

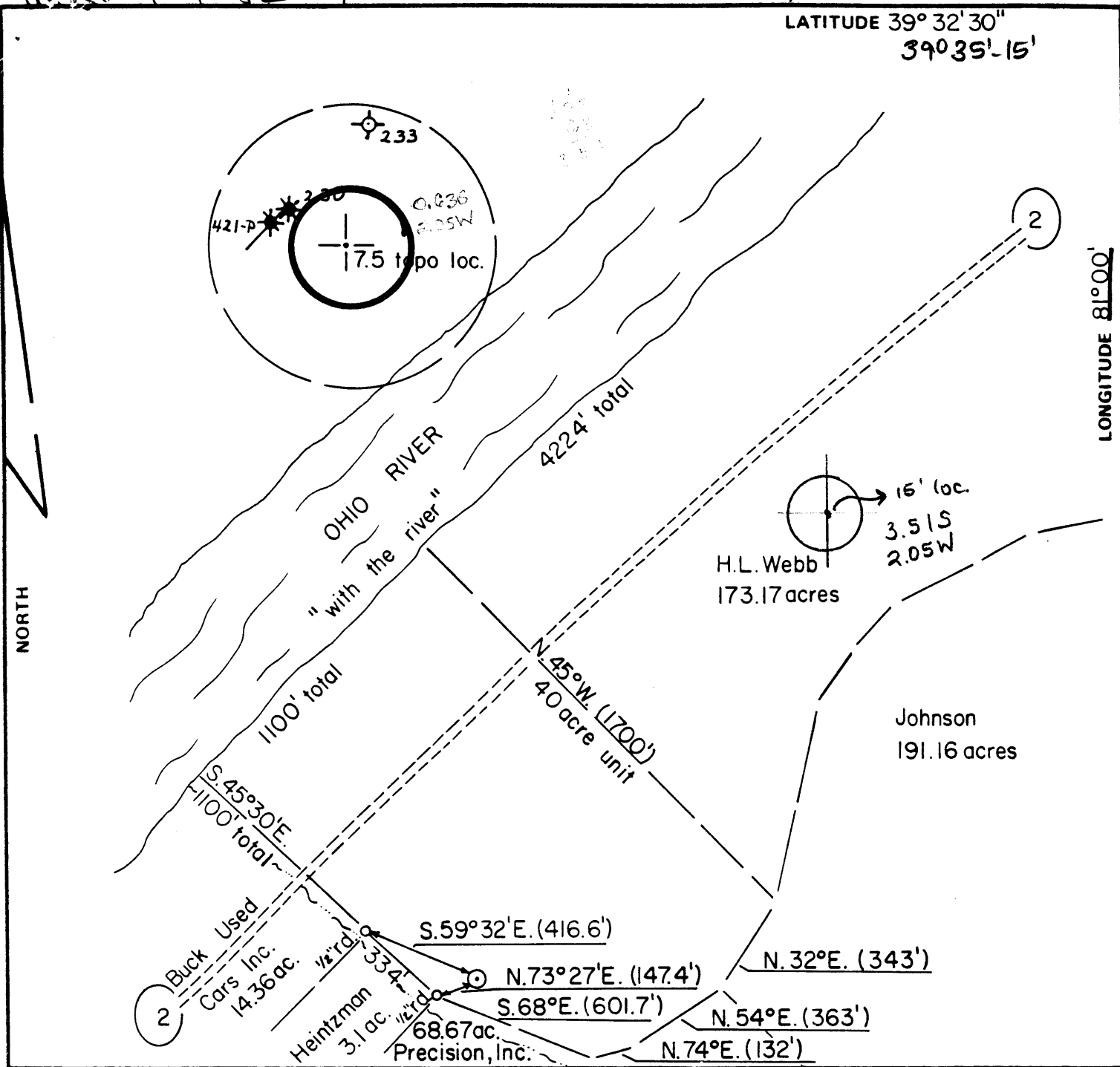
1-4-82

Pilot Card

10,700'

LATITUDE 39° 32' 30"
39035'-15'

LONGITUDE 81° 00'



FILE NO. 81-1241
 DRAWING NO. 1
 SCALE 1" = 500'
 MINIMUM DEGREE OF ACCURACY 1:2500
 PROVEN SOURCE OF ELEVATION intersection old co. rd. & new rt. 2 = 632' (topo)

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 MINES.
 (SIGNED) H. Webb
 R.P.E. _____ L.L.S. 699

PLACE SEAL HERE

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS
 FORM IV-6 (8-78)



DATE December 1, 1981
 OPERATOR'S WELL NO. H. WEBB #1
 API WELL NO. _____
47 - 095 - 975
 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 623 WATER SHED un-named drain/Ohio River
 DISTR. Union 6 510 COUNTY Tyler
 QUADRANGLE New Matamoras N 15' SE 092 9
 SURFACE OWNER H. Webb ACREAGE 179.17 ac.
 OIL & GAS ROYALTY OWNER H. WEBB LEASE ACREAGE 19.2 ac.
 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 UPPER DEVONIAN HAMPSHIRE FORMATION ESTIMATED DEPTH 4,200'
 WELL OPERATOR Frederick Petroleum DESIGNATED AGENT James F. Doan
 ADDRESS Route 1 ADDRESS P.O. Box 31
Marietta, Ohio Middlebourne, W.Va. 26149

JAN 26 1982



Date Feb. 19, 1987
 Operator's Well No. 1
 Farm Harry Webb
 API No. 47 - 095 - 0975

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State of West Virginia
 Department of Mines
 Oil and Gas Division

DIVISION OF OIL & GAS
 DEPARTMENT OF ENERGY

WELL OPERATOR'S REPORT
 OF

DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

REVISED

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

LOCATION: Elevation: 629' K.B. Watershed Ohio River
 District: Union County Tyler Quadrangle New Matamoras

COMPANY Gedco Oil & Gas Inc.
 ADDRESS 950 Third Ave, 25th Floor New York, NY 10022
 DESIGNATED AGENT Lewis Holmes
 ADDRESS Star Route Box 58 Bens Run, WV 26135
 SURFACE OWNER Harry Webb
 ADDRESS 800 Main St. Sistersville, WV 26175
 MINERAL RIGHTS OWNER Same as above
 ADDRESS
 OIL AND GAS INSPECTOR FOR THIS WORK Robert Lowther
 ADDRESS Middlebourne, WV
 PERMIT ISSUED ?
 DRILLING COMMENCED Feb. 5, 1982
 DRILLING COMPLETED Feb. 12, 1982
 IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED ON

Casing & Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft.
Size 20-16 Cond.			
13-10"			
9 5/8			
8 5/8			
7	1542'	1542'	115 sacks
5 1/2			
4 1/2	3924'	3924'	260 sacks
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Devonian Shale Interval Depth 3908 feet
 Depth of completed well 3908 feet Rotary X / Cable Tools
 Water strata depth: Fresh feet; Salt feet
 Coal seam depths: 390'-395', 542'-548' Is coal being mined in the area? NO

OPEN FLOW DATA

Producing formation Devonian Shale Pay zone depth 3675-3880 feet
 Gas: Initial open flow 100 Mcf/d Oil: Initial open flow 2 Bbl/d
 Final open flow 100 Mcf/d Final open flow 2 Bbl/d

Time of open flow between initial and final tests 24 hours

Static rock pressure 1020 psig (surface measurement) after 48 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

(REVISED)

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

Interval	No. of Perforations	Type of Perforations
3676' - 3682' (4)	4 shots	0.39" Select Fire
3746' - 3753' (7)	24 shots	0.39" Select Fire
3808' - 3812' (4)	4 shots	0.39" Select Fire
3828' - 3832' (4)	4 shots	0.39" Select Fire
3876' - 3880' (4)	4 shots	0.39" Select Fire

Well was fractured with 500 mscf of N₂ @ 30 mscf/min. BDP was 3450 psia. TP was 2800 psia.

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
Cow Run		soft	588'	599'	
Salt Sand		soft	816'	854'	
Maxton		soft	1102'	1154'	
Maxville Lime		hard	1178'	1196'	
Big Injun		soft	1390'	1508'	Show of oil & gas
Squaw		soft	1516'	1542'	Show of oil & gas
Wier		soft	1762'	1860'	Show of gas
Berea		hard	2074'	2080'	Show of gas
Thirty Foot		soft	2330'	2342'	Show of gas
Gordon		soft	2476'	2606'	Show of gas
Devonian Shale		soft	2606'	3908'	Show of gas
				TD,	

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DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

(Attach separate sheets as necessary)

Gedco Oil & Gas Inc.
Well Operator
By: *[Signature]*
Date: Feb. 19, 1987

Note: Regulation 2.02(i) provides as follows:
"The term 'log' or 'well log' shall mean a systematic



IV-35
(Rev 8-81)

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State of West Virginia
Department of Mines
Oil and Gas Division

Date 8-22-83
Operator's Well No. #1
Farm Webb
API No. 47 - 095 - 0975

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

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

LOCATION: Elevation: 623' Watershed Ohio River
District: Union County Tyler Quadrangle New Matamoras

COMPANY Frederick Petroleum Corporation
ADDRESS Rt. 1, Box 124, Marietta, OH
DESIGNATED AGENT JIM DOAN
ADDRESS P. O. Box 31, Middlebourne, WV
SURFACE OWNER H. Webb
ADDRESS Grape Island, WV
MINERAL RIGHTS OWNER H. Webb
ADDRESS Grape Island, WV
OIL AND GAS INSPECTOR FOR THIS WORK Phillip Tracey ADDRESS Alma, WV
PERMIT ISSUED 12-4-81
DRILLING COMMENCED 2-6-82
DRILLING COMPLETED 2-12-82

Casing & Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft.
Size 20-16 Cond.			
13-10"			
9 5/8			
8 5/8			
7	1542'	1542'	Surface
5 1/2			
4 1/2	3921'	3921'	2100'
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Ohio Shale Depth 4200' feet
Depth of completed well 3950' feet Rotary / Cable Tools ___
Water strata depth: Fresh 90 feet; Salt 1450 feet
Coal seam depths: 100, 300, 500 Is coal being mined in the area? No

OPEN FLOW DATA
Producing formation Ohio Shale *Dry hole* Pay zone depth 3950 feet
Gas: Initial open flow 0 Mcf/d Oil: Initial open flow 0 Bbl/d
Final open flow 0 Mcf/d Final open flow 0 Bbl/d
Time of open flow between initial and final tests 1 hours

Static rock pressure 130 psig (surface measurement) after 1 hours shut in
(If applicable due to multiple completion--)

Second producing formation None 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

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

Has not been perforated or fractured.

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
					Including indication of all fresh and salt water, coal, oil and gas
		Fill	0	30	
		Sand	30	120	
		Silt	120	300	
		Shale	300	490	
		Lime	490	650	
		Sand	650	900	
		Shale	900	1200	
		Sand	1200	1400	
		Silt	1400	1600	
		Shale	1600	TD	
			T.D.	3950	
				Huron @ T.D.	
	404	2080			
	813	3350			

(Attach separate sheets as necessary)

Frederick Petroleum Corporation

Well Operator

By: Kevin Berry

Date: 9-21-83

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."



STATE OF WEST VIRGINIA
OFFICE OF OIL AND GAS - DEPARTMENT OF MINES

OIL AND GAS WELL PERMIT APPLICATION

WELL TYPE: Oil xxx / Gas xxx /
(If "Gas", Production ___ / Underground storage ___ / Deep ___ / Shallow xxx /

LOCATION: Elevation: 623 Watershed: un-names drain/Ohio River
District: Union County: Tyler Quadrangle: New Matamoras

WELL OPERATOR FREDERICK PETROLEUM
Address Rt. 1
Marietta, Ohio 45750

DESIGNATED AGENT JAMES F. DOAN
Address P.O. Box 31
Middlebourne, WV 26149

OIL AND GAS ROYALTY OWNER H. Webb
Address _____

COAL OPERATOR _____
Address _____

Acreage 192

COAL OWNER(S) WITH DECLARATION ON RECORD:
NAME _____
Address _____

SURFACE OWNER H. Webb
Address _____
Acreage 179.17

NAME _____
Address _____

FIELD SALE (IF MADE) TO:
NAME _____
Address _____

COAL LESSEE WITH DECLARATION ON RECORD:
NAME _____
Address _____

OIL AND GAS INSPECTOR TO BE NOTIFIED:
NAME Phillip Tracey
Address Alma, WV
Telephone 758-4573

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OIL AND GAS DIVISION
WV DEPARTMENT OF MINES

The undersigned well operator is entitled to operate for oil or gas purposes at the above location under a deed ___ / lease xxx / other contract ___ / dated Nov. 18, 1981, to the undersigned well operator from Harry and Christine T. Webb.

(If not deed, lease, or other contract has been recorded:)

Recorded on Dec. 2, 1981, in the office of the Clerk of County Commission of Tyler County, West Virginia, in 235 Book at page 34. A permit is requested as follows:

PROPOSED WORK: Drill xxx / 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 conditions 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 receipt of this Application by the Dept. 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 Application to the Department of Mines at Charleston, West Virginia.

PLEASE SUBMIT COPIES OF ALL GEOPHYSICAL LOGS DIRECTLY TO:

WEST VIRGINIA OIL AND GAS
REGULATION COMMISSION
1115 WASHINGTON ST., E.
CHARLESTON, WV 25311
Telephone - 304/348-3092

Frederick Petroleum Corp.
Well Operator

By: Thomas R. Lloyd

His: Vice President

BLANKET BOND

(Revised 3-81)

PROPOSED WORK ORDER

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

DRILLING CONTRACTOR (IF KNOWN) _____

Address _____

GEOLOGICAL TARGET FORMATION Shale (Devonian)
Estimated depth of completed well 4,200 feet. Rotary xxx / Cable tools /
Approximate water strata depths: Fresh, feet; salt, feet.
Approximate coal seam depths:
Is coal being mined in this area: Yes / No xxx /

CASING AND TUBING PROGRAM

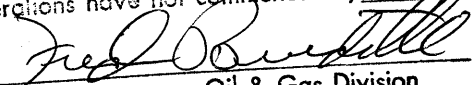
CASING OR TUBING TYPE	SPECIFICATIONS				FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS Cubic ft.	PACKERS
	Size	Grade	Weight per ft	New	Used	For Drilling		
Conductor								Kinds
Fresh water	8-5/8					1000	1000	To Surface
Coal								Sizes
Intermed.								
Production Tubing	4-1/2						440 cement	Depths set
Liners							or as reqd. by rule 15.01	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.

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 9-5-82.


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

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 regularions.

Date: , 19 .

By: _____

Its: _____