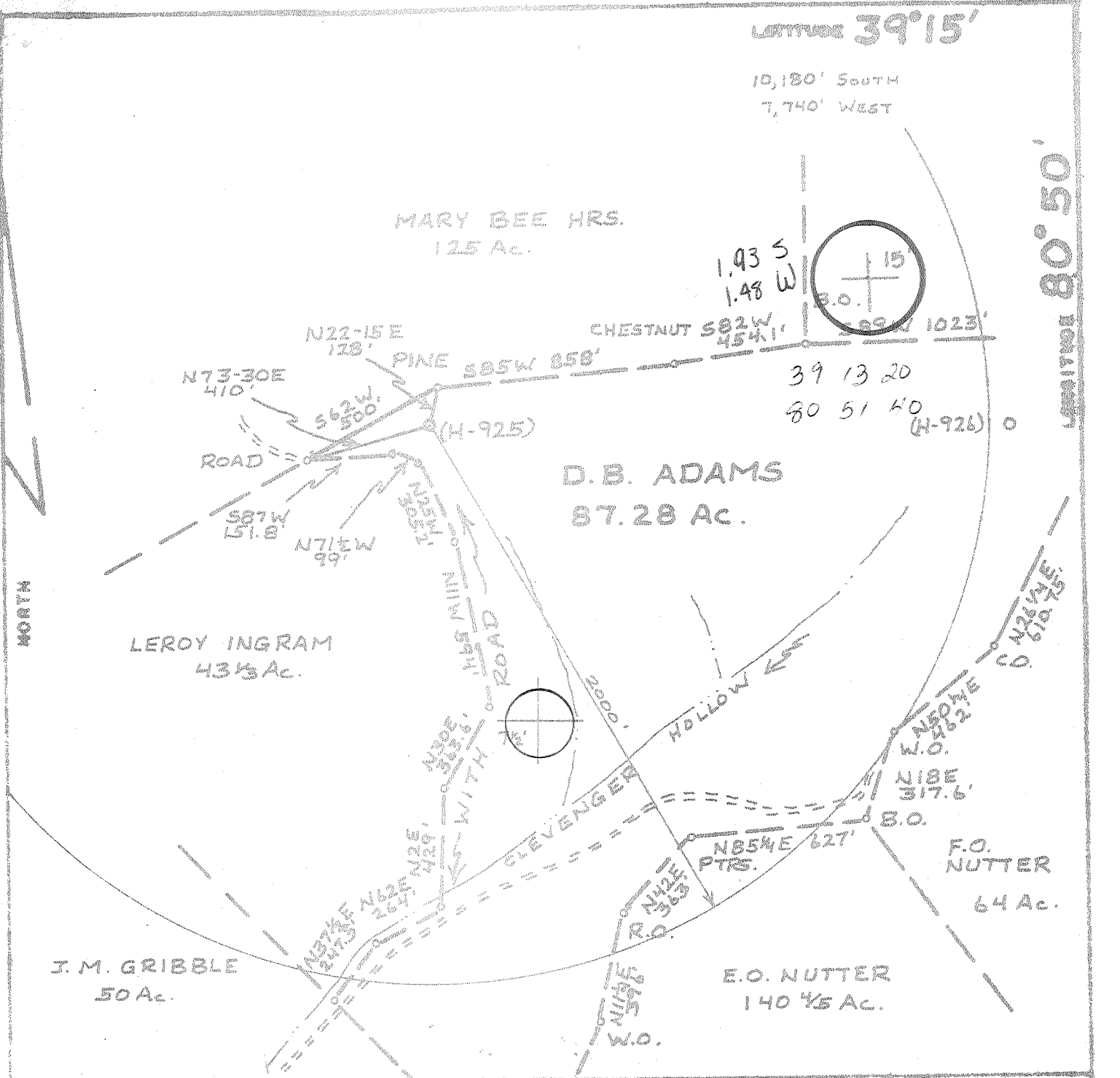


LATITUDE 39°15'

10,180' SOUTH
7,740' WEST



LONGITUDE 80° 50'

FILE NO. _____
DRAWING NO. _____
SCALE 1" = 500'
MINIMUM DEGREE OF ACCURACY 1:200
PROVEN SOURCE OF ELEVATION ROAD ELEV. 877'

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) William R. Nutter
R.P.E. _____ L.L.S. 551

PLACE SEAL HERE

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



DATE 21 DECEMBER, 19 79
OPERATOR'S WELL NO H-925
API WELL NO 47-017-2565
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 1107' WATER SHED CLEVELAND HOLLOW
DISTRICT SOUTHWEST COUNTY DODDRIDGE
QUADRANGLE OXFORD, W.VA. 7 1/2' QUAD, HOLBROOK 15' NC
SURFACE OWNER D. B. ADAMS ACREAGE 87.28
OIL & GAS ROYALTY OWNER D. B. ADAMS LEASE ACREAGE 87.28
LEASE NO. _____
PROPOSED WORK: DRILL CONVERT _____ DRILL DEEPER _____ REDRILL _____ FRACTURE OR STIMULATE _____ PLUS OFF OLD FORMATION _____ PERFORATE NEW FORMATION _____ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____

PLUG AND ABANDON _____ CLEAR OUT AND REPLUG _____
TARGET FORMATION DEVONIAN SHALE ESTIMATED DEPTH 5800'
WELL OPERATOR GLENN L. HAUGHT & SONS DESIGNATED AGENT WARREN HAUGHT
ADDRESS SMITHVILLE W.VA. 26178 ADDRESS SMITHVILLE, W.VA. 26178

6-4 STRAIGHT FA-BLUESTONE CA 133 FEB 6 1980

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

WELL OPERATOR'S REPORT OF
DRILLING, FRACURING AND/OR STIMULATING, OR PHYSICAL CHANGE

WELL TYPE: Oil Gas Liquid Injection Waste Disposal
 (If "Gas", Production Underground storage Deep Shallow
 LOCATION: Elevation: 1107' Watershed: Clevenger Hollow
 District: Southwest County: Doddridge Quadrangle: Oxford, WV 7 1/2
 D.B. Adams H-925
 WELL OPERATOR: Glenn L. Haught & Sons DESIGNATED AGENT: Warren R. Haught
 Address: Smithville, WV 26178 Address: Smithville, WV 26178

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 December 28, 19 79, OIL & GAS INSPECTOR FOR THIS WORK:
 Name Paul Garrett
 Address 321 Beech Street
Clarksburg, WV 26301
 Phone: 622-3871

IF APPLICABLE: PLUGGING OF DRY HOLE OR CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED _____, 19 _____
 GEOLOGICAL TARGET FORMATION: Devonian Shale Depth 3140 to 5860 feet
 Depth of completed well, 5906 feet Rotary / Cable Tools _____
 Water strata depth: Fresh, 30 feet; salt, _____ feet.
 Coal seam depths: None Is coal being mined in the area? No
 Work was commenced January 25, 19 80, and completed February 12, 19 80

CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS				FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS
	Size	Grade	Weight per ft	New	Used	For drilling		
Conductor								Kinds
Fresh water	10 3/4"			X		277'	277'	150 sacks
Coal								Sizes
Intermediate	7"			X		1992'	1992'	45 sacks
Production	4 1/2"	J-55	10.5#	X			5895'	250 sacks
Tubing								Perforations:
Liners								Top Bottom
								3770 5840

RECEIVED
MAR 21 1980
 OIL & GAS DIVISION
 DEPT. OF MINES

OPEN FLOW DATA
 Producing formation Devonian Shale Pay zone depth 3140 to 5860
 Gas: Initial open flow, _____ Mcf/d Oil: Initial open flow, _____ Bbl/d
 Final open flow, 1380 Mcf/d Final open flow, _____ Bbl/d
 Time of open flow between initial and final tests, 8 hours
 Static rock pressure, 1350 psig (surface measurement) after 12 hours shut in
 [If applicable due to multiple completion--]
 Second producing formation _____ Pay zone depth _____
 Gas: Initial open flow, _____ Mcf/d Oil: Initial open flow, _____ Bbl/d
 Final open flow, _____ Mcf/d Final open flow, _____ Bbl/d
 Time of open flow between initial and final tests, _____ hours
 Static rock pressure, _____ psig (surface measurement) after _____ hours shut in

[08-78]

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

Hydrafraced by Halliburton 2-19-80 - 2500 Gal. Acid -- 2627 Bbls. Water
100,000 Lb.s 20/40 Mesh Sand -- 30,000 Lbs. 80/100 Mesh Sand.

Perforations : 65--3770--5840

WELL LOG

FORMATION	Color	Hard or Soft	10 Top Feet	Bottom Feet	Remarks Including indication of all fresh and salt water, coal, oil and gas
Red Rock			770	776	
Sand			776	798	
Red Rock			798	803	
Shale			803	860	
Red Rock			860	867	
Sand			867	950	
Red Rock			950	960	
Shale			960	1010	
Sand			1010	1110	
Shale			1110	1170	
Sand			1170	1220	
Shale			1220	1265	
Sandy Shale			1265	1350	
Shale			1350	1370	
Sand			1370	1450	
Shale			1450	1600	
Sand			1600	1670	
Shale			1670	1725	
Sand			1725	1807	
Shale			1807	1920	
L. Lime			1920	1965	
B. Lime			1965	2065	Gas @ 1986
Sand			2065	2110	
Shale			2110	2291	
Sand			2291	2350	
Shale			2350	2685	
Sand			2685	2735	
Shale			2735	2864	
Sand			2864	2875	
Shale			2875	3055	
Sand			3055	3066	
Shale			3066	3120	
Sand			3120	3140	
Shale			3140	3846	
Sand			3846	3929	
Shale			3929	4001	
Sand			4001	4060	
Shale			4060	4235	Gas @ 4072
Sand			4235	4300	
Shale			4300	4520	
Sand			4520	4535	
Shale			4535	4900	
Sand			4900	4930	
Shale			4930	5150	
Sand			5150	5220	
Shale			5220	5750	
Sandy Shale			5750	5906	T. D.

BRAL

GSE: Regulation 2.02(i) provides as follows:

"The term 'log' or 'well log' shall mean a systematic, detailed geologic record of all formations.

Glenn L. Haught & Sons
Well Operator

By *Glenn R. Haught*
Partner

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

OIL AND GAS WELL PERMIT APPLICATION

WELL TYPE: Oil X / Gas X /
(If "Gas", Production X / Underground storage _____ Deep _____ Shallow X)
LOCATION: Elevation: 1107' Watershed: Clevenger Hollow
District: Southwest County: Doddridge Quadrangle: Oxford, WV 7 1/2'

WELL OPERATOR Glenn L. Haught & Sons
Address Smithville, WV 26178

DESIGNATED AGENT Warren R. Haught
Address Smithville, WV 26178

OIL & GAS ROYALTY OWNER D. B. Adams
Address Route 1, Box 223
West Union, WV 26456

COAL OPERATOR None
Address _____

Acreage 87.28
SURFACE OWNER D. B. Adams
Address Route 1, Box 223
West Union, WV 26456
Acreage 87.28

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 None
Address DEC 28 1979

OIL & GAS INSPECTOR TO BE NOTIFIED
Name Paul Garrett
Address 321 Beech Street
Clarksburg, WV 26301
Phone: 622-3871

OIL & GAS DIVISION
DEPT. OF MINES

The undersigned well operator is entitled to operate for oil or gas purposes at the above location under a deed _____ / lease X / other contract _____ / dated August 23, 1978, to the undersigned well operator from D. B. Adams et al

[If said deed, lease, or other contract has been recorded:]
Recorded on October 6, 1978, in the office of the Clerk of the County Commission of Doddridge County, West Virginia, in Lease _____ Book 104 at page 779. A permit is requested as follows:

PROPOSED WORK: Drill X / 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 § 22-2-3 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 ALL GEOPHYSICAL LOGS DIRECTLY TO:
WEST VIRGINIA OIL AND GAS CONSERVATION COMMISSION
1615 WASHINGTON STREET EAST
CHARLESTON, WV 25311
TELEPHONE: (304) 342-3092

Glenn L. Haught & Sons
Well Operator
By Warren R. Haught
Partner

BLANKET COPY

PROPOSED WORK ORDER

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

DRILLING CONTRACTOR (IF KNOWN) Glenn L. Haught & Sons
Address Smithville, WV 26178

GEOLOGICAL TARGET FORMATION, Devonian Shale

Estimated depth of completed well, 5800 feet Rotary Table tools _____
Approximate water strata depths: Fresh, 75 feet; salt, _____ feet.
Approximate coal seam depths: None Is coal being mined in the area? Yes _____ No

CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS					FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS
	Size	Grade	Weight per ft	New	Used	For drilling	Left in well		
Conductor									Kinds
Fresh water	8 5/8	K-55	20#	X		200'	200'	75 sacks	
Coal									Sizes
Intermediate									
Production	4 1/2	J-55	10.5#	X			5800'	200 sacks	Depths set
Tubing									
Liners									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-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 § 22-4-12a, and (v) if applicable, the consent required by Code § 22-4-3c 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 8-28-80.

Robert F. [Signature]
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 Reclamation 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 _____