

- A: S11-37-00W 316.01'
- B: N76-33-28E 825.91'
- C: N44-38-59E 541.60'
- D: N03-36-58W 1565.23'
- E: S20-51-23W 1523.42'

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

FILE NO. 84002
 DRAWING NO. _____
 SCALE 1" = 500'
 MINIMUM DEGREE OF ACCURACY 1 in 200
 PROVEN SOURCE OF ELEVATION Road intersection
Approx. 4000' SW (1984)

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) Ray Cooper
 R.P.E. 9456 L.L.S. _____

NEW SEAL ORDERED
 PLACE SEAL HERE

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION



DATE JULY 28, 19 84
 OPERATOR'S WELL NO. IA-HAWLEY
 API WELL NO.

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

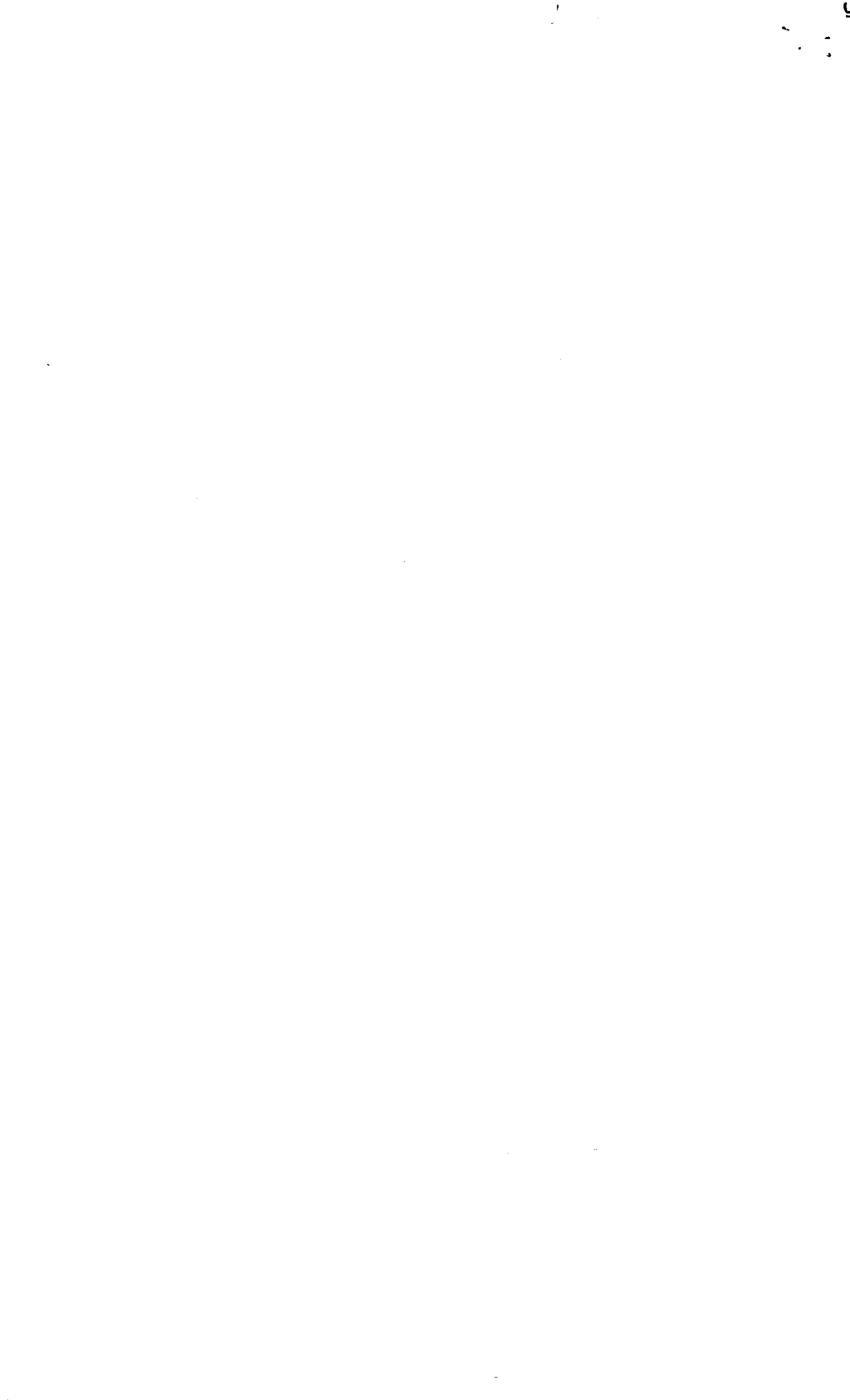
LOCATION: ELEVATION 2013.6' WATERSHED DINGESS BRANCH OF MARSH FORK
 DISTRICT TRAP HILL COUNTY RALEIGH
 QUADRANGLE ECCLES 7.5' 331 & 15' 036 SE4

SURFACE OWNER WILLIAM L. AND BERTHA L. GUILLIAMS ACREAGE 159.68
 OIL & GAS ROYALTY OWNER SOLA HAWLEY LEASE ACREAGE 160.0

LEASE NO. 33/25?
 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 LING ESTIMATED DEPTH 2661
 WELL OPERATOR PEAKE OPERATING COMPANY DESIGNATED AGENT FLOYD B. WILCOX SEP 24 1984
 ADDRESS 423 CHARLESTON NATIONAL PLAZA ADDRESS 423 CHARLESTON NATIONAL PLAZA
669 CHARLESTON, WEST VIRGINIA 25303 CHARLESTON, WEST VIRGINIA 25303

b.l.e. appeared to Slab Fork (249)





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OCT 29 1985

DIVISION OF OIL & GAS
DEPT. OF ENERGY

State of West Virginia

DEPARTMENT OF ENERGY
Oil and Gas Division

Date October 24, 1985
Operator's
Well No. Hawley #1-A
Farm _____
API No. 47 - 081 - 667

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: 2013.6 Watershed Dingess Branch of Marsh Fork
District: Trap Hill County Raleigh Quadrangle Eccles 7.5

COMPANY Peake Operating Company
ADDRESS Suite 423 - Charleston National Plaza
DESIGNATED AGENT Timothy K. Wilcox
ADDRESS Suite 423 - Charleston National Plaza
SURFACE OWNER William L. Guilliams
ADDRESS Box 248, Glen Daniels, WV 25844
MINERAL RIGHTS OWNER Sola Hawley
ADDRESS _____
OIL AND GAS INSPECTOR FOR THIS WORK Rodney
Dillon ADDRESS Box 30, Scarbro, WV
PERMIT ISSUED September 7, 1984
DRILLING COMMENCED July 3, 1985
DRILLING COMPLETED July 15, 1985
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"	15	15	2 sacks
9 5/8		372	125 sacks
8 5/8			
7		1171	200 sacks
5 1/2			
4 1/2		2601	165 sacks
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Big Lime Depth 2424 feet

Depth of completed well 2655 feet Rotary X / Cable Tools _____

Water strata depth: Fresh _____ feet; Salt _____ feet

Coal seam depths: _____ Is coal being mined in the area? _____

OPEN FLOW DATA

Producing formation Big Lime Pay zone depth _____ feet

Gas: Initial open flow 20 Mcf/d Oil: Initial open flow _____ Bbl/d

Final open flow 230 Mcf/d Final open flow _____ Bbl/d

Time of open flow between initial and final tests 5 hours

Static rock pressure 400 psig (surface measurement) after 72 hours shut in
(If applicable due to multiple completion--)

Second producing formation Ravencliff Pay zone depth _____ feet

Gas: Initial open flow 10 Mcf/d Oil: Initial open flow _____ Bbl/d

Final open flow 348 Mcf/d Oil: Final open flow _____ Bbl/d

Time of open flow between initial and final tests 4 hours

Static rock pressure 165# psig (surface measurement) after 18 hours shut in

(Continue on reverse side)

NOV 12 1985

NOV 12 1985

FOF for well
348 Mcf

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

7/22 - perforated Big Lime as follows: 2448 - 2450 (8 holes), 2501 - 2505 (8 holes), 2513 - 2518 (10 holes)

7/23 - Dowell acidized with 24 bbl's 28% HCL, 194 bbl's 15% gelled acid - 101 bbl's fresh water flush - BDP 875# - ATP 450# - ISIP 450# - after 15 minutes 400#

7/25 - perforated Ravencriff as follows: 1473 - 1477 (8 holes), 1481 - 1484 (6 holes), 1484 - 1486 (8 holes)

7/26 - Dowell treated with 750 foam - used 1000 gallons 15% acid - 15,000# 80/100 sand - 45,000 20/50 sand - 476,000 SCFN₂ - 256 bbl's total fluid - BDP 1400# - ATP 2350# - ISIP 2150# - after 15 mintes 1400#

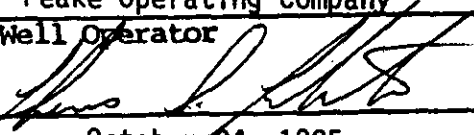
WELL LOG

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	510	Fresh Water:
Shale			510	690	85' - 10gmp
Sandstone			690	760	210 - 10gpm
Shale			760	1000	305 - 10gpm
Sandstone			1000	1100	448' - 2 gpm
Shale			1100	1262	Gas checks:
*Princeton			1262	1312	1453 - n/s
Shale			1312	1460	1528 - 1/10 1" W = 10 Mcf
*Ravencriff			1460	1503	2155 - 4/10 1" W = 21 Mcf
Shale and Sand Stks			1503	2310	2255 - 8/10 1" W = 29 Mcf
*Little Lime			2310	2380	2430 - 4/10 1" W = 21 Mcf
Shale			2380	2420	2480 - 20/10 1" W = 47 Mcf
*Big Lime			2420	T.D.	2536 - 30/10 1" W = 57 Mcf
					2580 - 20/10 1" W = 47 Mcf
					2655 2/10 1" W = 47 Mcf

*Electric Log Tops

DTD - 2655
LTD - 2655

(Attach separate sheets as necessary)

Peake Operating Company
Well Operator
By: 
Date: October 24, 1985

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."

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1) Date: July 16, 19 84
2) Operator's Well No. HAWLEY #1-A
3) API Well No. 47 - 081 - 0667
State County Permit

OIL & GAS DIVISION STATE OF WEST VIRGINIA
DEPT. OF MINES 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: 2013.6 Watershed: DINGESS BRANCH OF MARSH FORK KC460
District: TRAP Hill County: RALEIGH Quadrangle: ECLIPSE 7.5
- 6) WELL OPERATOR PEAKE OPERATING CO 7) DESIGNATED AGENT FLOYD B. WILCOX
Address Suite 423 CHARLESTON NAT'L PLAZA Address SAME
CHARLESTON, WV 25301
- 8) OIL & GAS INSPECTOR TO BE NOTIFIED 9) DRILLING CONTRACTOR:
Name ROONEY G. DILLON Name Unknown
Address P.O. BOX 30 Address _____
SCARSDO, WV 25917
- 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, RIG LIME
- 12) Estimated depth of completed well, 2661 feet
- 13) Approximate trata depths: Fresh, 50 feet; salt, 500 feet.
- 14) Approximate coal seam depths: 628 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	Kinds	Sizes
Conductor	13 3/8	H-40	48#	X		30	130	TO SURFACE		
Fresh water										
Coal										
Intermediate	7"	J-55	17#	X		1085	1085	ETS 150 SACKS AS REQ BY D.I.E 15.05		
Production	4 1/2"	J-55	9.5#	X		2650	2650	300 SACKS		
Tubing								OR AS REQUIRED BY RULE		
Liners										
									Perforations: 15.01	
									Top	Bottom

OFFICE USE ONLY
DRILLING PERMIT

Permit number 47-081-0667 Date September 17, 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 September 17, 1986 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond: <u>///</u> BLANKET	Agent: <u>Lo</u>	Plat: <u>MU</u>	Casing: <u>MU</u>	Fee: <u>3731</u>
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Margaret J. Hesse
Administrator, Office of Oil and Gas

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

File

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

