

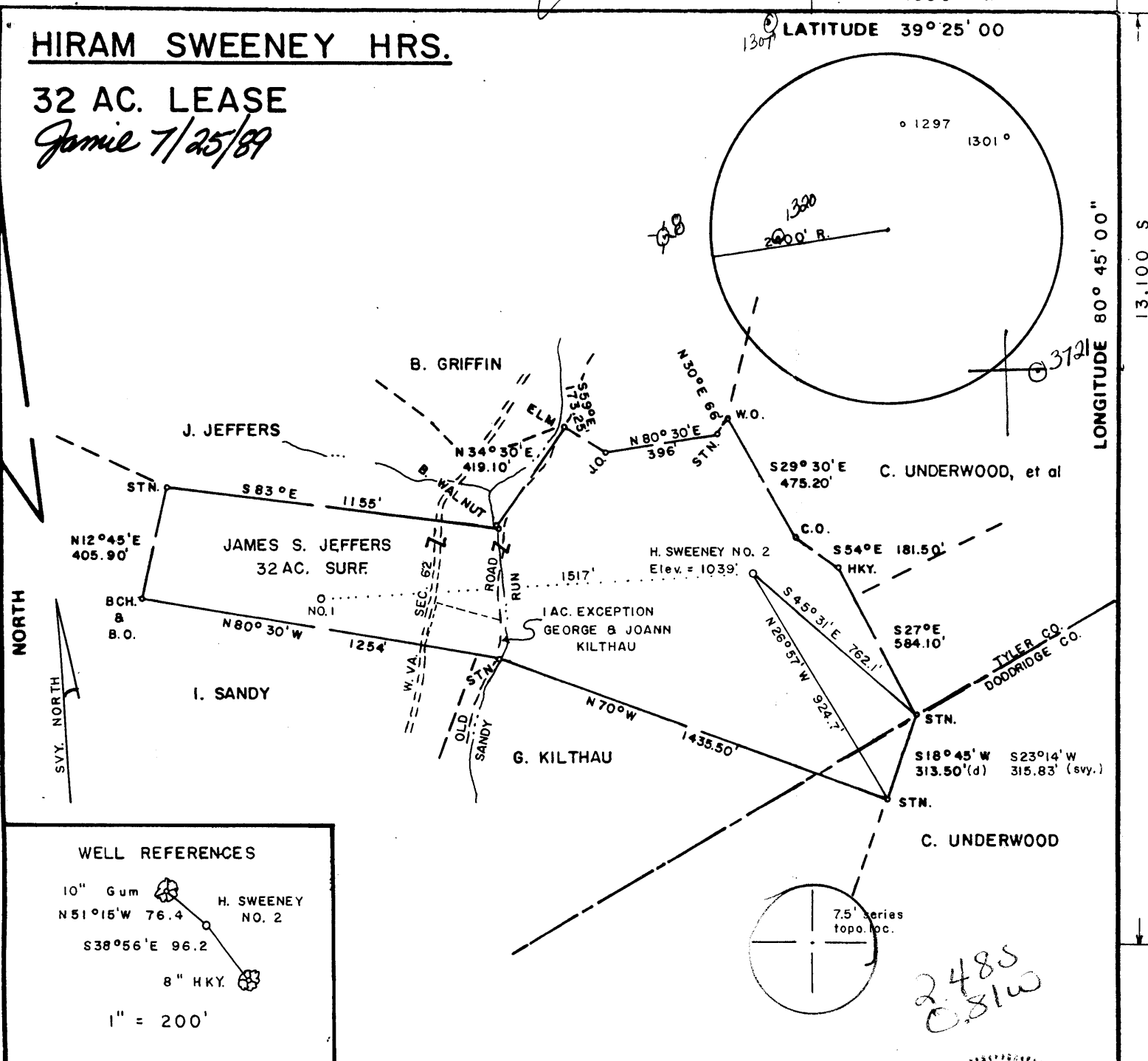
HIRAM SWEENEY HRS.

32 AC. LEASE

Janie 7/25/89

LATITUDE 39° 25' 00"

LONGITUDE 80° 45' 00"

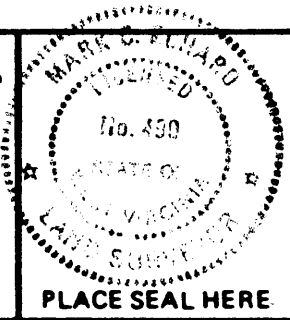


WELL REFERENCES

10" Gum H. SWEENEY NO. 2
 N 51° 15' W 76.4'
 S 38° 56' E 96.2'
 8" HKY.
 1" = 200'

FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 500'
 MINIMUM DEGREE OF ACCURACY 1/200
 PROVEN SOURCE OF ELEVATION Top of Knob 1300' ±
 SE of Loc. Elev. = 1219'

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. *Mark C. Echard*
 (SIGNED) MARK C. ECHARD
 R.P.E. _____ L.L.S. 490



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



DATE JULY 11, 19 89
 OPERATOR'S WELL NO. TWO
 API WELL NO. 47 - 095 - 1321
 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 1039' WATER SHED SANDY RUN
 DISTRICT McELROY COUNTY TYLER
 QUADRANGLE SHIRLEY 75' 607 1334 West Union EC
 SURFACE OWNER JAMES S. JEFFERS ACREAGE 32 AC.
 OIL & GAS ROYALTY OWNER HIRAM SWEENEY HRS. LEASE ACREAGE 32 AC.
 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 BENSON ESTIMATED DEPTH 5300' ±
 WELL OPERATOR D.A.C. DESIGNATED AGENT KENNETH MASON
 ADDRESS P.O. BOX 99 ADDRESS P.O. BOX 99
 ALMA, W. VA. 26320 ALMA, W. VA. 26320

JUL 28 1989

State of West Virginia
DEPARTMENT OF ENERGY
Division of Oil and Gas

Well Operator's Report of Well Work

Farm name: JEFFERS, JAMES S. Operator Well No.: H. SWEENEY #2

LOCATION: Elevation: 1039.00 Quadrangle: SHIRLEY

District: MCELROY County: TYLER
Latitude: 13100 Feet South of 39 Deg. 25Min. 0 Sec.
Longitude 4300 Feet West of 80 Deg. 45 Min. 0 Sec.

Company: DRILLING APPALACHIAN CORP

P. O. BOX 99
ALMA, WV 26320-0099

Agent: KENNETH R. MASON

Inspector: GLEN P. ROBINSON

Permit Issued: 07/26/89

Well work Commenced: AUGUST 9, 1989Well work Completed: AUGUST 23, 1989

Verbal Plugging

Permission granted on: _____

Rotary XX Cable _____ Rig

Total Depth (feet) _____

Fresh water depths (ft) 80Salt water depths (ft) NAIs coal being mined in area (Y/N)? N

Coal Depths (ft): _____

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft. to SURFACE
8 5/8	1145	1145	
4 1/2		5168	480
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SEP 12 1989			

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

OPEN FLOW DATA

Producing formation BENSON SANDSTONE Pay zone depth (ft) 5140-44
Gas: Initial open flow SHOW MCF/d Oil: Initial open flow - Bbl/c
Final open flow 492 MCF/d Final open flow 0 Bbl/c
Time of open flow between initial and final tests 22 Hours
Static rock Pressure 1450 psig (surface pressure) after _____ HoursSecond producing formation _____ Pay zone depth (ft) _____
Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/c
Final open flow _____ MCF/d Final open flow _____ Bbl/c
Time of open flow between initial and final tests _____ Hours
Static rock Pressure _____ psig (surface pressure) after _____ Hours

NOTE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE.

SEP 15 1989

For: DRILLING APPALACHIAN CORP.

By: Kenneth R. Mason
Date: 9/7/89

GEOLOGICAL WELL RECORD DATA

WELL NAME: H. Sweeney #2

PERMIT NUMBER: 47-095-1321

	TOP	BOTTOM	
SOIL	0	25	
BROKEN SAND	25	198	
SANDS AND SHALES	198	995	
DUNKARD SAND	995	1102	
1ST SALT SAND	1312	1380	
2ND SALT SAND	1475	1530	
3RD SALT SAND	1696	1730	
MAXON	1815	1852	
BIG LIME	1950	2005	
KEENER SAND	2007	2028	
BIG INJUN SAND	2038	2156	SHOW GAS
WEIR	2312	2392	
BEREA CAP	2490		
GANTZ SAND	2512	2526	
GORDON SAND	2720	2758	
FIFTH SAND	2944	2950	
WARREN	3389	3444	
RILEY	4582	4622	SHOW GAS
BENSON	5040	5044	SHOW GAS
TOTAL DEPTH	5228		

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UNIVERSITY OF OIL & GAS
DEPARTMENT OF ENERGY

WELL TREATMENT SCHEDULE

Benson Sand 5049 - 5051 Perforated with 15 holes

Formation Break Down 3100 PSI

Hydraulic frac with Nitrogen assist
 Average Treating Rate 18 barrels per min
 470 barrels of gel treated water
 210 sacks of 20/40 sand
 50 sacks of 80/100 sand

Average Treating Pressure 2550 PSI

SEP 15 1989

STATE OF WEST VIRGINIA
DEPARTMENT OF ENERGY, DIVISION OF OIL AND GAS
WELL WORK PERMIT APPLICATION

- 1) Well Operator: Drilling Appalachian Corporation 14425 (5) 606
- 2) Operator's Well Number: Hiram Sweeney Heirs #2 3) Elevation: 1039
- 4) Well type: (a) Oil / or Gas /
(b) If Gas: Production / Underground Storage /
Deep / Shallow /
- 5) Proposed Target Formation(s): Benson/Riley
- 6) Proposed Total Depth: 5300'± feet
- 7) Approximate fresh water strata depths: 130', 520'
- 8) Approximate salt water depths: 1030', 1679'
- 9) Approximate coal seam depths: Possibly @ 511-515'
- 10) Does land contain coal seams tributary to active mine? Yes / No /
- 11) Proposed Well Work: Drill, perforate, stimulate new formation
- 12)

CASING AND TUBING PROGRAM

TYPE	SPECIFICATIONS			FOOTAGE INTERVALS		CEMENT
	Size	Grade	Weight per ft.	For drilling	Left in well	Fill-up (cu. ft.)
<i>DRP</i> Conductor	11-3/4"	H-40	42#	100'	100'	CTS
Fresh Water						
Coal						
Intermediate	8-5/8"	J-55	20#	1150'	1150'	38CRS18-11.3
Production	4-1/2"	J-55	10 1/2#	5175'	5175'	38CRS18-11-1
Tubing						
Liners						

9309

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JUL 25 1989

PACKERS : Kind _____
Sizes _____
Depths set _____

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

For Division of Oil and Gas Use Only

433271
 Fee(s) paid: Well Work Permit Reclamation Fund WPCP
 Plat WW-9 WW-2B Bond Blanket sure Agent
 (Type)

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1) Date: July 18, 1989
2) Operator's well number
Hiram Sweeney Heirs #2
3) API Well No: 47 - 095 - 1321
State - County - Permit

**DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY
STATE OF WEST VIRGINIA
DEPARTMENT OF ENERGY, DIVISION OF OIL AND GAS**

NOTICE AND APPLICATION FOR A WELL WORK PERMIT

- 4) Surface Owner(s) to be served:
- (a) Name James S. Jeffers
Address 1101 St. Paul Street
Ste 2007, Baltimore, MD 21202
 - (b) Name _____
Address _____
 - (c) Name _____
Address _____
- 5) (a) Coal Operator:
Name _____
Address _____
- (b) Coal Owner(s) with Declaration
Name _____
Address _____
- Name _____
Address _____
- (c) Coal Lessee with Declaration
Name _____
Address _____
- 6) Inspector Glen Robinson
Address Rt. 1, #6 Mt. Pleasant Estate
Mineral Wells, WV26150
Telephone (304)- 489-9162

TO THE PERSON(S) NAMED ABOVE TAKE NOTICE THAT:

_____ Included is the lease or leases or other continuing contract or contracts by which I hold the right to extract oil and gas OR
x Included is the information required by Chapter 22B, Article 1, Section 8(d) of the Code of West Virginia (see page 2)

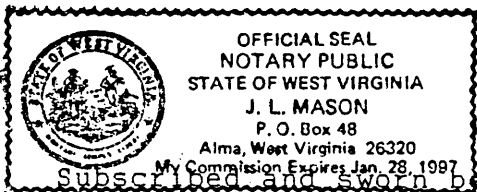
I certify that as required under Chapter 22B of the West Virginia Code I have served copies of this notice and application, a location plat, and accompanying documents pages 1 through 5 on the above named parties, by:

- _____ Personal Service (Affidavit attached)
- _____ Certified Mail (Postmarked postal receipt attached)
- _____ Publication (Notice of Publication attached)

I have read and understand Chapter 22B and 38 CSR 11-18, and I agree to the terms and conditions of any permit issued under this application. I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete.

I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Well Operator DRILLING APPALACHIAN CORPORATION
By: Kenneth R. Hlason
Its: President
Address Po Box 99, Alma, WV 26320
Telephone (304) 758-4638



Subscribed and sworn before me this 18th day of July, 1989

My commission expires 1/28/97 J. L. Mason Notary Public