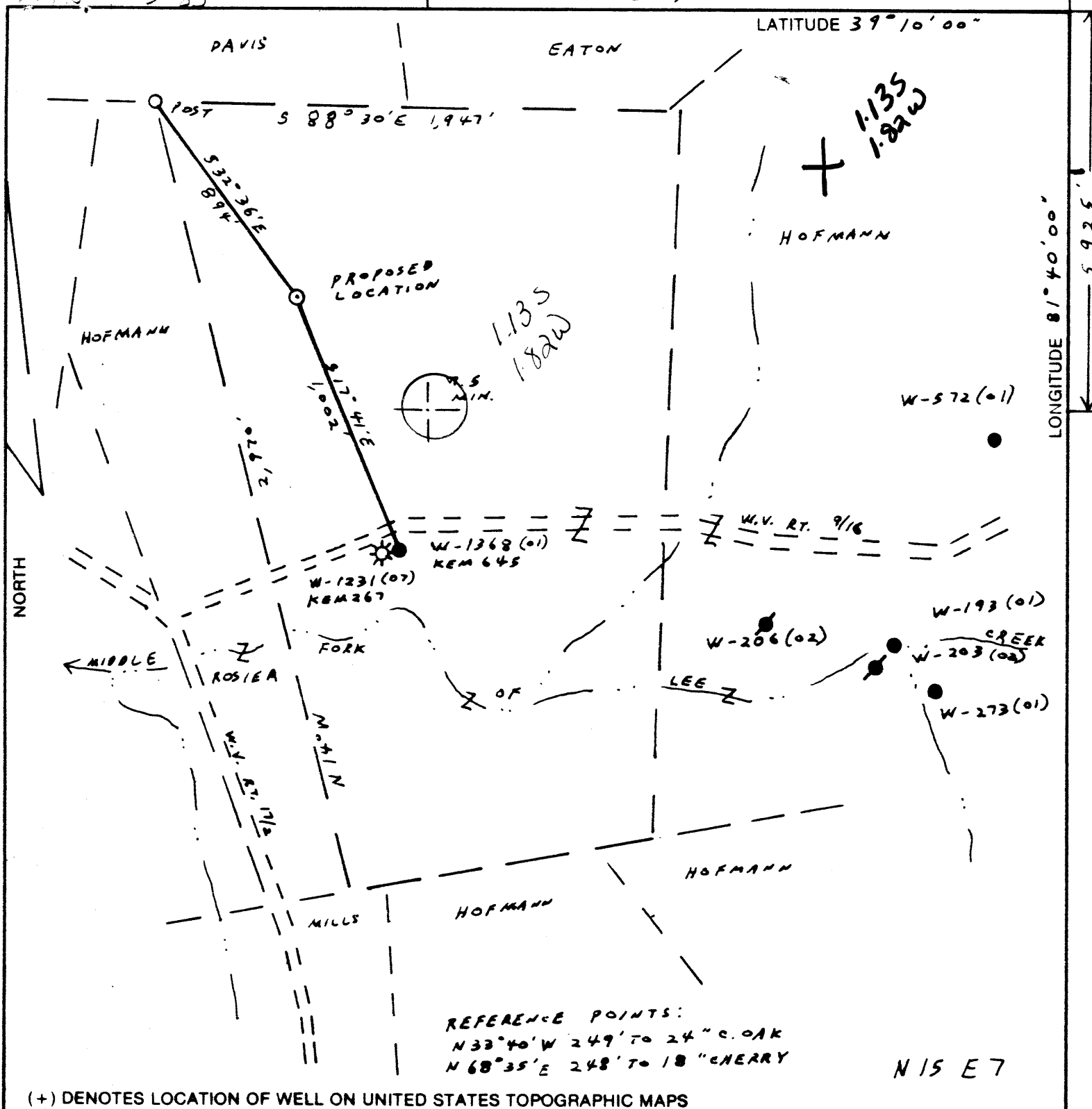


M.V. 7-3-35



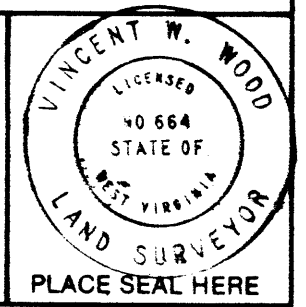
REFERENCE POINTS:
 N33°40'W 249' TO 24" C. OAK
 N68°35'E 248' TO 18" CHERRY

N 15 E 7

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

FILE NO. 8-32
 DRAWING NO. _____
 SCALE 1" = 500'
 MINIMUM DEGREE OF ACCURACY 1:200
 PROVEN SOURCE OF ELEVATION ROAD INTERSECTION
1212' S.W. 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 AUG 5, 19 85
 OPERATOR'S WELL NO. KEM 652
 API WELL NO. _____

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

LOCATION: ELEVATION 800 WATERSHED MIDDLE FORK OF LEE CREEK
 DISTRICT HARRIS 2 COUNTY WOOD
 QUADRANGLE LUBECK 449 259 WC4 Belleville

SURFACE OWNER DAVID P. STEELE ACREAGE 100
 OIL & GAS ROYALTY OWNER HAROLD KETCHUM 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 BEREA SANDSTONE ESTIMATED DEPTH _____
 WELL OPERATOR KAISER EXPLORATION AND MINING CO. DESIGNATED AGENT R.A. PRYCE
 ADDRESS P.O. BOX 8, RAYENSWOOD, W.V. 26164 ADDRESS P.O. BOX 8, RAYENSWOOD, W.V. 26164

465

COUNTY NAME _____
 PERMIT _____

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

4/10/86 Berea SS perforated with 12 holes, 0.39" from 2091'-2094'.

4/22/86 Fracture Berea SS with 75% foam frac. Breakdown at 3200 psig treated with 75 quality foam at 1700 psig. Sand Concentration: 4-10 ppg. 45,000# 20/40 sand Total nitrogen: 619,500 scf; 228 bbl sand laden fluid; 306 bbl total fluid. ISIP=1000 psi; 5 MIN SIP=1000 psi. Flow back through. 1/2" choke into tank.

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	230	
Sand			230	270	
Shale			270	308	
Sand			308	320	
Shale and Siltstone			320	575	
Sand			575	646	
Shale and Siltstone			646	1035	
Sand			1035	1068	
Shale			1068	1100	
Sand			1100	1118	
Shale and Siltstone			1118	1374	
Big Dunkard Sand			1374	1556	
Shale			1556	1586	
Salt Sands			1586	1720	
Shale			1720	2070	
Coffee Shale (Sunbury)			2070	2091	
<u>Berea Sandstone</u>			2091	2095	Slt. S/oil
Shale			2095	2150	
Total Depth			<u>2150</u>		

(Attach separate sheets as necessary)

KAISER EXPLORATION AND MINING COMPANY
Well Operator

By: ZAR

Date: July 18, 1986

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 soil, encountered in the drilling of a well."

