



OFFICE USE ONLY

PERMIT MODIFICATIONS AND CONDITIONS (IF ANY) TO THE PROPOSED WELL WORK

1) LOCATION: Elevation: _____; Well No.: _____; State: _____; County: _____; District: _____; Watershed: _____; Underground storage: _____; Production: _____; Gas: _____; Shallow: _____; Deep: _____

2) WELL OPERATOR: Name: _____; Address: _____; City: _____; State: _____; Zip: _____

3) DESIGNATED AGENT: Name: _____; Address: _____; City: _____; State: _____; Zip: _____

4) DRILLING CONTRACTOR: Name: _____; Address: _____; City: _____; State: _____; Zip: _____

5) PROPOSED WELL WORK: Plug off old formation; Re-drill; Re-ream; Re-ream and re-drill; Re-ream and re-drill and re-ream new formation; Re-ream and re-drill and re-ream new formation

6) GEOLOGICAL TARGET FORMATION: _____

7) Estimated depth of completed well: _____ feet

8) Approximate depth of target formation: _____ feet

9) Approximate depth of target formation: _____ feet

10) Other physical change in well (specify): _____

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DEPT. OF MINES
OIL & GAS DIVISION

OFFICE USE ONLY

This part of Form IV-2(b) is to record the dates of certain occurrences and any follow-up inspections.

	Date	Date(s)
Application received		
Well work started		
Completion of the drilling process		
Well Record received		
Reclamation completed		

OTHER INSPECTIONS

Reason: _____

Reason: _____

_____	_____	_____	_____	_____	_____
-------	-------	-------	-------	-------	-------

Administrator, Office of Oil and Gas

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



IV-9
(Rev 8-01)

DATE January 10, 1984

WELL NO. KEM #504

State of West Virginia
Department of Mines
Oil and Gas Division

API NO. 47-035-1935

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 Thelma Hall SOIL CONS. DISTRICT Western

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

This plan has been reviewed by [Signature] SCD. All corrections and additions become a part of this plan: Jan 11 1984 (Date)

[Signature]
(SCD Agent)

ACCESS ROAD

LOCATION

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

(1) Structure Diversion Ditch
Material Earthen
Page Ref. Manual 2:12

(B) Structure Drainage Ditch
Spacing Earthen
Page Ref. Manual 2:12

(2) Structure _____
Material _____
Page Ref. Manual OIL & GAS DIVISION

(C) Structure Cross Drains
Spacing 60'
Page Ref. Manual 2:4

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

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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.

REVEGETATION

Treatment Area I

Treatment Area II

Line _____ 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

Line 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 Vincent Wood

09/08/2023


ADDRESS 116 Post Avenue
Ripley, WV 25271


PHONE NO. 372-2709

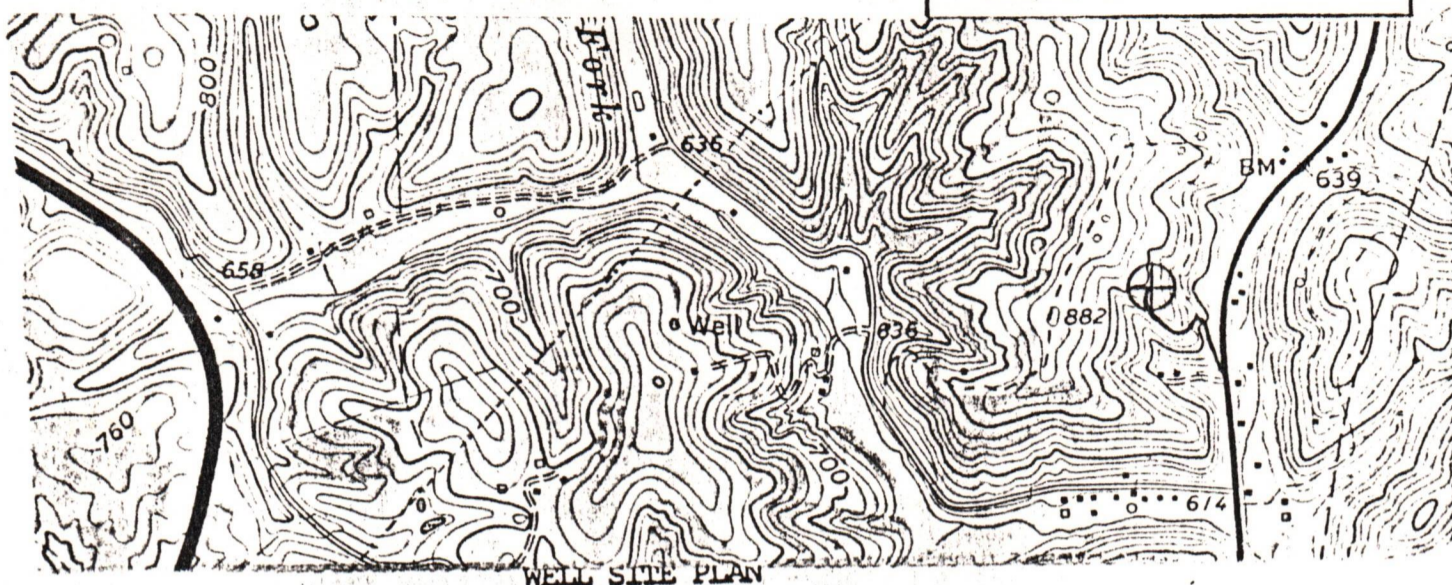
NOTES: Please contact landowner's cooperation to protect new seeding for one growing season. Attach separate sheets as necessary for comments.

ATTACH OR PHOTOCOPY SECTION OF INVOLVED TOPOGRAPHIC MAP. QUADRANGLE RIPLEY

LEGEND

Well Site 





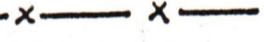

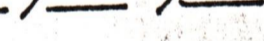



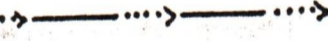

Access Road 

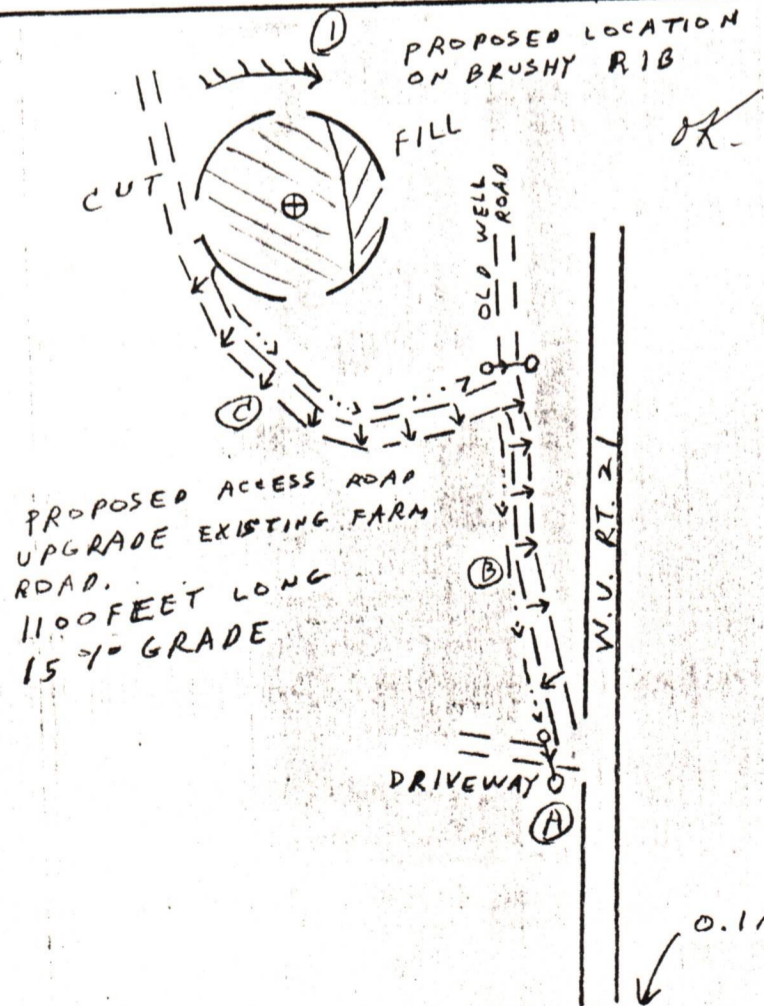


WELL SITE PLAN

Sketch to include well location, existing access road, roads to be constructed, well site, 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 



09/08/2023

0.1 MILE TO W.V. SEC. RT. 21/20

1) Date: February 3, 1984
2) Operator's Well No. KEM #503
3) API Well No. 47 - 035 - 1935
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

(i) Name Margaret L. Starcher, et al
Address P. O. Box 325
Ripley, WV 25271
(ii) Name _____
Address _____
(iii) Name _____
Address _____

5(i) COAL OPERATOR None
Address _____

5(ii) COAL OWNER(S) WITH DECLARATION ON RECORD:
Name None
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.

RECEIVED
MAR 2 - 1984
OIL & GAS DIVISION
DEPT. OF MINES

6) EXTRACTION RIGHTS

Check and provide one of the following:

- Included in 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

R. A. Pryce
this 1 day of March, 1984.
My commission expires 8/30, 1993.

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

WELL

OPERATOR Kaiser Exploration and Mining Company

By R. A. P.
Its General Manager
Address P. O. Box 8
Ravenswood, WV 26164
Telephone 304 273 5371

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>
Helen Starcher	Kaiser Exploration and Mining Company	1/8 of prevailing field price	147/189



1) Date: February 3, 1984
 2) Operator's Well No. KEM #503
 3) API Well No. 47 035
 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: 838' Watershed: Left Fork
 District: Ripley County: Jackson Quadrangle: Ripley
- 6) WELL OPERATOR Kaiser Exploration & Mining Co. 7) DESIGNATED AGENT R. A. Pryce
 Address P. O. Box 8 Address Same
Ravenswood, WV 26164
- 8) OIL & GAS INSPECTOR TO BE NOTIFIED 9) DRILLING CONTRACTOR:
 Name Jerry Tephahock Name Clint Hurt
 Address Rt. 1, Box 101A Address P. O. Box 388
Ripley, WV 25271 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, 4370 feet
 13) Approximate strata depths: Fresh, _____ feet; salt, _____ feet.
 14) Approximate coal seam depths: _____ Is coal being mined in the area? Yes No

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 DEPT. OF MINES

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>250</u>	<u>250</u>	<u>150 sks class A to surface</u>	
Coal								<u>65 sks 50/50</u>	Sizes <u>mix</u>
Intermediate	<u>7"</u>			<input checked="" type="checkbox"/>		<u>2288</u>	<u>2288</u>	<u>100 sks class A</u>	
Production	<u>4 1/2"</u>			<input checked="" type="checkbox"/>		<u>4370</u>	<u>4370</u>	<u>225 sks 50/50</u>	Depths <u>set</u>
Tubing									Perforations:
Liners									Top Bottom

The law requires a comment period for surface owners. However, the permit can be issued in less than 15 days from the filing of the Application if the surface owner(s) of record sign(s) the following "Voluntary Statement of No Objection" on a facsimile of this surface owner's copy of the Application.

VOLUNTARY STATEMENT OF NO OBJECTION

I hereby state that I have read the instructions to surface owners on the reverse side of this Application for a Well Work Permit, and that I have received copies of (1) a Notice of Application for a Well Work Permit on Form IV-2(A), (2) an Application for a Well Work Permit on Form IV-2(B), (3) a survey plat on Form IV-6, and (4) a Construction and Reclamation Plan on Form IV-9, all for proposed well work on my surface land as described therein. I further state that I have no objection to the planned work described in these materials, and I have no objection to a permit being issued based on those materials.

(For execution by corporation, partnership, etc.)

(For execution by natural persons)

NAME: _____
 By _____
 Its _____ Date _____

Margaret H. Starvick
 (Signature) Date: 2/27/84

 (Signature) Date: _____

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) Plat showing the well location on Form IV-6, and
- (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. K-503 located in Ravenswood District, Jackson County, West Virginia, upon the person or organization named--

Margaret L. Starcher

--by delivering the same in Jackson County, State of West Va. on the 27 day of Feb, 1984 in the manner specified below.

[COMPLETE THE APPROPRIATE SECTION]

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For an individual:

Handing it to him / her X / or, because he / she OIL & GAS DIVISION refused to take it when I offered it, by leaving it in his / her DEPT. OF MINES 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 _____.

Stephen W Kelly
(Signature of person executing service)

Taken, subscribed and sworn before me this 1st day of March, 1984.
My commission expires August 30, 1993.

Dorise Carney
Notary Public



IV-35
(Rev 8-81)

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APR 1 - 1985

OIL & GAS DIVISION
DEPT. OF MINES

State of West Virginia
Department of Mines
Oil and Gas Division

Date July 6, 1984
Operator's
Well No. KEM #503
Farm H. M. Starcher
API No. 47 - 035 - 1935

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 ___ /)

LOCATION: Elevation: 838' Watershed Left Fork
District: Ripley County Jackson Quadrangle Ripley

COMPANY KAISER EXPLORATION AND MINING COMPANY

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

DESIGNATED AGENT R. A. Pryce

ADDRESS Same

SURFACE OWNER Margaret L. Starcher

ADDRESS P. O. Box 325, Ripley, WV 25271

MINERAL RIGHTS OWNER Helen Starcher

ADDRESS

OIL AND GAS INSPECTOR FOR THIS WORK Jerry

Tephahock ADDRESS Rt. 1, Box 101-A

PERMIT ISSUED Ripley, WV 25271

DRILLING COMMENCED 5/11/84

DRILLING COMPLETED 5/17/84

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.			
10-3/4" 13-10"	249(KB)	249(KB)	175 sks class
9 5/8			
8 5/8			
7	2295(KB)	2295	175 sks 50, 50 pozmix, 100 sks
5 1/2			class a
4 1/2	4392(KB)	4392	240 sks 50, 50 pozmix
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Devonian Brown Shale Depth 4030 feet

Depth of completed well 4417 feet Rotary x / Cable Tools

Water strata depth: Fresh N/A feet; Salt N/A feet

Coal seam depths: N/A Is coal being mined in the area? NO

OPEN FLOW DATA

* Producing formation (Lower) Devonian Brown Shale Pay zone depth 4030 feet

Gas: Initial open flow 0 Mcf/d Oil: Initial open flow 0 Bbl/d

Final open flow 275 Mcf/d Final open flow 0 Bbl/d

Time of open flow between initial and final tests 5 hours

Static rock pressure 1050 psig (surface measurement) after 48 hours shut in
(If applicable due to multiple completion--)

Second producing formation Devonian Grey Shale Pay zone depth 3211 feet

Gas: Initial open flow 0 Mcf/d Oil: Initial open flow 0 Bbl/d

Final open flow 275 Mcf/d Oil: Final open flow 0 Bbl/d

Time of open flow between initial and final tests 5 hours

Static rock pressure 1050 psig (surface measurement) after 48 hours shut in

*Comingled pay zones

(Continue on reverse side)

09/08/2023

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

- 5/21/84: NL MCCULLOUGH WIRELINE: perf lower Brown Shale - 4030'/4293', .39" dia, 19 holes
- 5/22/84 NOWSCO & BJ HUGHES: foam frac, breakdown pressure: 2300 psig; breakdown fluid: foam; maximum pressure: 2990 psig; treating pressure: 2850 psig; total N₂: 675 mscf; total sand: 60,000# of 20/40; total fluid: 266 bbl; ISIP: 1600 psig; 5-min SIP: 1400 psig
- 5/22/84 NL MCCULLOUGH WIRELINE: perf Grey Shale; 19 holes, .39" dia; 3211'/3286'
- 5/22/84 BJ HUGHES to nitrogen frac Grey Shale; breakdown pressure: 3610 psig; maximum pressure: 3000 psig; treating pressure: 2540 psig; total N₂: 1432 mscf; ISIP: 1360 psig; 5-min SIP: 1300 psig.
- 9/26/84 Young's Wireline: perf Berea; 24 holes, .39" dia; from 2536' to 2544'.
- 9/27/84 NOWSCO X-link frac; Berea; breakdown press.: 3500 psig; max. treating press.: 2200 psig; treating press.: 1850 psig; total N₂: 203 mscf; 60,000 lbs 20/40 sand; total sand laden fluid: 446 bbl; total fluid: 733 bbl; ISIP: 1800 psig; 5 min SIP: 1600 psig

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	30	
SAND			30	50	
SILTSTONE			50	100	
SHALE			100	318	
SAND			318	332	
SHALE			332	390	
SAND			390	470	
SILTSTONE			470	670	
SAND			670	704	
SILTSTONE and SAND			704	1449	
DUNKARD SAND			1449	1501	
SILTSTONE and SHALE			1501	1788	
SALT SANDS			1788	1962	
BIG LIME (GREENBRIER)			1962	2042	
SHALE			2042	2076	
BIG INJUN SAND			2076	2178	
SHALE			2178	2510	
COFFEE SHALE			2510	2533	
BEREA SAND			2533	2542	S/G
SHALE			2542	3760	S/G @ 3274
BROWN SHALE			3760	4306	S/G @ 3900, 4065
SHALE			4306	4417	
TOTAL DEPTH			4417		

(Attach separate sheets as necessary)

KAISER EXPLORATION AND MINING COMPANY
Well Operator

By: R.A.P. 09/08/2023
Date: _____

Note: Regulation 2.02(i) provides as follows:
"The term 'log' or 'well log' shall mean a systematic detailed geologic record of all formations, including the drilling of a well."

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

INSPECTOR'S WELL REPORT

Permit No. 035 1935

Oil or Gas Well _____
(KIND)

Company Kaiser Exploration
 Address _____
 Farm Starbher
 Well No. Kem 503
 District _____ County Jackson
 Drilling commenced 5b 11 84
 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			Kind of Packer
16			
13			
10			Size of
8 3/4			
6 3/4			Depth set
5 3/16			
3			Perf. top
2			Perf. bottom
Liners Used			Perf. top
			Perf. bottom

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 OIL & GAS DIVISION
 DEPT. OF MINES

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 Junior Archer Hurt Rig # 4

Remarks:
 5 11 84. Spud Date
 5 11 84 Ran 6 jts 10 3/4 Total 238.85 set 248.85 KB NOSCOE Cement 150 sacs class a neat.

5 11 84

Junior Archer Hurt
 09/08/2023

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

RECEIVED

MAY 23 1984

INSPECTOR'S WELL REPORT

OIL & GAS DIVISION

Permit No. 035 1935

DEPT. OF MINES
(KIND)

Company <u>Kaiser Exploration</u>	CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
Address _____	Size			
Farm <u>Starcher</u>	16			Kind of Packer _____
Well No. <u>Kem 503</u>	13			
District _____ County <u>Jackson</u>	10			Size of _____
Drilling commenced _____	8 1/4			
Drilling completed _____ Total depth _____	6 5/8			Depth set _____
Date shot _____ Depth of shot _____	5 3/16			
Initial open flow _____ /10ths Water in _____ Inch	3			Perf. top _____
Open flow after tubing _____ /10ths Merc. in _____ Inch	2			Perf. bottom _____
Volume _____ Cu. Ft.	Liners Used			Perf. top _____
Rock pressure _____ lbs. _____ hrs.				Perf. bottom _____
Oil _____ bbls., 1st 24 hrs.	CASING CEMENTED _____ SIZE _____ No. FT. _____ Date _____			
Fresh water _____ feet _____ feet	NAME OF SERVICE COMPANY _____			
Salt water _____ feet _____ feet	COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES			
	_____ FEET _____ INCHES _____ FEET _____ INCHES			
	_____ FEET _____ INCHES _____ FEET _____ INCHES			

Drillers' Names _____

Remarks: _____

5 14 84 Ran 55 jts set 2295 KB 7" 175 sacs 50/50 poz 10% salt 1/4 lb per sac celefflake plus 100 sacs class A neat. Plug down 6:00 Pm.

5 14 84 DATE

[Signature] 09/08/2023

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

RECEIVED
MAY 23 1984

INSPECTOR'S WELL REPORT

OIL & GAS DIVISION
DEPT. OF MINES

Permit No. 035 1935

Oil or Gas Well _____
(KIND)

Company <u>Kaiser Exploration</u>	CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
Address _____	Size			Kind of Packer _____
Farm <u>Starcher</u>	16			Size of _____
Well No. <u>Kem 503</u>	13			Depth set _____
District _____ County <u>Jackson</u>	10			Perf. top _____
Drilling commenced _____	8 1/4			Perf. bottom _____
Drilling completed _____ Total depth _____	6 3/4			Perf. top _____
Date shot _____ Depth of shot _____	5 3/16			Perf. bottom _____
Initial open flow _____ /10ths Water in _____ Inch	3			Liners Used _____
Open flow after tubing _____ /10ths Merc. in _____ Inch	2			
Volume _____ Cu. Ft.	CASING CEMENTED _____ SIZE _____ No. FT. _____ Date _____			
Rock pressure _____ lbs. _____ hrs.	NAME OF SERVICE COMPANY _____			
Oil _____ bbls., 1st 24 hrs.	COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES			
Fresh water _____ feet _____ feet	_____ FEET _____ INCHES _____ FEET _____ INCHES			
Salt water _____ feet _____ feet	_____ FEET _____ INCHES _____ FEET _____ INCHES			

Drillers' Names _____

Remarks:

Ran 120 jts 4 1/2 csg 4382 set 4392 KB NOSCOE Cement 250 sacs of 50/50 poz with 10% salt and 12 1/2 lb per sac gibsonite per sac plug down 12:40 PM.

5 17 84
DATE

[Signature] 09/08/2023



RECEIVED
SEP 1 1 1984

OIL & GAS DIVISION
DEPT. OF MINES

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

FINAL INSPECTION REPORT
INSPECTORS COMPLIANCE REPORT

COMPANY Kaiser Exploration
P. O. Box 8
Ravenswood, WV 26164

PERMIT NO 035 1935
FARM & WELL NO Starcher Kem 503
DIST. & COUNTY Jackson

RULE	DESCRIPTION	IN COMPLIANCE	
		YES	NO
23.06	Notification Prior to Starting Work	_____	_____
25.04	Prepared before Drilling to Prevent Waste	_____	_____
25.03	High-Pressure Drilling	_____	_____
16.01	Required Permits at Wellsite	_____	_____
15.03	Adequate Fresh Water Casing	_____	_____
15.02	Adequate Coal Casing	_____	_____
15.01	Adequate Production Casing	_____	_____
15.04	Adequate Cement Strenght	_____	_____
15.05	Cement Type	_____	_____
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 *Jeffrey R. Tepheloh*
DATE 9 5 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

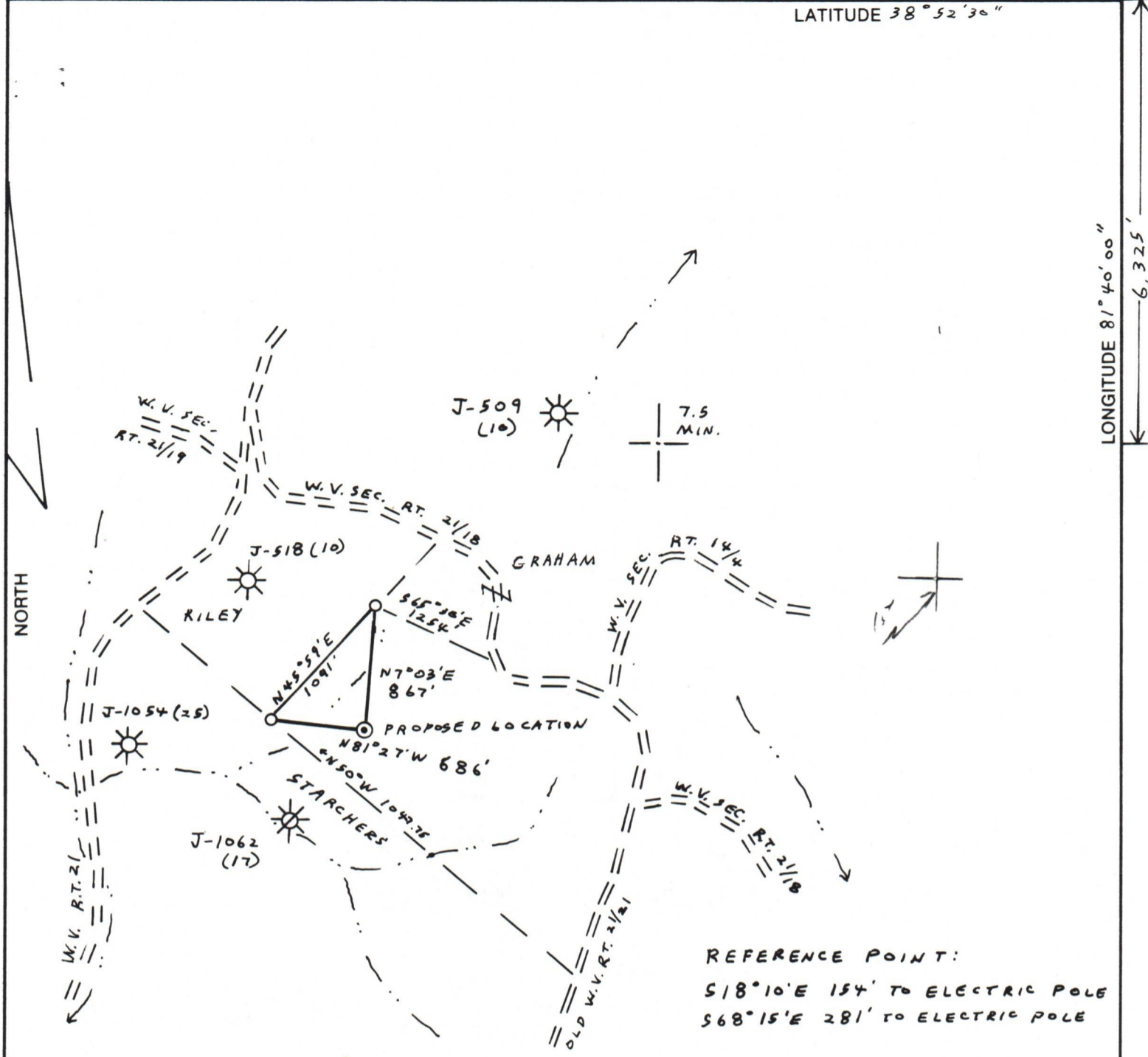
January 30, 1985

DATE

6,525'

LATITUDE 38° 52' 30"

LONGITUDE 81° 40' 00"



REFERENCE POINT:
 S18°10'E 154' TO ELECTRIC POLE
 S68°15'E 281' TO ELECTRIC POLE

56E8

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

FILE NO. 7-7
 DRAWING NO. _____
 SCALE 1" = 1,000'
 MINIMUM DEGREE OF ACCURACY 1:200
 PROVEN SOURCE OF ELEVATION ROAD INTER. ELEV. 965, 1700' N.E. OF 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) Vincent W. Wood
 R.P.E. _____ L.L.S. 664

PLACE SEAL HERE

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION



DATE JANUARY 10, 1984
 OPERATOR'S WELL NO. KEM 503
 API WELL NO. _____

WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___
 (IF "GAS,") PRODUCTION X STORAGE ___ DEEP ___ SHALLOW X
 LOCATION: ELEVATION 838' WATERSHED LEFT FORK
 DISTRICT RIPLEY COUNTY JACKSON
 QUADRANGLE RIPLEY

SURFACE OWNER MARGARET L. STARCHER, ET AL. ACREAGE 80
 OIL & GAS ROYALTY OWNER HELEN STARCHER, ET AL. LEASE ACREAGE 40A, P/O 80A LEASE NO. 88-01-129

PROPOSED WORK: DRILL X CONVERT ___ DRILL DEEPER ___ REDRILL ___ FRACTURE OR STIMULATE X PLUG OFF OLD FORMATION ___ PERFORATE NEW FORMATION ___ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____

PLUG AND ABANDON ___ CLEAN OUT AND REPLUG ___
 TARGET FORMATION DEVONIAN BROWN SHALE ESTIMATED DEPTH 4370'
 WELL OPERATOR KAISER EXPLORATION AND MINING CO. DESIGNATED AGENT KAISER EXPLOR. AND MINING CO.
 ADDRESS P.O. BOX 8, RAVENSWOOD, W.V. 26164 ADDRESS P.O. BOX 8, RAVENSWOOD, W.V. 26164

JACKSON COUNTY NAME
 1725 PERMIT

09/08/2023

FORM IV-6 (8-78) H.T. HALL