81
DRILLING COMMENCED 11/13/81 Drilled Deeper 1/24/82
DRILLING COMPLETED 11/26/81 2/2/82
IF APPLICABLE: PLUGGING OF DRY HOLE ON
CONTINUOUS PROGRESSION FROM DRILLING OR
REWORKING. VERBAL PERMISSION OBTAINED
ON _____

Casing & Tubing Size 20-16 Cond.	Used in Drilling	Left in Well	Cement fill up Cu. ft.
11 3/4 13-10"	38		
9 5/8			
8 5/8	831	831	200
7			
5 1/2			
4 1/2	3007	3007	280
3			
2 7/8		2959	
Liners used			

GEOLOGICAL TARGET FORMATION Devonian Shale Depth 1846-4000 feet
Depth of completed well 4010 feet Rotary X / Cable Tools _____
Water strata depth: Fresh N/A feet; Salt _____ feet
Coal seam depths: N/A Is coal being mined in the area? N

OPEN FLOW DATA

Producing formation Gordon Pay zone depth 2170-2185 feet
Gas: Initial open flow _____ Mcf/d Oil: Initial open flow _____ Ebl
Final open flow 50 Mcf/d Oil: Final open flow _____ Ebl
Time of open flow between initial and final tests _____ hours

Static rock pressure 350 psig (surface measurement) after 120 hours shut
(If applicable due to multiple completion--)
Second producing formation Devonian Shale Pay zone depth 3000-4000 feet
Gas: Initial open flow _____ Mcf/d Oil: Initial open flow _____ Ebl
Final open flow 1500 Mcf/d Oil: Final open flow _____ Ebl
Time of open flow between initial and final tests _____ hours
Static rock pressure 870 psig (surface measurement) after 48 hours shut

FOP
1550
MCP

NOV 21 1982

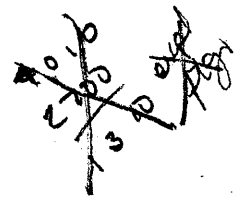
DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC.

Perforate @ 2174'-2184' Gordon 40 holes ●
 1 - 12' Stress Frac
 Frac w/ 32,000 gal. Foam - 75 Quality
 Non commercial production

Open Hole - no perfs - 3000-4000' Huron
 Frac w/ 1,236 SCF N₂
 Breakdown 2800 psi
 ISIP 1500 psi

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
					Including indication of all free and salt water, coal, oil and gas
Coffee Shale			1815	1844	
Berea			1844	1846	
Shale			1846	2170	
Gordon			2170	2186	
Shale			2186	TD	4010
NO INFORMATION 0' to 1815'				TD	1846
				Huron @	2164
				TD.	4010 2700 1310 expl ftg



(Attach separate sheets as necessary)

WHITNAM OIL & GAS CORPORATION
 Well Operator
 By: Robert S. Coates
 Robert S. Coates, Vice President, Operations
 Date: 9/14/82

Note: Regulation 2.02(i) provides as follows:
 "The term 'log' or 'well log' shall mean a systematic

OIL AND GAS WELL PERMIT APPLICATION

WELL TYPE: Oil / Gas /
(If "Gas", Production ___ / Underground storage ___ / Deep ___ / Shallow ___ /

LOCATION: Elevation: 614' Watershed: Ohio River

District: Williams County: Wood Quadrangle: Marietta 7.5'

WELL OPERATOR WHITNAM OIL & GAS CORPORATION DESIGNATED AGENT JOHN E. WILLIAMS
Address P. O. Box 719 Address Route 1, Box 41
Marietta, OH 45750 Linn, W. Va. 26384

OIL & GAS LEASE & GAS LEASEE OWNER WHITNAM OIL & GAS CORPORATION COAL OPERATOR N/A
Address P. O. Box 719 Address _____
Marietta, OH 45750

ACREAGE 14.3 COAL OWNER(S) WITH DECLARATION ON RECORD:
Name _____
Address _____
Name NOV - 9 1981
Address OIL AND GAS DIVISION WV DEPARTMENT OF MINES

FIELD SALE (IF MADE) TO:
Name _____
Address _____
COAL LESSEE WITH DECLARATION ON RECORD:
Name _____
Address _____

PERSONS AND GAS INSPECTOR TO BE NOTIFIED:
Name Deo Mace

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. 14, 1981, to the undersigned well operator from Richard H. Hoblitzell of said deed, lease or other contract has been recorded.)
Recorded on Aug. 17, 1981, in the office of the Clerk of the County Commission of Wood County, West Virginia, in Deed Book 759, at page 421. A permit is requested as follows:

PROPOSED WORK: Drill / Drill Deeper ___ / Redrill ___ / Fracture or stimulate ___ /
Plug off old formation ___ / Perforate new formation ___ /
Other physical change in well (specify) _____

BLANKET BOND

--planned as shown on the work order on the reverse side hereof.
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 Department. 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 owner(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.
WHITNAM OIL & GAS CORPORATION
[Signature]

PLEASE SUBMIT COPIES OF ALL PHYSICAL LOGS DIRECTLY TO: BLANKET BOND

PROPOSED WORK ORDER

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

DILLING CONTRACTOR (IF KNOWN) PAN EASTERN DRILLING
Address Route 2, Box 44AA
Lowell, Ohio 45744

GEOLOGICAL TARGET FORMATION, Fifth Sand

Estimated depth of completed well, 3000' feet Rotary X / Cable tools /
Approximate water strata depths: Fresh, 100 feet; salt, feet.
Approximate coal seam depths: Is coal being mined in the area? Yes / No X /

casing AND TUBING PROGRAM

Table with columns: CASING OR TUBING TYPE, SPECIFICATIONS (Size, Grade, Weight, New, Used), FOOTAGE INTERVALS (For drilling, Left in well), CEMENT FILL-UP OR SACKS (Cubic feet), PACKERS (Kinds, Sizes, Depths set, Rule 15.01, 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 7-12-82.

J. J. Murray
Deputy Director - Oil & Gas Division

Survey

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 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

Farm Name: Whitnam #1

REVISED

OIL AND GAS WELL PERMIT APPLICATION

API No. 47 - 107 1185
State County Perm

TYPE: Oil / Gas
(If "Gas", Production / Underground storage / Deep / Shallow)

WELL: Elevation: 614' Watershed: Ohio River

District: Williams County: Wood Quadrangle: Marietta 7.5'

OPERATOR WHITNAM OIL & GAS CORPORATION DESIGNATED AGENT JOHN E. WILLIAMS
Address P. O. Box 719 Address Route 1, Box 41
Marietta, Ohio 45750 Linn, W. Va. 26384

GAS OPERATOR WHITNAM OIL & GAS CORPORATION COAL OPERATOR N/A
Address P. O. Box 719 (100 Front St.) Address _____
Marietta, Ohio 45750

ACREAGE 14.3 COAL OWNER(S) WITH DECLARATION ON RECORD:
Name _____
Address _____

COAL OWNER (SAME) Name _____
Address _____
Name _____
Address _____

COAL LESSEE WITH DECLARATION ON RECORD:
Name _____
Address _____
Name _____
Address _____

RECEIVED

JAN 21 1982

OIL AND GAS DIVISION
WV DEPARTMENT OF MINES

IND. GAS INSPECTOR TO BE NOTIFIED:
Deo Mace

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. 14, 1981, to the undersigned well operator from Richard H. Hoblitzell (said deed, lease or other contract has been recorded:)

dated on Aug. 17, 1981, in the office of the Clerk of the County Commission of Wood County, West Virginia, in Deed Book 759 at page 421. A permit is requested as follows:

PROPOSED WORK: Drill / Drill Deeper / Redrill / Fracture or stimulate / Plug off old formation / Perforate new formation /

Other physical change in well (specify) _____

BLANKET BOND

--planned as shown on the work order on the reverse side hereof.

The above named coal operator, coal owner(s), and coal lessee are hereby notified that any action they wish to make or are required to make by Code 522-4-3 must be filed with the Department of Mines within fifteen (15) days after the receipt of this Application by Department. 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 owner(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.

WHITNAM OIL & GAS CORPORATION

PLEASE SUBMIT COPIES OF ALL PERMITS TO: _____

BLANKET BOND

BY: [Signature]

PROPOSED WORK ORDER

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

CONTRACTOR (IF KNOWN) PAN EASTERN DRILLING
Address Route 2, Box 44AA
Lowell, Ohio 45744

TARGET FORMATION, Devonian Shale (Brallier)
Estimated depth of completed well, 4000' feet Rotary Cable tools
Approximate water strata depths: Fresh, 100 feet; salt, feet.
Approximate coal seam depths: Is coal being mined in the area? Yes No

WELL TUBING PROGRAM

PIPE TYPE	SPECIFICATIONS				FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS	
	Size	Grade	Weight per ft	New	Used	For drilling			Left in well
	13 5/8			X			30'	15 Sx	Kinds
Center	8 5/8			X			1050'	To Surface	
									Sizes
Rate									
on	5 1/2		15.5	X			3000'	500 sx or as	Depths set
								Required by	Rule 15.01
									Perforations:
									Top Bottom

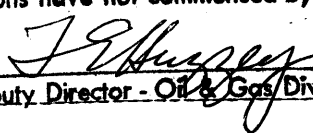
Regulation 7.02 of the Department of Mines provides that the original and four copies of Form IV-2 must be filed with the Department, accompanied by (i) a plat in the form prescribed by Regulation 11, (ii) a bond in one of the forms prescribed by Regulation 12, or in lieu hereof the other security allowed 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 100 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.

NOTE: Our intentions are to produce through open hole.

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 revising depth . This permit shall expire if operations have not commenced by 9-22-82.


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:

W A I V E R

The undersigned coal operator / owner / lessee / of the coal under this well has examined this proposed well location. If a mine map exists which covers the area of the location, the well location has been added to the mine map. The undersigned has no objection to 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.

By _____
Its _____