

(15') 78° 55' Longitude 78° 57' 30"

ADDITIONAL ADJOINERS

- N George B. Halterman, et. ux., et. al.
- NE William H. Muntzing, II, et. ux.
- E George T. Leatherman, II, et. ux.
- E Evelyn D. McNeil
- SE Nadine P. McNeil, Widow
- S Thomas B. McNeil, et. ux.
- S C. D. Alt, Agent
- S Albert R. Leatherman, II, Agent
- SW Emory Crites, et. al.
- SW Charles W. Woerner, Sr., et. al.
- W Anna M. Veach
- N Darley D. Smith, et. ux.
- N Emory Crites, et. al.

1000 AC. UNIT
 52.00
 41.72
 23.3

Bench Mark:

U.S.G.S standard disk stamped 169-CMP-196 in corner N.W. abutment of U.S. Route 220 bridge over Anderson Run 0.1 Miles South community of Old Fields. Elev. 788.043

Prepared By
LOWE ENGINEERS, INC.
 Charleston, W. Va.

"I, the undersigned, hereby certify that this map 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."
 Minimum degree of accuracy is one part in 200

- New Location
- Storage
- Drill Deeper
- Abandonment
- Re-Drill/Fracture

Signed Robert F. Rogers
 Robert F. Rogers W.Va. L.L.S. 142

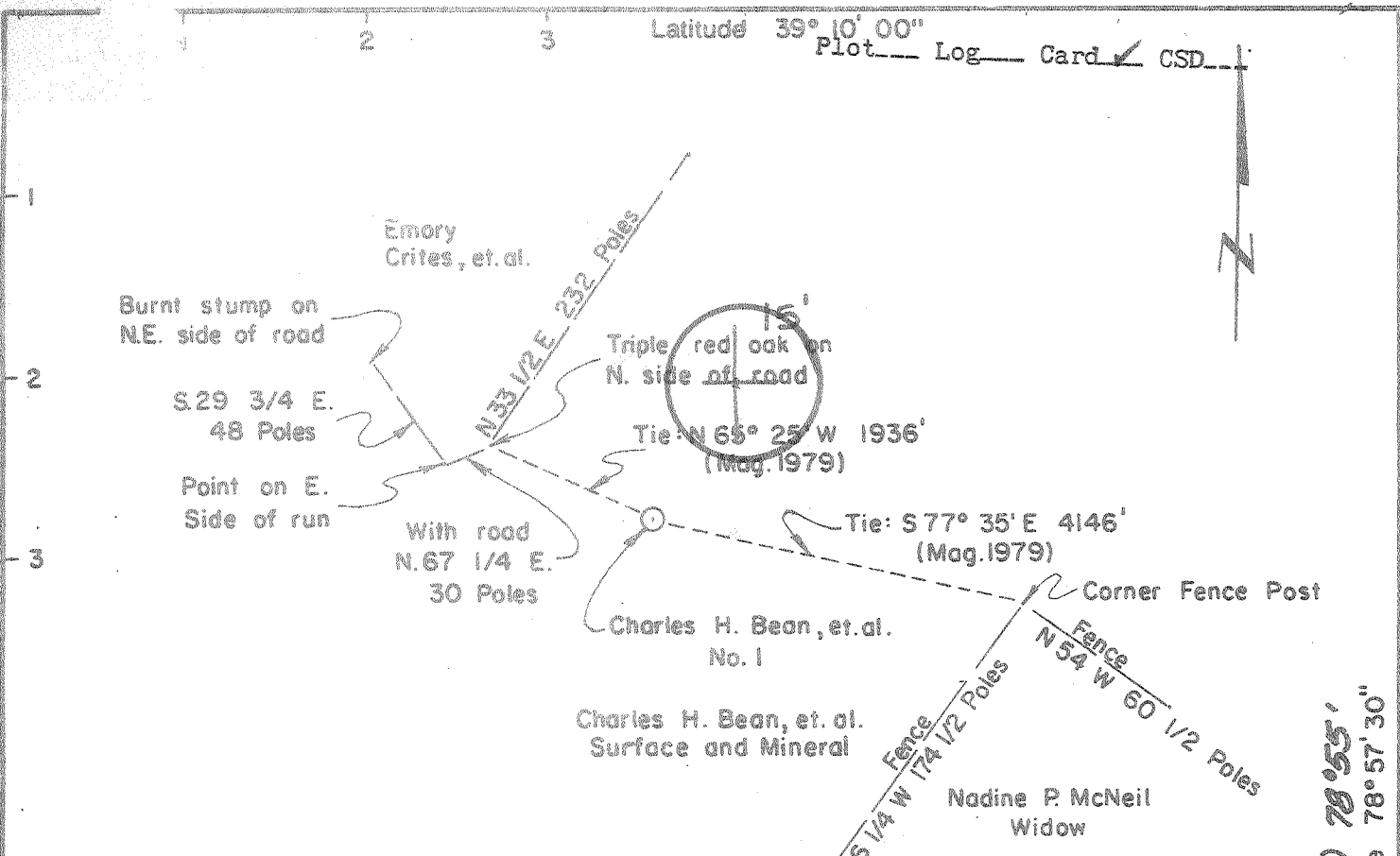
Company Exxon Company, U.S.A
 Address P.O. Box 61812, New Orleans, La. 70161
 Farm Charles H. Bean, et. al.
 Lease Charles H. Bean, et. al. Acres 1.187
 Charles H. Bean, et. al.
 Well Farm No. No. 1 Ser. No. _____
 Elevation - Spirit Level 1022
 Quadrangle Old Fields 7 1/2' (NW4 Moorefield 15' Quadrangle) WC
 Township or District Moorefield 3
 County Hardy
 Sec., Lot, Gr. _____ T. _____ R. _____
 Coordinates N 232,600 E 2,144,600
 File No. _____ Dwg. No. 1 of 1
 Date August 15, 1979 Scale 1" = 2000'

WELL LOCATION MAP
 (+) Denotes Values Of Well On United States Topographic Maps
47-031-0021-P
 Scale 15' 7 1/2'
WEST VIRGINIA
OFFICE OF OIL AND GAS
OF THE DEPARTMENT OF MINES

Deep Well

1-0

AUG 4 1980



(15) 78° 55' Longitude 78° 57' 30"

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- SW Charles W. Woerner, Sr., et. al.
- W Anna M. Veach
- N Darley D. Smith, et. ux.
- N Emery Crites, et. al.

7 1/2
 + 1000 AC. UNIT

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 Address P.O. Box 61812, New Orleans, La. 70161
 Farm Charles H. Bean, et. al.
 Lease Charles H. Bean, et. al. Acres 1,187
Charles H. Bean, et. al.
 Well Farm No. No. 1 Ser. No. _____
 Elevation - Spirit Level 1022 *WC*
 Quadrangle Old Fields 7 1/2' (NW4 Moorefield) 15' Quadrangle
 Township or District Moorefield
 County Hardy
 Sec., Lot, Qr. _____ T. _____ R. _____
 Coordinates N 232,600 E 2,144,600
 File No. _____ Dwg. No. 1 of 1
 Date August 15, 1979 Scale 1" = 2000'

WELL LOCATION MAP

(+) Denotes Values Of Well On United States Topographic Maps

47-031-0021

Scale 15' 7 1/2'

**WEST VIRGINIA
 OFFICE OF OIL AND GAS
 OF THE DEPARTMENT OF MINES**

Date: July 28, 19 80

Operator's Charles H. Bean,
Well No. et al Well No. 1

API Well No. 47 - 031 - 0021.
State County Permit

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

WELL OPERATOR'S REPORT
OF

DRILLING, REWORKING AND/OR RECOMPLETION, OR OTHER CHANGE

WELL TYPE: Oil / Gas / Liquid Injection Waste Disposal
(If "Gas", Production / Underground storage / Deep / Shallow)
LOCATION: Elevation: 1022' Watershed: _____
District: Moorefield County: Hardy Quadrangle: Old Field 7 1/2'
WELL OPERATOR Exxon Corporation Sec. of State, *C T Corp.
Address P. O. Box 60626 Designated Agent Sys. W. M. Woodroe
New Orleans, La. 70160 Address 1200 Charleston National Plaza
Charleston, W. Va. 25301

*Address for receipt of process

PERMITTED WORK: Drill / Convert / Drill deeper / Redrill / Pressure or stimulate
Plug off old formation / Perforate new formation
Other physical change in well (specify) _____

PERMIT ISSUED ON October 1, 19 79

OIL & GAS INSPECTOR FOR THIS WORK:

(IF APPLICABLE: PLACING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED

Name Robert Stewart

July 8, 19 80

Address P. O. Box 345

Jane Lew, W. Va. 26378

GEOLOGICAL TARGET FORMATION: _____

Depth _____ feet

Depth of completed well, 16,075 feet Rotary / Cable Tools _____

Water strata depth: Fresh, 390 feet; salt, 3047 feet.

Coal seam depths: N/A Is coal being mined in the area? No

Work was commenced February 6, 19 80, and completed July 12, 19 80

GASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS				FOOTAGE INTERVALS		CEMENT FILL-UP OR SACS (Cubic Feet)	PACKERS
	Size	Grade	Weight per ft.	New	Used	For drilling		
Conductor	20"	H-40	94	X		78'	78'	300 sks. Rings
Fresh water	13 3/8"	K-55	68	X		1,490'	1,490'	900 sks.
Coal								Sizes
Intermediate	9 5/8"	N-80 S-95	43.5	X		5,997'	5,997'	950 sks.
Production								Depth set
Tubing								Perforations:
Annulus								Top Bottom

RECEIVED
JUL 30 1980

OPEN FLOW DATA

OIL & GAS DIVISION

DEPT. OF MINES

Producing formation Dry hole - plugged and abandoned. 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

[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 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

AUG 11 1980

08-78

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

N/A

Well Log

FORMATION	Color	Hard or Soft	Top Feet	Bottom Feet	Remarks including indication of all gas and salt water, coal, oil and gas
Devonian Shale	blk.	Hard	0	490	
Oriskany Sandstone	lt. gy.	"	490	650	
Shriver Chert	lt. gy.	"	650	793	
Helderberg Limestone	gy.	"	793	1112	
Tonoloway Dolomite	gy.	"	1112	1754	
Wills Creek Limestone	gy.	"	1754	2026	
Williamsport SS.	lt. gy.	"	2026	2047	
McKenzie Shale	gy.	"	2047	2272	
Keefer Sandstone	red	"	2272	2297	
Rose Hill Shale	gn.-gy.	"	2297	2613	
Cacapon Sandstone	red	"	2613	2668	
Lower Rose Hill Shale	gn.-gy.	"	2668	2757	
Tuscarora Sandstone	wht.	"	2757	3140	brackish water @ 3047 (2800ppm Cl)
Juniata Formation	red	"	3140	3774	
Oswego Sandstone	gy.	"	3774	4325	
Martinsburg Shale	blk.	"	4325	5495	
Trenton Limestone	dk. gy.	"	5495	5890	
Blackriver Limestone	gy.	"	5890	6710	
"Chazy" Dolomite	dk. gy.	"	6710	6894	
Beekmantown Dolomite	gy.	"	6894	9106	brackish water @ 7600-30 (3000ppm Cl)
Copper Ridge Dol.	gy.	"	9106	10540	
Elbrook Dolomite	gy.	"	10540	11970	
Rogersville Shale	dk. gy.	"	11970	12085	
Fault			12085		
Elbrook Dolomite	gy.	"	12086	12208	
Rogersville Shale	dk. gy.	"	12208	12344	
Rutledge Limestone	gy.	"	12344	12614	
Rome Shale	red, gn.	"	12614	12872	
Fault			12872		
Rutledge Limestone	gy.	"	12872	13142	
Rome Shale	red, gn.	"	13142	13704	
Shady(?) Dolomite	gy.	"	13704	14040	
Fault			14040		
Rome Shale	red, gn.	"	14040	14755	
Dolomite	gy.	"	14755	16075 TD	

(Attach separate sheets as complete as necessary)

Exxon Corporation

Well Operator

By Alford
Its Revenue & Regulatory Acctg. Superv.

MRH/sk
7/28/80

NOTE: Regulation 2.10.10 provides as follows:
The term "operator" means the person who is responsible for the operation of the well and who is required to file a well log with the Department of Environmental Protection.

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

OIL AND GAS WELL PERMIT APPLICATION

WELL TYPE: Oil / Gas X /
(If "Gas", Production X / Underground storage Deep X / Shallow /)
LOCATION: Elevation: 1022 Watershed:
District: Moorefield County: Hardy Quadrangle: Old Field 7 1/2'

WELL OPERATOR Exxon Corporation
Address P. O. Box 60626
New Orleans, Louisiana 70160

DESIGNATED AGENT Secretary of State
*C T Corporation System
W. M. Woodroge
Address 1200 Charleston National Plaza
Charleston, W. Virginia 25301

OIL & GAS ROYALTY OWNER Sally Pancake Bean and
Effie Susan Pancake Maphis
Address P. O. Box 982
Martinburg, W. Virginia 25401

*Address for receipt of process.

COAL OPERATOR None
Address

ACREAGE 1196.0

COAL OWNER(S) WITH DECLARATION ON RECORD:

SURFACE OWNER Same as above.
Address

Name N/A
Address

ACREAGE

Name
Address

FIELD SALE (IF MADE) TO:
Name Unknown
Address

COAL LESSEE WITH DECLARATION ON RECORD:
Name N/A
Address

OIL & GAS INSPECTOR TO BE NOTIFIED
Name Robert Stewart
Address P. O. Box 345
Jane Lew, W. Virginia 26378

[Handwritten signature and stamp]
OCT 1 1979

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 January 12, 1977, to the undersigned well operator from Don W. Maphis & Effie Susan Maphis, [If said deed, lease, or other contract has been recorded:] Weaver Oil & Gas Corp. has assigned the lease to Exxon Corporation Recorded on February 16, 1978, in the office of the Clerk of the County Commission of Hardy County, West Virginia, in Deed Book 149 at page 320. A permit is requested as follows:

PROPOSED WORK: Drill X / Drill deeper / Redrill / Fracture or stimulate X /
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 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) 348-3092

Exxon Corporation
Well Operator

By J. J. [Signature]
Attorney-in-Fact

PROPOSED WORK ORDER

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

DRILLING CONTRACTOR (IF KNOWN) Delta Drilling Co.
Address P. O. Box 781
Indiana, Pennsylvania 15701

GEOLOGICAL TARGET FORMATION, Cambrian Rome Shale

Estimated depth of completed well, 13,500 feet Rotary Cable tools

Approximate water strata depths: Fresh, 300 feet; salt, 500 feet.

Approximate coal seam depths: --- 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	20	H-40	94.0	X		0 - 100		100 cu. ft.	or to surface.
Fresh water	16	K-55	84.0	X		0 - 1100		600 cu. ft.	or to surface.
Coal	---	---	---	---					
Intermediate	10 ³ / ₈	K-55 L-80	45.5 55.5	X X		0 - 8000		3000 cu. ft.	or to 3000' Sizes
Production	5 ¹ / ₂	L-80 N 80	17 20	X X		0 - 13500		1800 cu. ft.	or to 9000' Depths set
Tubing	2 ⁷ / ₈	L-80	6.5	X		0 - 13000		---	
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-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 § 22-4-8a 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.

*Packer size and setting depths will be determined from actual drilling and logging operations.

Actual casing setting depths may vary depending on our drilling experience.

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 6-1-80.

[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 declaration 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 N/A

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

Date: July 12, 1980
 Operator's Charles H. Bean, et al
 Well No. 1
 API Well No. 47 - 031 - 0021
 State West Virginia County Hardy Permit 11

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

AFFIDAVIT OF PLUGGING AND FILLING WELL

881 2 8 1030

WELL TYPE: Oil ___ / Gas X / Liquid Injection ___ / Waste Disposal ___
 (If "Gas", Production ___ / Underground storage ___ / Deep X / Shallow ___)
 LOCATION: Elevation: 1022' Watershed: ___
 District: Moorefield County: Hardy Quadrangle: Old field 7-1/2 feet
 WELL OPERATOR Exxon Corporation Sec. of State, *C. T. Corp. Sys.
 Address P. O. Box 60626 DESIGNATED AGENT W. M. Woodroe
New Orleans LA 70160 Address 1200 Charleston National Plaza
Charleston, W. Va. 25301

STATE OF WEST VIRGINIA,)
 COUNTY OF Hardy) ss: *Address for receipt of process

JOSEPH D DEVILLIER and JOHN O GURLEY

being first duly sworn according to law, depose and say that they are experienced in the work of
 plugging and filling oil and gas wells; that they were employed by EXXON
 as well operator, and participated in the work of plugging and filling the above well; that the work
 commenced on 7-8-80, 1980, and completed on 7-12-, 1980, in the
 following manner:

PERMITTED WORK: Plug and abandon X / Clean out and replug ___ /

PLUGGING MATERIALS

Type of Cement	Other Materials	Depth	Thickness
Class A	35% D-13, 12% D-5	5600 to 7600	2000'
Class A	300SK + 3%		
	CaCl ₂	500'-1490'	990'
Class A	36SKS + 3%		
	CaCl ₂	150'	150'

COAL SEAMS (NAMES AND DEPTHS)
N/A

Bridge Plugs Used--Type and Depth
HALIBURTON - 9 5/8" EZ DISPOSAL
PACKER SET @ 5769'

DESCRIPTION OF WELL MONUMENT
24" X 14 1/2" X 1/4"
PLATE - WITH FOLLOWING
RAISED LETTERING;
EXXON CO. USA
JULY 11, 1980
470310021

VENT PIPE N/A
 MISCELLANEOUS MATERIALS N/A

CASING LOST: 78'-20", 1,490' - 13-3/8",
5,997' - 9-5/8"

TYPE OF RIG:
 Owner: Well Op'r ___ / Contractor X /
 Rig time: ___ days plus ___ hours

W. M. Woodroe (SEAL)
John O. Gurley (SEAL)

Subscribed and sworn to before me this
16 day of July, 1980.
 My commission expires May 12, 1985.

Wanda J. Connelley
 Notary Public