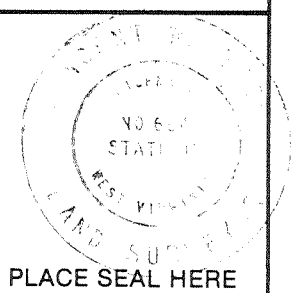


REFERENCE POINTS:
 S58°29'E 139' TO POWER POLE # R9-320
 N15°01'E 119' TO 12" HICKORY

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

FILE NO. REV. 2
 DRAWING NO. 5-19
 SCALE 1" = 500'
 MINIMUM DEGREE OF ACCURACY 1:200
 PROVEN SOURCE OF ELEVATION ROAD INTERSECTION
840' WEST OF LOCATION, ELEV = 634

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



STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION

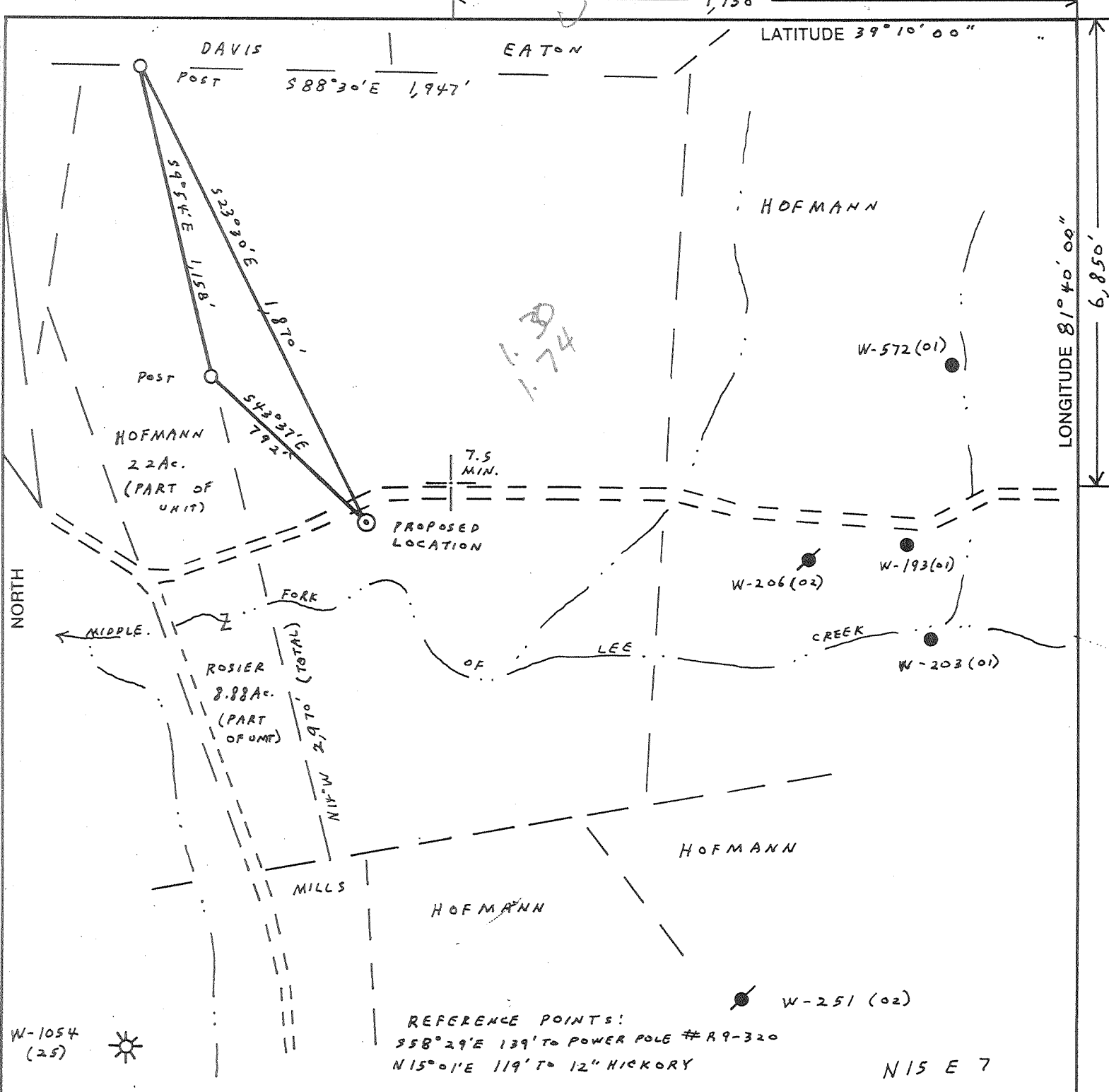


DATE APRIL 24, 19 84
 OPERATOR'S WELL NO. KEM 267 REV.
 API WELL NO.

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
 (IF "GAS,") PRODUCTION STORAGE DEEP SHALLOW Fracture
 LOCATION: ELEVATION 649 WATERSHED MIDDLE FORK OF LEE CREEK
 DISTRICT HARRIS COUNTY WOOD
 QUADRANGLE LUBECK
 SURFACE OWNER DAVID D. STEELE ACREAGE 100
 OIL & GAS ROYALTY OWNER CECIL EATON, ET. AL. LEASE ACREAGE 285
 LEASE NO. 90-04-873
 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 ORISKANY ESTIMATED DEPTH _____
 WELL OPERATOR Poske Energy Inc DESIGNATED AGENT Tom Liberatore CO. _____
 ADDRESS P.O. Box 8 Ravenswood, WV 26164 ADDRESS P.O. Box _____

COUNTY NAME WOOD
 PERMIT 1231 REV.

4-13-01



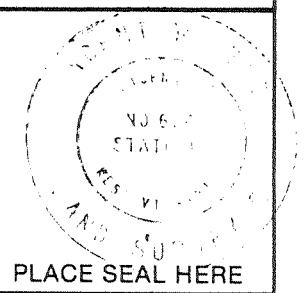
REFERENCE POINTS:
 S58°29'E 139' TO POWER POLE # R9-320
 N15°01'E 119' TO 12" HICKORY

N15 E 7

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

FILE NO. REV. 2
 DRAWING NO. 5-19
 SCALE 1" = 500'
 MINIMUM DEGREE OF ACCURACY 1:200
 PROVEN SOURCE OF ELEVATION ROAD INTERSECTION
840' WEST OF LOCATION, ELEV. = 634

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



STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
OIL AND GAS DIVISION



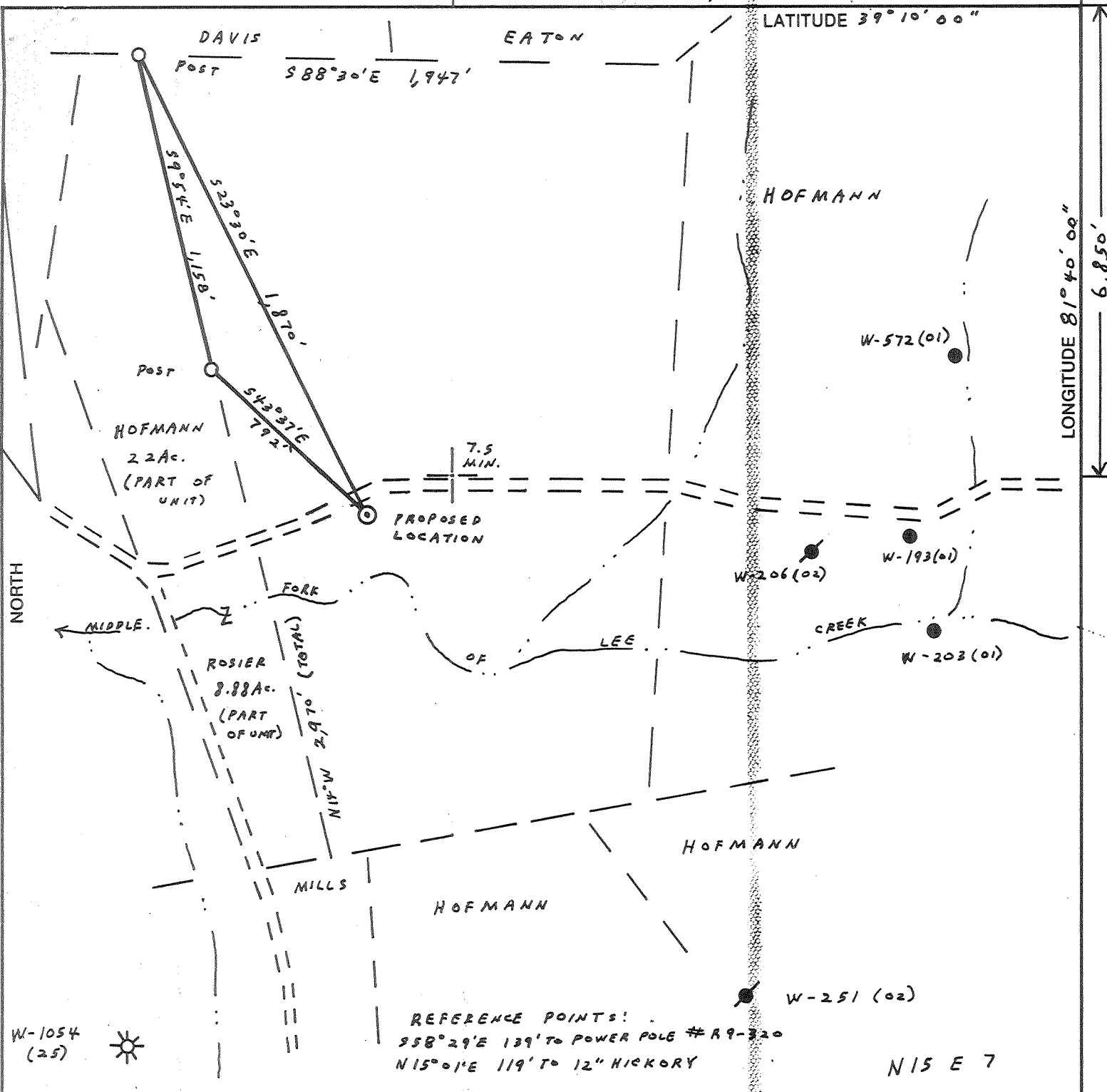
DATE APRIL 24, 19 84
 OPERATOR'S WELL NO. KEM 267 REV.
 API WELL NO. _____

WELL TYPE: OIL ___ GAS ___ LIQUID INJECTION ___ WASTE DISPOSAL ___
 (IF "GAS,") PRODUCTION ___ STORAGE ___ DEEP ___ SHALLOW ___
 LOCATION: ELEVATION 649 WATERSHED MIDDLE FORK OF LEE CREEK
 DISTRICT HARRIS COUNTY WOOD
 QUADRANGLE LUBECK
 SURFACE OWNER DAVID D. STEELE ACREAGE 100
 OIL & GAS ROYALTY OWNER CECIL EATON, ET. AL. LEASE ACREAGE 285
 LEASE NO. 90-04-873
 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 ORISKANY ESTIMATED DEPTH _____
 WELL OPERATOR Paashe Energy Inc DESIGNATED AGENT Tom Liberatore
 ADDRESS P.O. Box 8 Ravenswood, WV 26164 ADDRESS P.O. Box _____
 COUNTY NAME WOOD PERMIT 1231 Frac

MAY 26 2000

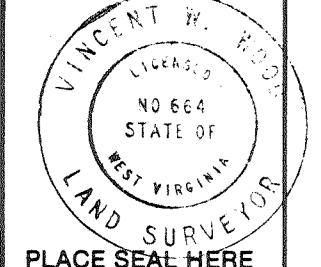
CO. 4



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

FILE NO. REV. 2
 DRAWING NO. 5-19
 SCALE 1" = 500'
 MINIMUM DEGREE OF ACCURACY 1:200
 PROVEN SOURCE OF ELEVATION ROAD INTERSECTION 845' WEST OF LOCATION, ELEV. 684

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



STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION

DATE APRIL 24, 19 84
 OPERATOR'S WELL NO. KEM 267 REV.
 API WELL NO. 47-107-1231-REV. Frac

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
 (IF "GAS,") PRODUCTION STORAGE DEEP SHALLOW Fracture Cancelled

LOCATION: ELEVATION 649 WATERSHED MIDDLE FORK OF LEE CREEK
 DISTRICT HARRIS COUNTY WOOD
 QUADRANGLE LUBECK

SURFACE OWNER DAVID D. STEELE ACREAGE 100
 OIL & GAS ROYALTY OWNER CECIL EATON, ET. AL. LEASE ACREAGE 285
 LEASE NO. 90-04-873

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

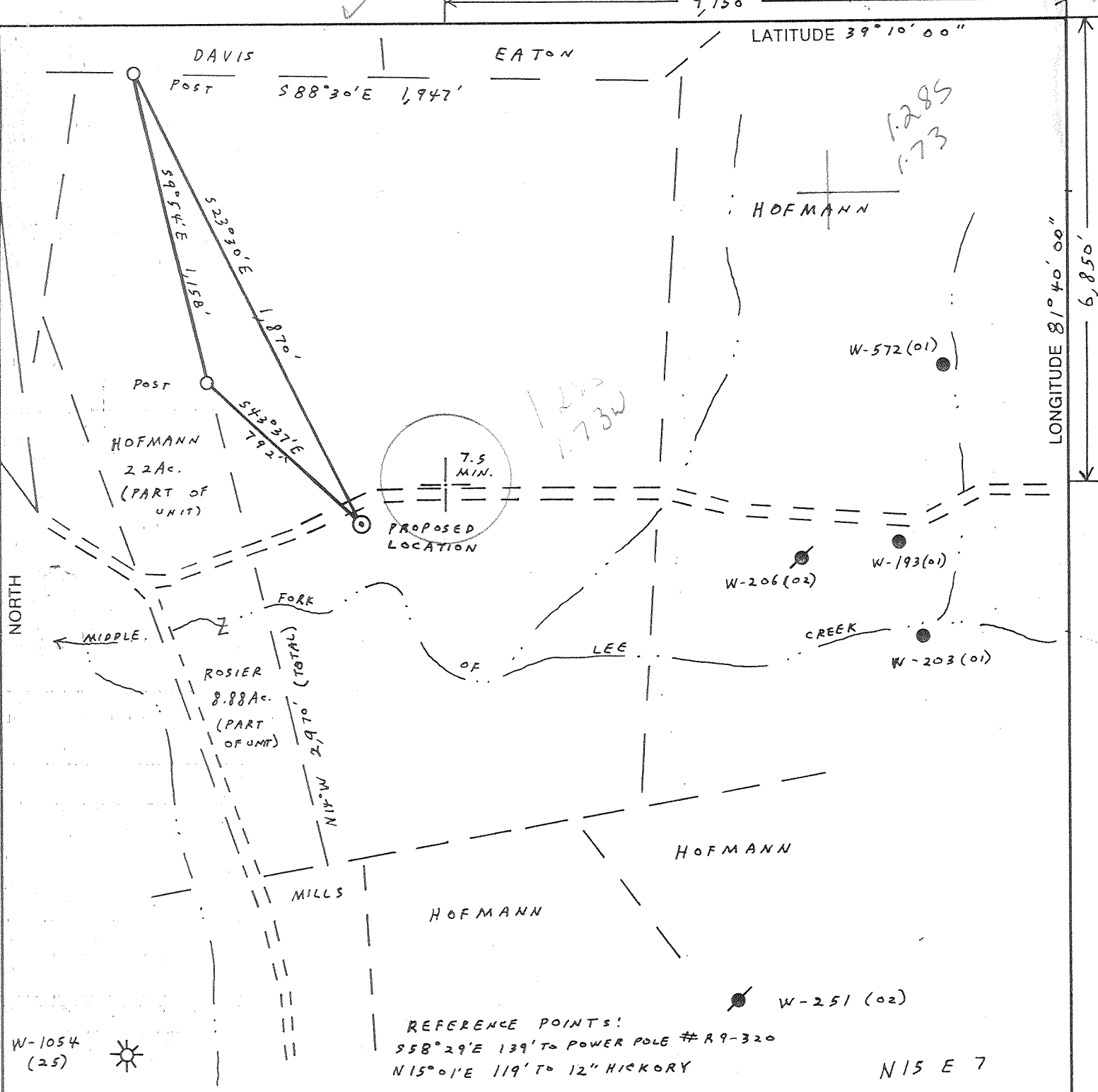
PLUG AND ABANDON CLEAN OUT AND REPLUG

TARGET FORMATION ORISKANY ESTIMATED DEPTH _____

WELL OPERATOR KAISER EXPLORATION & MINING CO. DESIGNATED AGENT KAISER EXPLOR. & MINING CO.
 ADDRESS P.O. BOX 8, RAVENSWOOD, W.V. 26164 ADDRESS P.O. BOX 8, RAVENSWOOD, W.V. 26164

COUNTY NAME WOOD
 PERMIT 1231 Rev - Frac.

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

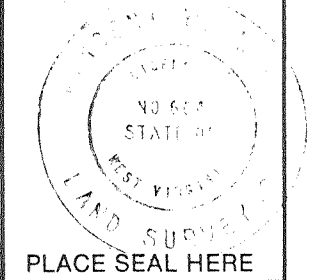


REFERENCE POINTS:
 S58°29'E 139' TO POWER POLE # R9-320
 N15°01'E 119' TO 12" HICKORY

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

FILE NO. REV. 2
 DRAWING NO. 5-19
 SCALE 1" = 500'
 MINIMUM DEGREE OF ACCURACY 1:200
 PROVEN SOURCE OF ELEVATION ROAD INTERSECTION 840' WEST OF LOCATION, ELEV. = 634

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



STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
OIL AND GAS DIVISION

DATE APRIL 24, 19 84
 OPERATOR'S WELL NO. KEM 267 REV.
 API WELL NO. _____

WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___
 (IF "GAS,") PRODUCTION ___ STORAGE ___ DEEP ___ SHALLOW X

LOCATION: ELEVATION 649 WATERSHED MIDDLE FORK OF LEE CREEK
 DISTRICT HARRIS COUNTY WOOD
 QUADRANGLE LUBECK 449 009 4

SURFACE OWNER DAVID D. STEELE ACREAGE 100
 OIL & GAS ROYALTY OWNER CECIL EATON, ET. AL. LEASE ACREAGE 285
 LEASE NO. 90-04-873

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 ORISKANY ESTIMATED DEPTH _____

WELL OPERATOR KAISER EXPLORATION & MINING CO. DESIGNATED AGENT KAISER EXPLOR. & MINING CO.
 ADDRESS P.O. BOX 8, RAVENSWOOD, W.V. 26164 ADDRESS P.O. BOX 8, RAVENSWOOD, W.V. 26164

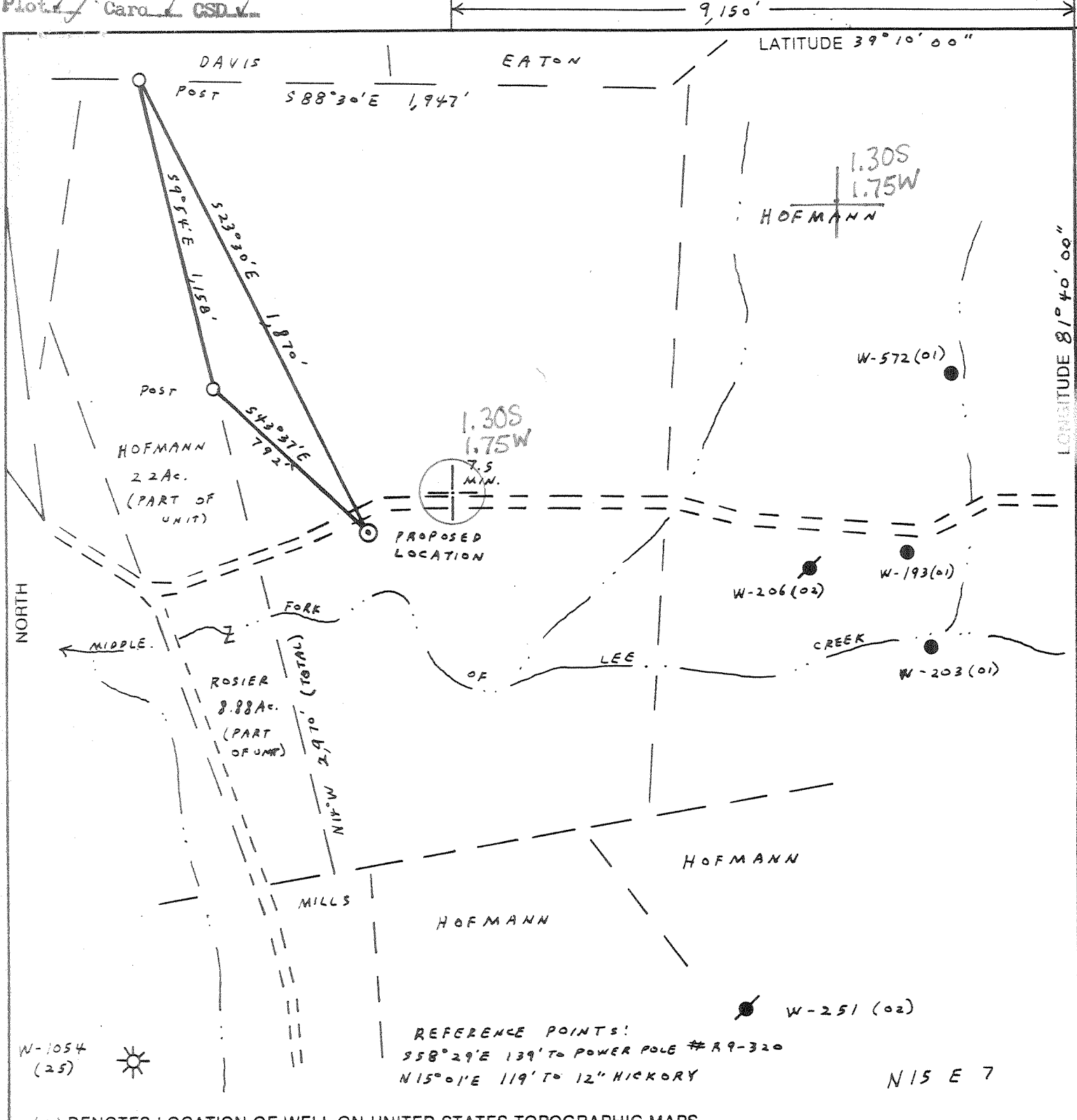
STATE COUNTY PERMIT
47 107 1231-REV. Frac

COUNTY NAME PERMIT
WOOD 1231-K10-Frac.

JUL 6 1987

FORM IV-5 (8-78)

465



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

FILE NO. REV. 2
 DRAWING NO. 5-19
 SCALE 1" = 500'
 MINIMUM DEGREE OF ACCURACY 1:200
 PROVEN SOURCE OF ELEVATION ROAD INTERSECTION 840' WEST OF LOCATION, ELEV. = 684

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 APRIL 24, 19 84
 OPERATOR'S WELL NO. KEM 267 REV.
 API WELL NO.

WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___
 (IF "GAS,") PRODUCTION X STORAGE ___ DEEP X SHALLOW ___
 LOCATION: ELEVATION 649 WATERSHED MIDDLE FORK OF LEE CREEK
 DISTRICT HARRIS 2 COUNTY WOOD
 QUADRANGLE LUBECK 449 BELLEVILLE 009 WC 4
 SURFACE OWNER DAVID D. STEELE ACREAGE 100
 OIL & GAS ROYALTY OWNER CECIL EATON, ET AL. LEASE ACREAGE 285
 LEASE NO. 90-04-873
 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) _____

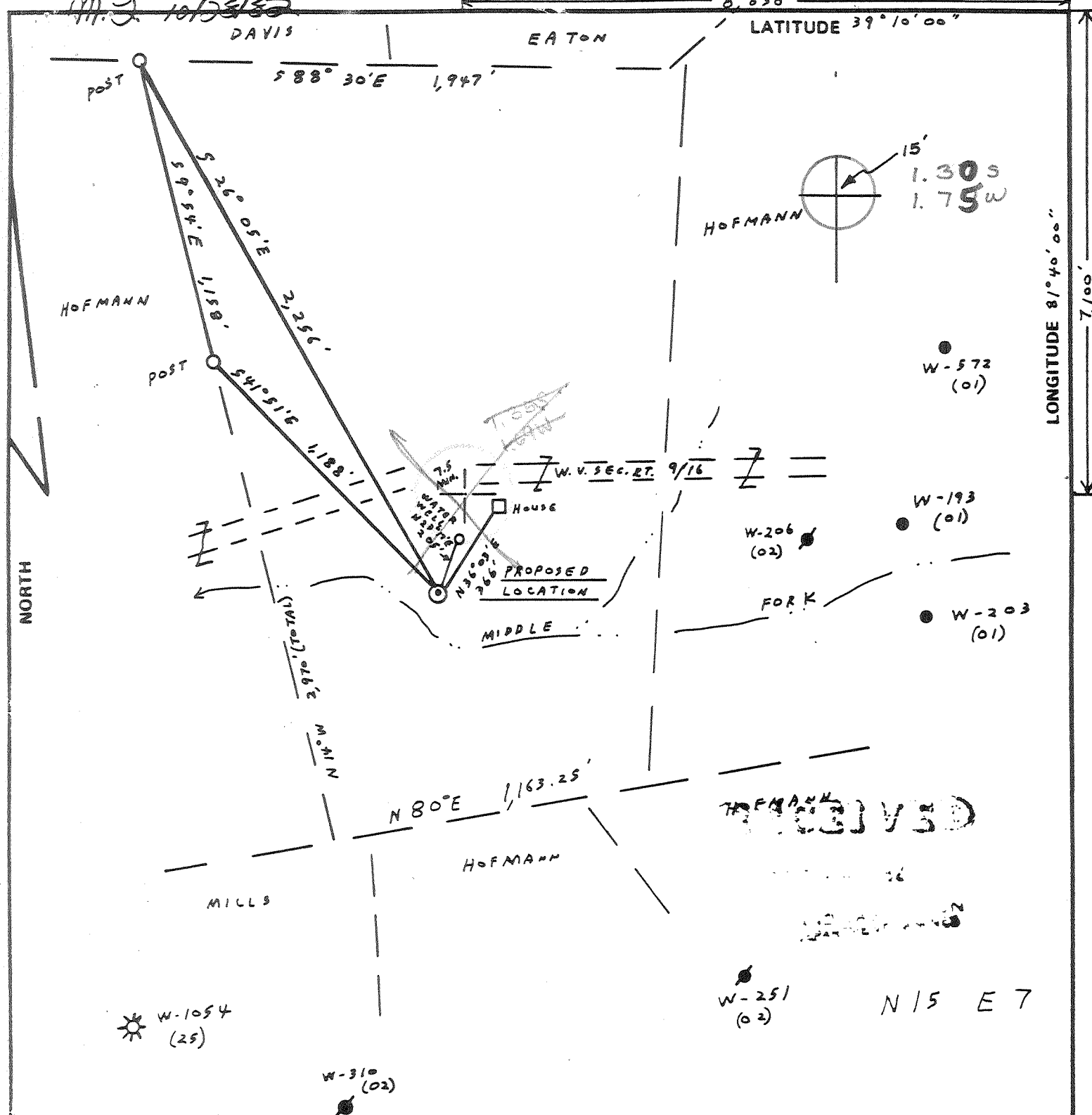
COUNTY NAME
 PERMIT

PLUG AND ABANDON ___ CLEAN OUT AND REPLUG ___
 TARGET FORMATION ORISKANY ESTIMATED DEPTH _____
 WELL OPERATOR KAISER EXPLORATION & MINING CO. DESIGNATED AGENT KAISER EXPLOR. & MINING CO.
 ADDRESS P.O. BOX 8, RAVENSWOOD, W.V. 26164 ADDRESS P.O. BOX 8, RAVENSWOOD, W.V. 26164

JUN 11 1984

DEEPWELL 6-6 New England (296)

FORM IV-5 (8-78)



FILE NO. REV. 1
 DRAWING NO. 5-19
 SCALE 1" = 500'
 MINIMUM DEGREE OF ACCURACY 1:200
 PROVEN SOURCE OF ELEVATION INTERSECTION W. V. RT. 9/16 AND 17/2, ELEV. = 634

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

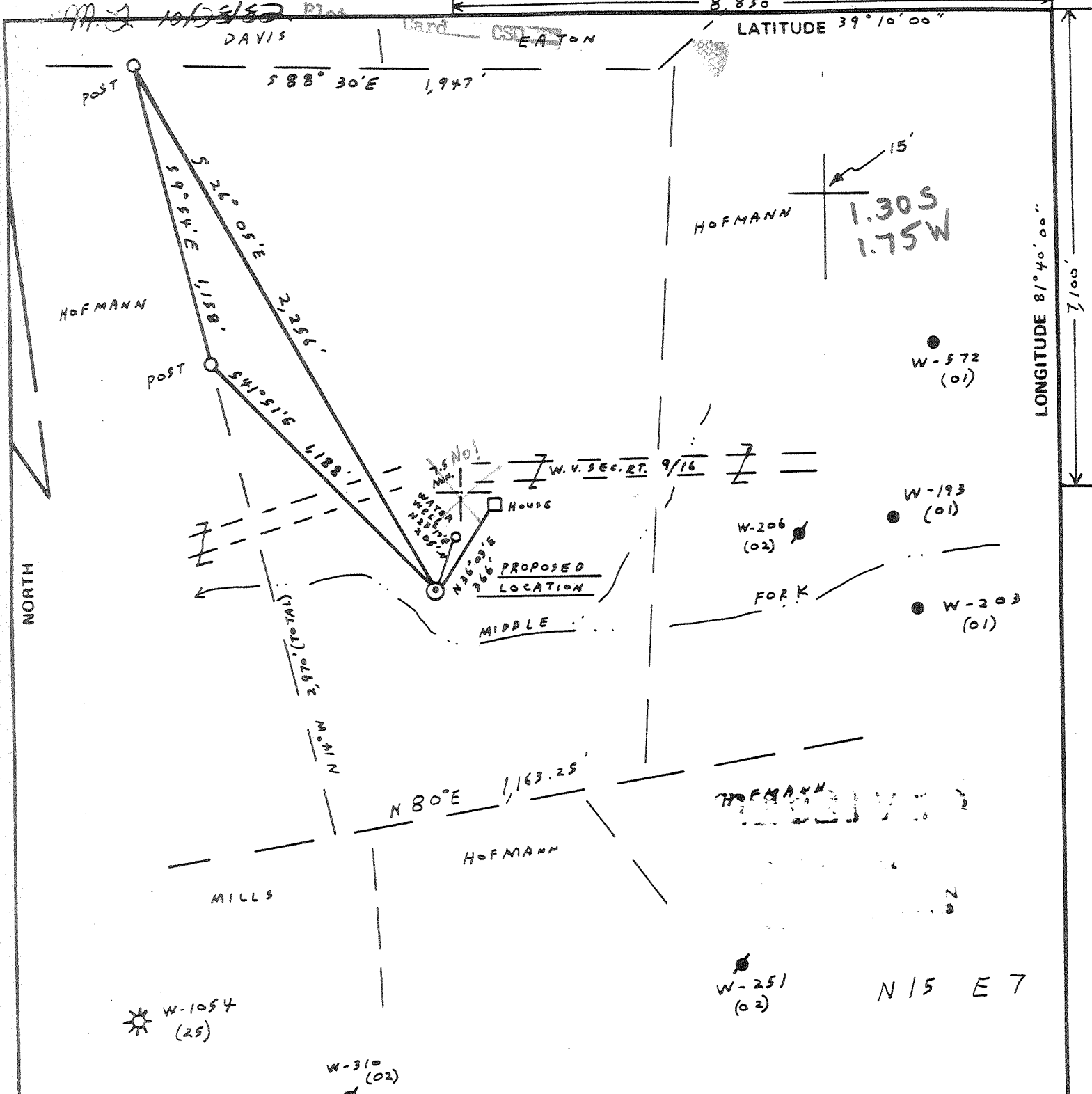
STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION



DATE SEPTEMBER 30, 1982
 OPERATOR'S WELL NO. KEM 267
 API WELL NO. _____
47 - 107 - 1231
 STATE COUNTY PERMIT

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS
 WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___
 (IF "GAS,") PRODUCTION X STORAGE ___ DEEP X SHALLOW ___
 LOCATION: ELEVATION 624 WATER SHED MIDDLE FORK OF LEE CREEK
 DISTRICT HARRIS COUNTY WOOD
 QUADRANGLE LUBECK, 7.5 MIN. Belleville 15' WC
 SURFACE OWNER DAVID D. STEELE ACREAGE 100
 OIL & GAS ROYALTY OWNER CECIL EATON, ET AL. LEASE ACREAGE 100
 LEASE NO. 90-04-873
 PROPOSED WORK: DRILL X CONVERT ___ DRILL DEEPER ___ REDRILL ___ FRACTURE OR STIMULATE ___ PLUG OFF OLD FORMATION ___ PERFORATE NEW FORMATION ___ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____
 PLUG AND ABANDON ___ CLEAN OUT AND REPLUG ___
 TARGET FORMATION ORISKANY ESTIMATED DEPTH 4324'
 WELL OPERATOR KAISER EXPLOR. & MIN. CO. DESIGNATED AGENT KAISER EXPLORATION AND MINING CO.
 ADDRESS P.O. BOX B RAVENSWOOD, W. V. 26164 ADDRESS P.O. BOX B RAVENSWOOD, W. V. 26164

deepwell
 NOV 8 1982



FILE NO. REV. 1
 DRAWING NO. 5-19
 SCALE 1" = 500'
 MINIMUM DEGREE OF ACCURACY 1:200
 PROVEN SOURCE OF ELEVATION INTERSECTION W. V. RT. 9/16 AND 17/2, ELEV. = 634

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 SEPTEMBER 30, 1982
 OPERATOR'S WELL NO. KEM 267
 API WELL NO. 47 - 107 - 1231
 STATE COUNTY PERMIT

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS
 WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___
 (IF "GAS,") PRODUCTION ___ STORAGE ___ DEEP X SHALLOW ___
 LOCATION: ELEVATION 624 WATER SHED MIDDLE FORK OF LEE CREEK
 DISTRICT HARRIS COUNTY WOOD
 QUADRANGLE LUBECK, 7.5 MIN.
 SURFACE OWNER DAVID D. STEELE ACREAGE 100
 OIL & GAS ROYALTY OWNER CECIL EATON, ET AL. LEASE ACREAGE 100
 LEASE NO. 90-04-873
 PROPOSED WORK: DRILL X CONVERT ___ DRILL DEEPER ___ REDRILL ___ FRACTURE OR STIMULATE ___ PLUG OFF OLD FORMATION ___ PERFORATE NEW FORMATION ___ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____

PLUG AND ABANDON ___ CLEAN OUT AND REPLUG ___
 TARGET FORMATION ORISKANY ESTIMATED DEPTH 4324'
 WELL OPERATOR KAISER EXPLOR. & MIN. CO. DESIGNATED AGENT KAISER EXPLORATION AND MINING CO.
 ADDRESS P.O. BOX 8 RAVENSWOOD, W. V. 26164 ADDRESS P.O. BOX 8 RAVENSWOOD, W. V. 26164

JAN 3 1984

WOOD-1231



Operator's Well No. KEM #267

API Well No. 47 107 1231
State County Permit

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

WELL TYPE: Oil _____ / Gas X /
(If "Gas", Production X / Underground storage _____ / Deep X / Shallow _____ /)

LOCATION: Elevation: 624' Watershed: Middle Fork of Lee Creek
District: Harris County: Wood Quadrangle: Lubeck

WELL OPERATOR Kaiser Exploration and Mining Co. DESIGNATED AGENT R. A. Pryce
Address P. O. Box 8 Address P. O. Box 8
Ravenswood, WV 26164 Ravenswood, WV 26164

OIL & GAS ROYALTY OWNER Cecil Eaton, et al
Address Belleville, WV

COAL OPERATOR None
Address _____

Acreage 100

COAL OWNER(S) WITH DECLARATION ON RECORD:

SURFACE OWNER David D. Steele

Name None

Address Rt. 2
Belleville, WV

Address RECEIVED

Acreage 100

Name _____

FIELD SALE (IF MADE) TO:
Address _____

Address _____
OIL AND GAS DIVISION
WV DEPARTMENT OF MINES

OIL & GAS INSPECTOR TO BE NOTIFIED

COAL LESSEE WITH DECLARATION ON RECORD:

Name Samuel N. Hersman
Address P. O. Box 66
Smithville, WV 26178

Name _____

Address _____

The undersigned well operator is entitled to operate for oil or gas purposes at the above location under a deed _____ / lease X other contract _____ / dated April 17, 19 80, to the undersigned well operator from Cecil and Geraldine Eaton

(If said deed, lease, or other contract has been recorded:)
Recorded on June 25, 19 80, in the office of the Clerk of the County Commission of Wood County, West Va., in Lease Book 740 at page 165. A permit is requested as follows:

PROPOSED WORK: Drill X / Drill deeper _____ / Redrill _____ / Fracture or stimulate _____ /
Plug off old formation _____ / Perforate new formation _____ /
Other physical change in well (specify) _____
_____ planned as shown on the work order on the reverse side hereof.

The above named coal operator, coal owner(s), and coal lessee are hereby notified that any objection they wish to make or are required to make by Code §22-4-3 must be filed with the Department of Mines within fifteen (15) days after the receipt of this Application by the Department.

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.

PLEASE SUBMIT COPIES OF ALL GEOPHYSICAL LOGS DIRECTLY TO:
WEST VIRGINIA OIL AND GAS CONSERVATION COMMISSION
1615 WASHINGTON STREET EAST
CHARLESTON, WV 25311
TELEPHONE: (304) 348-3092

KAISER EXPLORATION AND MINING COMPANY
Well Operator
By RA Pryce/dc
Its General Manager

DRILLING CONTRACTOR (IF KNOWN) Clint Hurt & Associates, Inc.

Address P. O. Box 388

Elkview, WV 25071

GEOLOGICAL TARGET FORMATION, Oriskany

Estimated depth of completed well, 4324' feet Rotary X / Cable tools /

Approximate water strata depths: Fresh, feet; salt, feet.

Approximate coal seam depths: Is coal being mined in the area? Yes / No /

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
Conductor							Kinds	
Fresh Water	10 3/4"					250'	250'	150 sks class A (to surface)
Coal								Sizes
Intermediate	7"					1807'	1807'	65 sks 50/50 pozmix 100 sks Class A
Production	4 1/2"					4324'	4325'	225 sks 50/50 pozmix set
Tubing								
Liners								Perforations:
								Top Bottom

NOTE: Regulation 7.02 of the Department of Mines provides that the original and four copies of Form IV-2 must be filed with the Department, 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 § 22-4-2, (iii) Form IV-9, "Reclamation Plan", applicable to the reclamation required by Code § 22-4-12b and Regulation 23, (iv) unless previously paid on the same well, the fee required by Code § 22-4-12a, and (v) if applicable, the consent required by Code § 22-4-8a from the owner of any water well or dwelling within 200 feet of the proposed well.

A separate Form IV-2 shall not be required for fracturing or stimulating a well where fracturing or stimulating is to be part of the work for which a permit is sought and is noted as such on the Form IV-2 filed in connection therewith.

THIS PERMIT MUST BE POSTED AT THE WELL SITE
ALL PROVISIONS BEING IN ACCORDANCE WITH CHAPTER 22,
ARTICLE 4 OF THE W. VA. CODE, THE LOCATION IS HEREBY
APPROVED FOR drilling. THIS PERMIT SHALL EXPIRE
IF OPERATIONS HAVE NOT COMMENCED BY 7-3-83
BY [Signature]

Survey

The following waiver must be completed by the coal operator and by any coal owner or coal lessee who has recorded a declaration under Code 22-4-20, if the permit is to be issued within fifteen (15) days of receipt thereof.

WAIVER

The undersigned coal operator / owner / lessee / of the coal under this well location has examined this proposed well location. If a mine map exists which covers the area of the well location, the well location has been added to the mine map. The undersigned has no objection to the work proposed to be done at this location, provided, the well operator has complied with all applicable requirements of the West Virginia Code and the governing regulations.

Date: , 19

By
Its



1) Date: May 3, 19 84
 2) Operator's Well No. KEM #267
 3) API Well No. 47 - 107 - 1231-REV
 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 X /
 B (If "Gas", Production X / Underground storage / Deep X / Shallow)
 5) LOCATION: Elevation: 649' / Watershed: Middle Fork of Lee Creek 044-A-1
 District: Harris / County: Wood / Quadrangle: Lubeck
 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 Tephabock / Name Clint Hurt
 Address Rt. 1, Box 101A / Address P. O. Box 388
Ripley, WV 25271 / Elkview, WV
 10) PROPOSED WELL WORK: Drill X / Drill deeper / Redrill / Stimulate X /
 Plug off old formation / Perforate new formation /
 Other physical change in well (specify)
 11) GEOLOGICAL TARGET FORMATION, Oriskany
 12) Estimated depth of completed well, 4349 feet
 13) Approximate strata depths: Fresh, feet; salt, feet.
 14) Approximate coal seam depths: Is coal being mined in the area? Yes / No
 15) CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS					FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS
	Size	Grade	Weight per ft.	New	Used	For drilling	Left in well		
Conductor									Kinds
Fresh water	10 3/4			X		250	250	150 sks Class A (to surface)	Sizes
Coal								65 sks 50/50 pozmix	
Intermediate	7			X		1832	1832	100 sks Class A	
Production	4 1/2			X		4349	4349	225 sks 50/50 pozmix	
Tubing									
Liners									Perforations:
									Top Bottom

OFFICE USE ONLY
 DRILLING PERMIT

Permit number 47-107-1231-REV Date June 6, 19 84

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 June 6, 1986 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond: <u>BLANKET</u>	Agent: <u>ls</u>	Plat: <u>MN</u>	Casing: <u>MN</u>	Fee: <u>967-333</u>
----------------------	------------------	-----------------	-------------------	---------------------

T. J. [Signature]
 Administrator, Office of Oil and Gas

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



IV-35
(Rev 8-81)

Date March 4, 1985
Operator's
Well No. KEM #267
Farm Harold Ketchum
API No. 47 - 107 - 1231 Ren

State of West Virginia
Department of Mines
Oil and Gas Division

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: 649 Watershed Middle Fork of Lee Creek
District: Harris County Wood Quadrangle Lubeck

COMPANY Kaiser Exploration and Mining Co.

ADDRESS P. O. Box 8 Ravenswood, WV 26164

DESIGNATED AGENT R. A. Pryce

ADDRESS Same

SURFACE OWNER David Steele

ADDRESS Rt. 1, Box 185 Belleville, WV 26133

MINERAL RIGHTS OWNER Cecil Eaton, et. al.

ADDRESS Rt. 1, Box 154 Belleville, WV 26133

OIL AND GAS INSPECTOR FOR THIS WORK Jerry

Tephabock ADDRESS Rt. 1 Box 101A Ripley, WV

PERMIT ISSUED June 6, 1984

DRILLING COMMENCED 8-3-84

DRILLING COMPLETED 8-9-84

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.			
13-10"	10 3/4"	272'	175 sks Class A
9 5/8			
8 5/8			
7	7"	1715	175 sks poz mix 100 sks Class A
5 1/2			
4 1/2	4 1/2"	4325	225 sks poz mix
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Oriskany Depth 4349 feet

Depth of completed well 4330 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

Drilled on fluid not known.

OPEN FLOW DATA

Producing formation Oriskany Pay zone depth 4239-4245 feet

Gas: Initial open flow 500 Mcf/d Oil: Initial open flow -- Bbl/d

Final open flow 7 Mcf/d Final open flow -- Bbl/d

Time of open flow between initial and final tests 4 hours

Static rock pressure 1400 psig (surface measurement) after 2 wk ~~hours~~ shut in

(If applicable due to multiple completion--)

Second producing formation _____ Pay zone depth _____ feet

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

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

Time of open flow between initial and final tests _____ hours

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

(Continue on reverse side)

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

8/13/84 Young's Wireline perforated Oriskany from 4239' to 4245' with 24 shots.
8/17/84 BJ Hughes cross link gel frac with #60,000 of 20/40 sand, 217 mscf nitrogen, 643 bbl fluid, ISIP: 1500 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
Shale and Siltstone			0	75	
Sandstone			75	120	
Shale and Siltstone			120	410	
Sandstone			410	492	
Shale and Siltstone			492	880	
Dunkard Sands			880	1270	
Shale			1270	1340	
Salt Sands			1340	1570	
Shale			1570	1906	
Coffee Shale (Sunbury)			1906	1928	
Berea Sandstone			1928	1938	
Shale			1938	3082	S/G @ 2757, 2970
Brown Shale			3082	3588	S/G @ 3125, 3546
Shale			3588	3924	
Marcellus Shale			3924	4147	
Onondaga Limestone			4147	4230	
Oriskany Sandstone			4230	4260	S/G @ 4240
Helderberg Limestone			4260	4330	
Total Depth:			4330		

(Attach separate sheets as necessary)

Kaiser Exploration and Mining Company
Well Operator

By: R. A. P.

Date: 03/04/85

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."

RECEIVED
JUN 12 1987



1) Date: May 26, 19 87
2) Operator's Well No. KEM #267, Ketchum
3) API Well No. 47 107 1231-ERAC
State County Permit

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

- 4) WELL TYPE: A Oil / Gas /
B (If "Gas", Production / Underground storage / Deep / Shallow)
- 5) LOCATION: Elevation: 649' Watershed: Middle Fork of Lee Creek
District: Harris County: Wood 107 Quadrangle: Lubeck 449
- 6) WELL OPERATOR Kaiser Exploration and Mining Company CODE: 25550 7) DESIGNATED AGENT R. A. Pryce
Address P. O. Box 8 Ravenswood, WV 26164 Address Same
- 8) OIL & GAS INSPECTOR TO BE NOTIFIED Name Glen Robinson 9) DRILLING CONTRACTOR: Name Kaiser Company Tools
Address Rt. 1, #6 Mt. Pleasant Estate Mineral Wells, WV 26150 Address P. O. Box 8 Ravenswood, WV 26164
- 10) PROPOSED WELL WORK: Drill / Drill deeper / Redrill / Stimulate /
Plug off old formation / Perforate new formation /
Other physical change in well (specify) Plug Oriskany back to 3650'. Perforate
- 11) GEOLOGICAL TARGET FORMATION, Brown Shale and frac Brown Shale
- 12) Estimated depth of completed well, 3650' feet
13) Approximate trata 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 None
Fresh water	10 3/4"					250'	250'	150 sks class A	
Coal								65 sks 50/50 sup pozmix	
Intermediate	7"					1805'	1805'	100 sks class A	
Production	4 1/2"					4385'	4385'	225 sks 50/50 sup pozmix	
Tubing									
Liners									Perforations: Top Bottom

OFFICE USE ONLY
DRILLING PERMIT

Permit number 47-107-1231-ERAC Date June 29 19 87

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 June 29, 1989 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond: <input checked="" type="checkbox"/>	Agent: <input checked="" type="checkbox"/>	Blain <input checked="" type="checkbox"/>	Casing <input checked="" type="checkbox"/>	Fee <u>970125</u>	WCCP <input checked="" type="checkbox"/>	SKT <input checked="" type="checkbox"/>	Other
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NOTE: Keep one copy of this permit posted at the drilling location.

John H. Johnston
Director, Division of Oil and Gas
By Margaret J. Hesse

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

STATE OF WEST VIRGINIA
Division of Environmental Protection
Office of Oil and Gas

Fracture

WELL OPERATOR'S REPORT of WELL WORK

Farm Name: STEELE, DAVID Operator Well No.: KEM-267

Location: Elevation: 649 Quadrangle: LUBECK

District: HARRIS County: WOOD
Latitude: 6850 Feet South of 39 Deg. 10 Min. 00 Sec.
Longitude: 9150 Feet West of 81 Deg. 40 Min. 00 Sec.

Company: PEAKE ENERGY, INC.
P. O. BOX 8
RAVENSWOOD, WV 26164

Agent: THOMAS S. LIBERATORE

Inspector: LARRY PARRISH
Permit Issued: 05/26/00
Well Work Commenced (spud): 06/12/00
Well Work Completed (T.D.): 06/14/00
Verbal Plugging
Permission Granted on:
Rotary X Cable _____ Rig
Total Depth (feet): PB: 3630
Fresh Water Depths (feet):

Casing & Tubing (Size-O.D.)	Used in Drilling (feet)	Left in Well (feet)	Cement Type (sacks)
10.75	EXISTING	272	
7	EXISTING	1715	
4 1/2	EXISTING	4325	
NO	CHANGES	IN	CASING

Salt Water Depths (feet):

Is coal being mined in the area? _____
Coal Depths (ft): _____

OPEN FLOW DATA

NEW Producing formation DEV. BROWN E Pay zone depth (ft) 3080-3590
Gas: Initial open flow * MCF/D Oil: Initial open flow * BBL/D
Final open flow est. 100 MCF/D Final open flow 0 BBL/D
Time of open flow between initial and final tests _____ Hours
Static rock pressure 780 psig (surface pressure) after 96 Hours

2nd Producing Fm: 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 -- Days

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 GEOLOGIC RECORD OF ALL FORMATIONS, INCLUDING COAL, ENCOUNTERED BY THE WELL LOG.

RECEIVED
Office of Oil & Gas
Permitting
JAN 16 2001
WV Division of
Environmental Protection

For: PEAKE ENERGY

By: Thomas S. Liberatore, General Manager
Date: 10-2001

FEB 23 2001

WOOD 1231

WR-35
(Reverse)

API / Permit #47-107-01231
Peake Well #KEM-267
Elevation: 649 GL

DETAILS OF PERFORATING, FRACTURING, OR PHYSICAL CHANGE, ETC.

PERFORATED THE BROWN SHALE FROM 3080 TO 3590. FRAC'D THE SHALE USING
1,200,000 SCF OF NITROGEN

WELL LOG

ROCK TYPE OR FORMATION NAME	TOP	BOTTOM	REMARKS
SEE ORIGINAL WELL RECORD FILED IN 1985			

RECEIVED
Office of Oil & Gas
Permitting
JAN 16 2001
WV Division of
Environmental Protection