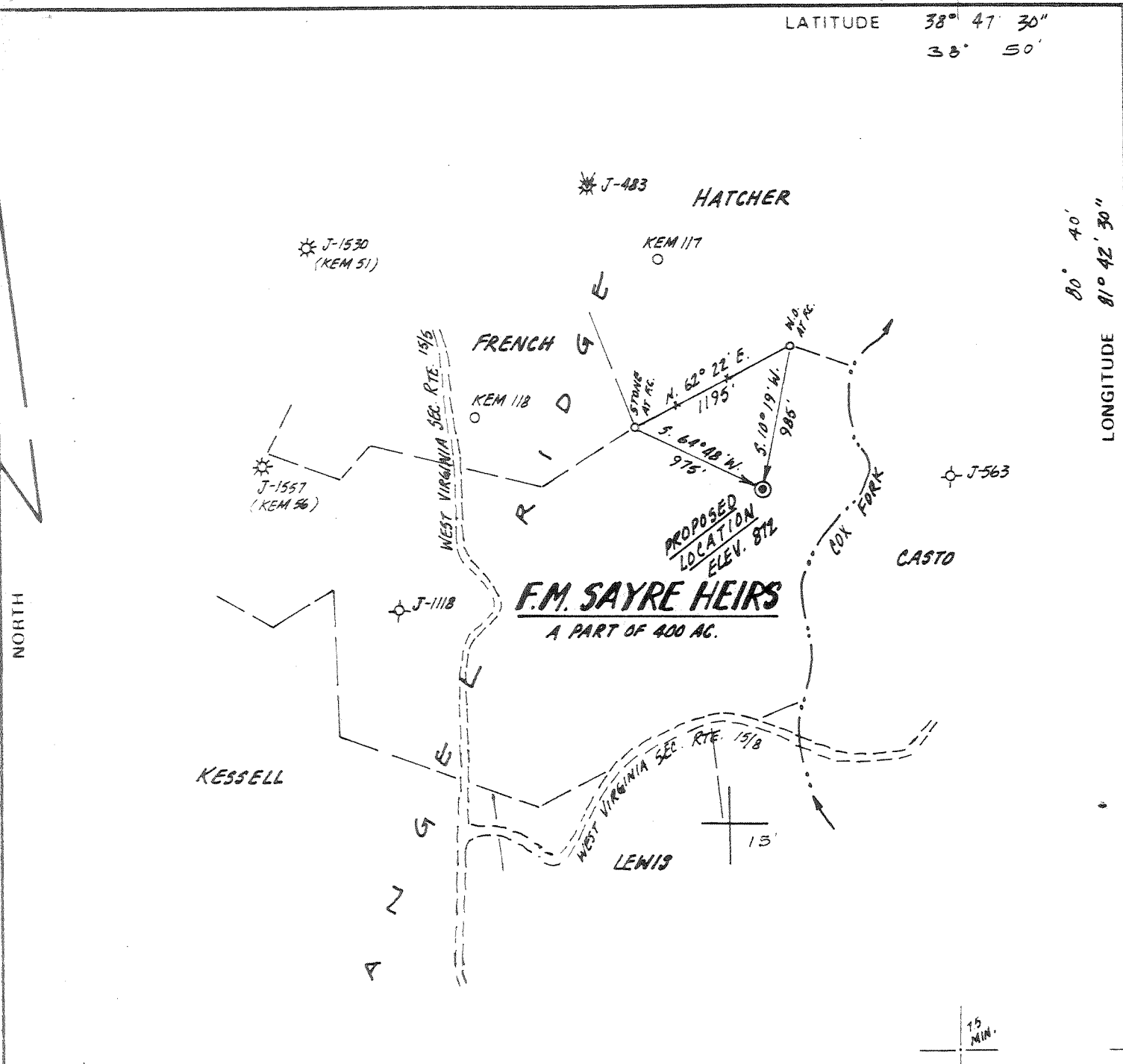


LATITUDE 38° 47' 30"  
38° 50'

LONGITUDE 81° 42' 30"



FILE NO. \_\_\_\_\_  
 DRAWING NO. \_\_\_\_\_  
 SCALE 1" = 1000'  
 MINIMUM DEGREE OF ACCURACY 1:200  
 PROVEN SOURCE OF ELEVATION SPOT ELEV. 1005 ON KNOLL NW OF PROPOSED LOCATION

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) Donnas L. Asher  
 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 JULY 30, 19 81  
 OPERATOR'S WELL NO. KEM 109  
 API WELL NO. 47-035-1597-Frac.  
 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 872 WATER SHED COX FORK  
 DISTRICT RIPLEY COUNTY JACKSON  
 QUADRANGLE RIPLEY  
 SURFACE OWNER F.M. SAYRE HEIRS ACREAGE 400  
 OIL & GAS ROYALTY OWNER F.M. SAYRE HEIRS LEASE ACREAGE 400  
 LEASE NO. \_\_\_\_\_  
 PROPOSED WORK: DRILL \_\_\_ CONVERT \_\_\_ DRILL DEEPER \_\_\_ REDRILL \_\_\_ FRACTURE OR STIMULATE X PLUG OFF OLD FORMATION \_\_\_ PERFORATE NEW FORMATION \_\_\_ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) \_\_\_\_\_  
 MAY 14 1984

PLUG AND ABANDON \_\_\_ CLEAN OUT AND REPLUG \_\_\_  
 TARGET FORMATION CRISKANY ESTIMATED DEPTH 4960  
 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

OWWD DEEP WELL 6-6 Elk Poca (Sissonville) (192)

8/10

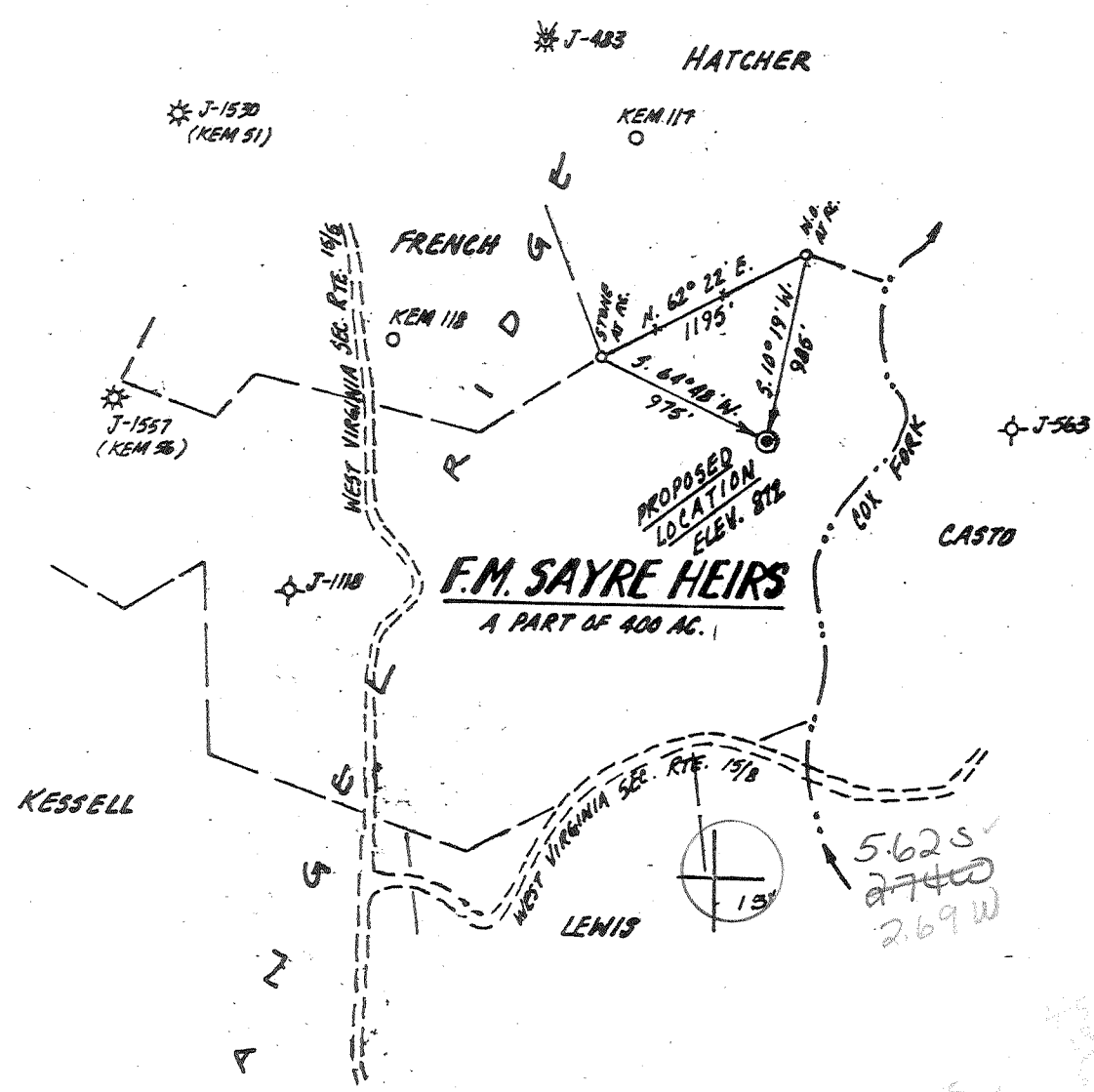
2,350'

LATITUDE 38° 47' 30"  
38° 50'

LONGITUDE 81° 42' 30"

14,450'

NORTH



FILE NO. \_\_\_\_\_  
 DRAWING NO. \_\_\_\_\_  
 SCALE 1" = 1000'  
 MINIMUM DEGREE OF ACCURACY 1:200  
 PROVEN SOURCE OF ELEVATION SPOT ELEV. 1005 ON KNOLL NW OF PROPOSED LOCATION

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. Asher  
 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 JULY 30 1981  
 OPERATOR'S WELL NO. KEM 109  
 API WELL NO. 47-035-1597  
 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 872 WATER SHED COX FORK  
 DISTRICT RIPLEY 3 COUNTY JACKSON  
 QUADRANGLE RIPLEY 10 215' 90'SW  
 SURFACE OWNER F.M. SAYRE HEIRS ACREAGE 400  
 OIL & GAS ROYALTY OWNER F.M. SAYRE HEIRS LEASE ACREAGE 400  
 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 BRISKANY ESTIMATED DEPTH 4960  
 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  
DEEP 6-6 Elk-Poca (Sissonville) (192) 1000-11002

AUG 24 1981



(REVISED)

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

- 6/04/84 Young's set 3.5" OD permanent bridge plug @ 4370' KB; dumped 1 bailer (15') of Calseal on plug; perf Brown Shale 4189' - 4317' KB, 19 holes; .41" dia holes.
- 6/07/84 NOWSCO, Halliburton foam frac interval with 75 quality foam; 500 gal 15% HCl acid; 1770 breakdown; 2560 psig avg. treating pressure; 612,500 scf nitrogen; 326 bbl fluid; 60,000# 20/40 sand; 40 bpm rate; 1470 psig ISIP.
- 1/07/85 Young' set Alpha small mouth plug at 2760' and perf Berea with 27 (.39") shots from 2555' to 2564'.
- 3/27/85 BJ Hughes to 75% quality foam frac Berea. Breakdown pressure: 2030 psig; treating pressure: 2350 psig; sand: 45,000# 20/40 at 4 - 8 ppg concentrations; total nitrogen: 737,500 scf; total sand laden fluid: 287 bbl; total fluid: 369 bbl; ISIP: 2170 psig; 5 min SIP: 1950 psig. Flow back thru 1/4" choke.

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
Same as previously submitted.					

(Attach separate sheets as necessary)

KAISER EXPLORATION AND MINING COMPANY

Well Operator

By: R.A.P.

Date: July 1, 1985

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 all encountered in drilling of a well."

108-78

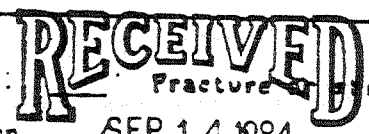
WELL OPERATOR'S REPORT  
OF

WELL NAME, LOCATION AND OTHER DATA

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

LOCATION: Elevation: 872 Watershed: Cox Fork  
District: Ripley County: Jackson Subdivision: Ripley

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  / Stimulate   
Plug off old formation  / Perforate new formation  / Other physical change in well (specify) \_\_\_\_\_  
OIL & GAS DIVISION

DEPT. OF MINES

PERMIT ISSUED ON August 12, 1981  
OIL & GAS INSPECTOR FOR THIS WORK:  
Name Richard Morris  
Address P. O. Box 372  
Grantsville, WV

IF APPLICABLE: PLUGGING OF DRY HOLE OR CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED \_\_\_\_\_, 19\_\_\_\_  
GEOLOGICAL TARGET FORMATION: Oriskany Sandstone Depth 5072 feet  
Depth of completed well, 5136 feet Rotary  / Cable Tools   
Water strata depth: Fresh, \_\_\_\_\_ feet; salt, \_\_\_\_\_ feet.  
Coal seam depths: NONE Is coal being mined in the area? NO  
Work was commenced August 15, 1981, and completed August 22, 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	Left in well		
Conductor									Winds
Fresh water	10 3/4	H	32.75	X		256'(KB)	256(KB)	150sks Class A	A
Intermediate	7"	K	20	X		2411'(KB)	2411(KB)	65sks Pozmix 100sks Class A	Sizes
Production	4 1/2	N	11.6	X			5128(KB)	275sks Pozmix	Deaths set
Stringers	2 3/8	K	4.6	X			5077(KB)		Perforations:
									Top Bottom
									5072 5082(KB)
									5087 5093(KB)
									5116 5122(KB)

FLOW DATA

Producing formation Oriskany Sandstone Pay zone depth 5072 feet  
Gas: Initial open flow, N/A Mcf/d Oil: Initial open flow, 0 bbl/d  
Final open flow, 100 Mcf/d Final open flow, 0 bbl/d  
Time of open flow between initial and final tests, N/A hours  
Static rock pressure, 1350 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

OCT 22 1984

[68-78]

DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC.  
 8/24/81: Perforate Oriskany 5072'-5082', 5087'-5093', and 5116'-5122' (KB) w/88 3½ ceramic jet charges. (Basin Survey). <sup>46t</sup>  
 8/25/81: Oriskany formation breakdown @ 4500 psig; established treatment rate @ 3 BPM and 3000 psig. Shut-in @ 2600 psig. (Halliburton)  
 9/10/81: Hydr fractured Oriskany w/15,000# 80/100, 45,000# 20/40 sand, 186,000 SCF of Nitrogen @ 21 BPM and 4150 psig. Casing was loaded w/1000 gal. 28% HCL additional acid before treatment shut-in pressure @ 3700 psig.

(N)

WELL LOG

FORMATION	Color	Hard or Soft	Top Feet	Bottom Feet	Remarks Including indication of all free and salt water, coal, oil and
Soil & Shale			0	43	from KB
Sand			43	58	
Shale			58	80	
Siltstone			80	190	
Shale			190	303	
Sand			303	366	
Shale			366	419	
Sand			419	435	
Shale			435	720	
Sand			720	742	
Shale			742	844	
Sand			844	896	
Shale			896	1022	
Sand			1022	1053	
Shale			1053	1188	
Salt Sand			1188	1300	
Shale			1300	1370	
Sand			1370	1416	
Shale			1416	1726	
Big Lime (Greenbrier)			1726	2049	
Shale			2049	2086	
Big Injun Sand			2086	2193	
Shale			2193	2532	
Coffee Shale (Sunbury)			2532	2555	
Berea Sand			2555	2567	
Shale			2567	3774	
Brown Shale			3774	4312	Gas show:
Shale			4312	4684	3789, 3917, 4189, 4201, 4258, 4303
Marcellus Shale			4684	4975	Gas show @ 4462, 4675
Onondaga Lime			4975	5064	
Oriskany Sand			5064	5125	
Helderberg Lime			5125	5136	Gas show @ 5070, 5120
Total Depth			5136		

from log:

	top	thickness
Sunbury	2532	14
Berea	2554	1218
Upper Devonian	2567	536
Lower Huron	3786	144
Tava	4322	252
Angola	4466	100
Keokuk	4718	94
Shinarump	4812	9
Madax	4912	40
Genesee	4921	14
Marcellus	4961	
Onondaga	4975	

(Attach separate sheets to complete as necessary)

KAISER EXPLORATION AND MINING COMPANY  
 Well Operator  
 By Kell A. P.  
 Its Operation Manager

**NOTE:** Regulation 2.05(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."



STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES

RECEIVED

AUG -7 1981

OIL & GAS DIVISION  
DEPT. OF MINES

Oil and Gas Division

OIL AND GAS WELL PERMIT APPLICATION

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

Surface Owner F. M. Sayre, heirs  
Address P. O. Box 1777, Beckley, WV 25801  
Mineral Owner Same  
Address \_\_\_\_\_  
Coal Owner Same  
Address \_\_\_\_\_  
Coal Operator None  
Address \_\_\_\_\_

DATE August 3, 1981  
Company Kaiser Exploration and Mining Company  
Address P. O. Box 8, Ravenswood, WV 26164  
Farm F. M. Sayre, heirs Acres 400  
Location (waters) Cox Fork  
Well No. KEM #109 Elevation 872'  
District Ripley County Jackson  
Quadrangle Ripley

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 4-12-82.

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

*J. Whizney*  
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 thereunto, (or as the case may be) under grant or lease dated January 21 1980 by F. M. Sayre, heirs made to Kaiser Exploration and Mining Company and recorded on the 25th day of March 1980, in Jackson County, Book 155 Page 346

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 and coal owners 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  
ECONOMIC SURVEY  
P. O. BOX 879  
MORGANTOWN, WEST VIRGINIA 26505  
304 - 292-6331

Very truly yours,

(Sign Name) R. A. Pusey, Jr.  
Well Operator  
Kaiser Exploration and Mining Company  
P. O. Box 8  
Street  
Ravenswood  
City or Town  
West Virginia 26164  
State

Address  
of  
Well Operator

\*SECTION 3. . . . If no objections are filed or found by the Department of mines, within said period of ten days from the receipt of the plat by the department of mines, to said proposed location, the department shall forthwith issue to the well operator a permit reciting the date 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 by the well operator authorized to proceed.

BLANKET BOND

47-035-1597



PROPOSED WORK ORDER TO DRILL DEEPEN FRACTURE-STIMULATE  
 DRILLING CONTRACTOR: (If known) Clint Hurt & Associates, Inc. RESPONSIBLE AGENT: Robert A. Fryce  
 NAME Clint Hurt & Associates, Inc. NAME Robert A. Fryce  
 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: 4954' 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	LEFT IN WELL	CEMENT FILL UP OR SACKS - CUBIC FT.
20 - 16			
- 10			
5/8 10 3/4"	250'	250'	Cement to surface
- 5/8			
7	2444'	2444'	65 sks 50/50 pozmix
5 1/2			100 sks class A
4 1/2	4954'	4954'	225 sks 50/50 pozmix
3			Perf. Top
2			Perf. Bottom
Liners			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 hereof.

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  
FORM 1V-2(B)  
(Observer)  
7-83

APR 13 1984



1) Date: April 3, 19 84  
2) Operator's Well No. KEM-109  
3) API Well No. 47 - 035 - 1597-FRAC  
State County Permit

OIL & GAS DIVISION  
DEPT. OF MINES

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

- 4) WELL TYPE: A Oil        / Gas X /  
B (If "Gas", Production X / Underground storage        / Deep        / Shallow X)
- 5) LOCATION: Elevation: 872 Watershed: Cox Fork  
District: Ripley County: Jackson Quadrangle: Ripley
- 6) WELL OPERATOR ~~KEM-109~~ Kaiser Exp & Mining Co. 7) DESIGNATED AGENT Same R.A. Pryce  
Address P. O. Box 8 Address         
Ravenswood, WV 26164
- 8) OIL & GAS INSPECTOR TO BE NOTIFIED Name J. Tephabock  
Address Ripley, WV 25271
- 9) DRILLING CONTRACTOR: Name Kaiser Drilling Rig #1  
Address Ravenswood, WV 26164
- 10) PROPOSED WELL WORK: Drill        / Drill deeper        / Redrill        / Stimulate X /  
Plug off old formation X / Perforate new formation X /  
Other physical change in well (specify) Plug off Oriskany; frac Shale; Squeeze 4 1/2" c
- 11) GEOLOGICAL TARGET FORMATION, Shale; Berea Sandstone frac Berea; isolate pays with tubing a
- 12) Estimated depth of completed well, 5136 feet
- 13) Approximate trata depths: Fresh, 160 feet; salt, 650 feet. packer
- 14) Approximate coal seam depths: None Is coal being mined in the area? Yes        / No X

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 None
Fresh water	10 3/4	H	40.50	X		256' (KB)	256' (KB)	150 sks Neat	
Coal								65 sks Pozmix	Sizes -
Intermediate	7	K	'20	X		2411' (KB)	2411' (KB)	100 sks Neat	
Production	4 1/2	N	11.60	X			5128' (KB)	275 sks Pozmix	set -
Tubing	2 3/8	J	4.6	X			5077' (KB)		
Liners									Perforations:
									Top Bottom
									5072 5122 (KB)

OFFICE USE ONLY  
DRILLING PERMIT

Permit number 47-035-1597-FRAC

May 9, 19 84  
Date

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 May 9, 1986 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond: <u>Blanket</u>	Agent: <u>✓</u>	Plat: <u>T-5</u>	Casing: <u>T-5</u>	Fee: <u>966</u> <u>954</u>
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Margaret J. Hass  
Administrator, Office of Oil and Gas

NOTE: Keep one copy of this permit posted at the drilling location.

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

File