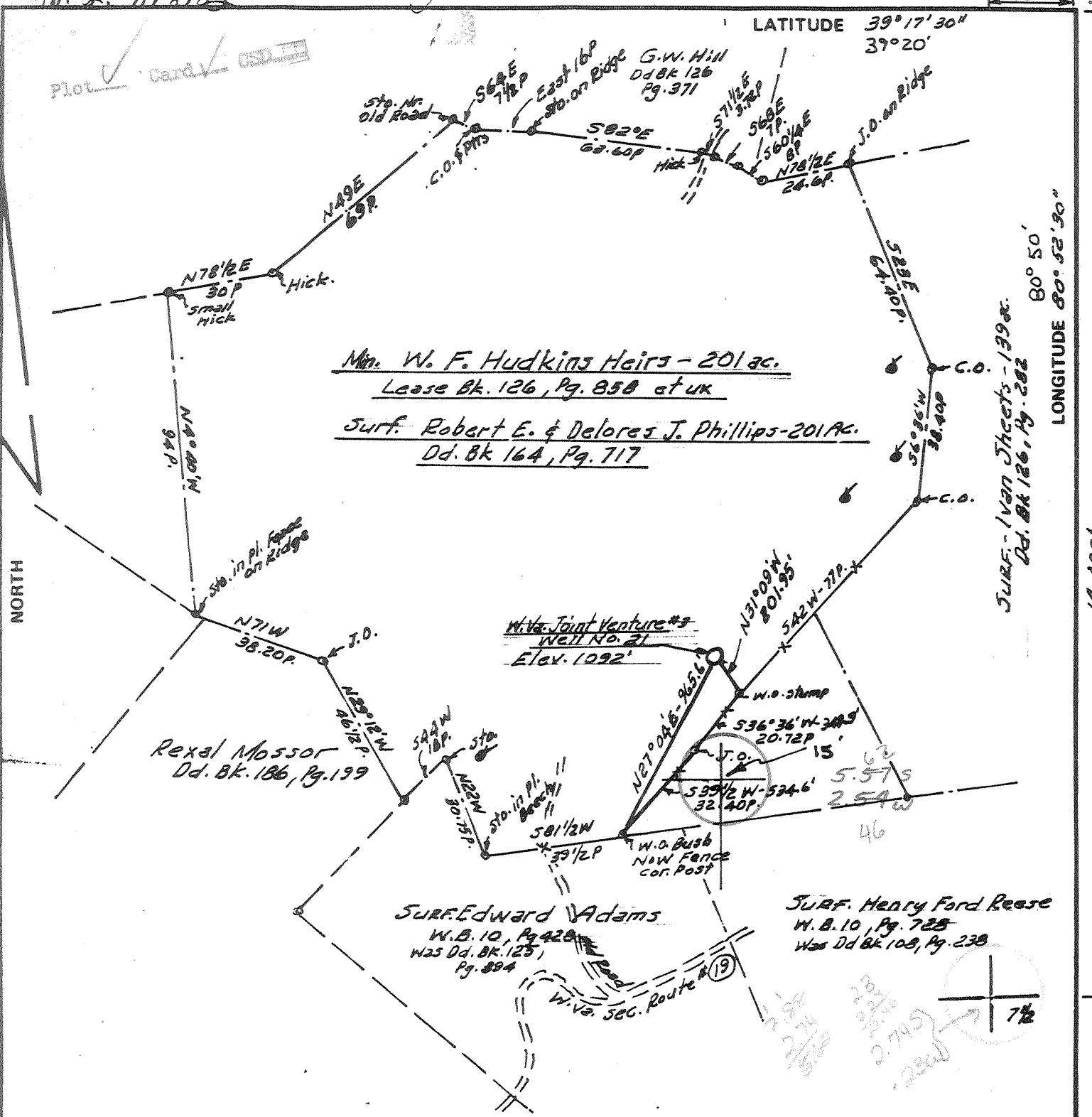


M.S. 111813

LATITUDE 39° 17' 30" 39° 20'

11200'

Plot ✓ Card ✓



Mr. W. F. Hudkins Heirs - 201 ac.
Lease Bk. 126, Pg. 858 et al

Surf. Robert E. & Delores J. Phillips - 201 ac.
Dd. Bk 164, Pg. 717

Rexal Mossor
Dd. Bk. 186, Pg. 199

W. Va. Joint Venture #3
Well No. 21
Elev. 1092'

Surf. Edward Adams
W.B. 10, Pg. 420
Was Dd. Bk. 125, Pg. 884

Surf. Henry Ford Reese
W.B. 10, Pg. 725
Was Dd Bk 108, Pg. 238

FILE NO. _____
DRAWING NO. _____
SCALE 1" = 660 Feet
MINIMUM DEGREE OF ACCURACY 1 in 200
PROVEN SOURCE OF ELEVATION 854 ft. - B.M. Elev. 854 - N. E. Cor. Pullman Tape Map

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) M. S. Mattingly
R.P.E. _____ L.L.S. No. 7

PLACE SEAL HERE

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION



DATE AUGUST 18, 1982
OPERATOR'S WELL NO. No. 21
API WELL NO. 47 - 017 - 3184
STATE COUNTY PERMIT

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS
WELL TYPE: OIL GAS LIQUID INJECTION _____ WASTE DISPOSAL _____
(IF "GAS,") PRODUCTION _____ STORAGE _____ DEEP _____ SHALLOW
LOCATION: ELEVATION 1092 ft. WATER SHED HUGHES RIVER
DISTRICT Central COUNTY Doddridge
QUADRANGLE Pennsboro 7 1/2 West Union 15' SC
SURFACE OWNER Robert E. Phillips ACREAGE 201 AC.
OIL & GAS ROYALTY OWNER W. F. Hudkins Heirs LEASE ACREAGE 201
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 WEIR ESTIMATED DEPTH 2400' 6-6, Greenwood (89)
WELL OPERATOR W. Va. Joint Venture #3 DESIGNATED AGENT Thomas J. Fluharty
ADDRESS 94 Valley Street ADDRESS 94 Valley Street
Salem, W. Va. Salem, W. Va.



State of West Virginia
DEPARTMENT OF ENERGY
Oil and Gas Division

Date 5-31-83
Operator's Well No. Hunkins #21
Farm 74 Hunkins
API No. 47-017-3184

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: 1092 Watershed _____
District: Central County Doddridge Quadrangle _____

COMPANY West Virginia Joint Ventures

ADDRESS _____

DESIGNATED AGENT Thomas F. Fluharty

ADDRESS Box 226 Salem W.V. 26426

SURFACE OWNER Robert Phillips

ADDRESS West Union W.V.

MINERAL RIGHTS OWNER Ry Hudkins Heirs

ADDRESS West Union W.V.

OIL AND GAS INSPECTOR FOR THIS WORK Steve Casey

ADDRESS Dane Lew

PERMIT ISSUED 9-7-82

DRILLING COMMENCED 5-20-83

DRILLING COMPLETED 5-25-83 ✓

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"	20'	20'	
9 5/8			
8 5/8	350'	350'	Surface
7			
5 1/2			
4 1/2	2400	2400	600ft.
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Weir Depth 2406 feet

Depth of completed well 2406 feet Rotary X / Cable Tools _____

Water strata depth: Fresh 100 feet; Salt 0 feet

Coal seam depths: None Is coal being mined in the area? No

OPEN FLOW DATA

Producing formation Weir Pay zone depth 2370 feet

Gas: Initial open flow 5000 Mcf/d Oil: Initial open flow 0 Bbl/d

Final open flow 10000 Mcf/d Final open flow 1 Bbl/d

Time of open flow between initial and final tests 12 hours

Static rock pressure 350 psig (surface measurement) after 12 hours shut in

(If applicable due to multiple completion--)

Second producing formation Fraser Pay zone depth 2175 feet

Gas: Initial open flow 5000 Mcf/d Oil: Initial open flow 0 Bbl/d

Final open flow 10000 Mcf/d Oil: Final open flow 1 Bbl/d

Time of open flow between initial and final tests 12 hours

Static rock pressure 550 psig (surface measurement) after 12 hours shut in

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

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
Red Clay			0	5	Fresh Water at 100 ft-
Sand			5	25	
Red Rock			25	85	
Sand			85	140	
Shale			140	280	
Red Rock			280	320	
Sand			320	370	
Red Rock			370	550	
Slate			550	680	
Red Rock			680	715	
Slate			715	865	Show oil & Gas " " " "
Red Rock			865	970	
Shale			970	1080	
Sand			1080	1180	
Red Rock			1180	1220	
Shale			1220	1780	
Sand			1480	1860	
Shale			1860	1900	
Sand			1900	1960	
Shale			1960	2040	
lime			2040	2120	
Sand			2120	2240	
Shale			2240	2406	

(Attach separate sheets as necessary)

win@TD.

West Virginia Joint Venture # 3
Well Operator

By: Thomas J. Fluharty

Date: 5-31-83

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 coal, encountered in the drilling of a well."

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[08-78]

OIL AND GAS WELL PERMIT APPLICATION

Operator's Well No. No. 21
API Well No. 47-017-3184
State County Perm

WELL TYPE: Oil Gas
(If "Gas", Production / Underground storage / Deep / Shallow
LOCATION: Elevation: 1092 ft. Watershed: Hughes River
District: Central County: Doddridge Quadrangle: Pennsboro

WELL OPERATOR W. Va. Joint Venture #3
Address 94 Valley street
Salem, w. Va.

DESIGNATED AGENT Thomas J. Fluharty
Address 94 Valley street
Salem, w. Va.

OIL & GAS ROYALTY OWNER Ray C. Hudkins and others
Address Route 1, Box 36
Greenwood, w. Va. 26360

COAL OPERATOR None
Address:

ACREAGE 201 AC.
SURFACE OWNER Robert E. Phillips
Address Leeson's Run
Greenwood, w. Va.
ACREAGE 201

COAL OWNER(S) WITH DECLARATION ON RECORD:

Name _____
Address _____
Name _____
Address _____

FIELD SALE (IF MADE) TO:
Name _____
Address _____

COAL LESSEE WITH DECLARATION ON RECORD:

Name _____
Address _____

OIL & GAS INSPECTOR TO BE NOTIFIED
Name _____
Address _____

The undersigned well operator is entitled to operate for oil or gas purposes at the above location under a deed / lease / other contract / dated May 15, 1982, to the undersigned well operator from _____

[If said deed, lease, or other contract has been recorded:]

Recorded on _____, 19____, in the office of the Clerk of the County Commission of Doddridge County, West Virginia; in Lease Book 126 at page 860. 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) _____

---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 the 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.

PLEASE SUBMIT COPIES OF A
GEOPHYSICAL LOGS DIRECTLY TO:
WEST VIRGINIA OIL AND GAS
CONSERVATION COMMISSION
1615 WASHINGTON STREET EAST
CHARLESTON, WV 25311
TELEPHONE: (304) 348-3092

RECEIVED

AUG 31 1982

OIL AND GAS DIVISION
WV DEPARTMENT OF MINES

BLANKET BOND

W. Va. Joint Venture #3
Well Operator

By Thomas J. Fluharty
Agent

PROPOSED WORK ORDER

THIS IS AN ESTIMATE ONLY. ACTUAL INFORMATION MUST BE SUBMITTED ON FORM IV-3 UPON COMPLETION.

DILLING CONTRACTOR (IF KNOWN) _____

Address _____

GEOLOGICAL TARGET FORMATION, Weir-

Estimated depth of completed well, 2400' feet Rotary X Cable tools _____

Approximate water strata depths: Fresh, 250 feet; salt, _____ feet.

Approximate coal seam depths: None Is coal being mined in the area? Yes _____ No X

DRILLING AND TUBING PROGRAM

DRILLING OR TUBING TYPE	SPECIFICATIONS				FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS
	Size	Grade	Weight per ft	New	Used	For drilling		
Drill pipe	<u>1 3/4</u>			<u>X</u>		<u>20'</u>	<u>20</u>	
Production casing	<u>8 5/8</u>		<u>20.2</u>		<u>X</u>		<u>400'</u>	<u>to Surface</u>
Intermediate casing								Size:
Production tubing	<u>4 1/2</u>		<u>10.5</u>				<u>2,400</u>	
Wellhead								Denton
Wellhead								Perforations:

Cement to 300' above producing horizon was required by Rule 15061 or into Salt Sand

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-3, "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 § 22-4-12c and (v) unless the consent required by Code § 22-4-8a from the owner of any water well or drilling 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, ARTICLE 4 OF THE W.VA. CODE, THE LOCATION IS HEREBY APPROVED FOR drilling THIS PERMIT SHALL EXPIRE IF OPERATIONS HAVE NOT COMMENCED BY 7-12-83

BY [Signature]

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.

By Thomas J. Fluharty
Its (Capt)