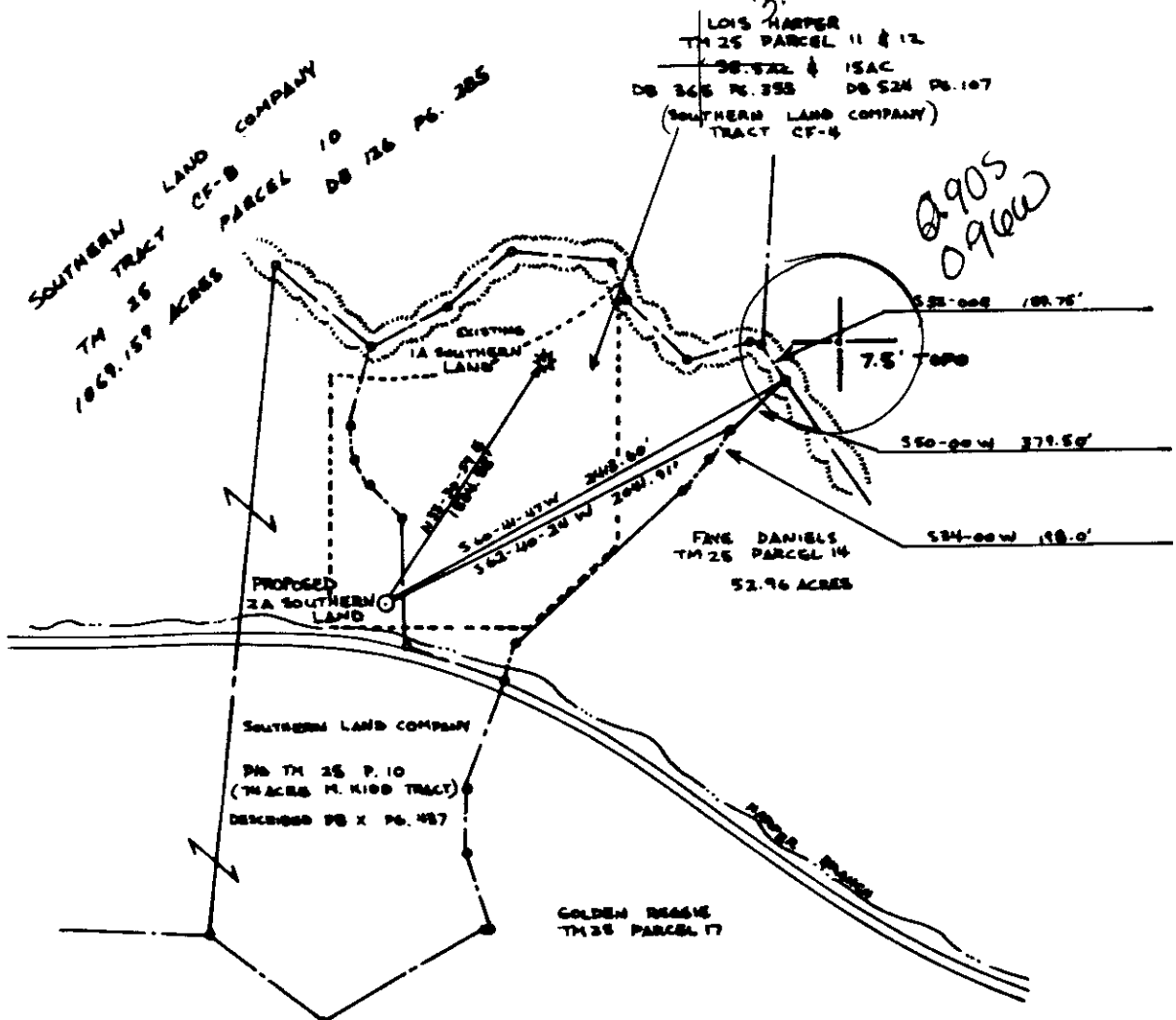


2-12-85

LATITUDE 37°50'00"

CODE _____ CARD _____ PLOT _____

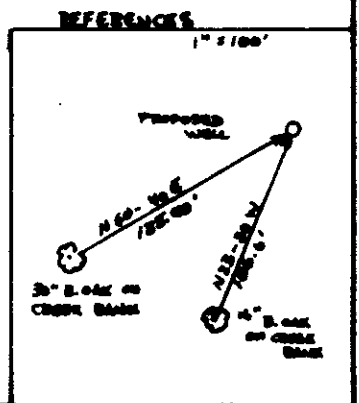


LONGITUDE 81°17'51"

NORTH

NOTE:
 HORIZONTAL AND VERTICAL CONTROL SUPPLIED BY BECKLEY MINING COMPANY (T-RAILS "T1" AND "T2")

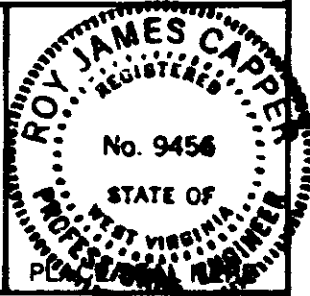
- COORDINATES OF PROPOSED 2A SOUTHERN LAND
N- 298758.70 ; E - 191678.24
- COORDINATES OF EXISTING 1A SOUTHERN LAND
N- 30033.09 ; E - 111630.68



FILE NO. 85013
 DRAWING NO. _____
 SCALE 1" = 1000'
 MINIMUM DEGREE OF ACCURACY 1 IN 2500
 PROVEN SOURCE OF ELEVATION BECKLEY MINING CO. T-RAIL "T1" (1827.85')

CO: 081 PMT: 703
 Loc Digitized from OGIS 7.5' Mylar
 QUAD: 331 DATE: 25-MAY-90
 LAT: 37 50.0 Miles South: 0.92
 LONG: 81 17.5 Miles West : 0.99

MENT OF MINES (SIGNED) Roy James Capen
 R.P.E. 1986 I.L.S. _____



STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION



DATE 7 MARCH, 19 85
 OPERATOR'S WELL NO. 2A SOUTHERN LAND
 API WELL NO. _____

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

LOCATION: ELEVATION 1897.6 WATER SHED HARPER'S BRANCH
 DISTRICT CLEAR FORK 1 COUNTY RALEIGH
 QUADRANGLE ECCLES 7.5 15' 331 SE 036

SURFACE OWNER SOUTHERN LAND COMPANY ACREAGE 1069.159
 OIL & GAS ROYALTY OWNER SOUTHERN LAND CO. LEASE ACREAGE 1069.159
 LEASE NO. 48/044

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

SEP 03 1995

PLUG AND ABANDON _____ CLEAN OUT AND REPLUG _____
 TARGET FORMATION Big line ESTIMATED DEPTH 2546
 WELL OPERATOR PEAKS OPERATING COMPANY DESIGNATED AGENT TIMOTHY K. WILCOX
 ADDRESS 403 CHARLESTON NATIONAL PLAZA ADDRESS 403 CHARLESTON NATIONAL PLAZA
 CHARLESTON, WEST VIRGINIA 25301 CHARLESTON, WEST VIRGINIA 25301

6-6 unnamed (6) Slab Fork (249)

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

COUNTY NAME PERMIT



WR-35

Date October 3, 1985
Operator's Well No. #2-A
Farm Southern Lands
API No. 47 - 081 - 0703

State of West Virginia
DEPARTMENT OF ENERGY
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: 1897 Watershed Harper Branch
District: Clear Fork 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 Southern Lnad Co.
ADDRESS 1401 Kanawha Valley Building
MINERAL RIGHTS OWNER Southern Land Co.
ADDRESS 1401 Kanawha Valley Building
OIL AND GAS INSPECTOR FOR THIS WORK Rodney Dillon
ADDRESS Sophia, WV
PERMIT ISSUED August 23, 1985
DRILLING COMMENCED September 3, 1985
DRILLING COMPLETED September 10, 1985
IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED ON CN

Casing & Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft.
Size 20-16 Cond.			
13-10"		20	2 sacks
9 5/8		254.2	118 sacks
8 5/8			
7		952	195 sacks
5 1/2			
4 1/2		2502	145 sacks
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Big Lime Depth 2546 feet
Depth of completed well 2553 feet Rotary X / Cable Tools ___
Water strata depth: Fresh 150 feet; Salt ___ feet
Coal seam depths: 515 - 517 Is coal being mined in the area? No

OPEN FLOW DATA
Producing formation Ravencliff Pay zone depth 1374 - 1408 feet
Gas: Initial open flow 15 Mcf/d Oil: Initial open flow ___ Ebl/d
Final open flow 582 Mcf/d Final open flow ___ Ebl/d
Comingled RV & BL
Time of open flow between initial and final tests 4 hours
Static rock pressure 360 psig (surface measurement) after ___ hours shut in
(If applicable due to multiple completion--)
Second producing formation Big Lime Pay zone depth ___ feet
Gas: Initial open flow 7 Mcf/d Oil: Initial open flow ___ Ebl/d
Final open flow ___ Mcf/d Oil: Final open flow ___ Ebl/d
Time of open flow between initial and final tests ___ hours
Static rock pressure 490 psig (surface measurement) after 72 hours shut in

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

- 9/24 - perforated the Big Lime (2396-2430) with 32 holes - Dowell acidized with 1000 gallons 28% acid - 8000 gallons 15% HCL, 100 bbl's fresh water flush - total 316 bbl's total fluid - BDP 1400# - ATP 700# - ISIP 650# - after 15 minutes 450#
- 9/26 - perforated the Ravencliff as follows (1374-1408) with 30 holes - set Model N-1 plug at 1440' - treated with 75 Q Faom Frac - used 1000 gallons 15% HCL - 15,000 80/100 sand - 45,000 20/50 sand - 500,000 SCFN₂ - 282 bbl's total fluid - BDP - 2400# - ATP 2300# - ISIP 1800# - after 15 minutes 1600#

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	940	Water 30 gallons/minute at 150'
Sand			940	990	
Shale			990	1120	
Sand			1120	1155	
Shale			1155	1300	
Sand			1300	1325	
Shale			1325	1360	gas checks: 1428 - .015 2340 - .015 2553 - .021
Sand - Ravencliff			1360	1412	
Red Rock			1412	1470	
Shale			1470	2155	
Little Lime			2155	2218	
Pencil Cave			2218	2270	
Big Lime			2270	2553	
TD				2553	

DTD - 2553

LTD - 2550

(Attach separate sheets as necessary)

Peake Operating Company

Well Operator

By: Thomas S. Liberator

Date: October 3, 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."



1) Date: 8-7, 19 85
 2) Operator's Well No. Southern Lands #2A
 3) API Well No. 47-081-0703
 State _____ County _____ Permit _____

RECEIVED
AUG 7 1985

STATE OF WEST VIRGINIA

DEPARTMENT OF ENERGY, OIL AND GAS DIVISION

DIVISION OF OIL & GAS DEPARTMENT OF ENERGY
APPLICATION FOR A WELL WORK PERMIT

- 4) WELL TYPE: A Oil _____ / Gas X /
 B (If "Gas", Production X / Underground storage _____ / Deep _____ / Shallow X /)
- 5) LOCATION: Elevation: 1897 Watershed: HARDER BRANCH
 District: CLEAR FORK County: RALEIGH Quadrangle: ECLES 25
- 6) WELL OPERATOR PEAKE OPERATING 669 CODE: 37100 7) DESIGNATED AGENT TIMOTHY K. WILCOX
 Address 423 CNP Address SAME
CHARLSTON WV 25301
- 8) OIL & GAS INSPECTOR TO BE NOTIFIED 9) DRILLING CONTRACTOR:
 Name RODNEY DIXON Name UNKNOWN
 Address P.O. Box 30 Address _____
SEABRO WV 25917
- 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, BILL LIME (345)
- 12) Estimated depth of completed well, 2550 feet
 13) Approximate trata depths: Fresh, 50 feet; salt, 500 feet.
 14) Approximate coal seam depths: 572 Is coal being mined in the area? Yes _____ / No X
- 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	<u>18 3/4</u>	<u>H-40</u>	<u>48#</u>	<u>X</u>		<u>30</u>	<u>30</u>	<u>CTS</u>		Kinds
Fresh water										
Coal	<u>9 5/8</u>	<u>H-40</u>	<u>36#</u>	<u>X</u>		<u>250</u>	<u>250</u>	<u>CTS</u>		Sizes
Intermediate	<u>7</u>	<u>J-55</u>	<u>115#</u>	<u>X</u>		<u>930</u>	<u>930</u>	<u>150 SACKS</u>		<u>CTS by rule 15.05</u>
Production	<u>4 1/2</u>	<u>J-55</u>	<u>9.5#</u>	<u>X</u>			<u>2514</u>	<u>300 SACKS</u>		Depths set
Tubing										
Liners										Perforations: Top _____ Bottom _____

OFFICE USE ONLY
 DRILLING PERMIT

Permit number 47-081-0703 Date August 23 19 85

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 August 23, 1987 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond: <u>✓</u>	Agent: <u>ALB</u>	Plat: <u>MW</u>	Casing: <u>MW</u>	Fee: <u>4747</u>	WPCP: <u>✓</u>	S&E: <u>✓</u>	Other: _____
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NOTE: Keep one copy of this permit posted at the drilling location.

 Director, Division of Oil and Gas

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

