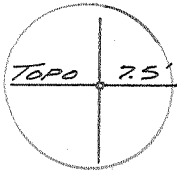


3/9/88

11,100'

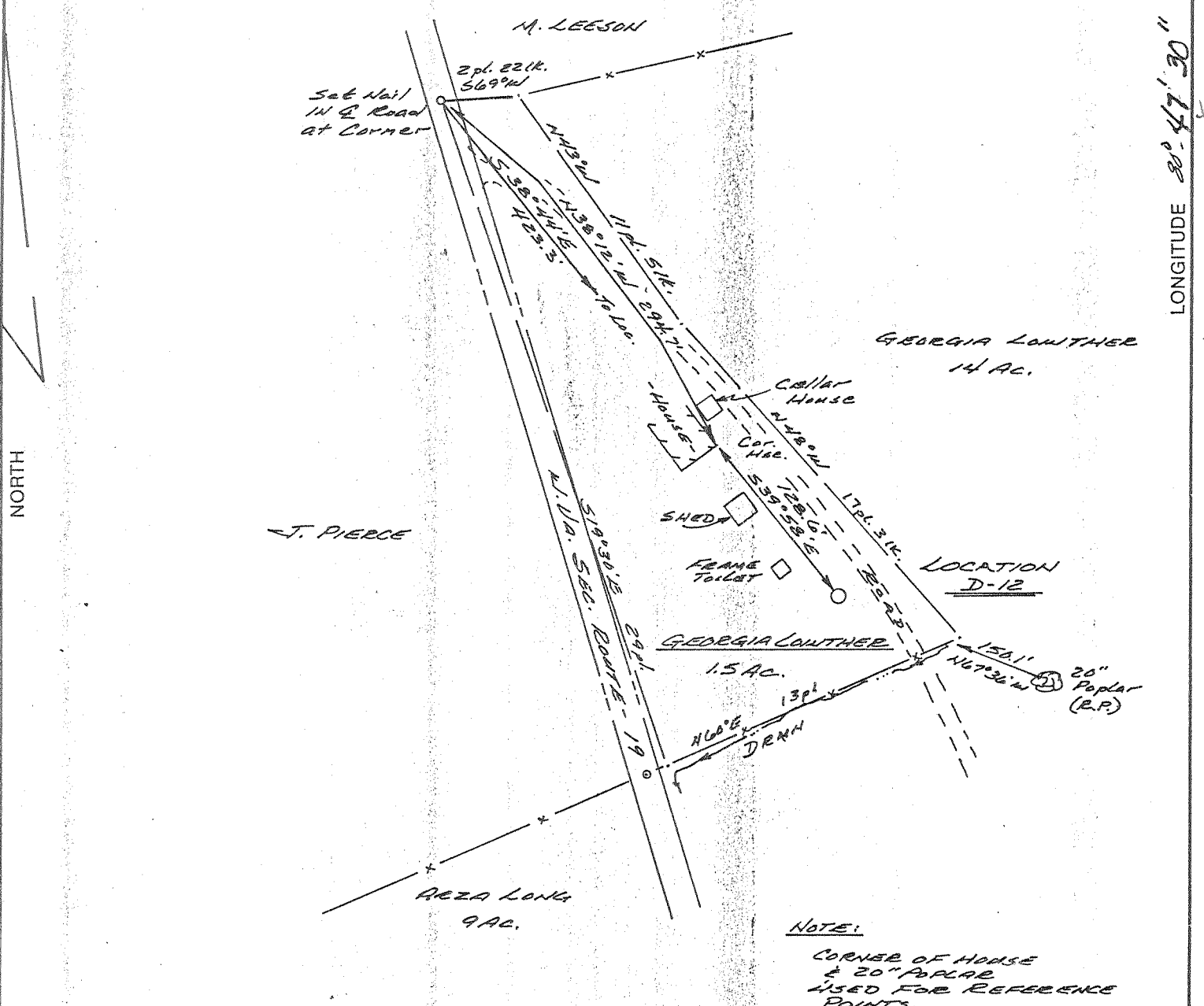
LATITUDE 39°10'00"



0.20  
2.100  
4.34

NORTH

LONGITUDE 80°47'30"

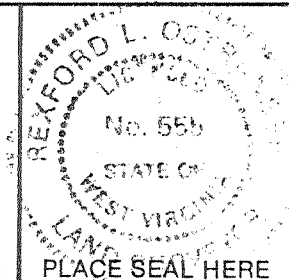


NOTE:  
CORNER OF HOUSE & 20" POPLAR USED FOR REFERENCE POINTS.

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS

FILE NO. 859.01  
DRAWING NO. 88-2A  
SCALE 1" = 500'  
MINIMUM DEGREE OF ACCURACY 1' in 200'  
PROVEN SOURCE OF ELEVATION BM-825' at Summers.

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 ENERGY.  
(SIGNED) Rexford L. Ostrander  
R.P.E. \_\_\_\_\_ L.L.S. 555  
Buckhannon, WV 26201



STATE OF WEST VIRGINIA  
DEPARTMENT OF ENERGY  
OIL AND GAS DIVISION



DATE 4 MARCH, 19 88  
OPERATOR'S WELL NO. D-12  
API WELL NO. \_\_\_\_\_

WELL TYPE: OIL  GAS  LIQUID INJECTION  WASTE DISPOSAL   
(IF "GAS,") PRODUCTION  STORAGE  DEEP  SHALLOW

LOCATION: ELEVATION 898' WATER SHED LOWER RUN  
DISTRICT Southwest 7 COUNTY Doddridge  
QUADRANGLE Oxford 526 OSB 6 Holbrook EC

SURFACE OWNER Georgia Lowther ACREAGE 1.5  
OIL & GAS ROYALTY OWNER GEORGIA LOWTHER LEASE ACREAGE \_\_\_\_\_  
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 INTUNÉ WEIR ESTIMATED DEPTH \_\_\_\_\_  
WELL OPERATOR SHELDON & ASSOCIATES, INC. DESIGNATED AGENT DAVID J. SHELDON  
ADDRESS 1400 JOHNSON AVE, SUITE-E ADDRESS \_\_\_\_\_  
BRIDGEPORT, WV 26330

6-6 788 Auburn (132)

FORM WW-6 H.T. HALL 48673

COUNTY NAME PERMIT



WR-35

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DIVISION OF OIL & GAS  
DEPARTMENT OF ENERGY

State of West Virginia  
DEPARTMENT OF ENERGY  
Oil and Gas Division

Date 4-1-88  
Operator's \_\_\_\_\_  
Well No. D-12  
Farm \_\_\_\_\_  
API No. 47 -0-17 - 3631

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

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

LOCATION: Elevation: 898' Watershed Lower Run  
District: Southwest County Doddridge Quadrangle Oxford

COMPANY Sheldon & Associates, Inc.  
ADDRESS 1400 Johnson Ave. Bridgeport, WV 26330  
DESIGNATED AGENT David J. Sheldon  
ADDRESS 1400 Johnson Ave. Bridgeport, WV 26330  
SURFACE OWNER Frank & Georgia Lowther  
ADDRESS Massillion, Ohio  
MINERAL RIGHTS OWNER (Same)  
ADDRESS (Same)  
OIL AND GAS INSPECTOR FOR THIS WORK Mike Underwood  
ADDRESS Route 2, Box 135 Salem, WV 26426  
PERMIT ISSUED 3-7-88  
DRILLING COMMENCED 3/9/88  
DRILLING COMPLETED 3/29/88

Casing & Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft.
Size 20-16 Cond 1 13/4"	30'	0	
13-10"			
9 5/8			
8 5/8	1056	1056	250 sks.
7			
5 1/2			
4 1/2	3232	3232	400 sks.
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Balltown Depth 3170 feet  
Depth of completed well 3232 feet Rotary X / Cable Tools \_\_\_\_\_  
Water strata depth: Fresh 180 feet; Salt 0 feet  
Coal seam depths: 41' Is coal being mined in the area? No  
Balltown & Speechly 3028-3168  
Weir- 1960-1984  
Injun Injun 1767-1790

OPEN FLOW DATA  
Producing formation Balltown, Speechly, Weir & Pay zone depth \_\_\_\_\_ feet  
Gas: Initial open flow Show Mcf/d Oil: Initial open flow 0 Bbl/d  
Final open flow (400) Mcf/d Final open flow (5) Bbl/d  
Time of open flow between initial and final tests 4 hours  
Static rock pressure 600 psig (surface measurement) after 24 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) after \_\_\_\_\_ hours shut in

APR 15 1988

(Continue on reverse side)

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

Balltown & Speechly - perf. - 3028-3168 - 12.39 holes  
 Fraced using - 110 bbls. water, 500 acid, 15,000 #20-40 sand  
 5,000 # 80-100 & 297,000 s.c.l. nz

Weir - perf - 1960-1984 - 10.39 holes  
 Fraced using - 122 bbls. water, 500 acid 25,000# 20-40,  
 5,000 lbs. 80-100 sand & 330,000 s.c.l. nz

Big Injun - perf. 1767-1790 - 10.39 holes  
 Fraced using 112 bbls. water, 1500 gals. acid, 20,000 # 20-40  
 5,000 # 80-100 sand & 300,000 s.c.l. nz

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
Clay	Red	Soft	0	5	
Shale & Sd.	Gray	Soft	5	41	
Coal	Black	Soft	41	43	Water 1/2" 180'
Sh. & Sd.	Gray	Soft	43	565	
Red Rock & Sd.	Red	Soft	565	965	Coal 41' - 2'
Sd. & Sh.	Gray	Soft	965	1674	
Big Lime	Gray	Med.	1674	1734	
Big Injun	Gray	Med.	1734	1794	
Shale	Gray	Soft	1794	1952	
Weir Sd.	Gray	Soft	1952	2076	
Sh. & Sd.	Gray	Soft	2076	3004	
Speechly Sd.	Gray	Soft	3004	3110	
Balltown Sd.	Gray	Soft	3110	3200	
Shale	Gray	Soft	3200	3270	
T.D.				3270	

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DIVISION OF OIL & GAS  
 DEPARTMENT OF ENERGY

(Attach separate sheets as necessary)

David J. Sheldon  
 Well Operator

By: *[Signature]*  
 Date: 4-1-88

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  
 and encountered in the drilling of a well."

FORM WV-2 (2) FILE COPY  
 (Obverse)  
 7/8  
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 MAR 09 1988



1) Date: March 7, 19 88  
 2) Operator's Well No. McCloy D-12  
 3) API Well No. 47 State 017 County 3631 Permit

page 1 of 6

DIVISION OF OIL & GAS DEPARTMENT OF ENERGY  
 STATE OF WEST VIRGINIA DEPARTMENT OF ENERGY, OIL AND GAS DIVISION  
**APPLICATION FOR A WELL WORK PERMIT**

- 4) WELL TYPE: A Oil  / Gas  /  
 B (If "Gas", Production  / Underground storage  / Deep  / Shallow  )
- 5) LOCATION: Elevation: 898' Watershed: Lower Run  
 District: Southwest County: Doddridge Quadrangle: Oxford 525
- 6) WELL OPERATOR Sheldon & Assoc. CODE: 14070 7) DESIGNATED AGENT David J. Sheldon  
 Address 1400 Johnson Avenue Address 1400 Johnson Avenue  
Bridgeport, WV 26330 Bridgeport, WV 26330
- 8) OIL & GAS INSPECTOR TO BE NOTIFIED Name Mike Underwood  
 Address Route 2, Box 135 Address P.O. Box 600  
Salem, WV 26426 Anmoore, WV 26323
- 9) DRILLING CONTRACTOR: Name Eastern Overthrust Drilling  
 Address P.O. Box 600  
Anmoore, WV 26323
- 10) PROPOSED WELL WORK: Drill  / Drill deeper  / Redrill  / Stimulate  /  
 Plug off old formation  / Perforate new formation  /  
 Other physical change in well (specify) \_\_\_\_\_
- 11) GEOLOGICAL TARGET FORMATION, Weir
- 12) Estimated depth of completed well, 2,500 feet
- 13) Approximate strata depths: Fresh, n. avbl. 120' feet; salt, 1460 feet.
- 14) Approximate coal seam depths: OKD Is coal being mined in the area? Yes  / No  /
- 15) CASING AND TUBING PROGRAM From Doddridge 180, 1883, 2188, 3379, 3590

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	11 3/4	H44			X	30'	0	Kinds
Fresh water								
Coal								
Intermediate	8 5/8	H44	20 lb	X		1048	1048	380 CSR18-11.3
Production	4 1/2	J55	10.5	X		2400	2400	CTS or as required by rule 300 SKS 380 CSR18-11.1
Tubing								
Liners								Perforations: Top Bottom

OFFICE USE ONLY  
 DRILLING PERMIT

Permit number 47-017-3631 Date March 9 19 88

This permit covering the well operator and well location shown below is evidence of permission granted to drill in accordance with the pertinent legal requirements subject to the conditions contained herein and on the reverse hereof. Notification must be given to the District Oil and Gas Inspector, (Refer to No. 8) Prior to the construction of roads, locations and pits for any permitted work. In addition, the well operator or his contractor shall notify the proper district oil and gas inspector 24 hours before actual permitted work has commenced.)

The permitted work is as described in the Notice and Application, plat, and reclamation plan, subject to any modifications and conditions specified on the reverse hereof.  
 Permit expires March 9, 1990 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond <u>5000</u>	Agent: <u>[Signature]</u>	Plat: <u>[Signature]</u>	Casing <u>[Signature]</u>	Fee <u>6</u> <u>628</u>	WAP <u>[Signature]</u>	SKS <u>[Signature]</u>	Other <u>M.U.</u>
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NOTE: Keep one copy of this permit posted at the drilling location.  
 Director, Division of Oil and Gas File  
 See the reverse side of the APPLICANT'S COPY for instructions to the well operator.