



1) Date: June 6, 19 83
 2) Operator's Well No. KEM #341
 3) API Well No. 47 035 1858
 State County Permit

DRILLING CONTRACTOR:

Clint Hurt & Associates
Elkview, WV

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

- 4) WELL TYPE: A Oil Gas
 B (If "Gas", Production Underground storage Deep Shallow)
- 5) LOCATION: Elevation: 902 Watershed: Sycamore Creek
 District: Ripley County: Jackson Quadrangle: Ripley
- 6) WELL OPERATOR Kaiser Exploration and Mining Co. 11) DESIGNATED AGENT R. A. Pryce
 Address P. O. Box 8 Address Same
Ravenswood, WV 26164
- 7) OIL & GAS ROYALTY OWNER C. A. Jewell heirs
 Address Rt. 1, Box 311
Ripley, WV 25271
 Acreage 68
- 8) SURFACE OWNER G. W. & Lottie Payne
 Address Rt. 1
Ripley, WV 25271
 Acreage 68
- 9) FIELD SALE (IF MADE) TO:
 Address _____
- 10) OIL & GAS INSPECTOR TO BE NOTIFIED
 Name Homer Dougherty
 Address Linden Rt., Box 3A
Looneyville, WV
- 12) COAL OPERATOR None
 Address _____
- 13) COAL OWNER(S) WITH DECLARATION ON RECORD:
 Name None
 Address _____
 Name _____
 Address _____
- 14) COAL LESSEE WITH DECLARATION ON RECORD:
 Name None
 Address _____
- 15) PROPOSED WORK: Drill Drill deeper Redrill Fracture or stimulate
 Plug off old formation Perforate new formation
 Other physical change in well (specify) _____
- 16) GEOLOGICAL TARGET FORMATION, Devonian Brown Shale
- 17) Estimated depth of completed well, 5054 feet
- 18) Approximate water strata depths: Fresh, 352 feet; salt, _____ feet.
- 19) Approximate coal seam depths: _____ Is coal being mined in the area? Yes No

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 OIL & GAS DIVISION
 DEPT. OF MINES

20) 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"			X		400	400	150 sks class	A to surface
Coal									Sizes
Intermediate	7"			X		2371	2371	65 sks 50/50	pozmix
Production	4 1/2"			X		5054	5054	100 sks class	A
Tubing								224 sks 50/50	pozmix
Liners									Perforations:
									Top Bottom

21) EXTRACTION RIGHTS

- Check and provide one of the following:
 Included is the lease or leases or other continuing contract or contracts by which I hold the right to extract oil or gas.
 The requirement of Code 22-4-1-(c) (1) through (4). (See reverse side for specifics.)

22) ROYALTY PROVISIONS

Is the right to extract, produce or market the oil or gas based upon a lease or other continuing contract or contracts providing for flat well royalty or any similar provision for compensation to the owner of the oil or gas in place which is not inherently related to the volume of oil or gas so extracted, produced or marketed? Yes No

If the answer above is No, nothing additional is needed. If the answer is Yes, you may use Affidavit Form IV-60.

23) Required Copies (See reverse side.)

24) Copies of this Permit Application and the enclosed plat and reclamation plan have been mailed by registered mail or delivered by hand to the above named coal operator, coal owner(s), and coal lessee on or before the day of the mailing or delivery of this Permit Application to the Department of Mines at Charleston, West Virginia.

Notary: _____
 My Commission Expires _____

Signed: E. A. P.
 Its: General Manager

OFFICE USE ONLY

Permit number 47-035-1858 DRILLING PERMIT 7/21 19 83
 Date

09/08/2023

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. 10) 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.)

Permit expires 3/21/84 unless drilling is commenced prior to that date and prosecuted with due diligence.

Boyd: <u>B</u>	Agent: <u>[Signature]</u>	Plat: <u>[Signature]</u>	Casing: <u>[Signature]</u>	Fee: <u>963</u> <u>934</u>
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Michael Jones
 Administrator, Office of Oil and Gas



KAISER EXPLORATION AND MINING COMPANY

LEASE SUMMARY

KEM # 341 & 420

Tract Discription

County: Jackson

District: Ripley

Acres: 68

Bounded By: North - C. A. Jewell

East -

South - Anna Gaye Canterbury, et vir

West -

Lease Parties

Lessor(s): C. A. Jewell, heirs

Lessee: Kaiser Exploration and Mining Company

Recording Information

Book and Page: 164/150

Royalty Provision

1/8 of prevailing field price

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OIL & GAS DIVISION
DEPT. OF MINES

09/08/2023

IV-9
(Rev 8-81)



DATE June 1, 1983

WELL NO. KEM 341

State of West Virginia
Department of Mines
Oil and Gas Division

API NO. 47 - 035 - 1858-ken

CONSTRUCTION AND RECLAMATION PLAN

COMPANY NAME Kaiser Exploration and Mining Co DESIGNATED AGENT Same

Address P. O. Box 8, Ravenswood, WV 26164 Address _____

Telephone 273-5371 Telephone _____

LANDOWNER G. W. Payne SOIL CONS. DISTRICT Western

Revegetation to be carried out by Kaiser Exploration and Mining Company (Agent)

This plan has been reviewed by _____ SCD. All corrections
and additions become a part of this plan: June 4, 1983
(Date)

Wayne W. Hughes
(SCD Agent)

ACCESS ROAD

LOCATION

Structure Cross Drains (A)
Spacing 60'
Page Ref. Manual 2.4

Structure None required (1)
Material _____
Page Ref. Manual _____

Structure Road Culvert (B)
Spacing 12" diameter
Page Ref. Manual 2.7

Structure _____ (2)
Material _____
Page Ref. Manual _____

Structure Rip Rap (C)
Spacing Log
Page Ref. Manual _____

Structure _____ (3)
Material _____
Page Ref. Manual _____

All structures should be inspected regularly and repaired if necessary. All commercial timber is to be cut and stacked and all brush and small timber to be cut and removed from the site before dirt work begins.

RECEIVED
JUN - 8 1983

REVEGETATION

Treatment Area I

Treatment Area II
OIL & GAS DIVISION
DEPT. OF MINES

Lime 4 Tons/acre
or correct to pH _____
Fertilizer 14-14-14 600 lbs/acre
(10-20-20 or equivalent)
Mulch Hay 2 Tons/acre
Seed* 81% Orchard Grass/15% Ryegrass 16 lbs/acre
Kentucky 31 Fescue 16 lbs/acre
Red Clover 8 lbs/acre

Lime Same as Area I Tons/acre
or correct to pH _____
Fertilizer _____ lbs/acre
(10-20-20 or equivalent)
Mulch _____ Tons/acre
Seed* _____ lbs/acre
_____ lbs/acre
_____ lbs/acre

*Inoculate all legumes such as vetch, trefoil and clovers with the proper bacterium. Inoculate with 3X recommended amount.


PLAN PREPARED BY William Ambrose 09/08/2023


NOTES: Please request landowner's cooperation to protect new seedling for one growing season. Attach separate sheets as necessary for comments.

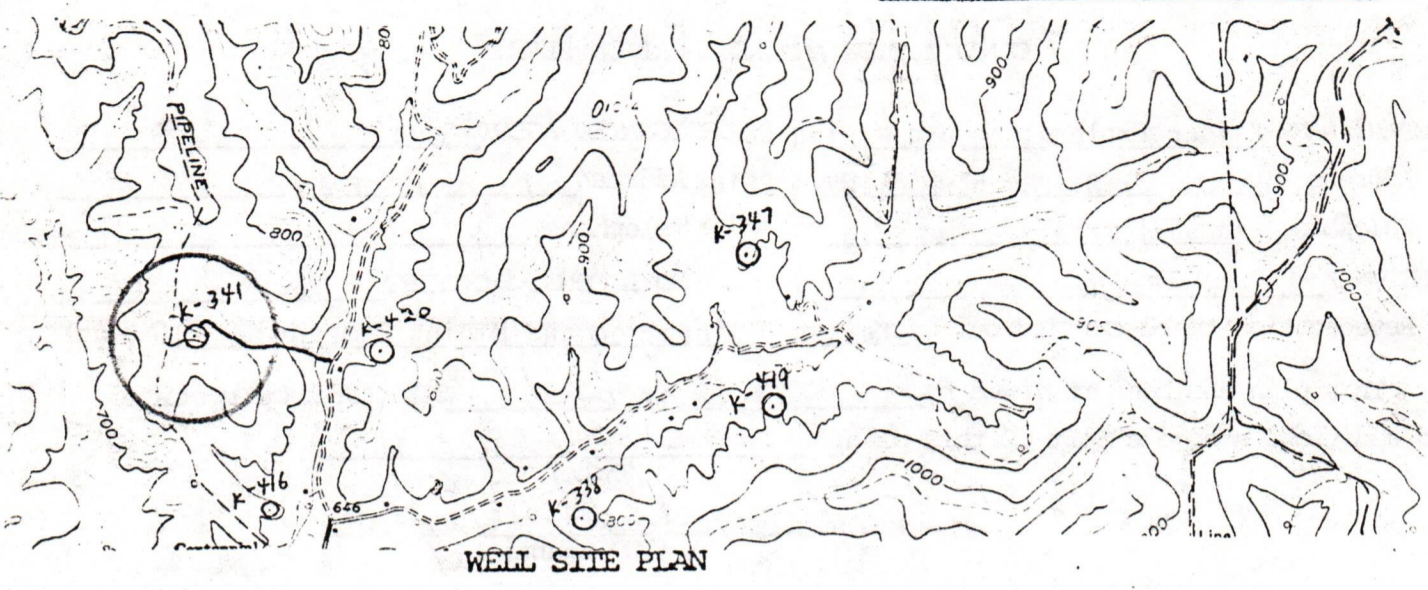
ADDRESS Rt. 2, Box 51A
Walker, WV 26180
PHONE NO. 679-3970

ATTACH OR PHOTOCOPY SECTION OF INVOLVED TOPOGRAPHIC MAP. QUADRANGLE RIPLEY

LEGEND











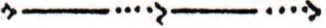

Well Site 

Access Road 

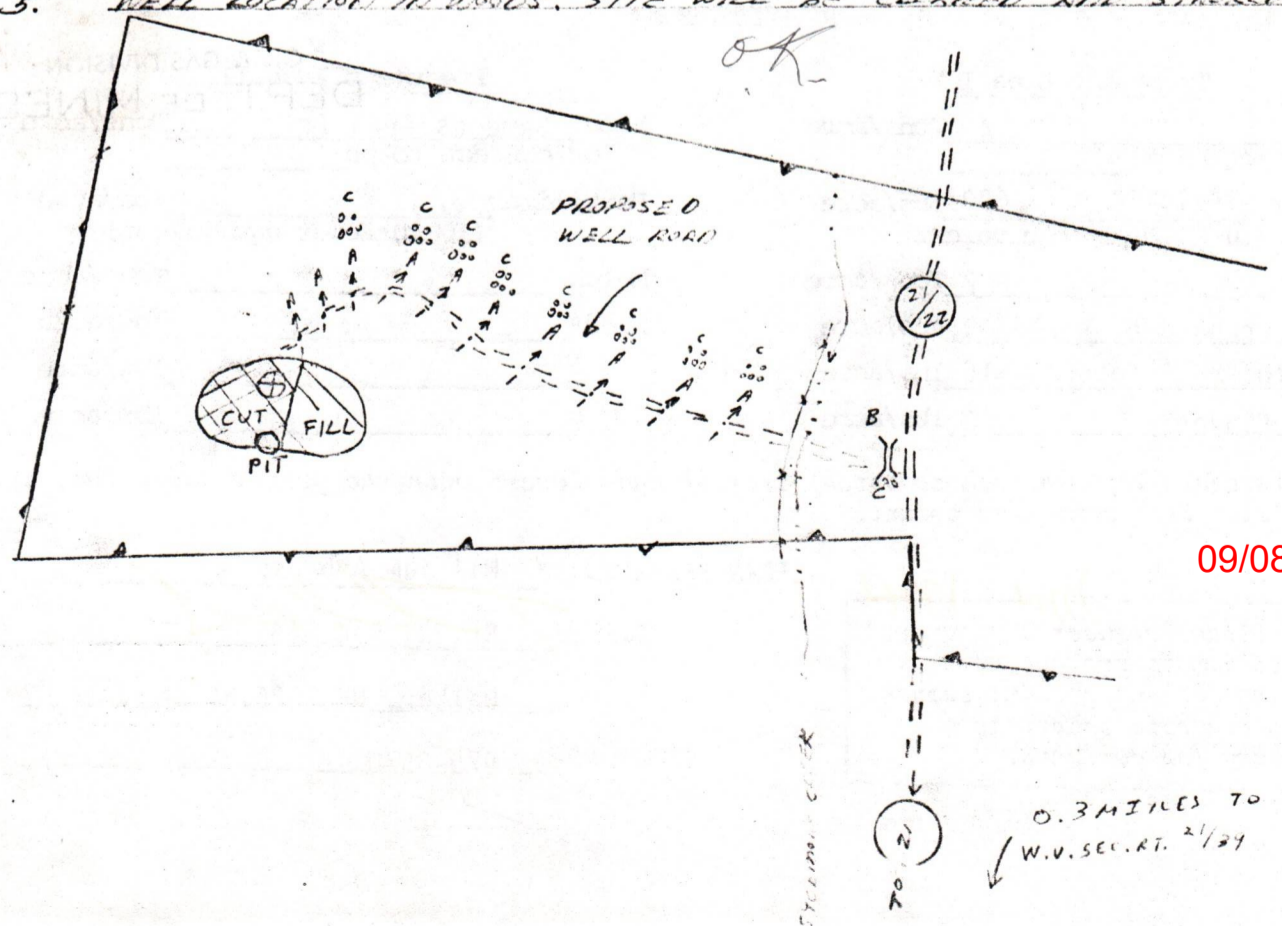


Sketch to include well location, existing access road, roads to be constructed, wellsite, drilling pits and necessary structures numbered or lettered to correspond with the first part of this plan. Include all natural drainage.

LEGEND

Property boundary 	Diversion 
Road 	Spring 
Existing fence 	Wet spot 
Planned fence 	Building 
Stream 	Drain pipe 
Open ditch 	Waterway 

1. STEELING BED WILL BE BUILT UP WITH BRICK AT CROSSING
2. AVERAGE SLOPE OF ACCESS ROAD = 17%
3. WELL LOCATION ON GENTLE SLOPE. NO DIVERSION DITCH NECESSARY
4. ENTRANCE TO ACCESS ROAD WILL BE STONED
5. WELL LOCATION IN WOODS. SITE WILL BE CLEARED AND STAKED FIRST.



09/08/2023

0.3 MILES TO W.V. SEC. RT. 21/24



1) Date: February 28, 19 84
 2) Operator's Well No. KEM #341
 3) API Well No. 47 - 035 - 1858-REN
 State County Permit

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES, 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: 902' Watershed: Sycamore Creek
 District: Ripley County: Jackson Quadrangle: Ripley
- 6) WELL OPERATOR Kaiser Exploration and Mining Co DESIGNATED AGENT R. A. Pryce
 Address P. O. Box 8 Address Same
Ravenswood, WV 26164
- 8) OIL & GAS INSPECTOR TO BE NOTIFIED Name Jerry Tephabock
 Address Rt. 1, Box 101A
Ripley, WV 25271
- 9) DRILLING CONTRACTOR: Name Clint Hurt
 Address P. O. Box 388
Elkview, WV
- 10) PROPOSED WELL WORK: Drill / Drill deeper / Redrill / Stimulate /
 Plug off old formation / Perforate new formation /
 Other physical change in well (specify) _____
- 11) GEOLOGICAL TARGET FORMATION, Devonian Brown Shale
- 12) Estimated depth of completed well, 5054 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	<u>10 3/4"</u>			<input checked="" type="checkbox"/>		<u>400-250</u>	<u>400-250</u>	<u>150 sks class A to surface</u>	Sizes
Coal									
Intermediate	<u>7"</u>			<input checked="" type="checkbox"/>		<u>2371</u>	<u>2371</u>	<u>65 sks 50/50 bozmix, 100 sks class A</u>	
Production	<u>4 1/2"</u>			<input checked="" type="checkbox"/>		<u>5054</u>	<u>5054</u>	<u>225 sks 50/50 bozmix</u>	
Tubing									Perforations:
Liners									Top Bottom

OFFICE USE ONLY
 DRILLING PERMIT

Permit number 47-035-1858-REN

May 1, 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 1, 1986 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond: BLANKET	Agent: <u>ls</u>	Plat: <u>MW</u>	Casing: <u>MW</u>	Fee: <u>966-700</u>
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[Signature]
 Administrator, Office of Oil and Gas

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

File

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

09/08/2023

1) Date: February 28, 1984
2) Operator's
Well No. KEM #341
3) API Well No. 47-035-1858-ken.
State County Permit

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES, OFFICE OF OIL & GAS
NOTICE OF APPLICATION FOR A WELL WORK PERMIT

4) SURFACE OWNER(S) OF RECORD TO BE SERVED

5(i) COAL OPERATOR None

(i) Name G. W. Payne
Address Rt. 1
Ripley, WV 25271

Address _____

(ii) Name _____
Address _____

5(ii) COAL OWNER(S) WITH DECLARATION ON RECORD:

Name None

Address _____

(iii) Name _____
Address _____

Name _____

Address _____

5(iii) COAL LESSEE WITH DECLARATION ON RECORD:

Name None

Address _____

TO THE PERSON(S) NAMED ABOVE: You should have received this Form and the following documents:

- (1) The Application for a Well Work Permit on Form IV-2(B) (or Form IV-4 if the well is to be plugged, which sets out the parties involved in the drilling or other work, and describes the well and its location and, if applicable, the proposed casing and cementing program;
- (2) The plat (surveyor's map) showing the well location on Form IV-6; and
- (3) The Construction and Reclamation Plan on Form IV-9 (unless the well work is only to plug a well), which sets out the plan for erosion and sediment control and for reclamation for the site and access road.

THE REASON YOU RECEIVED THESE DOCUMENTS IS THAT YOU HAVE RIGHTS REGARDING THE APPLICATION WHICH ARE SUMMARIZED IN THE "INSTRUCTIONS" ON THE REVERSE SIDE OF THE COPY OF THE APPLICATION (FORM IV-2(B) OR FORM 4, DESIGNATED FOR YOU. HOWEVER, YOU ARE NOT REQUIRED TO TAKE ANY ACTION AT ALL.

Take notice that under Chapter 22 of the West Virginia Code, the undersigned well operator proposes to file or has filed this Notice and Application and accompanying documents for a Well Work Permit with the Administrator of the Office of Oil and Gas, West Virginia Department of Mines, with respect to a well at the location described on attached Application and depicted on attached Form IV-6. Copies of this Notice, the Application, the plat, and the Construction and Reclamation Plan have been mailed by registered or certified mail or delivered by hand to the person(s) named above (or by publication in certain circumstances) on or before the day of mailing or delivery to the Administrator.

6) ~~EXTRACTION RIGHTS~~

Check and provide one of the following:

- Included is the lease or leases or other continuing contract or contracts by which I hold the right to extract oil or gas.
- The requirement of Code 22-4-1-(c) (1) through (4). (See reverse side for specifics.)

7) ROYALTY PROVISIONS

Is the right to extract, produce or market the oil or gas based upon a lease or leases or other contract or contracts providing for flat well royalty or any similar provision for compensation to the owner of the oil or gas in place which is not inherently related to the volume of oil or gas so extracted, produced or marketed? Yes (No)

If the answer above is No, nothing additional is needed. If the answer is Yes, you may use Affidavit Form IV-60.

See the reverse side for line item instructions, and for instructions concerning the required copies of the Notice and Application, plat, and Construction and Reclamation Plan.

The truth of the information on the Notice and Application is verified and sworn to and the Notice is signed on behalf of the Well Operator in my County and State by

WELL

OPERATOR Kaiser Exploration and Mining Company

By R. A. Pryce

Its General Manager

Address P. O. Box 8

Ravenswood, WV 26164

Telephone 304 273 5371

R. A. Pryce
this 12 day of March, 1984.
My commission expires 8/30, 1993.

Denese Carney
Notary Public, Jackson County,
State of West Virginia

I N S T R U C T I O N S T O A P P L I C A N T

CONCERNING THE LINE ITEMS:

- 1) Date of Notice.
- 2) Your well name and number.
- 3) To be filled out by the Office of Oil & Gas.
- 4) & 5) Use separate sheet if necessary.
- 4) Surface owner(s) of record to be served with Notice and Application. However, see also Code § 22-4-1b(b) if "more than three tenants in common or other co-owners of interest described in subsection (a) of this section hold interests in such lands".
- 5(i) "Coal Operator" means any person, firm, partnership, partnership association or corporation that proposes to or does operate a coal mine.
- 5(ii, iii) See Code § 22-4-20.
- 6) See Code § 22-4-11(c). However, in lieu of filing the lease(s) or other continuing contract(s), the Applicant may fill out the information in the space provided below.
- 7) See Code §§ 22-4-11(d, e).

CONCERNING THE REQUIRED COPIES FOR FILING AND SERVICE:

Filing. Code § 22-4-1k and Regulation 7.02 provide that the original and required copies of the Notice and Application must be filed with the Administrator, accompanied by (i) a plat in the form prescribed by Regulation 11, (ii) a bond in one of the forms prescribed by Regulation 12, or in lieu thereof the other security allowed by Code § 22-4-1k(d) and the reclamation required by Code § 22-4-12b and Regulation 23, (iv) unless previously paid on the same well, the fees required by Code § 22-4-1a(c) and 22-3-12a, and (v) if applicable, the consent required by Code § 22-4-8a from the owner of any water well on dwelling within 200 feet of the proposed well.

Service. In addition, service must be made on the surface owner(s) and the person(s) with an interest in the coal. See Code §§ 22-4-1m, 22-4-2, 22-4-2a, and 22-4-2b.

I N F O R M A T I O N S U P P L I E D U N D E R C O D E § 22-4-11(d)

I N L I E U O F F I L I N G L E A S E (S) A N D O T H E R C O N T I N U I N G C O N T R A C T (S)

Under the oath required to make the verification on the obverse side of this Notice, I depose and say that I am the person who signed the Notice for the Applicant, and that--

- (1) the tract of land is the same tract described in the Application to which this Notice applies, partly or wholly depicted in the accompanying plat, and described in the Construction and Reclamation Plan;
- (2) the parties and recordation data (if recorded) for lease(s) or other continuing contract(s) by which the Applicant claims the right to extract, produce or market the oil or gas are as follows:

<u>Grantor, lessor, etc.</u>	<u>Grantee, lessee, etc.</u>	<u>Royalty</u>	<u>Book Page</u>
C. A. Jewell	Kaiser Exploration and Mining Company	1/8 of prevailing field price	164/150

AFFIDAVIT OF PERSONAL SERVICE ON SURFACE OWNER

STATE OF West Va,
COUNTY OF Jackson :

The undersigned, being first duly sworn, says that the undersigned served a true and complete copy of all sides of--

- (1) Notice on Form IV-2(A) X / Form IV-3(A) / Form IV-4(A) /
- (2) Application on Form IV-2(B) X / Form IV-3(B) / Form IV-4(B) /
- (3) Map showing the well location on Form IV-5
- (4) Construction and Reclamation Plan on Form IV-9 (unless the application is to plug a well)

--all with respect to operator's Well No. KEM 341 located in Ripley District, Jackson County, West Virginia, upon the person or organization named--

C. W. PAYNE

--by delivering the same in Jackson County, State of West Va. on the 13 day of March, 1984 in the manner specified below.

[COMPLETE THE APPROPRIATE SECTION]

For an individual:

[X] Handing it to him / her / or, because he / she / refused to take it when I offered it, by leaving it in his X / her / presence.

[] Handing it to a member of his or her family above the age of 16 years named _____ who resides at the usual place of abode of the person to be served, and asking the family member to give it to the person to be served as soon as possible.

For a partnership:

[] Handing it to _____, a partner of the partnership or, because the partner refused to take it when I handed it over, by leaving it in the presence of the partner.

For a limited partnership:

[] Handing it to the general partner, named _____, or, because the general partner refused to take it when I tried to hand it over, by leaving it in the presence of the general partner.

For a corporation:

[] Handing it to the corporation's employee / officer / director / attorney in fact named _____.

RECEIVED

MAR 29 1984

Stephen W Kelly
(Signature of person executing service)

OIL & GAS DIVISION

Taken, subscribed and sworn before me this 15 day of March, 1983.
My commission expires 8-30-93

Donese Carney
Notary Public

(AFFIX SEAL IF NOTARIZED IF OUTSIDE THE STATE)

RECEIVED

MAR 2 1968

OIL & GAS DIVISION

DEPT. OF MINES

09/08/2023

RECEIVED

DEC 12 1984

OIL & GAS DIVISION

IV-35 (Rev 8-81)

DEPT. OF MINES



CONFIDENTIAL

CONFIDENTIAL

State of West Virginia
Department of Mines
Oil and Gas Division

Date 8-31-84
Operator's
Well No. KEM # 341
Farm Jewell
API No. 47 - 035 - 1858-R

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 / Shallow x /)

LOCATION: Elevation: 902' Watershed Sycamore Creek
District: Ripley County Jackson Quadrangle Ripley

COMPANY Kaiser Exploration & Mining Co.
ADDRESS P.O. Box 8, Ravenswood, WV 26164
DESIGNATED AGENT R. A. Pryce
ADDRESS Same
SURFACE OWNER G. W. Payne
ADDRESS Rt. 1, Ripley, WV 25271
MINERAL RIGHTS OWNER C. A. Jewell
ADDRESS
OIL AND GAS INSPECTOR FOR THIS WORK Jerry
Tephabock ADDRESS Rt. 1, Box 101 A, Ripley
PERMIT ISSUED 5/1/84
DRILLING COMMENCED 7-25-84
DRILLING COMPLETED 7-31-84
IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED ON

Table with 4 columns: Casing & Tubing, Used in Drilling, Left in Well, Cement fill up Cu. ft. Rows include sizes 20-16, 10 3/4, 9 5/8, 8 5/8, 7, 5 1/2, 4 1/2, 3, 2, and Liners used.

GEOLOGICAL TARGET FORMATION Devonian Brown Shale Depth 3925-4353 feet
Depth of completed well 4459 feet Rotary x / Cable Tools
Water strata depth: Fresh NA feet; Salt NA feet
Coal seam depths: NA Is coal being mined in the area? No

OPEN FLOW DATA

* Producing formation Devonian Brown Shale Pay zone depth 3925-4353 feet
Gas: Initial open flow 0 Mcf/d Oil: Initial open flow 0 Bbl/d
Final open flow 1008 Mcf/d Final open flow 0 Bbl/d
Time of open flow between initial and final tests 4 hours
Static rock pressure 1050 psig (surface measurement) after 96 hours shut in
(If applicable due to multiple completion--)

09/08/2023

* Second producing formation Berea Sandstone Pay zone depth 2573-2579 feet
Gas: Initial open flow 0 Mcf/d Oil: Initial open flow 0 Bbl/d
Final open flow 1008 Mcf/d Oil: Final open flow 0 Bbl/d
Time of open flow between initial and final tests 4 hours
Static rock pressure 1050 psig (surface measurement) after 96 hours shut in

* Coming led pay zone

(Continue on reverse side)

WACK-1858-R

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

- 8-02-84 Young's Wirline to perf Brown Shale with 20(.41' Dia.) 3925/4353
- 8-03-84 BJ-Hughes to foam frac Brown Shale- Breakdown press.-1100 psig, max. press. 2530 psig, Treating pressure-2490, Total Sand-60,000 lb of 20/40, Total N₂-675 mscf, total fluid-335 bbl, ISIP-1210 psig, f min SID-1200 psig
- 8-93-84 Young's to PERF Berea Sandstone with 20(.41" DIA) from 2573-2579'
- 8-03-84 BJ Hughes- to foam frac Berea- Breahdown- 2100 psig, max. press-2190, Treating prss.-1950 psig, Total sand-60,000 lbs of 20/40 sand, Total N₂-620 mscf, Total Fluid-340 bbl, ISIP-1470 psig, 5 min. SIP-1200 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
Soil and Shale			0	200	
Siltstone and Shale			200	310	
Sand			310	402	
Shale			402	457	
Sand			457	496	
Siltstone and Shale			496	700	
Sand			700	774	
Shale and Sand			774	1500	
Dunkard Sands			1500	1734	
Shale			1734	1856	
Salt Sands			1856	2012	
Big Lime (Greenbrier)			2012	2113	
Shale			2113	2160	
Big Injun Sand			2160	2226	
Shale			2226	2558	
Coffee Shale (Sunbury)			2558	2582	
Berea Sand			2582	2588	S/G
Shale			2588	3810	S/G @ 3140
Brown Shale			3810	4370	S/G @ 3950, 4025
Shale			4370	4459	
Total Depth			4459		

(Attach separate sheets as necessary)

Kaiser Exploration & Mining Company

Well Operator

By: RA R

09/08/2023

Date: September 12, 1984

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."

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

RECEIVED

JUL 25 1984

INSPECTOR'S WELL REPORT

Permit No. 035 1858

OIL & GAS DIVISION
DEPT OF MINES
(KIND)

Company <u>Kaiser Exploration</u>	CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
Address _____	Size			Kind of Packer _____
Farm _____	16 _____			
Well No. <u>Kem 341</u>	13 _____			Size of _____
District _____ County <u>K Jackson</u>	10 _____			
Drilling commenced _____	8 1/4 _____			Depth set _____
Drilling completed _____ Total depth _____	6 1/2 _____			
Date shot _____ Depth of shot _____	5 3/16 _____			Perf. top _____
Initial open flow _____ /10ths Water in _____ Inch	3 _____			
Open flow after tubing _____ /10ths Merc. in _____ Inch	2 _____			Perf. bottom _____
Volume _____ Cu. Ft.	Liners Used _____			
Rock pressure _____ lbs. _____ hrs.				Perf. top _____
OIL _____ bbls., 1st 24 hrs.				Perf. bottom _____
Fresh water _____ feet _____ feet	CASING CEMENTED _____ SIZE _____ No. FT. _____ Date _____			
Salt water _____ feet _____ feet	NAME OF SERVICE COMPANY _____			
	COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES			
	_____ FEET _____ INCHES _____ FEET _____ INCHES			
	_____ FEET _____ INCHES _____ FEET _____ INCHES			

Drillers' Names _____

Remarks: _____

Building Location

7 18 84

DATE

James T. ...
09/08/2023

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

RECEIVED
AUG - 1 1984

INSPECTOR'S WELL REPORT

OIL & GAS DIVISION
DEPT. OF MINES

Permit No. 035 1858

Oil or Gas Well _____
(KIND)

Company <u>Kaiser Exploration</u> Address _____ Farm _____ Well No. <u>Kem 341</u> District _____ County <u>Jackson</u> Drilling commenced <u>7 25 84</u> Drilling completed _____ Total depth _____ Date shot _____ Depth of shot _____ Initial open flow _____ /10ths Water in _____ Inch Open flow after tubing _____ /10ths Merc. in _____ Inch Volume _____ Cu. Ft. Rock pressure _____ lbs. _____ hrs. Oil _____ bbls., 1st 24 hrs. Fresh water _____ feet _____ feet Salt water _____ feet _____ feet	CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
	Size			
	16			Kind of Packer _____
	13			
	10			Size of _____
	8 1/4			
	6 3/8			Depth set _____
	5 3/16			
	3			Perf. top _____
	2			Perf. bottom _____
Liners Used			Perf. top _____	
			Perf. bottom _____	

CASING CEMENTED _____ SIZE _____ No. FT. _____ Date _____

NAME OF SERVICE COMPANY _____

COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES

_____ FEET _____ INCHES FEET _____ INCHES

_____ FEET _____ INCHES FEET _____ INCHES

Drillers' Names _____

Remarks:
Spuded 13 1/4 hole 2;30 AM ran 10 jts 10 3/4 csg total 401' set 411 KB. cement Hughes 200 sks 3% cacl 1/4 lb per sk flocele. plug down 12;00. noon .
WOC.

7 25 84
DATE

[Signature]
09/08/2023



State of West Virginia
Department of Mines
Oil and Gas Division
Charleston 25305

FINAL INSPECTION REPORT
INSPECTORS COMPLIANCE REPORT

RECEIVED
SEP 25 1984
OIL & GAS DIVISION
DEPT. OF MINES

COMPANY Kaiser Exploration & Mining Co. PERMIT NO 035 1858
P. O. Box 8 FARM & WELL NO Kem 341 Jewell
Ravenswood, WV 26164 DIST. & COUNTY Jackson

RULE	DESCRIPTION	IN COMPLIANCE	
		YES	NO
23.06	Notification Prior to Starting Work	X	
25.04	Prepared before Drilling to Prevent Waste	X	
25.03	High-Pressure Drilling	X	
16.01	Required Permits at Wellsite	X	
15.03	Adequate Fresh Water Casing	X	
15.02	Adequate Coal Casing		
15.01	Adequate Production Casing	X	
15.04	Adequate Cement Strenght	X	
15.05	Cement Type	X	
23.02	Maintained Access Roads	X	
25.01	Necessary Equipment to Prevent Waste	X	
23.04	Reclaimed Drilling Pits	X	
23.05	No Surface or Underground Pollution	X	
23.07	Requirements for Production & Gathering Pipelines	X	
16.01	Well Records on Site		
16.02	Well Records Filed		
7.05	Identification Markings	X	

I HAVE INSPECTED THE ABOVE CAPTIONED WELL AND RECOMMEND THAT IT BE RELEASED:

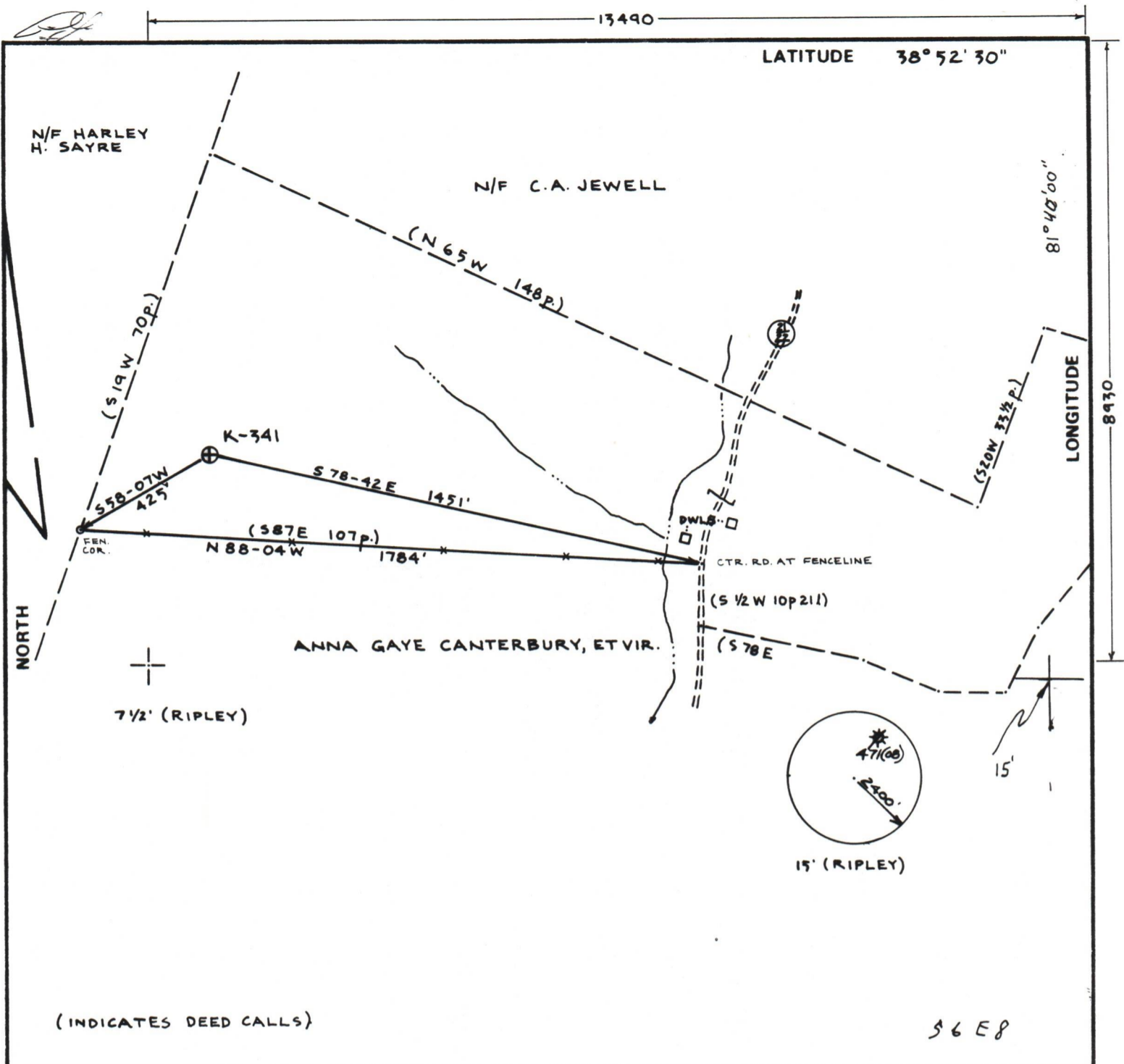
SIGNED *James Tepluh*
DATE 9 20 84

Your well record was received and reclamation requirements approved. In accordance with Chapter 22, Article 4, Section 2, the above well will remain under bond coverage for the life of the well.

T. H. ...
Administrator-Oil & Gas Division

January 28, 1985

DATE



(INDICATES DEED CALLS)

56E8

FILE NO. 83-23
 DRAWING NO. _____
 SCALE 1" = 400'
 MINIMUM DEGREE OF ACCURACY 1:200
 PROVEN SOURCE OF ELEVATION ROAD INT.:
ELEV. = 646

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) William Ambrose
 R.P.E. _____ L.L.S. 568

PLACE SEAL HERE

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



DATE 4 JUNE, 1983
 OPERATOR'S WELL NO. K-341
 API WELL NO. 47-035-1858-Ren.
 STATE COUNTY PERMIT

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION

WELL TYPE: OIL GAS LIQUID INJECTION _____ WASTE DISPOSAL _____
 (IF "GAS,") PRODUCTION STORAGE _____ DEEP _____ SHALLOW
 LOCATION: ELEVATION 902 WATER SHED SYCAMORE CREEK
 DISTRICT RIPLEY COUNTY JACKSON
 QUADRANGLE RIPLEY
 SURFACE OWNER G.W. & LOTTIE PAYNE ACREAGE 68
 OIL & GAS ROYALTY OWNER C.A. JEWELL HEIRS LEASE ACREAGE 68 LEASE NO. 91-09-1441
 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 DEVONIAN SHALE ESTIMATED DEPTH 5054'
 WELL OPERATOR KAISER EXPLORATION DESIGNATED AGENT SAME
 ADDRESS P.O. BOX 8 & MINING CO. ADDRESS _____
RAVENSWOOD W.V. 26164

09/08/2023

2021-1008