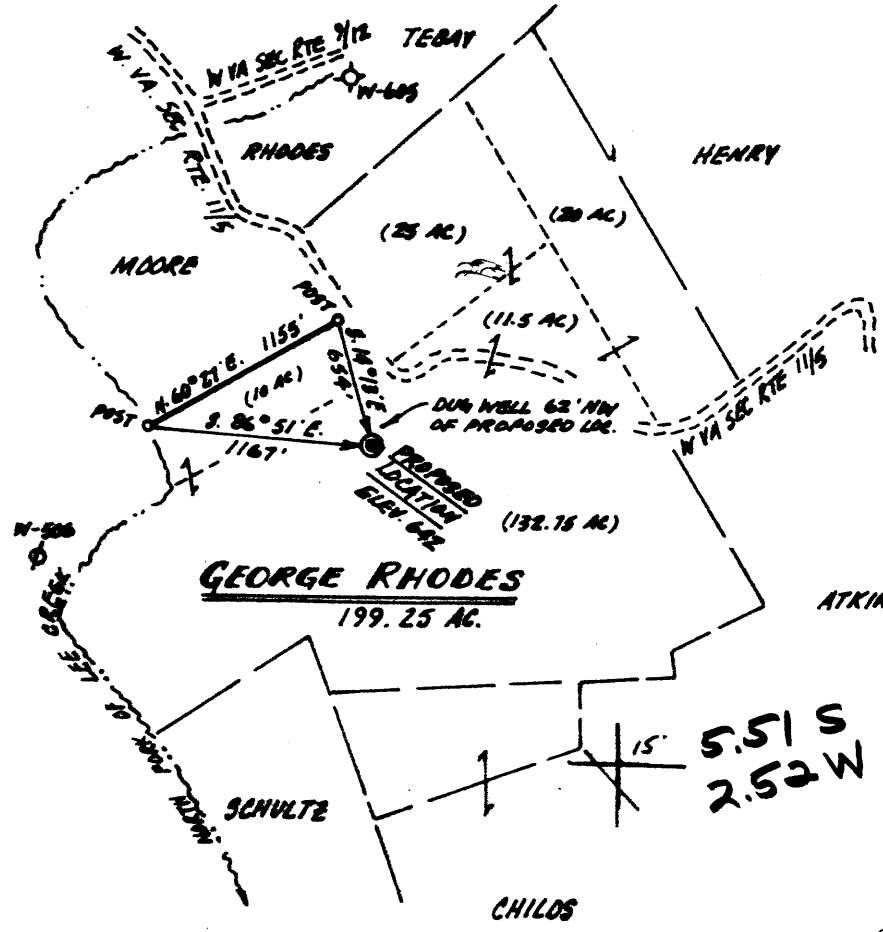


CODE _____ UTM _____ PLOT _____

LATITUDE 39° 12' 30"
(15') 39° 15'

LONGITUDE 81° 42' 30"
(15') 81° 40'

NORTH



5.51 S
2.52 W

2.63 S
0.29 W

FILE NO. _____
DRAWING NO. _____
SCALE 1" = 1000'
MINIMUM DEGREE OF ACCURACY 1:200
PROVEN SOURCE OF ELEVATION 597 ELEV. 597 AT ROAD
INTERSECTION NW OF PROPOSED LOC.

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)



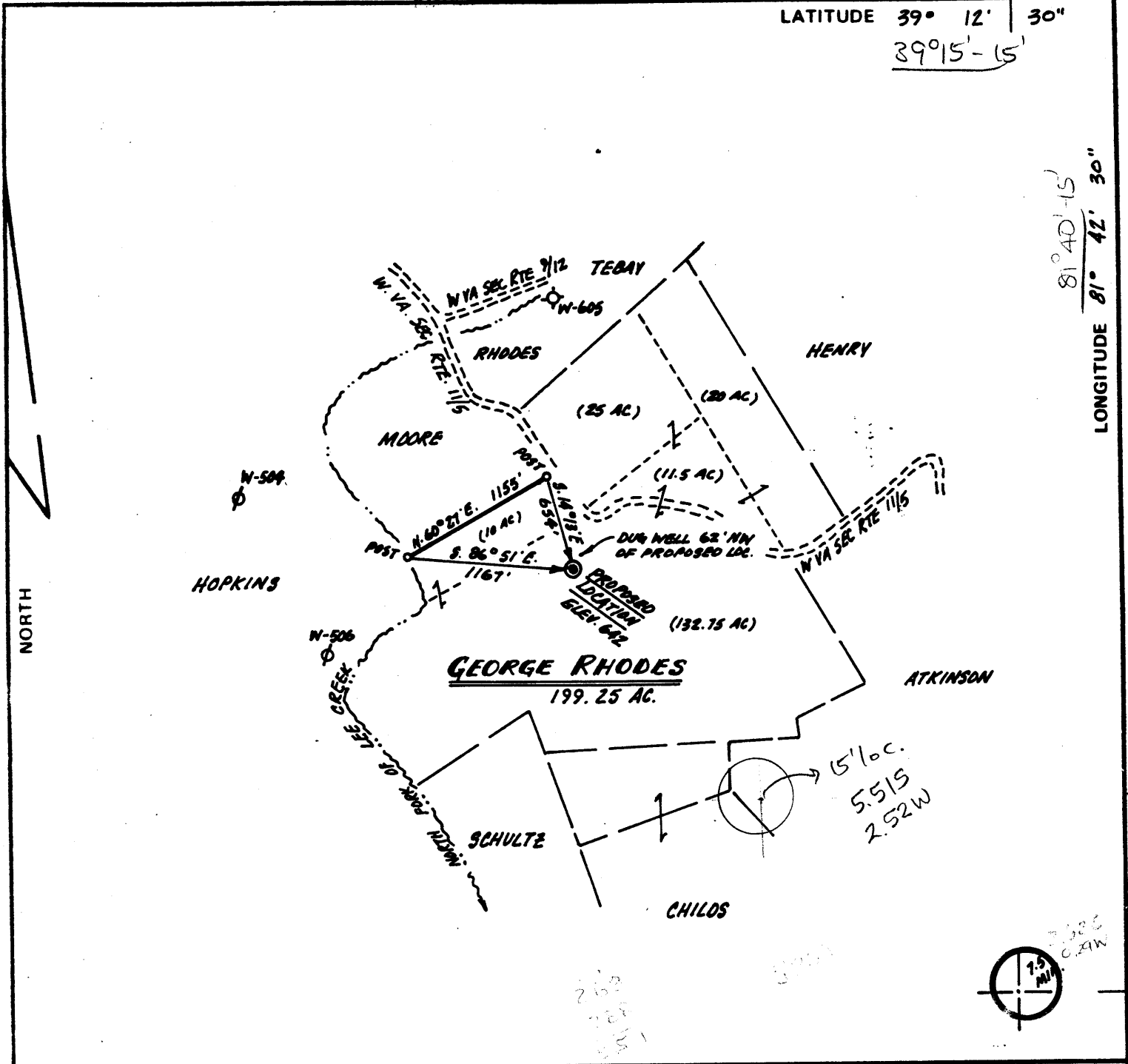
DATE OCTOBER 14, 19 81
OPERATOR'S WELL NO. KEN 136
API WELL NO. 47 - 107 - 1183 Fra
STATE COUNTY PERMIT

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 642 WATER SHED NORTH FORK OF LEE CREEK
DISTRICT HARRIS COUNTY MONROE
QUADRANGLE LEADER
SURFACE OWNER GEORGE RHODES ACREAGE 199.25
OIL & GAS ROYALTY OWNER GEORGE RHODES LEASE ACREAGE 200
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 ARTESIAN ESTIMATED DEPTH 4320'
WELL OPERATOR LEWIS EXPLORATION & MINING CO. DESIGNATED AGENT LEWIS EXPLORATION & MINING COMPANY
ADDRESS PO BOX 8, BRIDGEWOOD, WEST VIRGINIA 26444 ADDRESS PO BOX 8, BRIDGEWOOD, WEST VIRGINIA 26444

SEP 16 1985

DEEP WIRE - 01/11/85 - New England (206)



FILE NO _____
 DRAWING NO. _____
 SCALE 1"=1000'
 MINIMUM DEGREE OF ACCURACY 1:200
 PROVEN SOURCE OF ELEVATION SPOT ELEV. 597 AT ROAD INTERSECTION NN OF PROPOSED LOC.

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)



STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION

DATE OCTOBER 14, 1981
 OPERATOR'S WELL NO. KEM 135
 API WELL NO. _____
47 - 107 - 1183 W
 STATE COUNTY PERMIT

WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___
 (IF "GAS.") PRODUCTION ___ STORAGE X DEEP ___ SHALLOW ___
 LOCATION: ELEVATION 642 WATER SHED NORTH FORK OF LEE CREEK
 DISTRICT HARRIS COUNTY WOOD
 QUADRANGLE LUBECK Baltimore NW
 SURFACE OWNER GEORGE RHODES ACREAGE 199.25
 OIL & GAS ROYALTY OWNER GEORGE RHODES LEASE ACREAGE 200
 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 4325'
 WELL OPERATOR KASBER EXPLORATION & MINING CO. DESIGNATED AGENT KASBER EXPLORATION & MINING COMPANY
 ADDRESS PO BOX 8, RIVINGTON, WEST VIRGINIA 26444 ADDRESS PO BOX 8, RIVINGTON, WEST VIRGINIA 26444



IV-35
(Rev 8-81)

State of West Virginia
Department of Mines
Oil and Gas Division

Date November 6, 1985
Operator's
Well No. KEM #135
Farm George Rhodes
API No. 47 - 107 - 1183 *Frac*

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: 642 Watershed North Fork of Lee Creek
District: Harris County Wood Quadrangle Lubeck

COMPANY Kaiser Exploration and Mining Company

ADDRESS P. O. Box 8, Ravenswood, WV 26164

DESIGNATED AGENT R. A. Pryce

ADDRESS P. O. Box 8, Ravenswood, WV 26164

SURFACE OWNER George Rhodes

ADDRESS _____

MINERAL RIGHTS OWNER Same

ADDRESS _____

OIL AND GAS INSPECTOR FOR THIS WORK Glen

Robinson ADDRESS Rt. 1, #6, Mineral Wells, WV

PERMIT ISSUED 11/4/81 *workover*

DRILLING COMMENCED 11/11/81 *original* 10/11/85

DRILLING COMPLETED 11/17/81 10/31/85

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 Cord.			
10 3/4" 18x10"	252(KB)	252(KB)	150 sks class A
9 5/8			
8 5/8			65 sks pozmix
7	1768(KB)	1768(KB)	100 sks class A
5 1/2			
4 1/2		4250(KB)	225 sks pozmix
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Oriskany Sandstone Depth 4170 feet

Depth of completed well 4279' feet Rotary / Cable Tools _____

Water strata depth: Fresh _____ feet; Salt _____ feet

Coal seam depths: _____ Is coal being mined in the area? No

Well plugged back to below formations: _____ Drilled on fluid, not known

OPEN FLOW DATA

Producing formation Huron Devonian Shale Pay zone depth 3359-3539 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 900 psig (surface measurement) after 48 hours shut in
(If applicable due to multiple completion--)

Second producing formation Berea Sandstone Pay zone depth 1909-1911 feet (KB)

Gas: Initial open flow -- Mcf/d Oil: Initial open flow -- Bbl/d

*Final open flow 300 Mcf/d Oil: Final open flow 2 Bbl/d

Time of open flow between initial and final tests -- hours

Static rock pressure 900 psig (surface measurement) after 48 hours shut in

NOV 25 1985

✓ *Comminaled Test

(Continue on reverse side)

new zones completed

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

- 10/11/85: McCullough Services set Baker permanent bridge plug at 3660'; dumped 1 dump bailer of calseal on plug; perforated 3 holes in 4 1/2" casing at 1950'(KB) for squeeze; NOWSCO performed bullhead squeeze using 100 sks class A cement, to cement over Berea.
- 10/30/85: McCullough perforated Brown Shale interval from 3359'-3539'(KB), 21 holes; and ^{thru} Berea Sandstone interval 1909'-1911' (KB), 9 holes; set Alpha frac plug at 2030(KB).
- 10/31/85: NOWSCO foam fractured BEREA: used 500 gal 15% HCL acid, 45,000# 20/40 sand, 15,000# 10/20 sand, 619,500 scf of nitrogen, 305 bbl total water; 1500 psig breakdown; avg and maximum treating pressure was 1630 psig; ISIP: 1300 psig. NOWSCO foam fractured BROWN SHALE: used 500 gal 15% HCL acid, 60,000# 20/40 sand, 562,800 scf nitrogen, 262 bbl of water; 2220 psig breakdown; 2100 avg treating pressure; 1360 psig ISIP.

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: RA P

Date: November 6, 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 coal, encountered in the drilling of a well."

(08-73)

WELL OPERATOR'S REPORT
OF

APR 1981 47-107-11

WELL NAME, LOCATION AND OTHER IDENTIFYING INFORMATION

1183

WELL TYPE: Oil ___ / Gas X / Liquid Injection ___ / Waste Disposal ___
(If "Gas", Production X / Underground storage ___ / Fuel X / Heating ___)

LOCATION: Elevation: 642 Watershed: North Fork of Lee Creek
District: Harris County: Wood Municipality: Lubeck

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

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

PERMIT ISSUED ON November 4, 1981 OIL & GAS INSPECTOR FOR THIS WORK:

IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED

Name Deo Mace
Address Rt. 1, Box 65
Sandridge, WV

GEOLOGICAL TARGET FORMATION: Oriskany Sandstone Depth 4170 feet

Depth of completed well, 4279 feet Rotary X / Cable Tools ___

Water strata depth: Fresh, -- feet; salt, -- feet.

Coal seam depths: -- Is coal being mined in the area? NO

Work was commenced November 11, 1981, and completed November 17, 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 NONE
Fresh water	10 3/4	H	32.75	X		252(KB)	252(KB)	150sx Class A	
Coal									Sizes
Intermediate	7	K	20	X		1768(KB)	1768(KB)	65sx Pozmix 100sx Class A	
Production	4 1/2	N	11.60	X		4250(KB)	4250(KB)	225sx Pozmix	Deaths set
Tubing									
Minors									Perforations:
									Top Bottom
									4170 4174(KB)
									4178 4184(KB)

OPEN FLOW DATA

Producing formation Devonian Oriskany Sandstone Pay zone depth 4170 feet

Gas: Initial open flow, N/A Mcf/d Oil: Initial open flow, N/A bbl/d
Final open flow, 725 Mcf/d Final open flow, 0 bbl/d

Time of open flow between initial and final tests, N/A hours

Static rock pressure, 1425 psig (surface measurement) after -- hours shut in.

[If applicable for 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.

MAY 29 1984

[08-78]

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

- 11/20/81: Basin Surveys perforated Oriskany Sandstone 4170-4174(KB) and 4178-4184(KB); 4 holes/ft, 40 holes; 3 1/2" glass jets on strip.
 11/24/81: Halliburton and BJ Hughes hydrofractured Oriskany w/15,000# 80/100 sand; 45,000# 20/40 sand; 500 gal. 28% HCL Acid; 142,000 SCF of nitrogen; 800 BBL water; 37 BPM avg. rate; 2000 psig avg. treating pressure; breakdown was 2600 psig; Instantaneous shut in pressure was 1100 psig.

WELL LOG

FORMATION	Color	Hard or Soft	Top Feet	Bottom Feet	Remarks
					Including indication of all gas and salt water, coal, oil and
Soil & Shale			0	60	
Sand			60	88	
Shale			88	150	
Sand			150	170	
Shale & Sand			170	245	
Shale			245	332	
Sand			332	342	
Shale			342	374	
Sand			374	424	
Shale & Siltstone			424	852	
Sand			852	864	
Shale			864	883	
Sand			883	924	
Shale			924	994	
Sand			994	1006	
Shale			1006	1041	
Sand			1041	1050	
Shale			1050	1096	
Sand			1096	1120	
Shale & Siltstone			1120	1262	
Sand			1262	1280	
Shale			1280	1394	
Salt Sand			1394	1508	
Shale			1508	1880	
Coffee Shale (Sunbury)			1880	1900	
Berea Sand			1900	1903	Gas show @ 1901
Shale			1903	3042	Gas show @ 1974, 2160, 212400, 2492, 2670, 271
Brown Shale			3042	3540	Gas show @ 3512
Shale			3540	3871	Gas show @ 3692
Marcellus Shale			3871	4078	Gas show @ 3905, 3945
Onondaga Lime			4078	4166	Gas show @ 4150
Oriskany Sand			4166	4206	Gas show @ 4166, 4180
Helderberg Lime			4206	4304	
Total Depth			4304		

(Attach separate sheets to complete as necessary)

KAISER EXPLORATION AND MINING COMPANY
Well Operator

By R.A. P
Its General Manager

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 gas, encountered in the drilling of a well."

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

RECEIVED

NOV - 2 1981

Oil and Gas Division

OIL AND GAS DIVISION
WV DEPARTMENT OF MINES

OIL AND GAS WELL PERMIT APPLICATION

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

Surface Owner George Rhodes
Address Rt. 1, Box 149, New England
Mineral Owner Same
Address _____
Coal Owner Same
Address _____
Coal Operator None
Address _____

DATE October 27, 1981
Company Kaiser Exploration and Mining Company
Address P. O. Box 8, Ravenswood, WV. 26164
Farm George Rhodes Acres 199.25
Location (waters) North Fork of Lee Creek
Well No. KEM #135 Elevation 642'
District Harris County Wood
Quadrangle Lubeck

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 7-4-82.

INSPECTOR
TO BE NOTIFIED Deo Mace
ADDRESS Rt. 1, Box 65, Sandridge, WV
PHONE 655-8693

[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 thereto, (or as the case may be) under grant or lease dated May 22, 1979 by George & Beva Rhodes made to Royal Resources Corp. assigned to Kaiser Exploration & Mining Co. and recorded on the 13 day of June 78 in Wood County, Book 707 Page 327

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
ECONOMIC SURVEY
P. O. BOX 879
MARTINSBURG, WEST VIRGINIA 26105
304 - 292-6331

Very truly yours,
(Sign Name) [Signature]
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 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.

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: 4320' 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			
13 - 10			
9 - 5/8 10 3/4"	250'	250'	150 sks class A
8 - 5/8			
7	1912'	1912'	65 sks 50/50 pozmix
5 1/2			100 sks class A
4 1/2	4320'	4320'	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 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

FILE COPY
RECEIVED
AUG 22 1985



1) Date: August 14, 1985
 2) Operator's Well No. KEM #135
 3) API Well No. 47 107 1183 Frac
 State County Permit

DIVISION OF OIL AND GAS 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: 642' Watershed: North Fork of Lee Creek
 District: Harris County: Wood Quadrangle: Lubeck
 6) WELL OPERATOR: Exploration and Mining Company CODE: 2533-0 7) DESIGNATED AGENT R. A. Pryce
 Address P. O. Box 8 465 Address Same
Ravenswood, WV 26164
 8) OIL & GAS INSPECTOR TO BE NOTIFIED Name Glen Robinson
 Address Rt. 1, #6 Mt. Pleasant Estate
Mineral Wells, WV 26150
 9) DRILLING CONTRACTOR: Name Kaiser Exploration and Mining Company
 Address P. O. Box 8
Ravenswood, WV 26164
 10) PROPOSED WELL WORK: Drill Drill deeper Redrill Stimulate
 Plug off old formation Perforate new formation Set permanent bridge plug
 Other physical change in well (specify) at 3600'; calseal on top of plug; frac
 11) GEOLOGICAL TARGET FORMATION, Brown Shale/Berea 401 Berea
 12) Estimated depth of completed well, 3600' feet
 13) Approximate strata depths: Fresh, _____ feet; salt, _____ feet.
 14) Approximate coal seam depths: _____ 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"					252'	252'	150 sks class A	
Coal									Sizes
Intermediate	7"					1768'	1768'	65 sks pozm X, 100 sks Class A	
Production	4 1/2"					4250'	4250'	225 sks pozm	Depths set
Tubing									
Liners									Perforations:
									Top Bottom

OFFICE USE ONLY
DRILLING PERMIT

Permit number 47-107-1183 Frac Date September 3 19 85

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 September 3, 1987 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond: <input checked="" type="checkbox"/>	Agent: <u>MB</u>	Plat: <u>ML</u>	Casing <u>MX</u>	Fee <u>969001</u> <u>969000</u>	WPCP <input checked="" type="checkbox"/>	S&E <input checked="" type="checkbox"/>	Other
-------------------------------------------	------------------	-----------------	------------------	------------------------------------	------------------------------------------	-----------------------------------------	-------

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

[Signature]
 Director, Division of Oil and Gas

File