



1) Date: June 6, 19 83
 2) Operator's Well No. KEM # 335
 3) API Well No. 47 035 1863
 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: _____ Watershed: Sycamore Creek
 District: Ripley County: Jackson Quadrangle: Ripley
- 6) WELL OPERATOR Kaiser Exploration and Mining Co. (I) DESIGNATED AGENT R. A. Pryce
 Address P. O. Box 8 Address Same
Ravenswood, WV 26164
- 7) OIL & GAS ROYALTY OWNER John Landfried et al
 Address Box 700
Ripley, WV
 Acreage 142
- 8) SURFACE OWNER Same
 Address _____
 Acreage _____
- 9) FIELD SALE (IF MADE) TO:
 Address _____
- 10) OIL & GAS INSPECTOR TO BE NOTIFIED
 Name Homer Dougherty
 Address Linden Rt., Box 3A
Looneyville, WV
- 11) COAL OPERATOR None
 Address _____
- 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, 4835 feet
- 18) Approximate water strata depths: Fresh, _____ feet; salt, _____ feet.
- 19) Approximate coal seam depths: _____ Is coal being mined in the area? Yes / No

RECEIVED
 JUN - 8 1983
 OIL & GAS DIVISION
 DEPT. OF MINES

20) CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	Size	SPECIFICATIONS				FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS
		Grade	Weight per ft.	New	Used	For drilling	Left in well		
Conductor									
Fresh water	10 3/4"			X		250	250	150 sks class A	Kinds A to surface
Coal				X				65 sks 50/50	Sizes pozmix
Intermediate	7"			X		2180	2180	100 sks class A	pozmix
Production	4 1/2"			X		4835	4835	224 sks 50/50	pozmix
Tubing									
Liners									

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: R. A. Pryce
 Its: General Manager

OFFICE USE ONLY

Permit number 47-035-1863 DRILLING PERMIT Date 7/21 19 83
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.

Boord: <u>B</u>	Agent: <u>lo</u>	Plat: <u>[Signature]</u>	Casing: <u>[Signature]</u>	Fee: <u>463</u> <u>935</u>
-----------------	------------------	--------------------------	----------------------------	-------------------------------

[Signature]
 Administrator, Office of Oil and Gas



KAISER EXPLORATION AND MINING COMPANY

LEASE SUMMARY

KEM # 335, 413, & 426

Tract Discription

County: Jackson

District: Ripley

Acres: 142

Bounded By: North - Easter

East - Staats

South - Staats

West - Jenkins & O'dell

Lease Parties

Lessor(s): John W. Landfried & Jo Anne Landfried

Lessee: Kaiser Exploration and Mining Company

Recording Information

Book and Page: 172/263

Royalty Provision

1/8 of prevailing field price

09/08/2023



IV-9
(Rev 8-81)

DATE June 1, 1983

WELL NO. KEM 335

State of West Virginia API NO. 47-035-1863

Department of Mines
Oil and Gas Division

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 John W. Landfried SOIL CONS. DISTRICT Western

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

This plan has been reviewed by Western 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)

Structure Diversion Ditch (1)

Spacing 80'

Material Earthen

Page Ref. Manual 2:4

Page Ref. Manual 2:12

Structure Road Culvert (B)

Structure _____ (2)

Spacing 12" diameter

Material _____

Page Ref. Manual 2:7

Page Ref. Manual _____

Structure Rip Rap (C)

Structure _____ (3)

Spacing Log

Material _____

Page Ref. Manual _____

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.

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REVEGETATION

Treatment Area I

Treatment Area VI & GAS DIVISION

Lime 4 Tons/acre
or correct to pH _____

Lime Same as Area I Tons/acre
or correct to pH _____

Fertilizer 14-14-14 600 lbs/acre
(10-20-20 or equivalent)

Fertilizer _____ lbs/acre
(10-20-20 or equivalent)

Mulch Hay 2 Tons/acre

Mulch _____ Tons/acre

Seed* 81% Orchard Grass/15% Ryegrass 16 lbs/acre

Seed* _____ lbs/acre

Kentucky 31 Fescue 16 lbs/acre

_____ lbs/acre

Red Clover 8 lbs/acre

_____ lbs/acre

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

09/08/2023

PLAN PREPARED BY William Ambrose

ADDRESS Rt. 2, Box 51A


Walker, WV 26180


PHONE NO. 679-3970

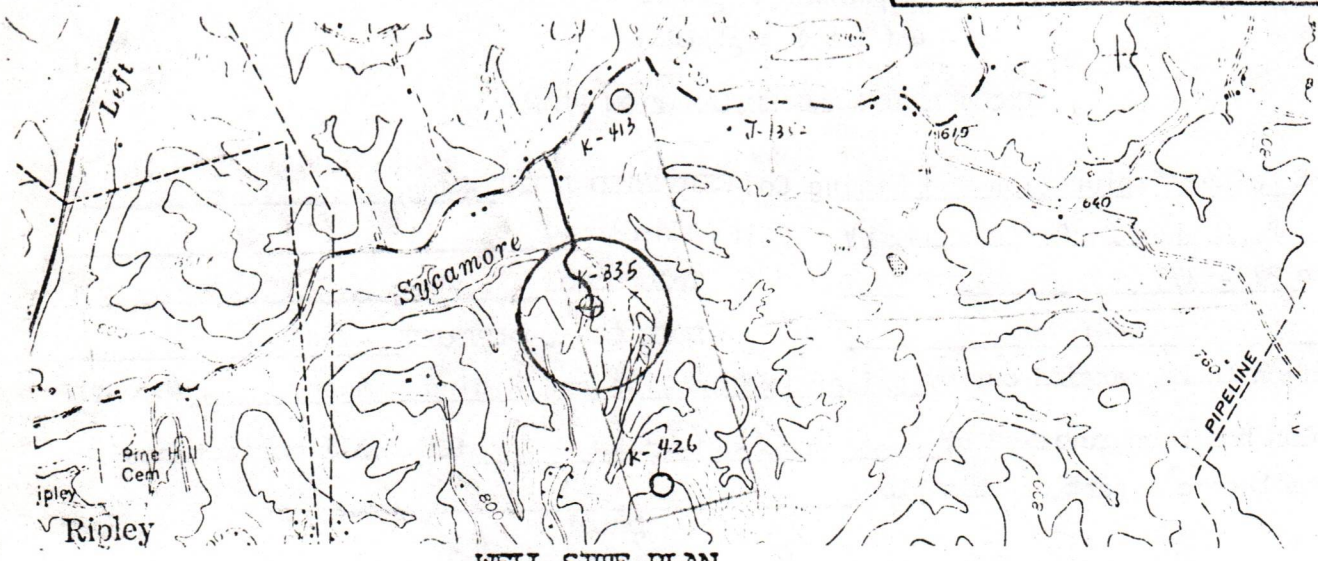
NOTES: Please request landowner's cooperation to protect new seedling for one growing season. Attach separate sheets as necessary for comments.

ATTACH OR PHOTOCOPY SECTION OF INVOLVED TOPOGRAPHIC MAP. QUADRANGLE RIPLEY

LEGEND

Well Site 


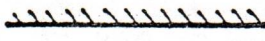


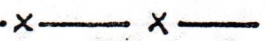





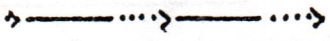
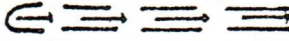
Access Road 



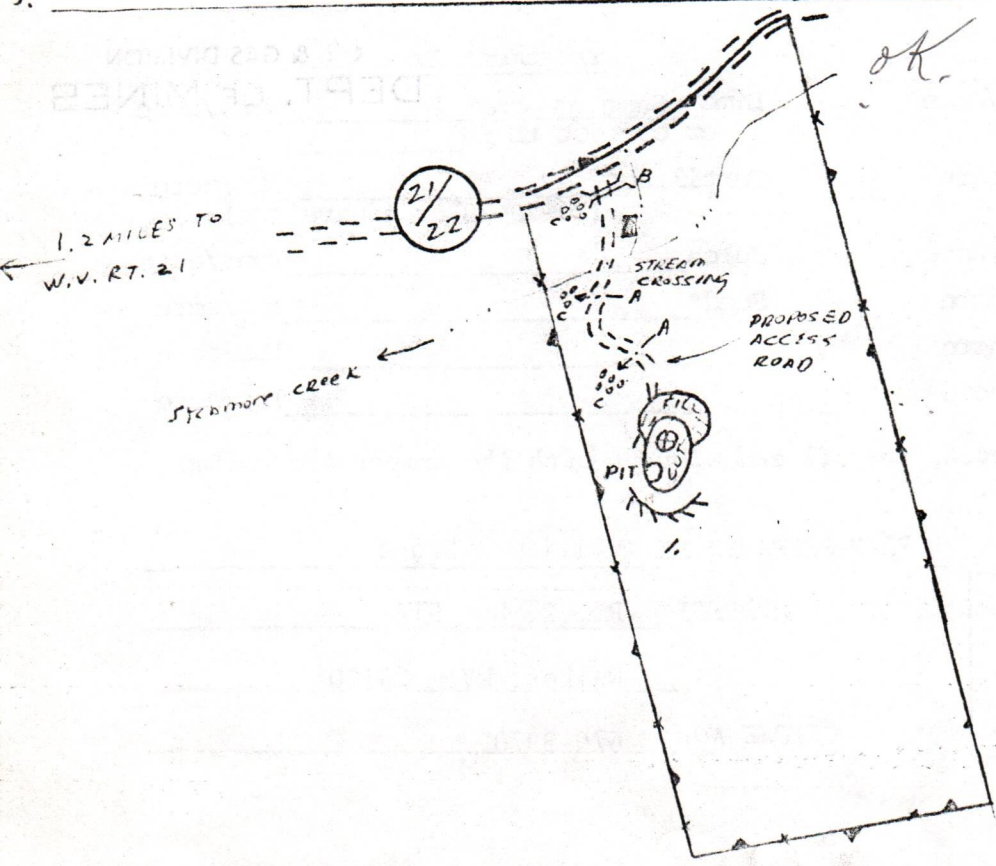
WELL SITE PLAN

Sketch to include well location, existing access road, roads to be constructed, 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. AVERAGE SLOPE FOR ACCESS ROAD = 8%
2. STREAM BED WILL BE BUILT UP WITH BRICK AT CROSSING
3. ENTRANCE TO ACCESS ROAD WILL BE STONED
4. WELL LOCATION IN SPARSELY WOODED AREA
- 5.



09/08/2023



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MAY 3 - 1984

OIL & GAS DIVISION
DEPT. OF MINES

State of West Virginia
Department of Mines
Oil and Gas Division

Date 3-21-84
Operator's
Well No. KEM #335
Farm Landfried
API No. 47-035-1863

**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: 705' Watershed Sycamore Creek
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 John Landfried, et al

ADDRESS Box 700, Ripley, WV 25271

MINERAL RIGHTS OWNER Same

ADDRESS Same

OIL AND GAS INSPECTOR FOR THIS WORK Jerry

Tephabock ADDRESS Rt. 1, Box 101A, Ripley, WV 25271

PERMIT ISSUED

DRILLING COMMENCED 10-27-83

DRILLING COMPLETED 11-2-83

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.			
13 10" 3/4		254	150 sks class A, 1/4# flocc
9 5/8			
8 5/8			
7		2147	100 sks 50/50 mix, 10% salt, 3% Cac
5 1/2			
4 1/2		4171	200 sks 50/50 mix, 10% salt, 12 1/2# flocc, 1 1/2# sk Gilsonite
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Devonian Brown Shale Depth 3950 feet

Depth of completed well 4240 feet Rotary X / Cable Tools

Water strata depth: Fresh N/A feet; Salt N/A feet Drilled on Fluid

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

OPEN FLOW DATA

Producing formation Brown Shale Pay zone depth 3752-4148 feet

Gas: Initial open flow N/A Mcf/d Oil: Initial open flow Bbl/d

Final open flow 750 Mcf/d Final open flow Bbl/d

COMBINED ZONES Time of open flow between initial and final tests hours

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

Second producing formation Berea Pay zone depth 2366-4148 feet

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

Final open flow 750 Mcf/d Oil: Final open flow Bbl/d

COMBINED ZONES Time of open flow between initial and final tests 4 hours

Static rock pressure 1075 psig (surface measurement) after 48 hours shut in

(Continue on reverse side)

(REVERSE)

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

11-9-83: Perforated the Lower Brown Shale with 20 holes (.39") from 3752-4148'.

11-11-83: Foam Frac Shale: Broke down formation with acid and water. Breakdown 2150 PSI. 200 bbl pad, 75% quality foam, treating pressure was 2200-2450; 60,000# 20/40 sand at 4-10 ppg. Total fluid was 282 bbls, total nitrogen was 630 MSCF. ISIP: 1900 PSIG 5 min SIP: 1190 psig.

Perf Berea: perforated with 24 holes (.39" diameter) from 2366'-2372' and added 500 gal acid to hole.

Foam Frac Berea: Breakdown with foam and acid at 2200 psig. Treated with 75% quality foam at 2200-2500 psig; 60,000#, 20/40 sand, 4-10 ppg. Total fluid was 249 bbls, total nitrogen was 470 MCF. ISIP: 1780 PSIG; 5, min SIP: 1610 PSIG. Flow back was through 2" x 1/2" Bull Plug.

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	70	
Shale and Siltstone			70	203	
Sand			203	260	
Shale			260	292	
Sand			202	337	
Shale			337	500	
Sand			500	535	
Shale			535	618	
Sand			618	685	
Shale and Siltstone			685	943	
Shale and Sand			943	1480	
Shale			1480	1649	
Salt Sands			1649	1710	
Shale			1710	1763	
Big Lime (Greenbrier)			1763	1840	
Shale			1840	1930	
Big Injun Sand			1930	2010	
Shale			2010	2345	
Coffee Shale (Sunbury)			2345	2368	
Berea Sand			2368	2376	
Shale			2376	3601	
Brown Shale			3601	4150	S/G @3781, 4020
Shale			4150	4250	
Total Depth			4250		

(Attach separate sheets as necessary)

KAISER EXPLORATION AND MINING COMPANY

Well Operator

By: RA R

09/08/2023

Date: March 21, 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

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NOV 9 - 1983

INSPECTOR'S WELL REPORT OIL & GAS DIVISION

DEPT. OF MINES

Oil or Gas Well _____
(KIND)

Permit No. 035-1863

Company Kaiser Exploration
 Address _____
 Farm Kem 335
 Well No. _____
 District _____ County SACKIN
 Drilling commenced _____
 Drilling completed 11283 Total depth 4240
 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: 11283 TO 4240' Ran 4 1/2" = 4181' Kb 200 SAs 50/50 p02
10% salt 12 1/2 lb Silicate 4 lb fls edge by Halliburton,

DATE

09/08/2023
DISTRICT WELL INSPECTOR

Form 26
2/16/82

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

INSPECTOR'S PLUGGING REPORT

Permit No. _____ Well No. _____

COMPANY _____ ADDRESS _____

FARM _____ DISTRICT _____ COUNTY _____

Filling Material Used _____

Liner			Location	Amount	Packer	Location		
PLUGS USED AND DEPTH PLACED			BRIDGES			CASING AND TUBING		
CEMENT-THICKNESS	WOOD-SIZE	LEAD	CONSTRUCTION-LOCATION			RECOVERED	SIZE	LOST

Drillers' Names _____

Remarks: _____

_____ I hereby certify I visited the above well on this date.

DATE

09/08/2023
DISTRICT WELL INSPECTOR

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

RECEIVED
NOV 9 - 1983

INSPECTOR'S WELL REPORT

OIL & GAS DIVISION
DEPT. OF MINES
Oil or Gas Well _____
(KIND)

Permit No. 035 1863

Company <u>Kaiser Exploration</u>	CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
Address _____	Size			
Farm <u>Lawford</u>	16			Kind of Packer _____
Well No. <u>735 Kern</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 Sheets Hunt #2

Remarks: 10 28 83 RAN 69TS 10 3/4" casing for 254' set at 264 kb Commit Hallabuh
1005Ks Reg next 3 3/4" 1/4" plug down 6:15 AM 12 28 83.
10 31 83 TO 9 5/8" Hole RAN 67 TS 7" CSG. 2146' Set at 2156 kb,
Commit Hallabuh 1005Ks 50/52/poz 1025415 + 1005Ks Reg next 3 3/4"
+ 1/4" plug down 11:45 AM 10 31 83

10 31 83
DATE

Jerry Tapscott 09/08/2023
DISTRICT WELL INSPECTOR

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DEPT. OF MINES
DIVISION OF MINING

09/08/2023



RECEIVED

JUL 25 1984

State of West Virginia

**Department of Mines
 Oil and Gas Division
 Charleston 25305**

**OIL & GAS DIVISION
 DEPT. OF MINES**

**FINAL INSPECTION REPORT
 INSPECTORS COMPLIANCE REPORT
 April 2, 1984**

COMPANY Kaiser Exploration & Mining Co.

PERMIT NO 035-1863 6/83

P. O. Box 8

FARM & WELL NO Landfried, KEM-335

Ravenswood, West Virginia 26164

DIST. & COUNTY Ripley/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 Strength	_____	_____
15.05	Cement Type	_____	_____
23.02	Maintained Access Roads	_____ ✓	_____
25.01	Necessary Equipment to Prevent Waste	_____ ✓	_____
23.04	Reclaimed Drilling Pits	_____ ✓	_____
23.05	No Surface or Underground Pollution	_____ ✓	_____
23.07	Requirements for Production & Gathering Pipelines	_____ ✓	_____
16.01	Well Records on Site	_____	_____
16.02	Well Records Filed	_____	_____
7.05	Identification Markings	_____ ✓	_____

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

SIGNED *James R. Tophal*
 DATE 7/27/84

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

July 27, 1984

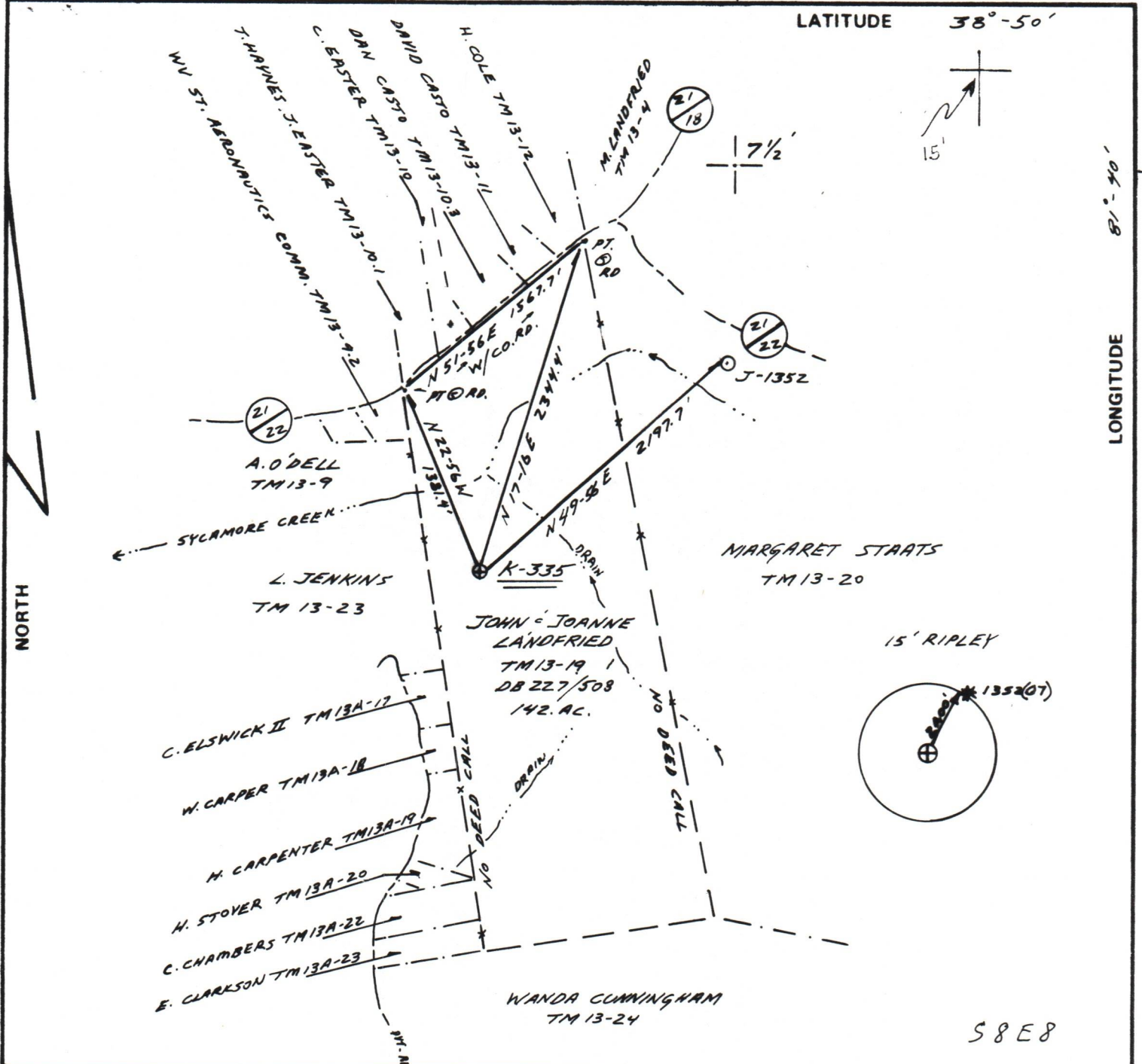
DATE

7-18-83

5490'

LATITUDE 38°-50'

LONGITUDE 81°-40'



FILE NO. 83-27
 DRAWING NO. _____
 SCALE 1" = 1000'
 MINIMUM DEGREE OF ACCURACY 1:200
 PROVEN SOURCE OF ELEVATION 619' @ ROAD INTERSECTION

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)
 WELL TYPE: OIL GAS LIQUID INJECTION _____ WASTE DISPOSAL _____
 (IF "GAS,") PRODUCTION STORAGE _____ DEEP _____ SHALLOW
 LOCATION: ELEVATION 705' WATER SHED SYCAMORE CREEK
 DISTRICT RIPLEY COUNTY JACKSON
 QUADRANGLE RIPLEY
 SURFACE OWNER JOHN LANDRIED et ux ACREAGE 142
 OIL & GAS ROYALTY OWNER JOHN LANDRIED et al LEASE ACREAGE 142
 LEASE NO. 85-06-1574
 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 4835'
 WELL OPERATOR KAISER EXPLORATION DESIGNATED AGENT SAME
 ADDRESS P.O. BOX 8 & MINING CO. ADDRESS _____
RAVENSWOOD, WV 26164

STATE OF WEST VIRGINIA DEPARTMENT OF MINES OIL AND GAS DIVISION

DATE 3 JUNE, 19 83
 OPERATOR'S WELL NO. K-335
 API WELL NO. _____
47 - 035 - 1863
 STATE COUNTY PERMIT

09/08/2023



JACK-1763