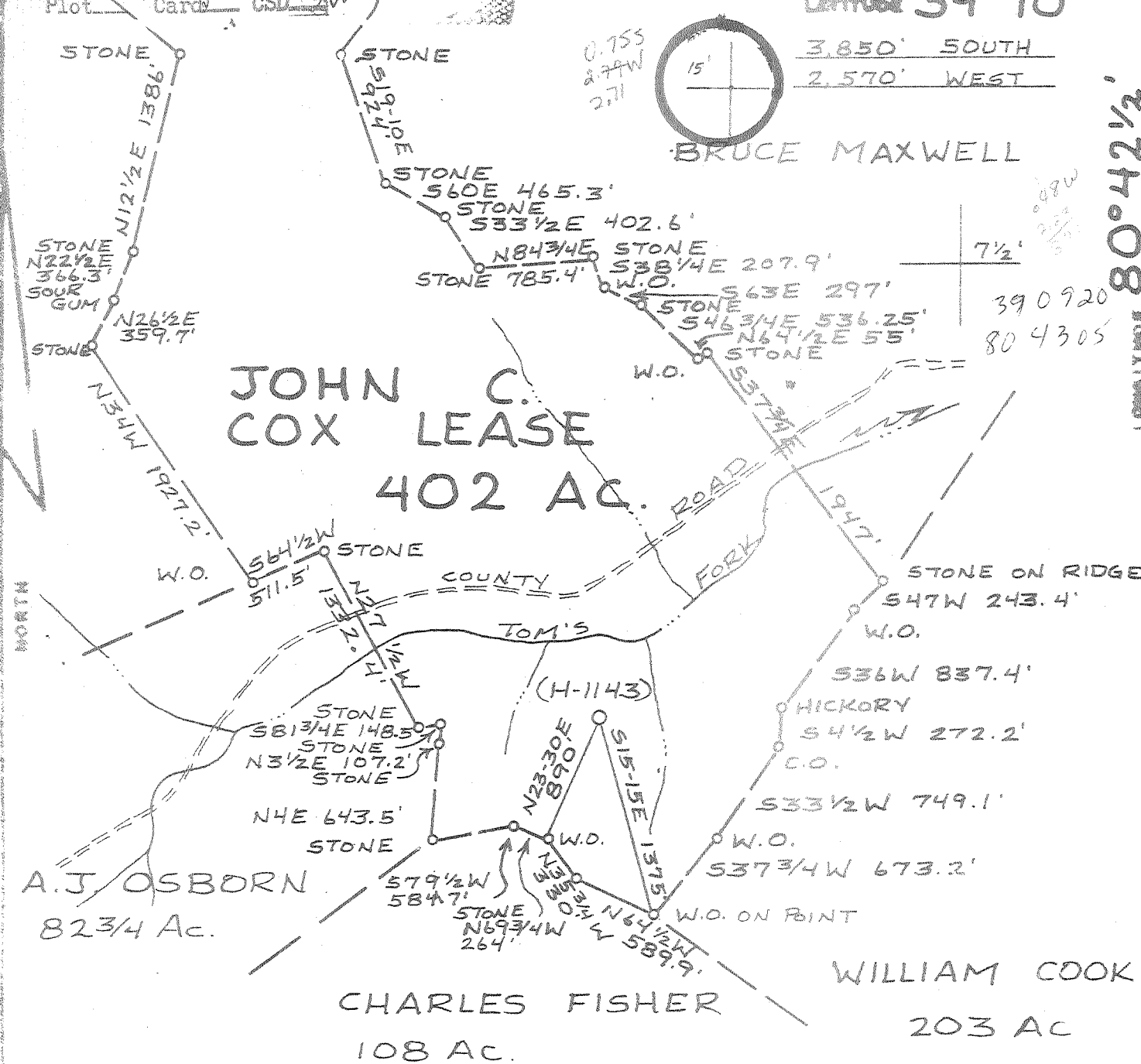


BRUCE MAXWELL

Longitude 80° 42 1/2'



FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 1000'
 MINIMUM DEGREE OF ACCURACY 1:200
 PROVEN SOURCE OF ELEVATION ROAD ELE. 929'

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 K. Messer*
 R.P.E. _____ L.L.S. 551

PLACE SEAL HERE

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



DATE 4 NOVEMBER, 1980
 OPERATOR'S WELL NO. H-1143
 API WELL NO. 47-007-2880
 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 1093' WATER SHED TOMS FORK
 DISTRICT NEW MILTON COUNTY DODDRIDGE
 QUADRANGLE NEW MILTON, W.VA. 7 1/2' QUAD. VD 11 WC
 SURFACE OWNER HOWARD HINTERER ACREAGE _____
 OIL & GAS ROYALTY OWNER JOHN C. COX LEASE ACREAGE 402
 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 _____ CLEAN OUT AND REPLUG _____
 TARGET FORMATION ALEXANDER ESTIMATED DEPTH 5500'
 WELL OPERATOR HAUGHT INC. DESIGNATED AGENT WARREN HAUGHT
 ADDRESS SMITHVILLE, W.VA. ADDRESS SMITHVILLE, W.VA. 26178
 DEC 19 1980

666 New Milton South (307)

RECEIVED
APR - 6 1981

Operator's
Well No. H-1143
API Well No. 47-017-2880
State County Permit

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

OIL & GAS DIVISION
DEPT. OF MINES

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: 1093' Watershed: Toms Fork
District: New Milton County: Doddridge Quadrangle: New Milton, WV 7 1/2'

WELL OPERATOR Haught, Inc. Ruth Ann Yoho H-1143
Address Rt. 3 Box 14 DESIGNATED AGENT Warren R. Haught
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 November 19, 19 80, OIL & GAS INSPECTOR FOR THIS WORK:
Name Paul Garrett
IF APPLICABLE: PLUGGING OF DRY HOLE OR CONTINUOUS PRODUCTION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED Address 321 Beech Street
Clarksburg, WV 26301

GEOLOGICAL TARGET FORMATION: Shale Depth 2830 to 5606 feet
Depth of completed well, 5606 feet Rotary / Cable Tools
Water strata depth: Fresh, _____ feet; salt, _____ feet.
Coal seam depths: None Is coal being mined in the area? No
Work was commenced March 12, 19 81, and completed March 19, 19 81

CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS				FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS
	Size	Grade	Weight per foot	Used	For drilling	Left in well		
Conductor								Kinds
Fresh water	8-5/8	K-55	20#	X	-	1154'	1154'	180 sacks
Coal								Sizes
Intermediate								
Production	4 1/2"	J-55	10.5#	X			5511'	500sacks
Tubing								
Liners								Perforations:
								Top Bottom
								4650 5410

OPEN FLOW DATA

Producing formation Dev. Shale 4650-5410 Pay zone depth 2830 to 5606 feet
Gas: Initial open flow, _____ Mcf/d Oil: Initial open flow, _____ Bbl/d
Final open flow, 492 Mcf/d Final open flow, _____ Bbl/d
Time of open flow between initial and final tests, 8 hours
Static rock pressure, 1850 psig (surface measurement) after 12 hours shut in

(If applicable for multiple completions--)

Second producing formation _____ Pay zone depth _____ feet
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

Continued on reverse side

APR 22 1981

[08-78]

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

Hydrafraced by Halliburton -- 1800 Bbl. water--
24,000 Lbs. 80/100 Mesh Sand -- 75,000 Lbs. 20/40 Mesh Sand--
1500 Gal. Acid.

Perforations: 39--4650--5410 2880

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 Rock			0	20	
Sand			20	50	
Red Rock			50	80	
Shale			80	100	
Sand			100	135	
Shale			135	175	
Sand			175	185	
Shale			185	200	
Sand			200	210	
Red Rock			210	260	
Sand			260	280	
Shale			280	370	
Sand			370	410	
Shale			410	585	
Red Rock			585	600	
Sand			600	635	
Shale			635	660	
Red Rock			660	680	
Sand			680	730	
Shale			730	760	
Sand			760	795	
Red Rock			795	805	
Shale			805	840	
Sand			840	875	
Shale			875	950	
Red Rock			950	990	
Sand			990	1010	
Shale			1010	1080	
Sand			1080	1120	
Shale			1120	1150	
Sand			1150	1170	
Shale			1170	1325	
Sand/Shale			1325	1660	
Lime			1660	1700	
Shale			1700	1855	
Sand			1855	2020	
Shale			2020	2769	
Sand/Shale			2769	2830	
Shale			2830	5606	T.D.

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."

Haught, Inc.
Well Operator
By Nathan R. Haught
Its President

[109-76]

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: 1093' Watershed: Toms Fork
 District: New Milton County: Doddridge Quadrangle: New Milton, W.V. 7 1/2'

WELL OPERATOR Haught, Inc. DESIGNATED AGENT Warren R. Haught
 Address Route 3, Box 14 Address Smithville, WV 26178
Smithville, WV 26178

OIL & GAS ROTHALTY OWNER Ruth Ann Yoho, Atty. for John C. Cox Hrs. COAL OPERATOR None
 Address Rt. 1 Box 58C Address _____
Walker, W.V. 26180

Acreage 402 COAL OWNER(S) WITH DECLARATION ON RECORD:
 SURFACE OWNER Howard Hinterer Name _____
 Address New Milton, W.V. 26411 Address _____
 Acreage 402 Name _____
 FIELD SALE (IF MADE) TO: Address _____
 Name Consolidated Gas Supply Corp.
 Address 445 West Main St.
Clarksburg, W.V. 26301

OIL & GAS INSPECTOR TO BE NOTIFIED
 Name Paul Garrett
 Address 321 Beech Street
Clarksburg, W.V. 26301

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 December 16, 19 75, to the undersigned well operator from Ruth Ann Yoho, Atty for John C. Cox Hrs.

[If said deed, lease, or other contract has been recorded:]
Recorded on April 10, 19 80, in the office of the Clerk of the County Commission of Doddridge County, West Virginia, in Lease Book 114 at page 375. 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 § 22-4-3 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 declaration 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) 248-3092

NOV 10 1980
 OIL & GAS DIVISION
 DEPT. OF MINES

Haught, Inc. Well Operator
 By Warren R. Haught
 President

BLANKET BOND

PROPOSED WORK ORDER

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

DRILLING CONTRACTOR (IF KNOWN) Haught, Inc. Address Smithville, WV 26178

GEOLOGICAL TARGET FORMATION, Alexander

Estimated depth of completed well, 5500' feet Rotary X / 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 X

CASING AND TUBING PROGRAM

Table with columns: CASING OR TUBING TYPE, SPECIFICATIONS (Size, Grade, Weight, New/Used), FOOTAGE INTERVALS (For drilling, Left in well), CEMENT FILL-UP OR SACKS (Cubic feet), PACKERS. Rows include Conductor, Fresh water, Coal, Intermediate, Production, Tubing, and Miners.

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-9, "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 7-19-81.

J. R. Anzley 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 § 22-4-2b, 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: For:

Signature