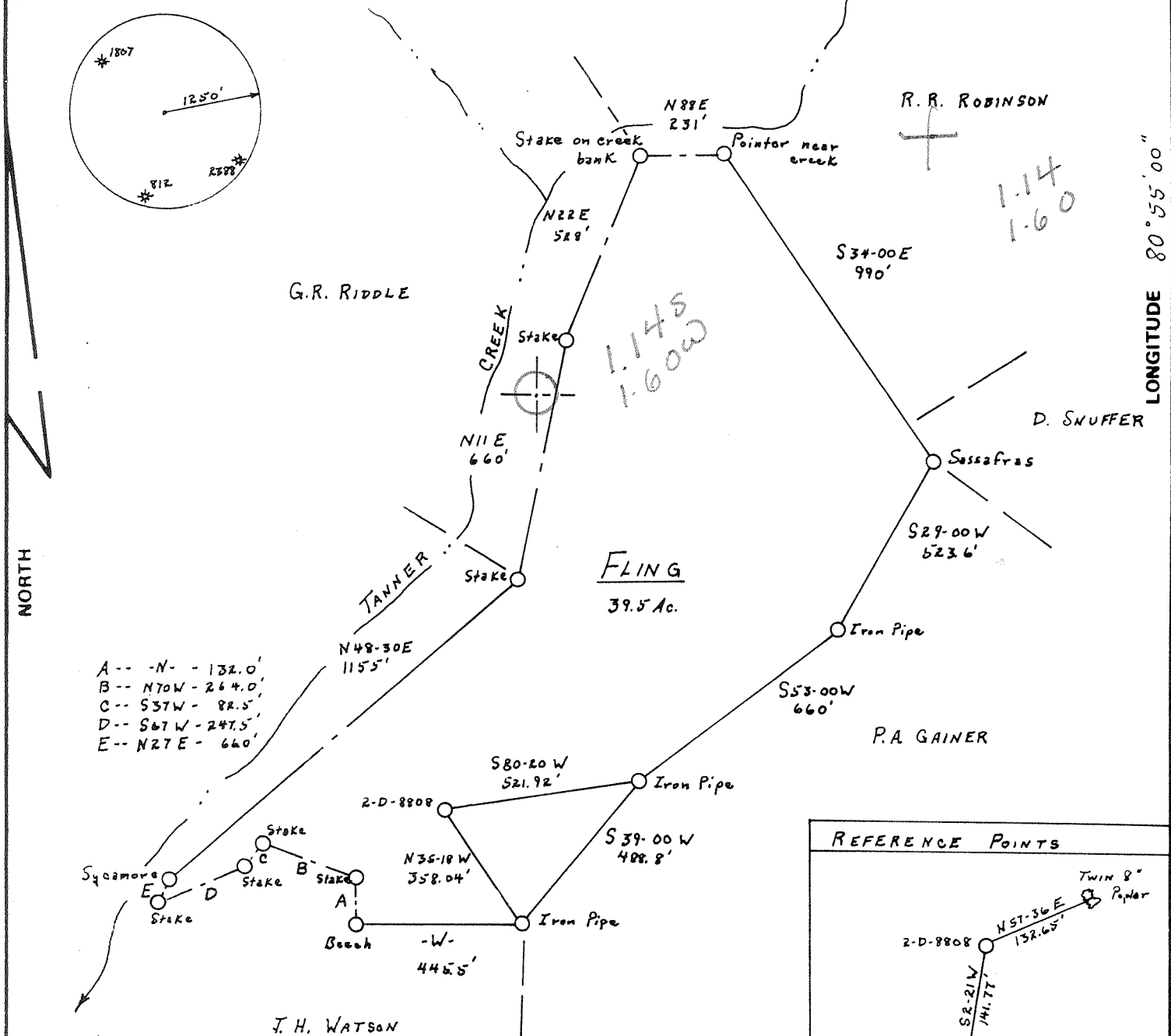
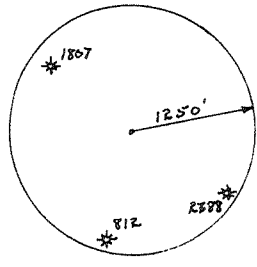


Janie 2/8/89

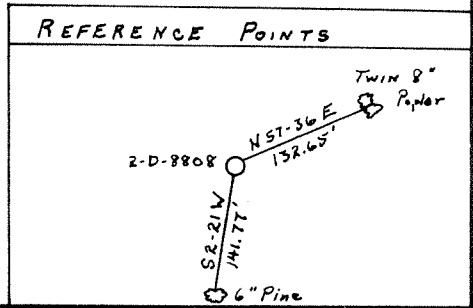
8500'

LATITUDE 39°00'00"

LONGITUDE 80°55'00"



- A -- N - - 132.0'
- B -- N70W - 264.0'
- C -- S37W - 82.5'
- D -- S67W - 247.5'
- E -- N27E - 660'



FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 400'
 MINIMUM DEGREE OF ACCURACY 1:200
 PROVEN SOURCE OF ELEVATION Top of Knob
Elevation -- 1131'

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.
 Surveyed by R. S. Campbell
 (SIGNED) [Signature]
 R.P.E. 4596 L.L.S. _____

PLACE SEAL HERE

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



DATE December 20, 19 88
 OPERATOR'S WELL NO. 2-D-8808
 API WELL NO. 47-021-4765
 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 889' WATER SHED TANNER CREEK
 DISTRICT DEKALB 2 COUNTY GILMER
 QUADRANGLE TANNER 634 0501 Glenville NW
 SURFACE OWNER JAMES R. TURNER ACREAGE 39.5
 OIL & GAS ROYALTY OWNER COOPER, AUGER, BROOKS, DERTOUZOS LEASE ACREAGE 39.5
 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 DEVONIAN SHALE ESTIMATED DEPTH 5900'
 WELL OPERATOR H.Y. HALL DRILLING DESIGNATED AGENT HENRY Y. HALL
 ADDRESS R.F.D. Box 2 Glendon WV 26626 ADDRESS SAME

FEB 14 1989

6-6 (136) (17)



WR-35

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State of West Virginia
DEPARTMENT OF ENERGY
Oil and Gas Division

Date 6-7-89
Operator's _____
Well No. #2-D
Farm Fling
API No. 47 - 021 - 4765

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

WELL OPERATOR'S REPORT
OF

DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

WELL TYPE: Oil xx / Gas xx / Liquid Injection / Waste Disposal /
(If "Gas," Production xx / Underground Storage / Deep / Shallow xx /)

LOCATION: Elevation: 889 Watershed Tanner Creek
District: Dekalb County Gilmer Quadrangle Tanner

COMPANY H.Y.Hall's Drilling Ser. Inc.
ADDRESS Rt.2, Box 2, Glendon, WV 26623
DESIGNATED AGENT Henry Hall
ADDRESS same
SURFACE OWNER James Turner
ADDRESS Tanner, WV
MINERAL RIGHTS OWNER Cooper, Augar, etc.
ADDRESS various
OIL AND GAS INSPECTOR FOR THIS WORK Craig Duckworth ADDRESS Gassaway, WV
PERMIT ISSUED 2-8-89
DRILLING COMMENCED 3-9-89
DRILLING COMPLETED 3-23-89
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"			
9 5/8			
8 5/8	510	510	130
7			
5 1/2			
4 1/2		5969	600
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Devonian Shale Depth 6090 feet
Depth of completed well 6090 feet Rotary xx / Cable Tools _____
Water strata depth: Fresh 270 feet; Salt 560 feet
Coal seam depths: none Is coal being mined in the area? no

OPEN FLOW DATA

Producing formation Devonian Shale Pay zone depth 4066-5967 feet
Gas: Initial open flow show Mcf/d Oil: Initial open flow show Bbl/d
Final open flow 1000 Mcf/d Final open flow show Bbl/d
Time of open flow between initial and final tests 72 hours
Static rock pressure 1450 psig (surface measurement) after 48 hours shut in
(If applicable due to multiple completion--)
Second producing formation _____ Pay zone depth _____ feet
Gas: Initial open flow _____ Mcf/d Oil: Initial open flow _____ Bbl/d
Final open flow _____ Mcf/d Oil: Final open flow _____ Bbl/d
Time of open flow between initial and final tests _____ hours
Static rock pressure _____ psig (surface measurement) at _____ hours shut in

(C. See on reverse side)

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

4066-4468-24 holes, 500 gal. HCL, 20,000# sand, 125,000 N₂, 150 bbl. H₂O
 4783-4816-24 holes, 500 gal. HCL, 50,000# sand, 346,000 N₂, 240 bbl. H₂O
 4945-5191-24 holes, 500 gal. HCL, 30,000# sand, 314,000 N₂, 200 bbl. H₂O
 5822-5967-25 holes, 500 gal. HCL, 50,000# sand, 533,000 N₂, 185 bbl. H₂O

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
					Including indication of a fresh and salt water, coal, oil and gas
Sand & shale			0	1720	
Keener			1720	1730	
Shale			1730	1788	
Lime			1788	1850	
Big Injun			1850	1880	
Shale			1880	2050	
Weir			2050	2200	
Devonian Shale			2200	6090	Total Depth

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DIVISION OF OIL & GAS
 DEPARTMENT OF ENERGY

(Attach separate sheets as necessary)

H.Y. Hall's Drilling Ser. Inc.

Well Operator

By: *Henry J. Hall*

Date: 6-7-89

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."

AUG 18 1989

Issued 2/8/89 Expires 2/8/91
021-4765

FORM WW-2B

Page ___ of ___

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

- 1) Well Operator: H.Y. HALL'S Drilling Ser. Inc. 20585, 2, 633
- 2) Operator's Well Number: Fling #2-D-8808 3) Elevation: 889
- 4) Well type: (a) Oil / or Gas /
(b) If Gas: Production / Underground Storage /
Deep / Shallow /
- 5) Proposed Target Formation(s): Devonnan Shale
- 6) Proposed Total Depth: 5900 feet
- 7) Approximate fresh water strata depths: 470, 210-240
- 8) Approximate salt water depths: OK -0-
- 9) Approximate coal seam depths: OK -0-
- 10) Does land contain coal seams tributary to active mine? Yes / No /
- 11) Proposed Well Work: Drill, Stimulate, Produce New Well
- 12)

CASING AND TUBING PROGRAM

TYPE	SPECIFICATIONS		FOOTAGE INTERVALS			CEMENT
	Size	Grade	Weight per ft.	For drilling	Left in well	Fill-up (cu. ft.)
Conductor						<u>3803R10-113</u>
Fresh Water	8 5/8		20	500	500	As/Rule
Coal						
Intermediate						<u>3803R10-11.1</u>
Production	4 1/2	K-55	10.5 11.5		2900 3000	As/Rule As/Rule
Tubing						
Liners						

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PACKERS : Kind _____
Sizes _____
Depths set _____
DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

For Division of Oil and Gas Use Only

Fee(s) paid: Plat Well Work Permit Plat Reclamation Fund Plat WPCP
Plat WW-9 Plat WW-2B Plat Bond 50 Letter Blanket Plat A02-04765
(Type)

276

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DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

1) Date: 2-2-89
2) Operator's well number
Fling #2-D-8808
3) API Well No: 47 - 021 - 4765
State - County - Permit

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 R. ~~XXXXXX~~ Turner
Address Tanner, WV
 - (b) Name _____
Address _____
 - (c) Name _____
Address _____
- 5) (a) Coal Operator:
- Name _____
Address None
 - (b) Coal Owner(s) with Declaration
Name _____
Address None
 - Name _____
Address _____
 - (c) Coal Lessee with Declaration
Name _____
Address None
- 6) Inspector D. Craig K Duckworth
Address 107 Davison Rt
Gassaway, WV 26624
Telephone (304)- 364-5942

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 _____ on the above named parties, by:

- X 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 H.Y. Hall's Drilling Ser. Inc.
By: [Signature]
Its: President
Address Rt 2 Box 2
Blendon, WV 26623
Telephone 364-5652

Subscribed and sworn before me this 2nd day of Feb, 1989

My commission expires 0-24-95

Notary Public

021-04765

4765