

LONGITUDE 81° 45' 00"

14,775'

FILE NO. REV. 9-9-81
 DRAWING NO. _____
 SCALE 1" = 500'
 MINIMUM DEGREE OF ACCURACY 1:200
 PROVEN SOURCE OF ELEVATION SPOT ELEV. 596
INTER. RTE. 68 AND DRIVE

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) Dennis L. Fisher

R.P.E. _____ L.L.S. 670

PLACE SEAL HERE

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

FORM IV-6 (8-78)



DATE AUGUST 21, 19 81
 OPERATOR'S WELL NO. KEM 101
 API WELL NO. _____
47 - 035 - 1605-F
 STATE COUNTY PERMIT

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION

WELL TYPE: OIL _____ GAS X LIQUID INJECTION _____ WASTE DISPOSAL _____
 (IF "GAS,") PRODUCTION _____ STORAGE _____ DEEP X SHALLOW _____
 LOCATION: ELEVATION 588 WATER SHED WASHINGTON RUN
 DISTRICT GRANT COUNTY JACKSON
 QUADRANGLE PORTLAND - OHIO / W.VA. 555 064 SE9 Kenno
 SURFACE OWNER WILLIAM D. WILLIAMSON ACREAGE 245
 OIL & GAS ROYALTY OWNER WILLIAM D. WILLIAMSON LEASE ACREAGE 245
 LEASE NO. _____

PROPOSED WORK: DRILL X 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 ORISKANY ESTIMATED DEPTH 4080
 WELL OPERATOR KEMER EXPLORATION & MINING CO. DESIGNATED AGENT KEMER EXPLORATION & MINING COMPANY
 ADDRESS PO BOX 8, RAVENSWOOD, WEST VIRGINIA 26164 ADDRESS PO BOX 8, RAVENSWOOD, WEST VIRGINIA 26164

MAR 17 1985

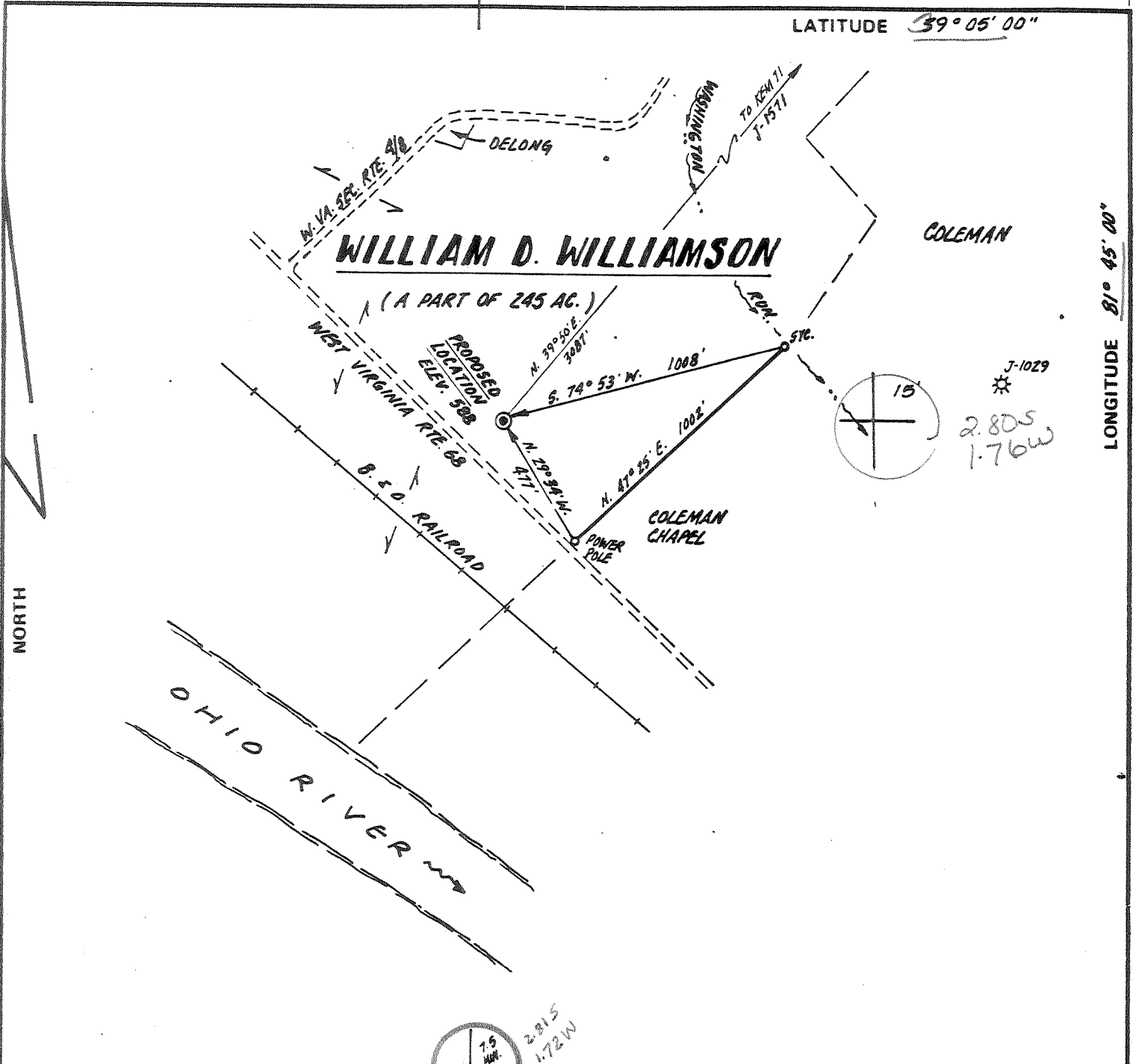
DEEP WELL - OWWD - 6.0 Repture (255)

9,050'

LATITUDE 39° 05' 00"

LONGITUDE 81° 45' 00"

NORTH



J-1029
2.805
1.76W

7.5
MAR.
2.815
1.72W

FILE NO. REV. 7-9-81
DRAWING NO. _____
SCALE 1" = 500'
MINIMUM DEGREE OF ACCURACY 1:200
PROVEN SOURCE OF ELEVATION SPOT ELEV. 596
INTER. RTE. 68 AND DRIVE

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.
Dennis L. Fisher
(SIGNED) _____
R.P.E. _____ L.L.S. 670

PLACE SEAL HERE

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



DATE AUGUST 21, 19 81
OPERATOR'S WELL NO. KEM 101
API WELL NO. _____
47 - 035 - 1605
STATE COUNTY PERMIT

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___
(IF "GAS,") PRODUCTION ___ STORAGE ___ DEEP X SHALLOW ___
LOCATION: ELEVATION 588 WATER SHED WASHINGTON RUN
DISTRICT GRANT COUNTY JACKSON
QUADRANGLE PORTLAND - OHIO / W VA. Range 13 SE
SURFACE OWNER WILLIAM D. WILLIAMSON ACREAGE 245
OIL & GAS ROYALTY OWNER WILLIAM D. WILLIAMSON LEASE ACREAGE 245
LEASE NO. _____
PROPOSED WORK: DRILL X 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 DRISKANY ESTIMATED DEPTH 4030
WELL OPERATOR Kaiser Exploration & Mining Co. DESIGNATED AGENT Kaiser Exploration & Mining Company
ADDRESS PO BOX 8, RAVENSWOOD, WEST VIRGINIA 26164 ADDRESS PO BOX 8, RAVENSWOOD, WEST VIRGINIA 26164
66 Neptune drill well (255)

SEP 28 1981
SEP 20 1981



State of West Virginia
Department of Mines
Oil and Gas Division

Date 10/01/86
Operator's Well No. KEM #101
Farm Williamson
API No. 47-035-1605
Frac.

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

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

LOCATION: Elevation: 588' Watershed Washington Run
District: Grant County Jackson Quadrangle Portland OH/WV

COMPANY KAISER EXPLORATION AND MINING COMPANY
ADDRESS P. O. Box 8, Ravenswood, WV 26164
DESIGNATED AGENT R. A. Pryce
ADDRESS Same
SURFACE OWNER W. D. Williamson
ADDRESS 504 Sand Street, Ravenswood, WV 26164
MINERAL RIGHTS OWNER Same
ADDRESS Same
OIL AND GAS INSPECTOR FOR THIS WORK Jerry Tephacock
ADDRESS Rt. 1 Box 101A Ripley, WV 25271
PERMIT ISSUED _____
DRILLING COMMENCED 10/30/81 | 5/5/86
DRILLING COMPLETED 11/05/81 | 5/9/86
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"	211	211	150 sks Class A
9 5/8			
8 5/8			
7	1739	1739	65 sks pozmix
5 1/2			100 sks Class A
4 1/2		4168	225 sks 50/50 pozmix
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Oriskany Sandstone Depth 4153 feet
Depth of completed well 4176 feet Rotary X / Cable Tools X
Water strata depth: Fresh _____ feet; Salt _____ feet
Coal seam depths: _____ Is coal being mined in the area? _____

OPEN FLOW DATA

Producing formation Devonian Brown Shale Pay zone depth 3318/3482 feet
Gas: Initial open flow 300 Mcf/d *from original completion* Oil: Initial open flow _____ Bbl/d
Final open flow No test? Mcf/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests 4 hours
Static rock pressure 800 psig (surface measurement) after 72 hours shut in

new Jones completed

(If applicable due to multiple completion--)
Second producing formation Berea Sandstone Pay zone depth 1882/1886 feet
Gas: Initial open flow _____ Mcf/d Oil: Initial open flow _____ Bbl/d
* Final open flow No test? Mcf/d Oil: Final open flow _____ Bbl/d
Time of open flow between initial and final tests 4 hours
Static rock pressure 900 psig (surface measurement) after 72 hours shut in

* Beria and Shale open flows are commingled?

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

See Previous IV-35

5/05/86 Young's Wireline perf Shale with 20 holes from 3318' to 3474'.

5/09/86 Halliburton foam frac Shale. Used; 60,000# 20/40 sand; total N₂: 650 MSCF; total fluid: 263 bbl; ISIP: 1210 psig; 5 MIN SIP: 1080 psig.

Young's Wireline perf Berea with 10 holes from 1882 to 1886.
Halliburton foam frac Berea. Used 60,000# 20/40 sand; total N₂: 662 MSCF; total fluid: 256 bbl; ISIP: 1220 psig; 5 MIN SIP: 1150 psig.

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
					Including indication of all fresh and salt water, coal, oil and gas
SEE PREVIOUS IV-35					

(Attach separate sheets as necessary)

KAISER EXPLORATION AND MINING COMPANY
Well Operator

By: R. A. P.

Date: October 6, 1986

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."

WELL OPERATOR'S REPORT
OF

[08-74]

035-1605

WELL TYPE: Oil Gas Liquid Injection Water Disposal
 (If "Gas", Production / Underground storage / Fuel / Other
 LOCATION: Elevation: 588' (gl) Watershed: Washington Run
 District: Grant County: Jackson Municipality: Portland OH - WV

WELL OPERATOR Kaiser Exploration and Mining Co. DESIGNATED AGENT SAME
 Address P. O. Box 8
Ravenswood, WV 26164

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

RECEIVED
MAR 29 1984

PERMIT ISSUED ON August 15, 1981

OIL & GAS INSPECTOR FOR THIS WORK Richard Morris DEPT. OF MINES

(IF APPLICABLE: PLUGGING OF DRY HOLE OR CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED _____, 19____)

Address P. O. Box 372
Grantsville, WV

GEOLOGICAL TARGET FORMATION: Oriskany Sandstone Depth 4153 feet
 Depth of completed well, 4176 feet Rotary / Cable Tools _____
 Water strata depth: Fresh, _____ feet; salt, _____ feet.
 Coal seam depths: _____ Is coal being mined in the area? NO
 Work was commenced October 30, 1981, and completed November 5, 1981

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								Find
Fresh water	10 3/4	H	32.75	X		211 (KB)	211 (KB)	150sx Class A
Coal								Sizes
Intermediate	7	K	20	X		1739 (KB)	1739 (KB)	65sx Pozmix 100sx Class A
Production	4 1/2	N	11.60	X			4168 (KB)	225sx Pozmix
Tubing								Depth set
Miners								Perforations:
								Top Bottom
								4100 (KB) 4108 (KB)

OPEN FLOW DATA

Producing formation Oriskany Sandstone Pay zone depth 4100 - 4108 feet
 Gas: Initial open flow, _____ Mcf/d Oil: Initial open flow, _____ bbl/d
 Final open flow, 300 Mcf/d Final open flow, _____ bbl/d
 Time of open flow between initial and final tests, _____ hours
 Static rock pressure, 1400 psig (surface measurement) after 24 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

APR 9 1984

[08-78]

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

- 11/06/81: Basin Surveys on location; perforated Oriskany section from 4100'-4108 (KB); 33 holes; 3 1/2" glass jets on strip
- 12/10/81: Halliburton, BJ Hughes hydrofractured the Oriskany with 1000 gal. 28% HCL acid; 15,000# 80/100 sand; 45,000# 20/40 sand; 306,000 scf of nitrogen, 780 bbl water; breakdown was 2000psig; avg. rate was 21.3 BPM; avg. pressure was 2670 psig; instantaneous shut-in was 1900 psig.

WELL LOG

FORMATION	Color	Hard or Soft	Top Feet	Bottom Feet	Remarks Including indication of all fre. and salt water, coal, oil and gas
Soil			0	16	
Sand			16	66	
Shale			66	104	
Sand			104	120	
Shale			120	178	
Sand			178	195	
Shale			195	260	
Sand			260	298	
Shale			298	378	
Sand			378	408	
Shale			408	464	
Sand			464	488	
Shale			488	688	
Sand			688	720	
Shale			720	940	
Sand			940	954	
Shale			954	1008	
Sand			1008	1065	
Shale			1065	1306	
Sand			1306	1380	
Big Lime (Greenbrier)			1380	1422	
Shale			1422	1872	
Coffee Shale (Sunbury)			1872	1890	
Berea Sand			1890	1894	Slight gas show @ 1892
Shale			1894	3025	
Brown Shale			3025	3484	
Shale			3484	3806	
Marcellus Shale			3806	4002	Gas show @ 3898
Onondaga Lime			4002	4084	
Oriskany Sand			4084	4116	Gas show @ 4104
Helderberg Lime			4116	4187	
Total Depth			4187		

(Attach separate sheets to complete as necessary)

KAISER EXPLORATION AND MINING COMPANY
Well Operator

By R. A. P.
Its General Manager

NOTE: Regulation 2.03(i) provides as follows:
"The term 'log' or 'well log' shall mean a systematic, detailed geological record of all formations, including all, encountered in the drilling of a well."

RECEIVED

AUG 31 1981

Oil and Gas Division

OIL AND GAS DIVISION
WV DEPARTMENT OF MINES

OIL AND GAS WELL PERMIT APPLICATION

THE DEPARTMENT OF MINES,
Charleston, W. Va.

Surface Owner William D. Williamson
Address 504 Sand Street, Ravenswood, WV 26164
Mineral Owner Same
Address _____
Coal Owner Same
Address _____
Coal Operator None
Address _____

DATE August 25, 1981
Company Kaiser Exploration and Mining Company
Address P. O. Box 8, Ravenswood, WV 26164
Farm William D. Williamson Acres 245
Location (waters) Washington Run
Well No. KEM #101 Elevation 588
District Grant County Jackson
Quadrangle Portland-Ohio/WV

THIS PERMIT MUST BE POSTED AT THE WELL SITE

provisions being in accordance with Chapter 22, the W. Va. Code, the location is hereby approved for drilling. This permit shall expire if operations have not commenced by 5-15-82

INSPECTOR
TO BE NOTIFIED Richard Morris
ADDRESS P. O. Box 372, Grantsville, WV
PHONE 354-7259

J. W. Murray
Deputy Director - Oil & Gas Division

ENTLEMEN:
The undersigned well operator is entitled to drill upon the above named farm or tract of land for oil and gas, having fee thereto, (or as the case may be) under grant or lease dated April 1 1980 by William D. & Kaiser Exploration and Mining Company made to William D. Williamson and recorded on the 28th day of April in Jackson County, Book 155 Page 690
 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 at their above shown respective address _____ day _____ before, or on the _____ day with the mailing or delivery of this copy to the Department of Mines at Charleston, West Virginia.

PLEASE SUBMIT COPIES OF ALL PHYSICAL LOGS DIRECTLY TO:
WEST VIRGINIA GEOLOGICAL AND MINING SURVEY
P. O. BOX 879
MARTINSBURG, WEST VIRGINIA 26505
PHONE - 292-6331

Very truly yours,
(Sign Name) R. A. P.
Well Operator
Kaiser Exploration and Mining Company
P. O. Box 8
Street
Ravenswood
City or Town
West Virginia 26164
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 such plat by the department of mines, to said proposed location, the department shall forthwith issue to the well operator a permit reciting 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

PROPOSED WORK ORDER TO X DRILL _____ DEEPEN _____ FRACTURE STIMULATE _____
 DRILLING CONTRACTOR: (If Known) _____ RESPONSIBLE AGENT: _____
 NAME Clint Hurt & Associates, Inc. NAME Robert A. Pryce
 ADDRESS P. O. Box 388, Elkview, WV 25071 ADDRESS P. O. Box 8, Ravenswood, WV 26164
 TELEPHONE 273-5371 TELEPHONE 273-5371
 ESTIMATED DEPTH OF COMPLETED WELL: 4153' ROTARY X CABLE TOOLS _____
 PROPOSED GEOLOGICAL FORMATION: Oriskany
 TYPE OF WELL: OIL _____ GAS X COMB. _____ STORAGE _____ DISPOSAL _____
 RECYCLING _____ WATER FLOOD _____ OTHER _____

TENTATIVE CASING PROGRAM:

CASING AND TUBING SIZE	USED FOR DRILLING	LIFT IN WELL	CEMENT FILL UP OR SACKS - CUBIC FT.
10 - 16			
10 - 10 3/4"	250'	250'	Cement to surface
5/8			
5/8			
	1788'	1788'	65 sks pozmix, 100 sks class A
	4153'	4153'	225 sks 50/50 pozmix
			Perf. Top
			Perf. Bottom
			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS _____ FEET _____ SALT WATER _____ FEET _____
 APPROXIMATE COAL DEPTHS _____
 IS COAL BEING MINED IN THE AREA? None 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 _____

RECEIVED
FEB 27 1988



1) Date: February 18, 1986
 2) Operator's Well No. KEM #101, Williamson
 3) API Well No. 47 035 1605-F
 State County Permit

STATE OF WEST VIRGINIA
 DEPARTMENT OF ENERGY, OIL AND GAS DIVISION
 APPLICATION FOR A WELL WORK PERMIT

- 4) WELL TYPE: A Oil / Gas /
 B (If "Gas", Production / Underground storage / Deep / Shallow /)
- 5) LOCATION: Elevation: 588' Watershed: Washington Run
 District: Grant County: Jackson Quadrangle: Portland OH/WV
- 6) WELL OPERATOR Kaiser Exploration and Mining Company CODE: 25350 7) DESIGNATED AGENT R. A. Pryce
 Address P. O. Box 8 Address Same
Ripley, WV 25271
- 8) OIL & GAS INSPECTOR TO BE NOTIFIED Name Jerry Tephabock
 Address Rt. 1, Box 101A
Ripley, WV 25271
- 9) DRILLING CONTRACTOR: Name Kaiser Company Tools
 Address Same
- 10) PROPOSED WELL WORK: Drill / Drill deeper / Redrill / Stimulate /
 Plug off old formation / Perforate new formation /
 Other physical change in well (specify) Squeeze 4 1/2" casing; perforate Brown Shale &
- 11) GEOLOGICAL TARGET FORMATION, Berea; stimulate zones; commingle all 3 zones
 12) Estimated depth of completed well, 4160' (KB) feet
 13) Approximate trata depths: Fresh, N/A feet; salt, N/A feet.
 14) Approximate coal seam depths: None Is coal being mined in the area? Yes / No /

15) 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	10 3/4	H-40	32.75	X		211' (KB)	211' (KB)	150 sks	
Coal									Sizes
Intermediate	7"	K-55	20	X		1739' (KB)	1739' (KB)	165 sks	
Production	4 1/2	N-80	11.6	X		4168' (KB)	4168' (KB)	225 sks	Depths set
Tubing									
Lin...									Perforations:
									Top Bottom

OFFICE USE ONLY
 DRILLING PERMIT

Permit number 47-035-1605-Frac Date March 7 1986

This permit covering the well operator and well location shown below is evidence of permission granted to drill in accordance with the pertinent legal requirements subject to the conditions contained herein and on the reverse hereof. Notification must be given to the District Oil and Gas Inspector. (Refer to No. 8) Prior to the construction of roads, locations and pits for any permitted work. In addition, the well operator or his contractor shall notify the proper district oil and gas inspector 24 hours before actual permitted work has commenced.)

The permitted work is as described in the Notice and Application, plat, and reclamation plan, subject to any modifications and conditions specified on the reverse hereof.

Permit expires March 7, 1988 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond: <input checked="" type="checkbox"/>	Agent: <u>ALB</u>	Plat: <u>MS</u>	Casing: <u>MS</u>	Fee: <u>969366</u>	WPCP: <u>MS</u>	S&E: <u>MS</u>	Other: <u>MS</u>
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NOTE: Keep one copy of this permit posted at the drilling location.

[Signature]
 Director, Division of Oil and Gas

File

See the reverse side of the APPLICANT'S COPY for instructions to the well operator.