

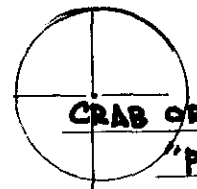
8/12/87

7100' 50

LATITUDE 37° 47' 30"

0987

LONGITUDE 81° 15' 00"



46.1 ACRES

CRAB ORCHARD COAL + LAND COMPANY

"POTEEET RESERVATION"

DB 107 P6. 369

PROPOSED 37-AC

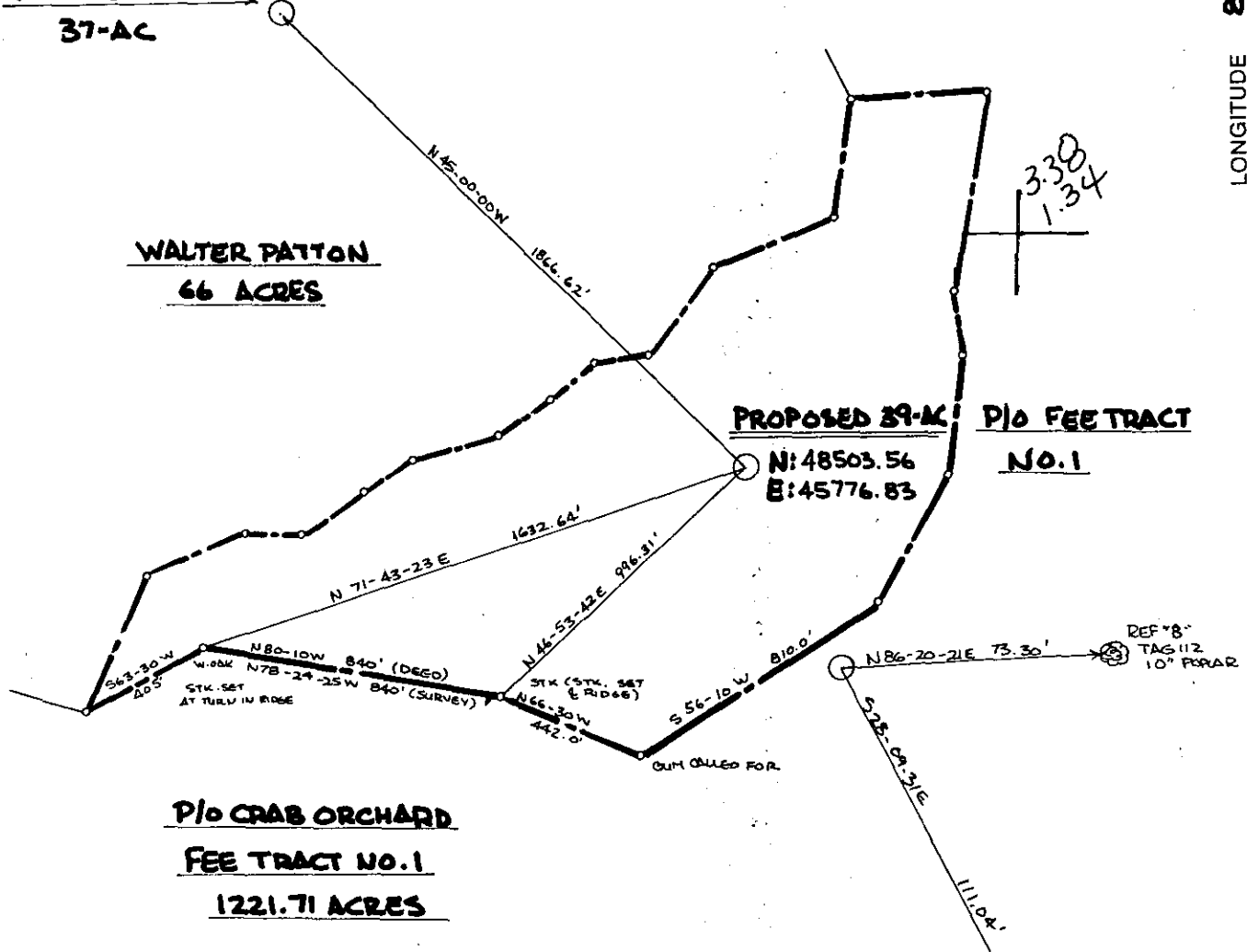
WALTER PATTON 66 ACRES

PROPOSED 39-AC

P/O FEE TRACT NO.1

N: 48503.56 E: 45776.83

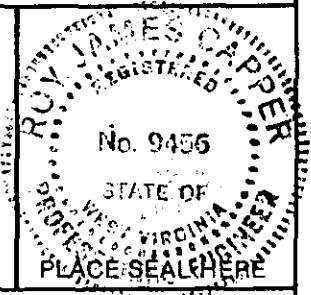
P/O CRAB ORCHARD FEE TRACT NO.1 1221.71 ACRES



REFERENCES 1" = 50'

(+) DENOTES LOCATION OF WELL ON

CO: 081 PMT: 796 Loc Disitized from OGIS 7.5' Mylai QUAD: 331 DATE: 25-MAY-90 LAT: 37 47.5 Miles South: 0.50 LONG: 81 15.0 Miles West : 1.34 LATIONS ISSUED AND PRESCRIBED BY THE DEPART- (SIGNED) Roy James Capper R.P.E. 9456 L.L.S.



FILE NO. 87012-REV DRAWING NO. SCALE 1" = 500' MINIMUM DEGREE OF ACCURACY 1 IN 5000 PROVEN SOURCE OF ELEVATION RD. INTERSECTION 1000' NORTH OF LOC. 2165'

STATE OF WEST VIRGINIA DEPARTMENT OF ENERGY OIL AND GAS DIVISION



DATE 4 AUGUST 19 87 OPERATOR'S WELL NO. 39-AC -REVISED API WELL NO.

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL (IF "GAS,") PRODUCTION STORAGE DEEP SHALLOW LOCATION: ELEVATION 2180 WATER SHED UGLY BRANCH DISTRICT TRAP HILL 7 COUNTY RALEIGH QUADRANGLE ECCLES 7.5' 331 036 9 SE SURFACE OWNER CRAB ORCHARD COAL + LAND COMPANY ACREAGE 46.1 OIL & GAS ROYALTY OWNER SAME LEASE ACREAGE 7882.36 LEASE NO. 461772

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 Big Lime ESTIMATED DEPTH 2800' WELL OPERATOR PEAKE OPERATING COMPANY DESIGNATED AGENT TIMOTHY K. WILCOX ADDRESS 423 CNB PLAZA CHARLESTON, W.VA. 25301 669 ADDRESS 423 CNB PLAZA CHARLESTON, W.VA. 25301

6-6 unnamed (a) slab fork (249)

FORM WW-6

COUNTY NAME PERMIT



WR-35

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State of West Virginia
DEPARTMENT OF ENERGY
Oil and Gas Division

Date October 19, 1987
Operator's
Well No. Crab Orchard #39-AC Rev.
Farm _____
API No. 47 - 081 - 0796 Rev.

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

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: 2180' Watershed Ugley Branch
District: Trap Hill County Raleigh Quadrangle Eccles 7.5

COMPANY Peake Operating Company

ADDRESS 423 Charleston National Plaza
Charleston, WV 25301

DESIGNATED AGENT Timothy K. Wilcox

ADDRESS Same

SURFACE OWNER Crab Orchard Coal & Land Co.

ADDRESS Box 443, Charleston, WV 25322

MINERAL RIGHTS OWNER Same

ADDRESS _____

OIL AND GAS INSPECTOR FOR THIS WORK _____

Rodney Dillon ADDRESS Box 1526, Sophia WV 25926

PERMIT ISSUED 8/24/87

DRILLING COMMENCED 9/21/87

DRILLING COMPLETED 9/26/87

IF APPLICABLE: PLUGGING OF DRY HOLE ON
CONTINUOUS PROGRESSION FROM DRILLING OR
REWORKING. VERBAL PERMISSION OBTAINED
ON N/A

Casing & Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft.
Size 20-16 Cond.	20	20	2 sks.
13-10"			
9 5/8	579	579	220 sks.
8 5/8			
7	1236	1236	210 sks.
5 1/2			
4 1/2		2753	145 sks.
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Big Lime Depth 2800 feet

Depth of completed well 2806 feet Rotary X / Cable Tools

Water strata depth: Fresh 140, 190 feet; Salt 875, 2681 feet

Coal seam depths: 310', 562', 870' Is coal being mined in the area? No

OPEN FLOW DATA

Producing formation Maxton Pay zone depth 2292-2347 feet

Gas: Initial open flow N/S Mcf/d Oil: Initial open flow -- Bbl/d

Final open flow 696 Mcf/d Final open flow -- Bbl/d

Time of open flow between initial and final tests 4 hours

Static rock pressure 340 psig (surface measurement) after 24 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

OCT 26 1987

(Continue on reverse side)

DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC.
 10/11/87 - Perforated the Big Lime from 2624-2659 (14 holes).
 Acidized Big Lime with 500 gal. 28% HCL, 8000 gal. 15% acid, total of 272 bbl.
 BDP 200#, ATP 150#, ISIP 60#, 15 min. SIP 0#.

Set Baker Model T plug at 2390'.

10/13/87 - Perforated the Maxton from 2292-2347 (32 holes).
 Fraced using 75 Q Foam, 500 gal. acid, 60,000# 20/50 sand, 411,000 SCFN₂.
 BDP 1660#, ATP 1600#, ISIP 1240#, 15 min. SIP 1570#.

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
Sand & Shale			0	1110	<u>Water</u>
Shale			1110	1210	Fresh - @ 140' - 1/2 gpm
Sand			1210	1238	@ 190' - 10 gpm
Princeton Sand			1238	1357	Salt - @ 875 - <1 gpm
Shale			1357	1442	@ 2681 - 2-3 gpm
Sand			1442	1452	
Shale			1452	1500	Gas checks:
Ravencliff Sand			1500	1538	1502 - .018
Avis Lime			1538	1575	1552 - .015
Red Rock			1575	1650	2354 - .015
Sand & Shale			1650	2304	2429 - .015
Shale			2304	2390	2550 - .015
Little Lime			2390	2490	2681 - .040
Pencil Cave Shale			2490	2538	
✓ Big Lime			2538	TD	

DTD-2806
 LTD-2806

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DIVISION OF OIL & GAS
 DEPARTMENT OF ENERGY

(Attach separate sheets as necessary)

PEAKE OPERATING COMPANY

Well Operator

By:

Date:

[Signature]
 10-20-87

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."