

LATITUDE 39° 12' 30"

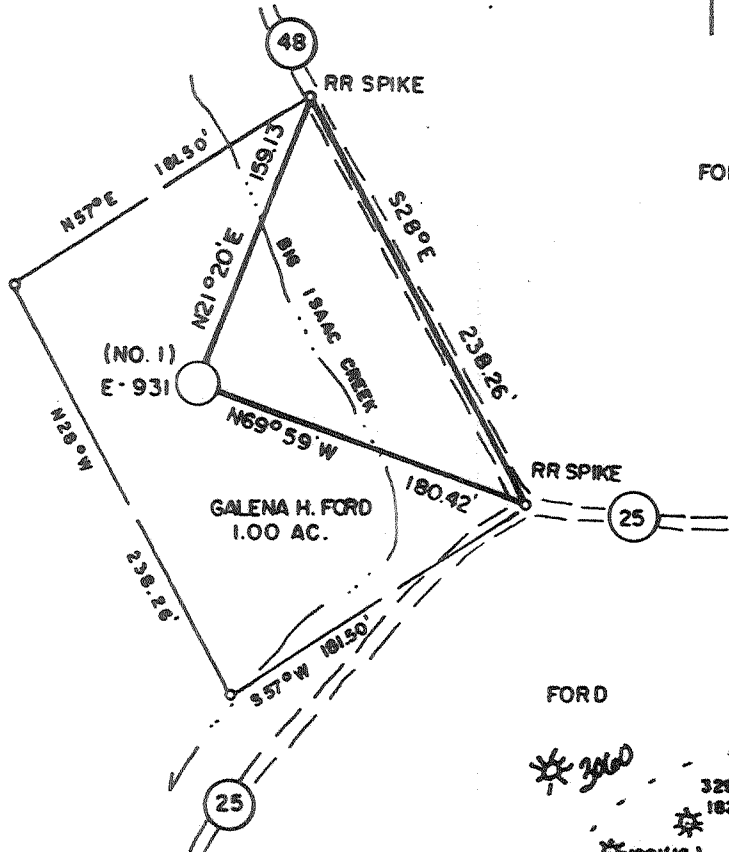
3940'

WELL REFERENCES:

N19°30'E, 107.50' TO 10" SYCAMORE
S60°00'E, 97.50' TO 4" B. WILLOW

Jamil
7/24/92

0.455 S
0.74 W



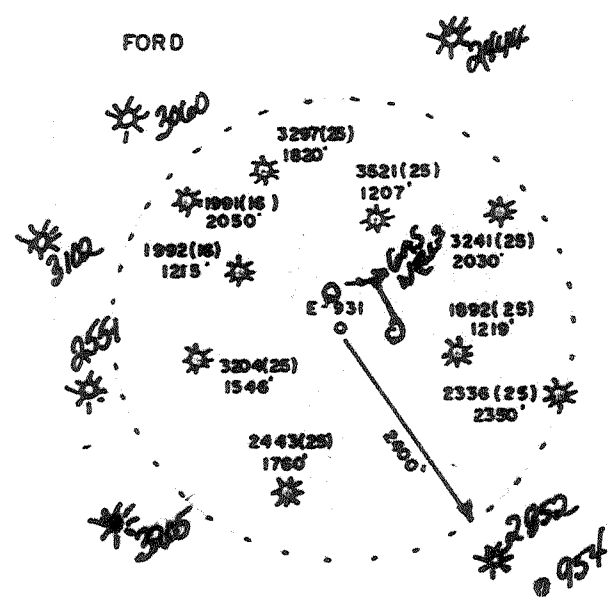
NORTH

LONGITUDE 80° 32' 08"

2410'

LAND SURVEYING SERVICES
21 CEDAR LANE
BRIDGEPORT, WV 26330
PHONE: 304-842-2018

3.33 S
2.97 W



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

FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 100'
 MINIMUM DEGREE OF ACCURACY 1 in 200
 PROVEN SOURCE OF ELEVATION RD. INTER. OF CO. RTS.
48 & 25 ELEV. 944'

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) _____
 R.P.E. _____ L.L.S. 674
 STEPHEN D. LOSH

PLACE SEAL HERE

STATE OF WEST VIRGINIA
DEPARTMENT OF ENERGY
OIL AND GAS DIVISION



DATE JUNE 11, 19 92
 OPERATOR'S WELL NO. E-931
 AP WELL NO. JESS FORD NO. 1
47 - 017 - 3977
 STATE COUNTY PERMIT

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
 (IF "GAS,") PRODUCTION STORAGE DEE SHALLOW
 LOCATION: ELEVATION 939' WATER SHED BIG ISAAC CREEK
 DISTRICT GREENBRIER COUNTY DODDRIDGE
 QUADRANGLE BIG ISAAC 7.5 min. Vadis NE
 SURFACE OWNER GALENA HEFLIN FORD ACREAGE 1.00
 OIL & GAS ROYALTY OWNER JESS FORD LEASE ACREAGE 1.00
 LEASE NO. 2471

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 ALEXANDER ESTIMATED DEPTH 5200'
 WELL OPERATOR EMAX OIL COMPANY DESIGNATED AGENT JOHN HASKINS
 ADDRESS P. O. BOX 112 ADDRESS P. O. BOX 112
SALEM, WV 26426 SALEM, WV 26426

COUNTY NAME

PERMIT

6.6 Meathouse Fork - Bristol (146)

REC-213

WV DIVISION OF ENVIRONMENTAL PROTECTION

State of West Virginia
Division of Environmental Protection
Section of Oil and Gas

OCT 14 92

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

Farm name: FORD, GALENA & JESS Operator Well No.: E-931

LOCATION: Elevation: 939.00 Quadrangle: BIG ISAAC

District: GREENBRIER County: DODDRIDGE
Latitude: 2410 Feet South of 39 Deg. 12Min. 30 Sec.
Longitude 3940 Feet West of 80 Deg. 32 Min. 30 Sec.

Company: EMAX OIL COMPANY
P. O. BOX 112
SALEM, WV 26426-0112

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
16"		25.85	
11 3/4	30'		
8 5/8		614.35	to surface
4 1/2		5151	425 sks

Agent: JOHN T. HASKINS

Inspector: MIKE UNDERWOOD
Permit Issued: 07/24/92
Well work Commenced: 8/24/92
Well work Completed: 8/31/92
Verbal Plugging _____
Permission granted on: _____
Rotary Cable _____ Rig
Total Depth (feet) 5236
Fresh water depths (ft) 40,120,250,320
Salt water depths (ft) 0
Is coal being mined in area (Y/N)? n
Coal Depths (ft): 125-130

OPEN FLOW DATA

Producing formation Alexander, Benson, Balltown Pay zone depth (ft) 3409-5068
Gas: Initial open flow n/t MCF/d Oil: Initial open flow n/a Bbl/d
Final open flow 455 MCF/d Final open flow n/a Bbl/d
Time of open flow between initial and final tests n/a Hours
Static rock Pressure 1365 psig (surface pressure) after 72 Hours

Second producing formation _____ Pay zone depth (ft) _____
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 FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE.

Reviewed TM6
Recorded _____

For: EMAX OIL COMPANY
By: [Signature]
Date: 10/7/92

Alexander: perforated from 5058-5068 with 12 holes. Water fraced at 26 bpm with 45,000# sand
434 bbl water.

Benson: perforated from 4722-4730 with 12 holes. Water fraced at 30 bpm with 55,000# sand in
513 bbl water.

Balltown: perforated from 3409-3567 with 10 holes. water fraced at 32 bpm with 25,000# sand in
358 bbl water.

sand & shale	0	125
coal	125	130
sand & shale	130	1807
Big Lime	1807	1858
Big Injun	1858	1946
sand & shale	1946	2413
50'	2413	2425
30'	2451	2464
sand & shale	2464	2526
Gordon	2526	2550
sand & shale	2550	2728
5th sand	2728	2731
sand & shale	2731	3410
Balltown	3410	3578
sand & shale	3578	4720
Benson	4720	4780
sand & shale	4780	5006
Alexander	5006	5086
sand & shale	5086	5236 TD

Gamma Ray tops

Big Lime	1807	1858
Big Injun	1858	1946
50'	2413	2425
30'	2451	2464
Gordon	2526	2550
5th	2428	2731
Balltown	3410	3578
Benson	4720	4780
Alexander	5006	5086

RECEIVED
WV Division of
Environmental Protection
OCT 14 92
Permitting
Office of Oil & Gas

648
13
889

017 - 3977
Issued 7/24/92
Expires 7/24/94

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

- 1) Well Operator: EMAX Oil Company 15475 (4) 252
- 2) Operator's Well Number: E-931 3) Elevation: 939
- 4) Well type: (a) Oil or Gas
(b) If Gas: Production Underground Storage
Deep Shallow
- 5) Proposed Target Formation(s): Alexander
- 6) Proposed Total Depth: 5200 feet
- 7) Approximate fresh water strata depths: 236'
- 8) Approximate salt water depths: 930'
- 9) Approximate coal seam depths: NONE REPORTED
- 10) Does land contain coal seams tributary to active mine? Yes No
- 11) Proposed Well Work: Drill and stimulate new well
- 12)

CASING AND TUBING PROGRAM

TYPE	SPECIFICATIONS			FOOTAGE INTERVALS		CEMENT Fill-up (cu. ft.)
	Size	Grade	Weight per ft.	For drilling	Left in well	
Conductor	11 3/4			30'		
Fresh Water						385 RB/1.3
Coal						385 RB/1.22
Intermediate	8 5/8				600	to surface
Production	4 1/2				5200	250 sks
Tubing						385 RB/1.1
Liners						

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 WW-23 Bond C. D. Campbell Agent
 (Type)

15889

23006
25

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M 0 8
Permitting
Office of Oil & Gas

- 1) Date: June 12, 1992
- 2) Operator's well number
E-931 Jess Ford
- 3) API Well No: 47 - 017 - 3917
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 Galena & Jess Ford
Address 15 Meadow Lane
Bridgeport, WV 26330
 - (b) Name _____
Address _____
 - (c) Name _____
Address _____
- 6) Inspector Mike Underwood
Address Route 2, Box 135
Salem, WV 26426
Telephone (304)-782-1043

- 5) (a) Coal Operator:
Name _____
Address _____
- (b) Coal Owner(s) with Declaration
Name no coal owner with declaration
Address _____
- (c) Coal Lessee with Declaration
Name _____
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
 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:
 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 EMAX Oil Company
By: Richard H. Thomas
Its: Geologist
Address P. O. Box 112
Salem, WV 26426
Telephone 304-623-9600

Subscribed and sworn before me this 12 day of June, 1992

Roger Jim Notary Public
My commission expires April 23, 1993