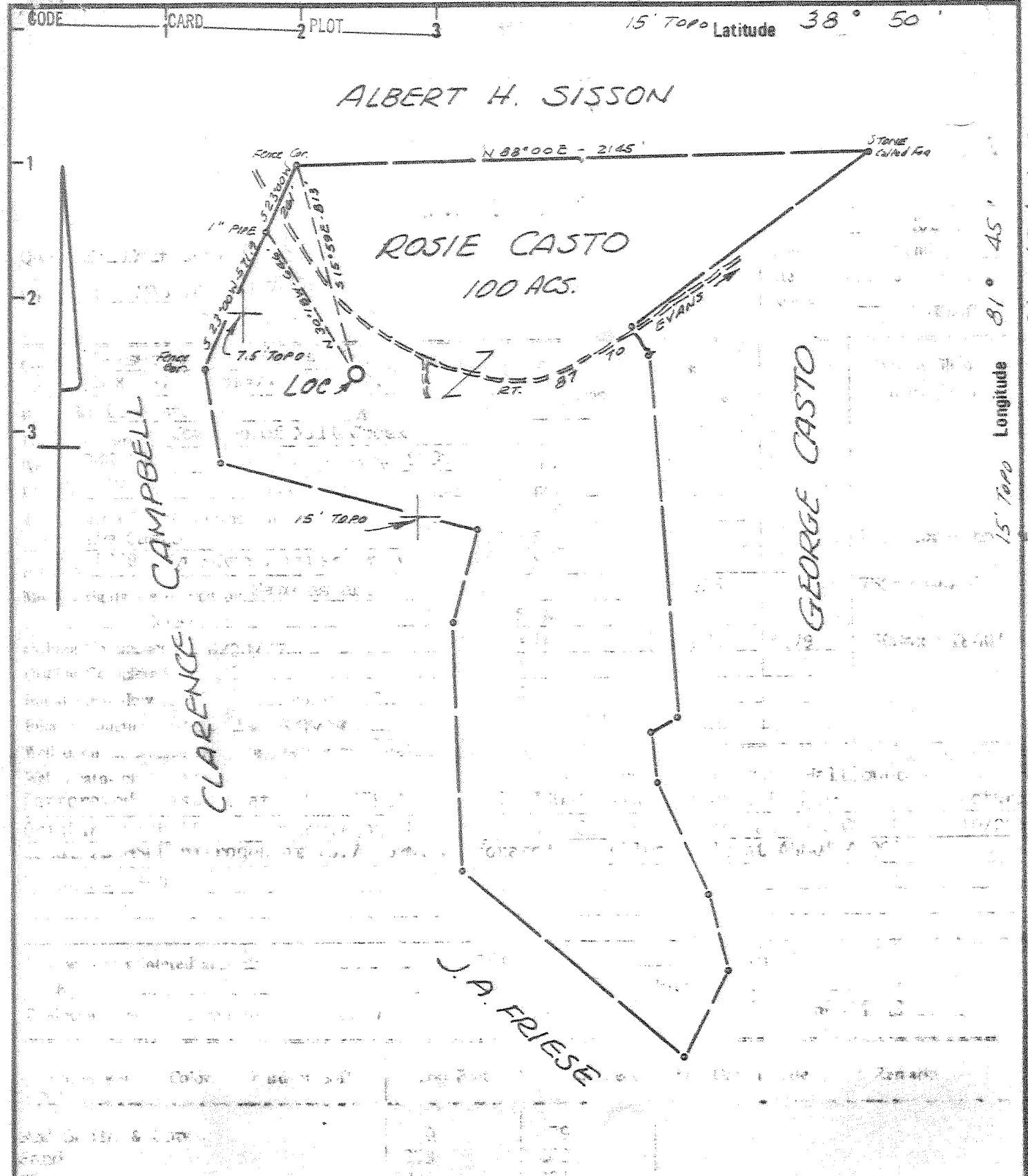


1/500
 7.5' TOPO LOC = 38° 47' - 30"
 15' TOPO Latitude 38° 50'



416/17
 4600'
 15' TOPO Longitude 81° 45'
 7.5' TOPO LOC = 81° 47' 30"

Minimum Error of Closure 1 IN 200
 Source of Elevation U.S.G.S. BM. El. 939' NORTH WEST. B.F.
Well Loc.
 "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 paragraph 6 of the rules and regulations of the oil and gas section of the mining laws of West Virginia."

Company KAISER EXPL. & MINING CO.
 Address Box 98 RAVENSWOOD, W. VA.
 Farm ROSIE CASTO
 Tract _____ Acres 100 Lease No. 3266
 Well (Farm) No. DEK #36 Serial No. _____
 Elevation (Spirit Level) 969'
 Quadrangle 7.5' COTTAGEVILLE
15' RAVENSWOOD
 County MASON District UNION
 Engineer N.L. Sexton
 Engineer's Registration No. 1832
 File No. _____ Drawing No. _____
 Date 5-14-77 Scale 1" = 500'

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

WELL LOCATION MAP
 FILE NO. MAS-144-P

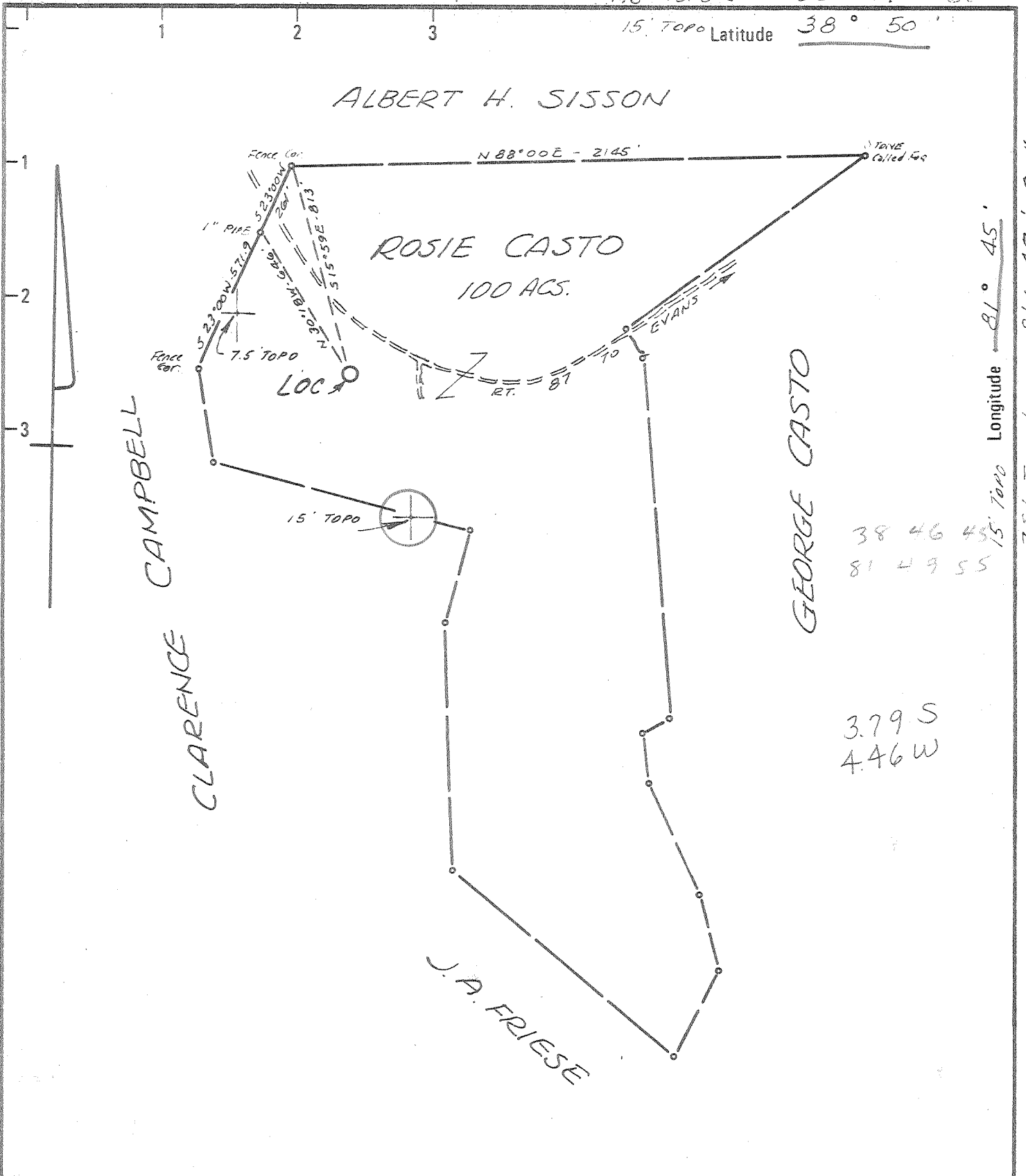
+ Denotes location of well on United States Topographic Maps, scale 1 to 62,500 latitude and longitude lines being represented by border lines as shown.
 - Denotes one inch spaces on border line of original tracing.

47-053 SEP 16 1985

7.5' TOPO Loc = 38° 47' 30"

15' TOPO Latitude 38° 50'

ALBERT H. SISSON



38 46 45
81 49 55

3.79 S
4.46 W

Longitude 81° 45'
7.5' TOPO Loc 81° 47' 30"

- New Location
- Drill Deeper
- Abandonment

Minimum Error of Closure 1 IN 200
 Source of Elevation U.S.G.S BM EL. 939' NORTH WEST OF well LOC.
 "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 paragraph 6 of the rules and regulations of the oil and gas section of the mining laws of West Virginia."

Company KAISER EXPL. & MINING CO.
 Address Box 98 RAVENSWOOD, W. VA.
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 File No. _____ Drawing No. _____
 Date 5-14-77 Scale 1" = 500'

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION
 CHARLESTON
 WELL LOCATION MAP
 FILE NO. MAS-144

+ Denotes location of well on United States Topographic Maps, scale 1 to 62,500 latitude and longitude lines being represented by border lines as shown.

- Denotes one inch spaces on border line of original tracing.

47-053 JUN 30 1977



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
Oil and Gas Division

RECEIVED

FEB - 7 1978

OIL & GAS DIVISION
DEPT. OF MINES

WELL RECORD 7

Quadrangle Cottageville

Permit No. MAS-144

Rotary XXXX Oil _____
Cable _____ Gas XXXX
Recycling _____ Comb. _____
Water Flood _____ Storage _____
Disposal _____ (Kind)

Company Kaiser Exploration & Mining Co.
Address Box 98, Ravenswood, W. Va.
Farm Rosie Casto Acres 100
Location (waters) Cow Run of Mill Creek
Well No. DEK #36 Elev. 969
District Union County Mason
The surface of tract is owned in fee by _____
Rosie Casto
Address 1220 Payne Ave., Dunbar, W. Va.
Mineral rights are owned by Same as above
Address _____
Drilling Commenced 6/20/77
Drilling Completed 7/5/77
Initial open flow Show cu. ft. _____ bbls.
Final production 31 MCFD ~~per day~~ bbls.
Well open _____ hrs. before test 1620 RP.

| Casing and Tubing | Used in Drilling | Left in Well | Cement fill up Cu. ft. (Sks.) |
|-------------------|------------------|--------------|-------------------------------|
| Size | | | |
| 20-16 | | | |
| Cond. | | | |
| 13-10" | | | |
| 9 5/8 | 266 | 266 | 110 sax - to surf. |
| 8 5/8 | | | |
| 7 | 2636 | | 75Sax =625' |
| 5 1/2 | | | |
| 4 1/2 | 4879 | 4879 | 150Sax =1800' |
| 3 | | | |
| 2 | | | |
| Liners Used | | | |

Well treatment details: Attach copy of cementing record. Halliburton
Perforated Oriskany at 4791'-4792' and 4801'-4803' with 8 Omega jet shots/foot. Fractured Oriskany with 850 bbl water, 6000 lbs 80/100, 32,000 lbs of 20/40 and 6,000 lbs of 10/20 sand, 75 MSCF nitrogen at 15.7 BPM. Perforated Marcellus Shale at 4500'-4700' with 28 Omega jet shots.

Coal was encountered at None Feet _____ Inches _____
Fresh water _____ Feet _____ Salt Water _____ Feet _____
Producing Sand Oriskany - Marcellus Shale Depth 4791-4792; 4500'4700'

| Formation | Color | Hard or Soft | Top Feet | Bottom Feet | Oil, Gas or Water | * Remarks |
|-------------------|-------|--------------|----------|-------------|-------------------|-----------|
| Red Shale & Sand. | | | 0 | 279 | | |
| Sand | | | 279 | 283 | | |
| Shale | | | 283 | 321 | | |
| Red Rock | | | 321 | 346 | | |
| Shale | | | 346 | 362 | | |
| Sand | | | 362 | 370 | | |
| Shale | | | 370 | 389 | | |
| Red Rock | | | 389 | 406 | | |
| Shale | | | 406 | 474 | | |
| Sand | | | 474 | 503 | | |
| Red Rock | | | 503 | 586 | | |
| Sand | | | 586 | 607 | | |
| Red Rock | | | 607 | 645 | | |
| Sand | | | 645 | 661 | | |
| Red Rock | | | 661 | 681 | | |
| Sand | | | 681 | 693 | | |
| Red Rock | | | 693 | 718 | | |
| Shale | | | 718 | 795 | | |
| Sand | | | 795 | 801 | | |
| Shale | | | 801 | 818 | | |
| Sand | | | 818 | 846 | | |
| Red Rock | | | 846 | 907 | | |
| Sand | | | 907 | 930 | | |

(over)

* Indicates Electric Log tops in the remarks section.

FEB 10 1978

| Formation | Color | Hard or Soft | Top Feet 7 | Bottom Feet | Oil, Gas or Water | * Remarks |
|-------------------|-------|---------------------|------------|-------------|-------------------|-----------|
| Shale | | | 930 | 1093 | | |
| Red Rock | | | 1093 | 1098 | | |
| Shale | | | 1098 | 1132 | | |
| Red Rock | | | 1132 | 1145 | | |
| Shale | | | 1145 | 1180 | | |
| Sand | | | 1180 | 1199 | | |
| Shale | | | 1199 | 1232 | | |
| Sand | | | 1232 | 1305 | | |
| Shale | | Tops from KB 977 | 1305 | 1340 | | |
| Sand | | | 1340 | 1358 | | |
| Shale | | | 1358 | 1407 | | |
| Sand | | | 1407 | 1488 | | |
| Shale | | | 1488 | 1542 | | |
| Sand | | | 1542 | 1602 | | |
| Shale | | | 1602 | 1735 | | |
| Sand | | | 1735 | 1800 | | |
| Shale | | | 1800 | 1853 | | |
| Maxon Sand | | | 1853 | 1930 | | |
| Big Lime | | | 1930 | 2050 | | |
| Shale | | | 2050 | 2078 | | |
| Injun Sand | | | 2078 | 2194 | | |
| Shale | | | 2194 | 2544 | | |
| Coffee Shale | | | 2544 | 2562 | | |
| Berea Sand | | | 2562 | 2575 | | |
| Shale | | | 2575 | 3721 | | |
| Brown Shale | | | 3721 | 4170 | | |
| Shale | | | 4170 | 4566 | | |
| Marcellus Shale | | | 4566 | 4704 | | |
| Corniferous | | | 4704 | 4785 | | |
| Oriskany | | | 4785 | 4810 | | |
| Lime - HELDERBERG | | | 4810 | 4998 | | |

Section - KB 977 KG

H 3922
 J 4164
 A 4300
 Qh 4465
 On 4904

Date February 3, 1978

APPROVED KAISER EXPLORATION & MINING Owner

By K. A. Payne
 (Title)
 Operations Manager



RECEIVED

JUN 16 1977

OIL & GAS DIVISION
DEPT. OF MINES

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

Oil and Gas Division

OIL AND GAS WELL PERMIT APPLICATION

TO THE DEPARTMENT OF MINES,
Charleston, W. Va.

Surface Owner Rosie Casto
Address 1220 Payne Avenue, Dunbar, WV
Mineral Owner Rosie Casto
Address 1220 Payne Avenue, Dunbar, WV
Coal Owner Same as above
Address _____
Coal Operator Not operated
Address _____

DATE June 10, 1977
Company Kaiser Exploration & Mining Co.
Address Box 98, Ravenswood, W. Va.
Farm Rosie Casto Acres 100 ac
Location (waters) Cow Run of Mill Creek
Well No. DEK #36 Elevation 969
District Union County Mason
Quadrangle Cottageville 7 1/2, Ravenswood 15'

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 10-17-77.

INSPECTOR
TO BE NOTIFIED Kenneth Butcher
ADDRESS Barboursville, W. Va.
PHONE 736-4885

[Signature]
Deputy Director - Oil & Gas Division

GENTLEMEN:

The undersigned well operator is entitled to drill upon the above named farm or tract of land for oil and gas, having fee title thereto, (or as the case may be) under grant or lease dated May 20 1977 by Rosie Casto made to Devon & Eason and recorded on the 8th day of June 19 77 in Mason County, Book 42 Page 191
XXX NEW WELL _____ DRILL DEEPER _____ REDRILL _____ FRACTURE OR STIMULATE
_____ OIL AND GAS WELL ORIGINALLY DRILLED BEFORE JUNE 5, 1969.

The enclosed plat was prepared by a registered engineer or licensed land surveyor and all coal owners and/or operators have been notified as of the above date.

The above named coal owners and/or operator are hereby notified that any objection they wish to make, or are required to make by Section 3 of the Code, must be received by, or filed with the Department of Mines within ten (10) days. *

Copies of this notice and the enclosed plat were mailed by registered mail, or delivered to the above named coal operators or coal owners at their above shown respective address _____ day _____ before, or on the same day with the mailing or delivery of this copy to the Department of Mines at Charleston, West Virginia.

PLEASE SUBMIT COPIES OF ALL
GEOPHYSICAL LOGS DIRECTLY TO:

WEST VIRGINIA GEOLOGICAL AND
ECONOMIC SURVEY
P. O. BOX 879
MORGANTOWN, WEST VIRGINIA 26505
AC-304 - 292-6331

Address
of
Well Operator

Very truly yours, Kaiser Exploration & Mining Co.
(Sign Name) [Signature]
W. F. Wegener, General Representative
Box 98
Street
Ravenswood
City or Town
West Virginia
State

*SECTION 3 If no objections are filed or found by the Department of mines, within said period of ten days from the receipt of notice and plat by the department of mines, to said proposed location, the department shall forthwith issue to the well operator a permit reciting the filing of such plat, that no objections have been made by the coal operators or found thereto by the department and that the same is approved and the well operator authorized to proceed.

BLANKET BOND

MAS-144 PERMIT NUMBER

"I have read and understand the reclamation requirements as set forth in Chapter 22, Article 4, Section 125 and will carry out the specified requirements."

47-053

Signed by [Signature]

THIS IS AN ESTIMATE ONLY
ACTUAL INFORMATION WILL BE SUBMITTED ON OG-10 UPON COMPLETION

PROPOSED WORK ORDER TO XXX DRILL _____ DEEPEN _____ FRACTURE-STIMULATE _____
 DRILLING CONTRACTOR: (If Known) _____ RESPONSIBLE AGENT: _____
 NAME F W A Drilling Co. NAME Bill W. Backus
 ADDRESS Box 448 Elkview, W. Va. ADDRESS Box 1433, Charleston, W. Va.
 TELEPHONE 965-3379 TELEPHONE 342-3171
 ESTIMATED DEPTH OF COMPLETED WELL: 4975' ROTARY XXX CABLE TOOLS _____
 PROPOSED GEOLOGICAL FORMATION: Oriskany
 TYPE OF WELL: OIL _____ GAS XXX COMB. _____ STORAGE _____ DISPOSAL _____
 RECYCLING _____ WATER FLOOD _____ OTHER _____

TENTATIVE CASING PROGRAM:

| CASING AND TUBING SIZE | USED FOR DRILLING | LEFT IN WELL | CEMENT FILL UP OR SACKS - CUBIC FT. |
|------------------------|-------------------|--------------|-------------------------------------|
| 20 - 16 | | | |
| 13 - 10 | | | |
| 9 - 5/8 | 250 | 250 | 110 Sax = To Surface |
| 8 - 5/8 | | | |
| 7 | 2650 | 650 | 75 Sax = 625' |
| 5 1/2 | | | |
| 4 1/2 | 4975 | 4975 | 150 Sax = 1800' |
| 3 | | | Perf. Top |
| 2 | | | Perf. Bottom |
| Liners | | | Perf. Top |
| | | | Perf. Bottom |

APPROXIMATE FRESH WATER DEPTHS _____ FEET _____ SALT WATER _____ FEET _____
 APPROXIMATE COAL DEPTHS None Anticipated
 IS COAL BEING MINED IN THE AREA? No BY WHOM? _____

TO DRILL:

SUBMIT FIVE (5) COPIES OF OG - 1, \$100.00 PERMIT FEE, PERFORMANCE BOND AND PERMANENT COPY OF PLAT.

TO DRILL DEEPER OR REDRILL:

SUBMIT FIVE (5) COPIES OF OG - 1, SHOWING ORIGINAL PERMIT NUMBER AND PERFORMANCE BOND. ON WELLS DRILLED PRIOR TO 1929, A PERMANENT COPY OF THE PLAT AND THE ORIGINAL WELL RECORD MUST ALSO BE SUBMITTED.

TO FRACTURE - STIMULATE:

OIL AND/OR GAS WELL ORIGINALLY DRILLED BEFORE JUNE 5, 1929, FIVE (5) COPIES OG - 1, PERFORMANCE BOND, PERMANENT PLAT AND ORIGINAL WELL RECORD.

OIL AND/OR GAS WELL ORIGINALLY DRILLED ON AND/OR AFTER JUNE 5, 1929, FIVE COPIES OG - 1, SHOWING ORIGINAL PERMIT NUMBER, AND PERFORMANCE BOND.

Required forms must be filed within ninety (90) days of completion for bond release. Inspector to be notified twenty-four (24) hours in advance.

The following waiver must be completed by the coal operator if the permit is to be issued within ten days of receipt thereof.

WAIVER: I the undersigned, Agent for _____ Coal Company, Owner or Operator of the coal under this lease have examined and place on our mine maps this proposed well location.

We the _____ Coal Company have no objections to said well being drilled at this location, providing operator has complied with all rules and regulations in Articles 4, 5, and 7, Chapter 22 of the West Virginia Code.

 For Coal Company

 Official Title

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

NOV 13 1985

W. VA. OIL & GAS
CONSERVATION COMMISSION

AFFIDAVIT OF PLUGGING AND FILLING WELL

AFFIDAVIT SHOULD BE MADE IN TRIPLICATE. ONE COPY MAILED TO THE DEPARTMENT, ONE COPY TO BE RETAINED BY THE WELL OPERATOR AND THE THIRD COPY (AND EXTRA COPIES IF REQUIRED) SHOULD BE MAILED TO EACH COAL OPERATOR AT THEIR RESPECTIVE ADDRESSES.

None
COAL OPERATOR OR OWNER

ADDRESS

None
COAL OPERATOR OR OWNER

ADDRESS

Rosie Casto
LEASE OR PROPERTY OWNER

1220 Payne Ave. Dunbar, WV
ADDRESS

Kaiser Exploration and Mining Company

NAME OF WELL OPERATOR

P.O. Box 8 Ravenswood, WV 26164

COMPLETE ADDRESS

Sept. 16 1985

WELL AND LOCATION

Union

District

Mason

County

Well No. DEK - 36

Rosie Casto

Farm

Jerry Tephabock

STATE INSPECTOR SUPERVISING PLUGGING

AFFIDAVIT

STATE OF WEST VIRGINIA,

County of Jackson

SS:

R.L. Coty and R.W. Durst

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 and were employed by KEM GAS, well operator, and participated in the work of plugging and filling the above well, that said work was commenced on the 4th day of August, 1985, and that the well was plugged and filled in the following manner:

| BAND OR ZONE RECORD FORMATION | FILLING MATERIAL | PLUGS USED SIZE & KIND | CASING | |
|----------------------------------|---|---------------------------|----------------------------------|----------------|
| | | | CSG PULLED | CSG LEFT IN |
| Oriskany Sand. Marcellus SH. | 4829-4425 (KB) Class A Cement | 30 SX | | |
| Devonian SH. | 4425'-2536' 6% | 71.6 BBL | 2536' | 2343' (4 1/2") |
| Berea Sand. | Gel | | | |
| | 2536'-2336' Class A Cement | 40 SX | | |
| | 2336'- 920' 6% Gel | 57.3 BBL | 920' | 1716' (7") |
| | 920'-770' Class A Cement | 53 SX | | |
| | 770'-330' 6% Gel 330'-0 Class A Cement | 32.7 BBL 115 SX | | |
| COAL SEAMS | | | DESCRIPTION OF MONUMENT | |
| (NAME) | None | | 3' Section of 8" line | |
| (NAME) | | | Pipe erected and properly marked | |
| (NAME) | | | | |
| (NAME) | | | | |

and that the work of plugging and filling said well was completed on the 9th day of August, 1985.

And further deponents saith not.

Sworn to and subscribed before me this 8th day of November, 1985.

My commission expires:

8/30/93

Ronald W. Durst
R. L. Coty / de
Denese Carney

Notary Public.

Permit No. MAS-0144

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