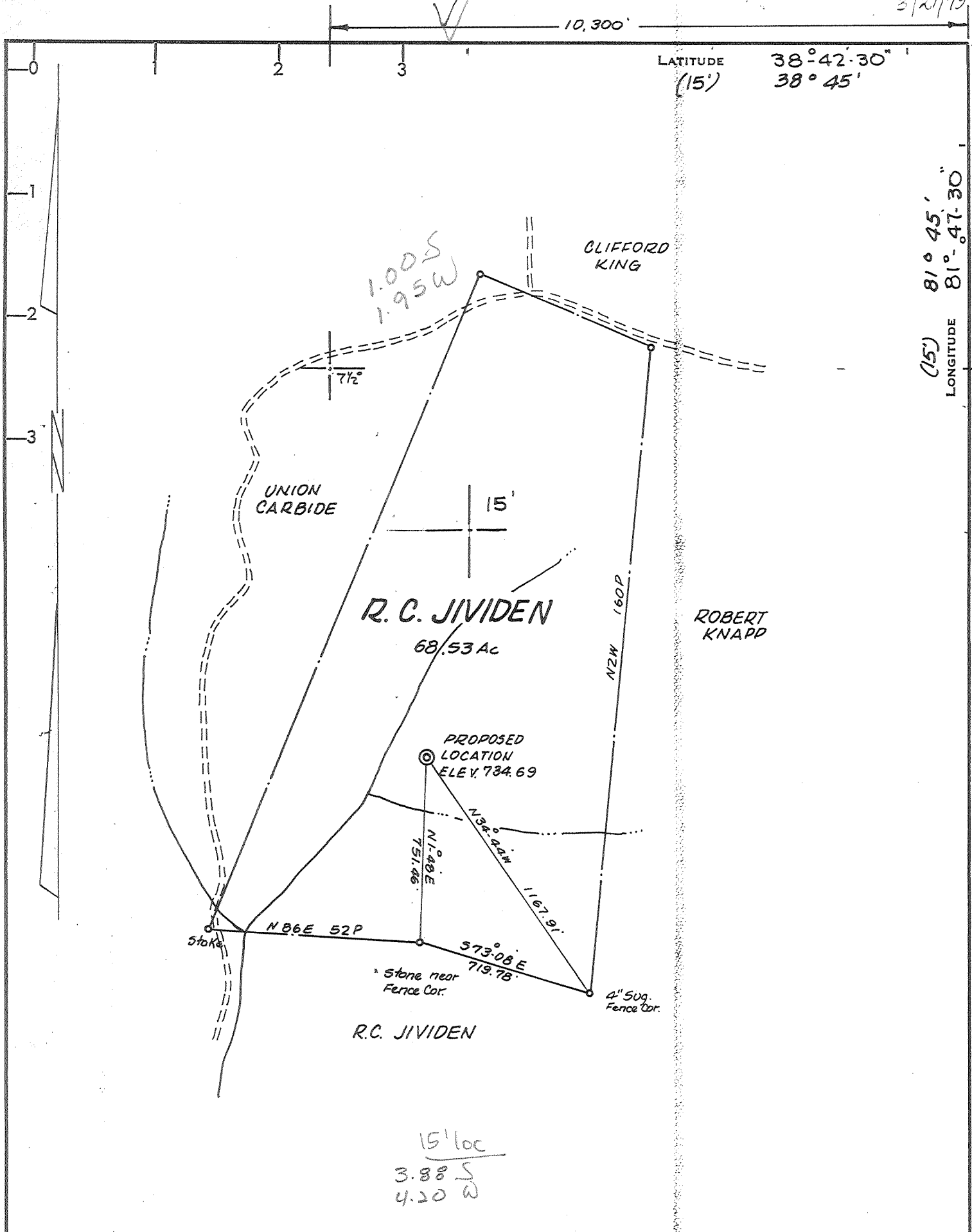


3/21/79



D-Frac. 9/11/90

- NEW LOCATION
- RECONDITION
- DRILL DEEPER
- ABANDONMENT

CERTIFICATE

"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."

Minimum degree of accuracy is one part in 200

Signed Frank W. Barber LLS# 209

COMPANY Durst Oil & Gas Co. Inc. 4550
 ADDRESS Rt. 2, Box 538- Pt. Pleasant, WV 25550
 FARM R.C. JIVIDEN
 MAP _____ ACRES 68.53 LEASE NO. _____
 WELL (FARM) NO. 1 SERIAL NO. KEM 17
 ELEVATION (SPIRIT LEVEL) 734.69
 QUADRANGLE ELMWOOD, WINFIELD 15' NE
 COUNTY MASON DISTRICT UNION 9
 POINT OF PROVEN ELEVATION USGS BM EL. 635
 FILE NO. _____ DRAWING NO. _____
 DATE MARCH 5, 1979 SCALE 1"=500 FT.

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

WELL LOCATION MAP

FILE NO. 47-053-0190-Fra

SEP 14 1990

+ 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.

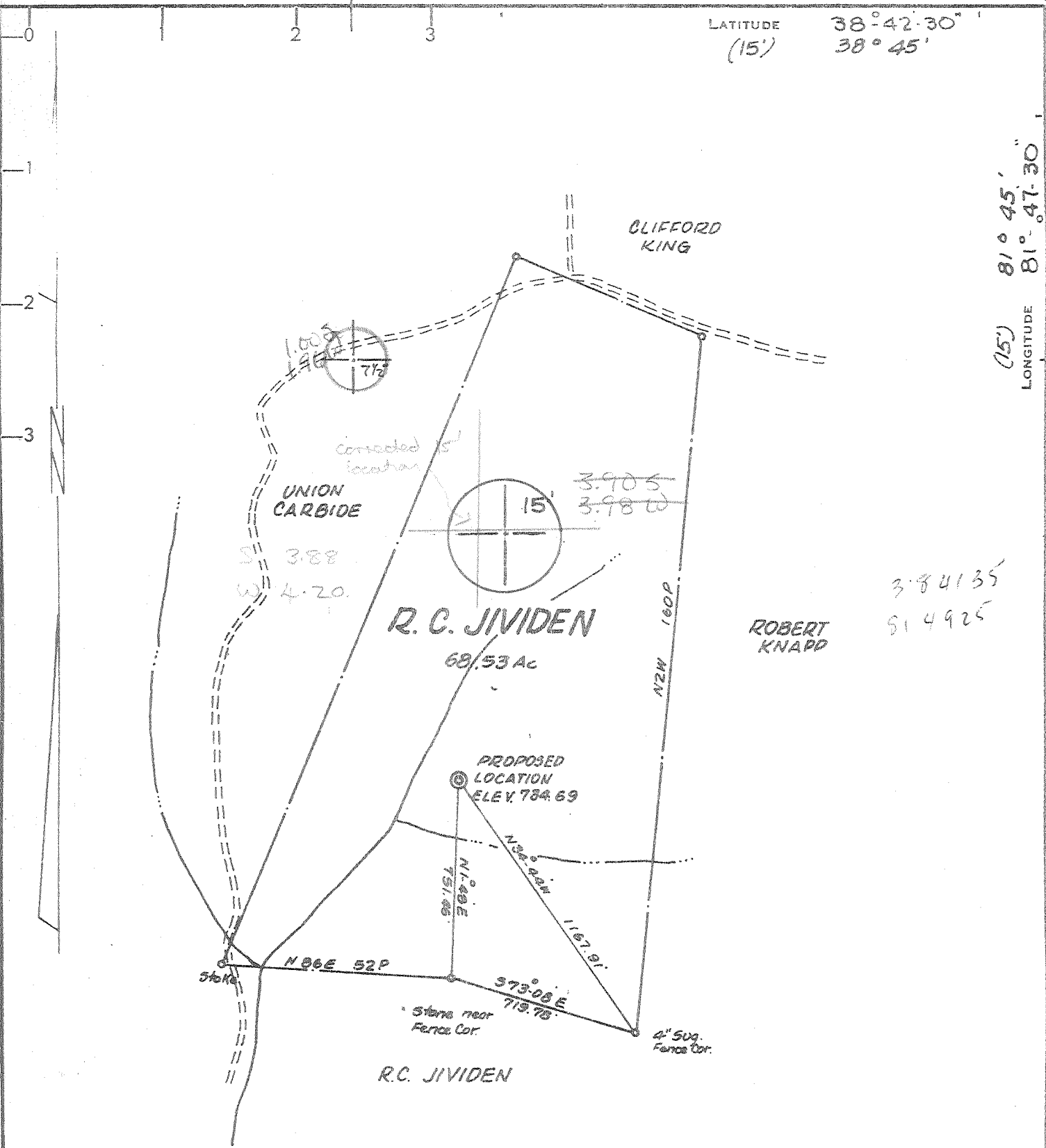
Deepwell 800 ^{OWWO} Cruskant 8-6 Rock Castle (346)

10,300

LATITUDE 38° 42' 30"
(15') 38° 45'

LONGITUDE 81° 47' 30"
(15') 81° 45'

5,300



CERTIFICATE

"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."

Minimum degree of accuracy is one part in 200
Signed Frank J. Barber L.L.S. #209

- NEW LOCATION
- RECONDITION
- DRILL DEEPER
- ABANDONMENT

COMPANY KAISER EXPLORATION & MINING COMPANY
 ADDRESS P.O. BOX 537 RIPLEY, WEST VIRGINIA
 FARM R.C. JIVIDEN
 MAP _____ ACRES 68.53 LEASE NO. _____
 WELL (FARM) NO. 1 SERIAL NO. KEM 17
 ELEVATION (SPIRIT LEVEL) 734.69
 QUADRANGLE ELMWOOD, WINFIELD 15' IVF
 COUNTY MASON DISTRICT UNION
 POINT OF PROVEN ELEVATION USGS BM EL. 635
 FILE NO. _____ DRAWING NO. _____
 DATE MARCH 5, 1979 SCALE 1"=600 FT.

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION
 CHARLESTON
WELL LOCATION MAP
 FILE NO. 47-053-0190
 + 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.

Deep Well 5-5 Rock Castle (346)

APR 27 1979



FEB 20 1980

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

OIL & GAS DIVISION
DEPT. OF MINES

Oil and Gas Division

WELL RECORD 42

Quadrangle Elmwood

Permit No. 47-053-0190

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

Company <u>Kaiser Exploration and Mining Company</u>	Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Address <u>P. O. Box 8, Ravenswood, WV 26164</u>	Size			
Farm <u>R. C. Jividen</u> Acres <u>734.69</u>	20-16			
Location (waters) <u>Thirteen Mile Creek</u>	Cond.			
Well No. <u>KEM 17</u> Elev. <u>734.69</u>	<u>13-10" 10 3/4"</u>	<u>251' (KB)</u>	<u>Same</u>	<u>125 sx class A (to surface) (Halliburton)</u>
District <u>Union</u> County <u>Mason</u>	<u>9 5/8</u>			
The surface of tract is owned in fee by <u>R. C. Jividen</u>	<u>8 5/8</u>			
Address <u>Rt. 3, Box 152, Leon, WV 25123</u>	<u>7</u>	<u>2484' (KB)</u>	<u>Same</u>	<u>65 sx pozmix 100 sx class A (Halliburton)</u>
Mineral rights are owned by <u>Same</u>	<u>5 1/2</u>			
Address <u>Same</u>	<u>4 1/2</u>	<u>4793' (KB)</u>	<u>Same</u>	<u>225 sx pozmix (Halliburton)</u>
Drilling Commenced <u>8/20/79</u>	<u>3</u>			
Drilling Completed <u>8/29/79</u>	<u>2</u>		<u>4729' (KB)</u>	
Initial open flow <u>16,000</u> cu. ft. -- bbls.	Liners Used			
Final production <u>750 M</u> cu. ft. per day -- bbls.				
Well open <u>20</u> hrs. before test <u>1850</u> RP.				

Well treatment details:

Attach copy of cementing record.

Perforated the Oriskany S.S. from 4730' - 4736' (K.B.) w/4 holes/ft (8/31/79);
Halliburton and Aircowell fractured the zone w/30,000# of 80/100 mesh sand, 30,000#
20/40 mesh sand, 500 gal 28% HCL, 914 BBL water, 170,000 SCF nitrogen.

750 MCF

Coal was encountered at _____ Feet _____ Inches
Fresh water _____ Feet _____ Salt Water _____ Feet _____
Producing Sand Oriskany Depth 4730-36

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Soil & Shale			0	290		<u>Tops Probably From KB: 747'</u>
Sand			290	345		
Shale			345	402		
Sand			402	430		
Shale			430	580		
Sand			580	600		
Shale			600	845		
Sand			845	870		
Shale			870	935		
Sand			935	1020		
Shale			1020	1145		
Salt Sand			1145	1335		
Shale			1335	1435		
Sand			1435	1485		
Shale			1485	1525		
Sand			1525	1620		
Shale			1620	1645		
Sand			1645	1655		
Shale			1655	1705		
Big Lime			1705	1895		
Big Injun			1895	1910		
Shale			1910	1940		
Injun			1940	2000		

(over)

* Indicates Electric Log tops in the remarks section.

MAR 10 1980

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Shale			2000	2385		
Coffee Shale			2385	2408		
Berea Sand			2408	2422		
Shale			2422	3608		
Brown Shale			3608	4400		
Marcellus			4400	4626		
Onondaga Lime			4626	4706		
Oriskany Sand			4706	4742		
Lime			4742	4814		
					Total Depth	

Date February 20

1980

APPROVED Kaiser Exploration and Mining Company

By Kath A. P...
Operations Manager



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

RECEIVED
MAR 21 1979

Oil and Gas Division

OIL & GAS DIVISION
DEPT. OF MINES

OIL AND GAS WELL PERMIT APPLICATION

THE DEPARTMENT OF MINES,
Charleston, W. Va.

DATE March 6, 1979

Surface Owner R. C. Jividen Company Kaiser Exploration and Mining Company
Address Route 3, Box 152, Leon, WV 25123 Address P. O. Box 537, Ripley, WV 25271

General Owner R. C. Jividen Farm R. C. Jividen Acres 68.53
Address Route 3, Box 152, Leon, WV 25123 Location (waters) Thirteen Mile Creek

Local Owner Union Carbide Well No. KEM 17 Elevation 734.69
Address Charleston, WV District Union County Mason

Local Operator None Quadrangle Elmwood
Address None

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 TO BE NOTIFIED Kenneth Butcher
Inspector

operations have not commenced by 12-5-79 ADDRESS RFD #1, Barboursville, WV 25504
Deputy Director - Oil & Gas Division PHONE 736-4885

GENTLEMEN:

The undersigned well operator is entitled to drill upon the above named farm or tract of land for oil and gas, having fee
there to, (or as the case may be) under grant or lease dated May 6, 19 78 by R. C. Jividen
made to Kaiser Exploration & Mining Co and recorded on the 12th day of April
78 in Mason County, Book 43 Page 104

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
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
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.

Very truly yours,

(Sign Name) R. A. Pryce
R. A. Pryce Well Operator
P. O. Box 537
Street
Ripley
City or Town
West Virginia
State

PLEASE SUBMIT COPIES OF ALL
GEOPHYSICAL LOGS DIRECTLY TO:

W. VA. OIL & GAS CONSERVATION COMMISSION
613 WASHINGTON STREET, EAST
CHARLESTON, WEST VIRGINIA 25311

*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

47-053-0190

PERMIT NUMBER

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

PROPOSED WORK ORDER TO X DRILL _____ DEEPEN _____ FRACTURE-STIMULATE _____
 DRILLING CONTRACTOR: (If Known) RESPONSIBLE AGENT:
 NAME Not known at this time NAME Robert A. Pryce
 ADDRESS _____ ADDRESS P. O. Box 537, Ripley, WV 25271
 TELEPHONE _____ TELEPHONE 372-2828 or 372-2827
 ESTIMATED DEPTH OF COMPLETED WELL: 4800 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	225	225	Cement to surface
8 - 5/8			
7	2450	2450	125 sks = 570 feet
5 1/2			
4 1/2	4800	4800	125 sks = 1500 feet
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

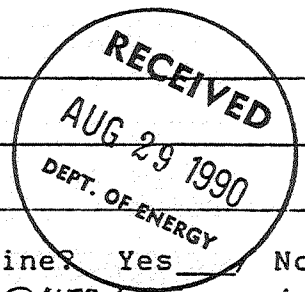
053-0190 F
Issued 9/14/90

FORM WW-2B

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

Expires Page 1 of 1
9/14/92

- 1) Well Operator: 4550 Durst Oil and Gas 14680 (9) 338
- 2) Operator's Well Number: KEM-17 3) Elevation: 734
- 4) Well type: (a) Oil or Gas
(b) If Gas: Production Underground Storage
Deep Shallow
- 5) Proposed Target Formation(s): 441 Devonian Shale
- 6) Proposed Total Depth: 4150' Plug Back TD feet
- 7) Approximate fresh water strata depths: 200'
- 8) Approximate salt water depths: _____
- 9) Approximate coal seam depths: 450
- 10) Does land contain coal seams tributary to active mine? Yes No
- 11) Proposed Well Work: ① Set permanent cast iron bridge plug @ 4150', Place a dump boiler of casing on top, ② Perforate csg 4065' to 3600' w/20 holes ③ Free Devonian Sha
- 12) with 75Q foam and 45,000 lbs 20/40 sand. (SUBMIT AFFIDAVIT OF PLUGGING CASING AND TUBING PROGRAM FOR PLUG BACK, GS)



TYPE SPECIFICATIONS FOOTAGE INTERVALS CEMENT

TYPE	Size	Grade	Weight per ft.	For drilling	Left in well	Fill-up (cu. ft.)
Conductor						
Fresh Water	10 3/4"	H	32.75	251'	251'	125 SKS CLASS A Circ @ Surface
Coal						
Intermediate	7"	K	20.00	2484'	2484'	65 SK POZ 100 SK CLASS A
Production	4 1/2"	N	11.60	4793'	4793'	225 SK CLASS A
Tubing					Proposed 4 1/2" PBTD 4150'	
Liners						

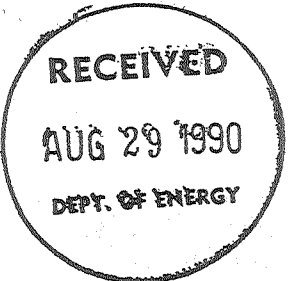
PACKERS : Kind _____
 Sizes _____
 Depths set _____

For Division of Oil and Gas Use Only

- Fee(s) paid: Well Work Permit Reclamation Fund WPCP
 Plat 9 WW-2B Bond L.C. Agent

0811

back #6
dep 24



Page 1 of 2
Form WW2-A
(09/87)
File Copy

- 1) Date: 6-17-90
- 2) Operator's well number
KEM 17 Jividen
- 3) API Well No: 47 - 053 - 0190-FRAC
State - County - Permit

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

- | | |
|--|---|
| <p>4) Surface Owner(s) to be served:</p> <p>(a) Name <u>R. L. Jividen</u>
Address <u>Rt 3 Box 319-B</u>
<u>Hurricane, WV 25526</u></p> <p>(b) Name _____
Address _____</p> <p>(c) Name _____
Address _____</p> | <p>5) (a) Coal Operator:
Name <u>Appalachian Land Co</u>
Address <u>Ashland, KY 41101</u></p> <p>(b) Coal Owner(s) with Declaration
Name _____
Address _____</p> <p>(c) Coal Lessee with Declaration
Name _____
Address _____</p> |
| <p>6) Inspector <u>Jerry Tephahock</u>
Address <u>Rt 1 Box 101-A</u>
<u>Ripley, WV 25271</u>
Telephone (304) <u>372-6805</u></p> | |

TO THE PERSON(S) NAMED ABOVE TAKE NOTICE THAT:

_____ Included is the lease or leases or other continuing contract or contracts by which I hold the right to extract oil and gas OR
 Included is the information required by Chapter 22B, Article 1, Section 8(d) of the Code of West Virginia (see page 2)

I certify that as required under Chapter 22B of the West Virginia Code I have served copies of this notice and application, a location plat, and accompanying documents pages 1 through _____ on the above named parties, by:

_____ Personal Service (Affidavit attached)
 Certified Mail (Postmarked postal receipt attached)
 _____ Publication (Notice of Publication attached)

I have read and understand Chapter 22B and 38 CSR 11-18, and I agree to the terms and conditions of any permit issued under this application. I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete.

I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Well Operator Durst Oil and Gas
 By: Ronald W. Durst Jr
 Its: owner
 Address Rt 2 Box 538
Point Pleasant, WV 25550
 Telephone (304) 675-3064

Subscribed and sworn before me this 31st day of July, 1990

May S Merritt Notary Public
 My commission expires 1/29/94

State of West Virginia
DEPARTMENT OF ENERGY
Division of Oil and Gas

RECEIVED
Division of Energy

Well Operator's Report of Well Work

Farm name: JIVIDEN, R. L. Operator Well No.: KEM 17 JAN 09 91

LOCATION: Elevation: 734.00 Quadrangle: ELMWOOD

District: UNION County: MASON
Latitude: 5300 Feet South of 38 Deg. 42Min. 30 Sec.
Longitude 10300 Feet West of 81 Deg. 47 Min. 30 Sec.

Company: DURST OIL & GAS CO., INC.
ROUTE 2, BOX 538
POINT PLEASANT, WV 25550-0538

Casing & Tubing Size	Used in	Left in Well	Cement Fill Up Cu. Ft.
10 3/4"	251	251	125 SK class A to Surface
7"	2484	2484	65 SK P02 100 SK Class
4 1/2"	4793	4793	225 SK Class A

Agent: RONALD W. DURST, JR.

Inspector: JERRY TEPHABOCK
Permit Issued: 09/14/90
Well work Commenced: 9-17-90
Well work Completed: 9-17-90
Verbal Plugging
Permission granted on:
Rotary Cable x Rig
Total Depth (feet) 4150
Fresh water depths (ft) 200
Salt water depths (ft) 200
Is coal being mined in area (Y/N)? N
Coal Depths (ft):

OPEN FLOW DATA

Producing formation Brown Shale Pay zone depth (ft) 3500-4000
Gas: Initial open flow 150 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 4 Hours
Static rock Pressure 900 psig (surface pressure) after 24 Hours
Second producing formation N/A Pay zone depth (ft) _____
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 pressure) after _____ Hours

NOTE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE.

For: DURST OIL & GAS CO., INC.

By: Ronald W. Durst JR
Date: Nov 29, 1990

JAN 11 1991

1. 1.) Set Permanent Cast Iron plug @ 4150'
Cover w/ Calseal
- 2.) Perf 3800' to 4065' w/ 20 holes
- 3.) Foam Frac w/ 75 Q N₂ 45000 lbs sand

2. Geological Record previously submitted (existing well)