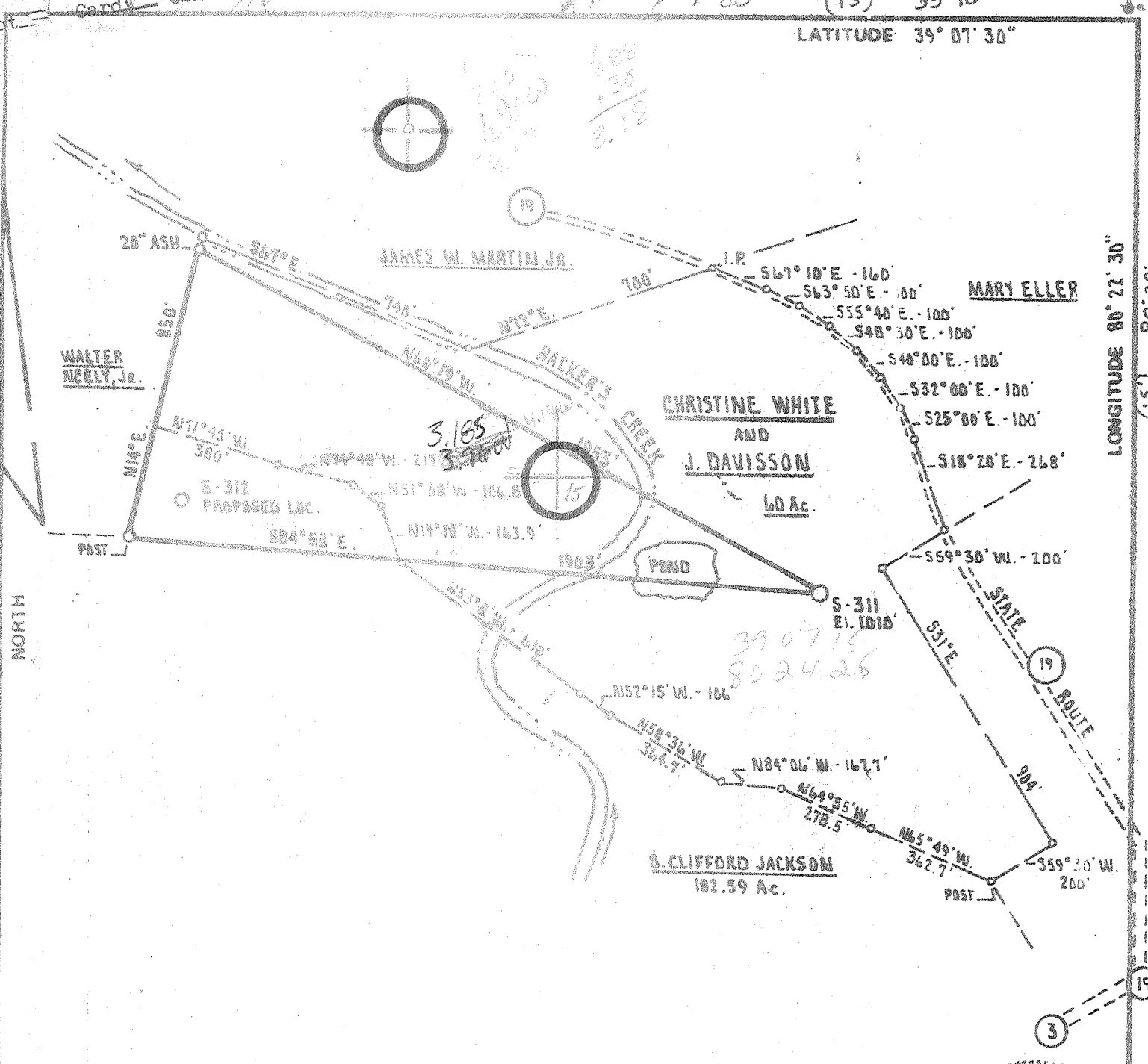
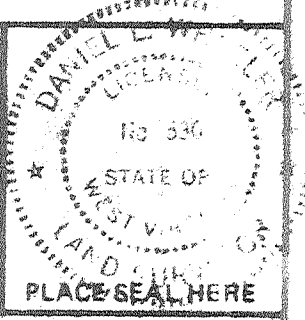


LATITUDE 39° 07' 30"  
LONGITUDE 80° 22' 30"



FILE NO. D.E. W1 PAGE 23  
 DRAWING NO. \_\_\_\_\_  
 SCALE 1" = 400'  
 MINIMUM DEGREE OF ACCURACY 1 PART IN 200  
 PROVEN SOURCE OF ELEVATION 1011' INT. U.S. RT. 19 AND STATE RT. 19

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) Daniel L. Hedden  
 R.P.E. \_\_\_\_\_ L.L.S. 530



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



DATE JULY 3<sup>RD</sup> 19 80  
 OPERATOR'S WELL NO. S-311  
 API WELL NO. 47 - 041 - 2921  
 STATE WEST VIRGINIA COUNTY LEWIS 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 1010' WATER SHED HACKER'S CREEK  
 DISTRICT HACKER'S CREEK COUNTY LEWIS  
 QUADRANGLE WESTON 7.5 & 15  
 SURFACE OWNER G.N.C. DEVELOPMENT ACREAGE 60 Ac.  
 OIL & GAS ROYALTY OWNER CHRISTINE WHITE AND J. DAVISSON LEASE ACREAGE 60 Ac.  
 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 BEHSON ESTIMATED DEPTH 4600'  
 WELL OPERATOR SCOTT OIL AND GAS DESIGNATED AGENT SCOTT OIL AND GAS  
 ADDRESS P.O. BOX 112 SALEM, WEST VIRGINIA 26424 ADDRESS P.O. BOX 112 SALEM, WEST VIRGINIA 26424

6-6 Weston Jane Lew (153) JUL 28 1980

**RECEIVED**  
SEP 28 1980

Date: Aug. 6, 19 80  
Operator's Well No. S-311 Christine Whi  
API Well No. 47 - 041 - 2921  
State County Permit

OIL & GAS DIVISION STATE OF WEST VIRGINIA  
DEPT. OF MINES, OIL AND GAS DIVISION

WELL OPERATOR'S REPORT (C)  
OF  
DRILLING, FRACTURING AND OR STIMULATING, OR PHYSICAL CHANGE

WELL TYPE: Oil  / Gas  / Liquid Injection  / Waste Disposal   
(If "Gas", Production  / Underground storage  / Deep  / Shallow   
LOCATION: Elevation: 1010 Watershed: Hackers Creek  
District: Hackers Creek County: Lewis Quadrangle: Weston 7.5'

WELL OPERATOR James F. Scott DESIGNATED AGENT Same  
Address PO Box 112 Address \_\_\_\_\_  
Salem, WV 26426

PERMITTED WORK: Drill  / Convert  / Drill deeper  / Redrill  / Fracture or stimulate   
Plug off old formation  / Perforate new formation   
Other physical change in well (specify) \_\_\_\_\_

PERMIT ISSUED ON April 22, 19 80 OIL & GAS INSPECTOR FOR THIS WORK:  
(IF APPLICABLE: PLUGGING OF DRY HOLE OR CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED) Name Robert Bates  
Address 109 Minnich St.  
Weston, WV 26452

GEOLOGICAL TARGET FORMATION: Benson Depth: 4100 feet  
Depth of completed well, 4292 feet Rotary  / Cable Tools   
Water strata depth, 60 feet; salt, 715 feet.  
Coal seam depths: 205-209; 423-427 Is coal being mined in the area? No  
Work was commenced July 24, 19 80, and completed July 30, 19 80

CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS			FOOTAGE INTERVALS		CEMENT FILL-OR SACKS (Cubic feet)	REMARKS
	Size	Grade	Weight per ft New	Used	For drilling		
Conductor	11 3/4						
Fresh water							
Coal							
Intermediate	8 5/8				586	to surface	
Production	4 1/2				4200	350 sks	Setting set
Tubing							
Liners							Form finished

OPEN FLOW DATA

Producing formation Benson - Balltown Pay zone depth 2993 - 78 Ballt.  
4102-30 Bens.  
Gas: Initial open flow, show Mcf/d Oil: Initial open flow, \_\_\_\_\_ Pcf/d  
Final open flow, 492 Mcf/d Final open flow, \_\_\_\_\_ Pcf/d  
Time of open flow between initial and final tests, 4 hours  
Static rock pressure, 1075 psig (surface measurement) after 72 hours shut in

Second producing formation \_\_\_\_\_ Pay zone depth \_\_\_\_\_ feet  
Gas: Initial open flow, \_\_\_\_\_ Mcf/d Oil: Initial open flow, \_\_\_\_\_ Pcf/d  
Final open flow, \_\_\_\_\_ Mcf/d Final open flow, \_\_\_\_\_ Pcf/d  
Time of open flow between initial and final tests, \_\_\_\_\_ hours  
Static rock pressure, \_\_\_\_\_ psig (surface measurement) after \_\_\_\_\_ hours shut in

OCT 10 1980

STATE OF PERFORATED INTERVALS, FRACTURING OF COIL TUBING, PHYSICAL PROPERTIES, ETC.

Balltown 2993-2998  
Benson 4102-4107  
4120-4122  
4128-4130

WELL LOG

FORMATION	Color	Hard or Soft	Top Feet	Bottom Feet	Remarks Including Indication of Gas, Oil, and Salt Water, etc.
Clay			0	10	
Sand & Shale			10	72	
Coal-soft			72	75	
Sand & Shale			75	130	
Coal			130	133	
Sand			133	205	
Coal			205	209	
Sand			209	385	
Shale			385	423	
Coal			423	427	
Sandy Shale			427	450	
Sand			450	600	
Shale-Sand-Shale			600	950	
Shale & Red Rock			950	1100	
Sand & Shale			1100	1195	
B. Lime			1195	1285	
Injun			1285	1395	
Sand & Shale			1395	2075	
Sand-Shale-Sand			2075	4110	
Benson			4110	4125	
Shale			4125	4292	
<u>Gamma Ray Log</u>					
5th Sand			2075	2085	
Balltown			2990	3000	
Benson			4100	4130	

Attach separate sheets as complete as necessary.

James F. Scott

Well Operator

*James F. Scott*

Owner/Operator

NOTE: Regulation 6.00 (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."

APP. FEE  
(License)

[08-198]

July 2, 1980

Well No. S-311

Alt Well No. 041 2921  
State County Permit

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

OIL AND GAS WELL PERMIT APPLICATION

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

LOCATION: Elevation: 1030' Watershed: Hacker's Creek  
District: Hacker's Creek County: Lewis Quadrangle: Weston 7.5'

WELL OPERATOR Scott Enterprises, Inc. DESIGNATED AGENT SAME  
Address P.O. Box 112 Address  
Salem, W. Va. 26426

OIL & GAS ROYALTY OWNER Christine White & J. Davisson COAL OPERATOR  
Address Jane Lew, W. Va.

Acreage 60 COAL OWNER(S) WITH DECLARATION ON RECORD:

SURFACE OWNER GCH Development Inc. Name  
Address Weston, W. Va.

Acreage Name

FIELD SALE (IF MADE) TO: Address

Name

Address

COAL LESSEE WITH DECLARATION ON RECORD:

Name

Address

OIL & GAS INSPECTOR TO BE NOTIFIED

Name Robert Bates

Address 109 Minnich St.

Weston, W. Va. 26452

The undersigned well operator is entitled to operate for oil or gas purposes at the above location under a deed  lease  other contract  dated Apr. 29, 1980, to the undersigned well operator from Christine White & J. Davisson [if said deed, lease, or other contract has been recorded].

Recorded on Apr. 29, 1980, in the office of the Clerk of the County Commission of Lewis County, West Virginia, in Deed Book 385 at page 443. 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 § 21-4-3 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 PRINT NAME OF WELL OPERATOR AND PERMIT NUMBER IN THIS SPACE  
WEST VIRGINIA OIL AND GAS  
CONSERVATION COMMISSION  
1615 WASHINGTON STREET EAST  
CHARLESTON, WV 25301  
TELEPHONE: 304-725-3141

RECEIVED  
JUL 8 1980

BLANKET BOND

OIL & GAS DIVISION 37  
DEPT. OF M. RES. Geologist

SEAL AND WIRE LINE

THIS IS AN ESTIMATE ONLY.  
ACTUAL INFORMATION MUST BE SUBMITTED ON FORM IV-15 UPON COMPLETION

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

GEOLOGICAL TARGET FORMATION, Benson

Estimated depth of completed well, 4600 feet. Rotary,  Table rock

Approximate water strata depths. Fresh, \_\_\_\_\_ feet; salt, \_\_\_\_\_ feet

Approximate coal seam depths: \_\_\_\_\_ Is coal being mined in the area? Yes  No

CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS				FOOTAGE INTERVALS		CEMENT FILL-IN (OR SACKS PER 100 FEET)	REMARKS
	Size	Grade	Weight per Ft.	New	Used	For drilling		
Conductor	11	3-4				30'		Winds
Fresh water								
Coal								Sizes
Intermediate	8	5-8				500'	to surface	
Production	4 1/2					4500'	350 sks.	Seams set
Surfing								
Liners								Perforations:
								Top Bottom

NOTE: Regulation 2.05 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 plan in the form prescribed by Regulation 11, (ii) a bond in one of the forms prescribed by Regulation 11, or in lieu thereof the other security allowed by Code § 21-4-8, (iii) Form IV-3, "Exploration Plan", applicable to the exploration required by Code § 20-4-10b and Regulation 21, (iv) unless previously paid on the same well, the fee required by Code § 21-4-10a, and (v) if applicable, the consent required by Code § 12-4-6a from the owner of any water well or dwelling within 500 feet of the proposed well.

A separate Form IV-1 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 listed 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 3-9-81

*John B. Burdette*  
Deputy Director - Oil & Gas Division

The following well must be completed by the end of the year and the results of the completion shall be reported to the Department of Mines, Office of Oil and Gas, by the end of the year. The fee for this report shall be \$10.00 per well. The fee for this report shall be \$10.00 per well. The fee for this report shall be \$10.00 per well.

ARISEE

The undersigned hereby certifies that the owner of the well has been notified of the provisions of the Code and the regulations of the Department of Mines, Office of Oil and Gas, and that the owner has agreed to comply with the same. The undersigned hereby certifies that the owner of the well has been notified of the provisions of the Code and the regulations of the Department of Mines, Office of Oil and Gas, and that the owner has agreed to comply with the same.