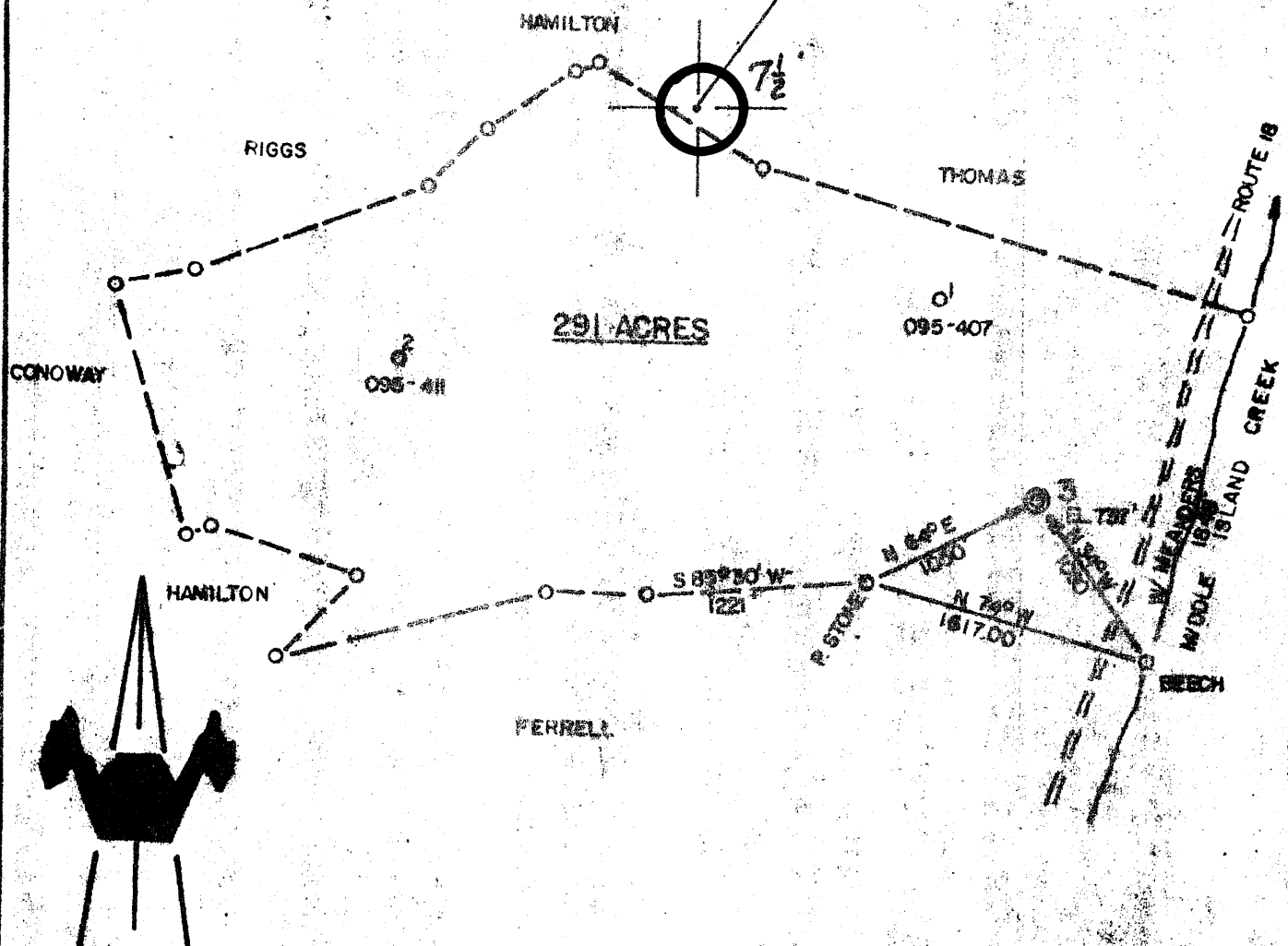


Latitude 39° 25' 00" Longitude 81° 50' 00"

8060' SOUTH
7600' WEST



ACCURACY: 1"/200'

New Location
 Drill Deeper
 Abandonment
 Fracture
 Redrill
 Other

Formation BENSON Oil
 Est. Depth 4900' Gas
 Other

Source of Elevation ENGINEER LEFT OFF
SOURCE ON ELEVATIONS
 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 the regulations of the oil and gas section of the mining department.

Company QUAKER STATE OIL REFG. CORP
 Address PARKERSBURG, WV
 Surface Owner PAUL & ADELINE PIERSON
 Mineral Owner CARL W. ASH, ET AL
 FARM NAME HARRY ASH
 Well No. 3 Acres 291
 Elevation 737'
 Quadrangle SHIRLEY Series 15
 County TYLER District CENTERVILLE
 Date 7/25/79 Scale 1" = 1000'

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINING, OIL & GAS
 OIL AND GAS DIVISION
 CHARLESTON

WELL LOCATION MAP
 47 - 088 - 0724-PP
 STATE COUNTY PERMIT

+ Denotes location of well on United States Topographic Maps.
 Engineer CHET WATERMAN
 Engineer's Registration No. 4788 File No. 79-430

4900' B...
 JUL 28 1980

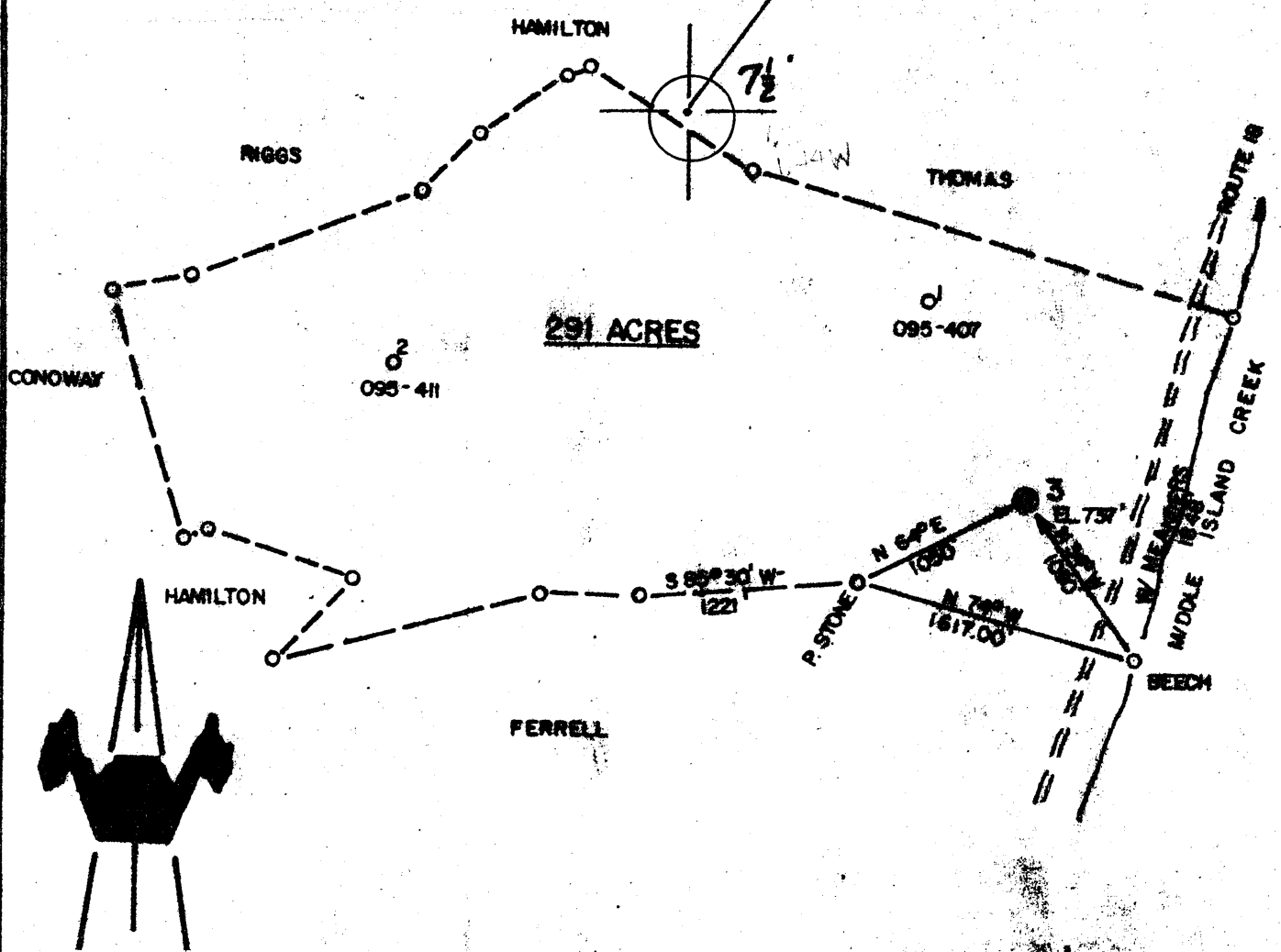
Latitude 39 25 00

8050' SOUTH
7600' WEST

Longitude 80 50 00

39 23 40
80 51 35

1,50s
1,40w



ACCURACY: 1" / 200'

- New Location
- Drill Deeper
- Abandonment
- Fracture
- Redrill
- Other

Formation LEWIS Oil
 Est. Depth 4900' Gas
 Other

Source of Elevation ENGINEER LCIT OFF
SOURCE OF ELEVATION

I, the undersigned, hereby certify that this map is based on a true and correct survey and belief and shows all the information required by the regulations of the oil and gas section of the mining law of West Virginia.

Chet Waterman



Company QUAKER STATE OIL REFG. CORP.
 Address PARKERSBURG, WV
 Surface Owner PAUL B ADELINE PIERSON
 Mineral Owner CARL W. ASH, ET AL
 FARM NAME HARRY ASH
 Well No. 3 Acres 291
 Elevation 737'
 Quadrangle WEST UNION Series 75'
 County TYLER District CENTERVILLE
 Date 7/25/79 Scale 1" = 1000'

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINING AND RECLAMATION
 OIL AND GAS DIVISION
 CHARLESTON

WELL LOCATION MAP
47 - 095 - **0724**
 STATE COUNTY PERMIT

+ Denotes location of well on United States Topographic Maps.
 Engineer CHET WATERMAN AUG 13 1979
 Engineer's Registration No. 3708 File No. 79-400

3-3 Wilbur (92)

-FORM IV-35
(Obverse)

Operator's
Well No. Harry Ash #3

[08-78,

WELL OPERATOR'S REPORT 33
OF

API Well No. 47 - 095 - 0725
State County Per

DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

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

LOCATION: Elevation: 737 GL Watershed: Middle Island Creek
District: Centerville County: Tyler Quadrangle: Shirley 7.5'

WELL OPERATOR QUAKER STATE OIL REFG. CORP. DESIGNATED AGENT Robert C. Pingrey
Address P.O. Box 1327 Address P.O. Box 1327
Parkersburg, WV 26101 Parkersburg, WV 26101

PERMITTED WORK: Drill XX / Convert / Drill deeper / Redrill / Fracture or stimulate
Plug off old formation / Perforate new formation / **MAR 18 1980**
Other physical change in well (specify)

OIL & GAS DIVISION
DEPT. OF MINES

PERMIT ISSUED ON August 6, 19 79 OIL & GAS INSPECTOR FOR THIS WORK:
(IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED) Name Phillip L. Tracy
Address P.O. Box 706
 , 19 Pineville, WV 24874

GEOLOGICAL TARGET FORMATION: Benson Depth 4708 - 4714 feet
Depth of completed well, 4922 feet Rotary XXX / Cable Tools
Water strata depth: Fresh, 150 feet; salt, NA feet.
Coal seam depths: NA Is coal being mined in the area? No
Work was commenced August 13, 19 79, and completed August 22, 19 79

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									Kinds
Fresh water	11 3/4	H-40	38	XX		205	205		
Coal	8 5/8	H-40	20	XX		1614	1614	425 sacks	Sizes
Intermediate									
Production	4 1/2	K-55	11.6	XX		4851	4851	160 sacks	Deaths set
Tubing									
Liners									Perforations:
									Top Bottom

OPEN FLOW DATA

Producing formation Benson Pay zone depth 4708 - 4714 feet
Gas: Initial open flow, Show Mcf/d Oil: Initial open flow, Bbl/d
Final open flow, 50 Mcf/d Final open flow, Bbl/d
Time of open flow between initial and final tests, 3 hours
Static rock pressure, 1200 psig (surface measurement) after 120 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

[08-78]

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

Perforated from 4708' to 4714' with 13 shots.

Fractured with 825 bbl. water, 12,000# of 80/100 sand and 35,000# of 20/40 sand.
Broke at 1700 psi, treated at 20 BPM and 2175 psi. I.S.I. pressure 1600 psi.

WELL LOG

FORMATION	Color	Hard or Soft	Top Feet	Bottom Feet	Remarks Including indication of all fresh and salt water, coal, oil and gas
Soil & gravel			0	75	
Shale			75	100	
Sandstone			100	306	
Shale			306	397	
Sandstone & Siltstone			397	430	
Shale			430	860	
Sandstone			860	934	
Shale			934	996	
Sandstone			996	1088	
Sandstone & Shale			1088	1502	
Maxon			1502	1575	
Shale			1575	1588	
Little Lime			1588	1609	
Pencil Cave			1609	1615	
Big Lime			1615	1700	
Big Injun			1700	1755	Gas at 1718
Pocono			1755	1806	
Shale			1806	2016	
Weir			2016	2127	
Shale			2127	2184	
Coffee Shale			2184	2206	
Berea			2206	2212	
Shale			2212	2614	
4 th			2614	2646	
Shale			2646	3136	
Warren			3136	3181	
Shale			3181	4299	
Bradford Second			4299	4332	Gas show at 4308 & 4328
Shale			4332	4708	
Benson			4708	4714	Gas show at 4712
Shale			4714	4922 T.D.	

4922
1755

3167 ft
Exploratory

(Attach separate sheets to complete as necessary)

QUAKER STATE OIL REFINING CORPORATION

Well Operator

By Michael C. Brannock
Its Michael C. Brannock - Sr. Geologist

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."

[08-78]

OIL AND GAS WELL PERMIT APPLICATION

Operator's Well No. 3
API Well No. 47 - 095 - 07
State County

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

LOCATION: Elevation: 737' Watershed: Middle Island Creek
District: Centerville County: Tyler Quadrangle: Shirley 7.5'

WELL OPERATOR QUAKER STATE OIL REFG. CORP.
Address P.O. Box 1327
Parkersburg, WV 26101

DESIGNATED AGENT Robert C. Pingrey
Address P.O. Box 1327
Parkersburg, WV 26101

OIL & GAS ROYALTY OWNER See Exhibit "A"
Address _____

COAL OPERATOR None
Address: _____

Acreage _____

SURFACE OWNER Paul & Adeline Pierson
Address Star Route 18
West Union, WV 26456
Acreage 290.7

COAL OWNER(S) WITH DECLARATION ON RECORD:
Name No
Address _____
Name _____
Address _____
AUG 6 1979
OIL & GAS DIVISION
DEPT. OF MINES

FIELD SALE (IF MADE) TO:
Name QUAKER STATE OIL REFG. CORP.
Address P.O. Box 1327
Parkersburg, WV 26101

COAL LESSEE WITH DECLARATION ON RECORD:
Name NO
Address _____

OIL & GAS INSPECTOR TO BE NOTIFIED
Name _____
Address _____

The undersigned well operator is entitled to operate for oil or gas purposes at the above location under a deed ___ / lease XX / other contract ___ / dated April 10, 1965, to undersigned well operator from Harry Ash etal

[If said deed, lease, or other contract has been recorded:]

Recorded on April 5, 1966, in the office of the Clerk of the County Commission of Tyler County, West Virginia, in Deed Book 171 at page 365. A permit is requested as follows:

PROPOSED WORK: Drill XX / 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 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, Charleston, West Virginia.

PLEASE SUBMIT COPIES OF ALL
PHYSICAL LOGS DIRECTLY TO:
WEST VIRGINIA OIL AND GAS
CONSERVATION COMMISSION
100 KATHLEEN STREET EAST
CHARLESTON, WV 25301
TELEPHONE (304) 528-3000

BLANKET BOND

QUAKER STATE OIL REFINING CORPORATION
Well Operator
Robert C. Pingrey
By [Signature]
District Number _____

PROPOSED WORK ORDER

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

DRILLING CONTRACTOR (IF KNOWN) Clint Hurt & Associates

Address P.O. Box 1973

Midland, Texas 79701

Ph: 915-683-6381

GEOLOGICAL TARGET FORMATION, Benson

Estimated depth of completed well, 4900 feet Rotary XX / Cable tools /

Approximate water strata depths: Fresh, 100 feet; salt, 1175 feet.

Approximate coal seam depths: 438 Is coal being mined in the area? Yes / No XX

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		
Conductor	11	H-40	42	XX		200	200	Kinds
Fresh water	8 5/8	H-40	20	XX		1635	1635	Cement to surf.
Coal								Sizes
Intermediate								
Production	4 1/2	K-55	10.5	XX		4900	4900	150
Tubing								
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 THIS PERMIT MUST BE POSTED AT THE WELL SITE in connection therewith.

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 4-1-80.

[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

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

