

9490'

LATITUDE 39°15'00"

LONGITUDE 80°45'00"

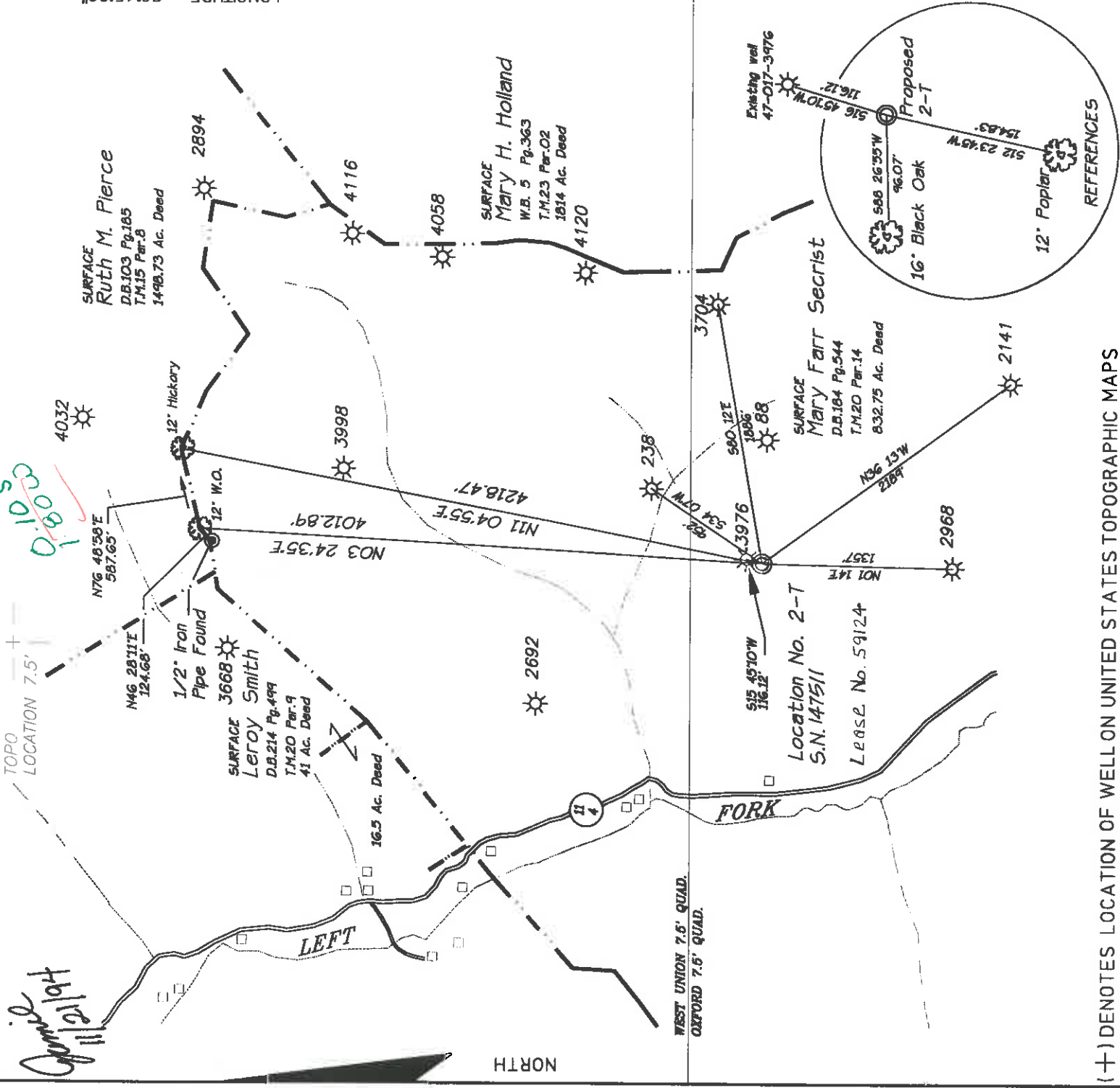
0.1000
0.800

TOPO LOCATION 7.5'

April 11/21/94

NORTH

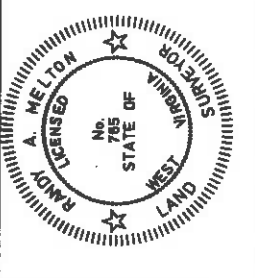
WEST UNION 7.5' QUAD.
OXFORD 7.5' QUAD.



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

FILE NO. _____
 DRAWING NO. ASH-T2DUG
 SCALE 1" = 1000'
 MINIMUM DEGREE OF ACCURACY 1: 13000
 PROVEN SOURCE OF ELEVATION 803.60'
 B.M. R133-195T

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 THE LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF ENERGY.
 (SIGNED) Randy A. Melton
 R.P.E. _____ L.L.S. 765



PLACE SEAL HERE

STATE OF WEST VIRGINIA
DEPARTMENT OF ENERGY
OIL AND GAS DIVISION



DATE OCTOBER 18, 19 94
 OPERATOR'S WELL NO. 2-T
 API WELL NO. SN.147511

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

LOCATION: ELEVATION 193.68' WATER SHED LEFT FORK OF ARNOLD CREEK
 DISTRICT WEST UNION COUNTY DODDRIDGE

QUADRANGLE OXFORD SURFACE OWNER Mary Farr Secrist
 OIL & GAS ROYALTY OWNER Lewis Maxwell et al. LEASE ACREAGE 832.15 OF 2654.88

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 Big Injun ESTIMATED DEPTH 2,125' KB
 WELL OPERATOR Ashland Exploration, Inc. DESIGNATED AGENT A. Roy Chandler
 ADDRESS P.O. Box 391 ADDRESS Rt. 6 Box 178
Ashland, Ky. 4114 Charleston, W.V. 25311

SEP 30 1996

Permitting
Office of Oil & Gas Well Operator's Report of Well Work

Farm Name: SECRETIST, MARY FARR Operator Well No.: 2-T-S-147511
 Location: Elevation: 1,193.68' Quadrangle: OXFORD
 District: WEST UNION County: DODDRIDGE
 Latitude: 550 Feet South of 39 Deg. 15 Min. 0 Sec.
 Longitude: 9490 Feet West of 80 Deg. 45 Min. 0 Sec.

Company: ASHLAND EXPLORATION, INC.
 P.O. BOX 391, OS-2
 ASHLAND, KY 41114-0391

Agent: B. E. Widener

Inspector: MIKE UNDERWOOD
 Permit Issued: 11-21-94
 Well Work Commenced: 08-17-96
 Well Work Completed: 08-30-96
 Verbal Plugging
 Permission granted on:
 Rotary X Cable Rig
 Total Depth (feet) 2146'
 Fresh water depths (ft) 230'
 Salt water depths (ft) None Noted
 Is coal being mined in area (Y/N)? N
 Coal Depths (ft): 1068-1074'

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
10 3/4"	19'	19'	CTS
7"	441'	441'	CTS
4 1/2"	2097'	2097'	106
2 3/8"		2016'	

OPEN FLOW DATA Big Injun 1998-2028
 Producing formation Blue Monday 1886-1870
 Gas: Initial open flow 127 Mcf/d Oil: Initial open flow Bbl/d
 Final open flow 103 Mcf/d Final open flow Bbl/d
 Time of open flow between initial and final tests 3 Hours
 Static Rock Pressure 385 psig (surface pressure) after 72 Hours

Second Producing formation
 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 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 FORMATION, INCLUDING COAL ENCOUNTERED BY THE WELLBORE.

For: Ashland Exploration, Inc.

By: Deanna M. Rose Deanna M. Rose, Asst. Eng.
 Date: 10-01-96

027 0 1996

Log Tops (KB):

224-297	Sand & Shale (Damp @ 230')
297-311	Red Rock
311-324	Red Rock & Sand
324-365	Red Rock
365-386	Sand
386-415	Red Rock & Sand
415-425	Sand & Shale
425-430	Sand
430-450	Red Rock & Sand
450-463	Sand
463-478	Shale
478-484	Red Rock
484-642	Sand & Shale
642-645	Red Rock
645-669	Sand & Shale
669-670	Red Rock
670-818	Sand & Shale
818-824	Red Rock
824-860	Sand & Shale
860-885	Red Rock & Shale
885-920	Sand
920-944	Red Rock & Shale
944-1068	Sand & Shale
1068-1074	Coal
1074-1084	Sand & Shale
1084-1091	Sand
1091-1132	Sand & Shale
1132-1137	Sand

1137-1152	Shale
1152-1169	Sand & Shale
1169-1180	Shale
1180-1189	Sand
1189-1224	Shale
1224-1275	Sand
1275-1329	Sand & Shale
1329-1357	Shale
1357-1389	Sand
1389-1410	Sand & Shale
1410-1601	Shale
1601-1606	Sand
1606-1632	Sand & Shale
1632-1640	Shale
1640-1730	Sand & Shale
1730-1746	Sand
1746-1780	Sand & Shale
1780-1806	Shale
1806-1814	Sand
1814-1838	Sand & Shale (GT @ 1815' = NS)
1856-1878	Shale & Lime
1856-1878	Little Lime
1878-1889	Shale
1889-1958	Big Lime
1958-1998	Big Injun (GT @ 1966' = 84 Mcf/d)
1998-2010	Shale
2010-2049	Sand
2049-2146	Shale (GT @ TD = 7 Mcf/d)

Perf Big Injun using 3 1/8" HCG .33 jets 2 spf 9H/1998-2004, 21H/2018-2028, 30H total. BD Big Injun & establish 11 BPM rate @ 1450 psi. ISIP 830. 75Q foam frac Big Injun using 30,000# 20/40 sand, 5800# 20/40 resin-coated sand and 141,000 scf N₂ @ 9500 scf/min. BD @ 1747, ATP 2580 @ 20 BPM foam, MTP 3994, ISIP 2225, 10 min 1760, TF 92 bbl.

Perf Blue Monday using 3 1/8" HCG .33 jets 4 spf @ 17H/1866-1870. BD Blue Monday @ 3424#. Establish 1 BPM rate @ 3495#, ISIP 2472, FG 1.8. Attempt to wrt frac Blue Monday w/30#/gal gel system @ .7 BPM @ 3600#.

FOR RECEIVED
WV Division of
Environmental Protection

017-4171

Page 1 of 1

STATE OF WEST VIRGINIA
DEPARTMENT OF ENERGY, DIVISION OF OIL AND GAS
WELL WORK PERMIT APPLICATION
NOV 03 1994
43
Office of Permits Gas
Ashland Exploration, Inc
Ashland/Maxwell

Issued 11/21/94
Expires 11/21/96
526
8

Operator's Well Number: 2-T, Serial #147511 3) Elevation: 1193.7

Well type: (a) Oil or Gas
(b) If Gas: Production Underground Storage
Deep Shallow

Proposed Target Formation(s): Big Injun 371

Proposed Total Depth: 2125 KB feet

Approximate fresh water strata depths: 105, 195, 342, 363

Approximate salt water depths: None

Approximate coal seam depths: No Mineable Seams - No Coal

Does land contain coal seams tributary to active mine? Yes No

Proposed Well Work: Drill and Stimulate New Well

CASING AND TUBING PROGRAM

TYPE	SIZE	GRADE	WEIGHT per ft.	FOOTAGE INTERVALS	CEMENT
Conductor	16	LS	42	For drilling 30	Fill-up (cu.ft.) CTS
Fresh Water	7	J-55	20	423	CTS
Coal					3005R10-11.3
Intermediate					3005R10-11.2
Production	4 1/2	J-55	10.5	2125	AS REQUIRED
Tubing	2 3/8	J-55	4.7	2000	SIPHON
Liners					3005R10-11.1

PACKERS: Kind _____
Sizes _____
Depths set _____

For Division of Oil and Gas Use Only
Fee(s) paid: Well Work Permit Reclamation Fund WPCP
 Plat WW-9 Bond SB Agent
(Type) _____

1/8

20003

RECEIVED
WV Division of
Environmental Protection

NOV 03 1994

- 1) Date: November 1, 1994
- 2) Operator's well number
Ashland/Maxwell #2-T, Serial #147511
- 3) API Well No: 47 - 017 - 4171
state - County - Permit

Permitting
Office of ~~Oil & Gas~~ 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 Mary Farr Secrist
 - Address 405 Church Street
West Union, WV 26456
 - (b) Name _____
 - Address _____
 - (c) Name _____
 - Address _____
- 5) (a) Coal Operator:
- Name None
 - Address _____
 - (b) Coal Owner(s) with Declaration
Name Same as No. 4(a)
 - Address _____
 - Name _____
 - Address _____
- 6) Inspector Mike Underwood
- Address Rt. 2 Box 135
Salem, WV 26426
 - Telephone (304) - 782-1043
 - (c) Coal Lessee with Declaration
Name None
 - Address _____

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 2 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 Ashland Exploration, Inc.

By: Don K. Cunningham

Its: Senior Engineer

Address P.O. Box 391

Ashland, KY 41114

Telephone 606-329-3870

Subscribed and sworn before me this 1st day of November, 1994

My commission expires November 23, 1994

Mike W. Roth Notary Public