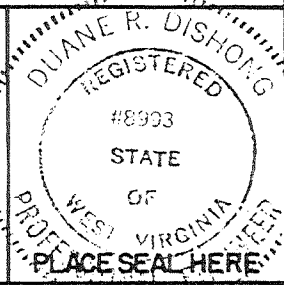


FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 1000'
 MINIMUM DEGREE OF ACCURACY 1/500
 PROVEN SOURCE OF ELEVATION INTERSECTION OF ROADS ELEV. 1064'

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) John R. Allen 7-13-96
 R.P.E. 8493 L.L.S. _____



WEST VIRGINIA
 DIVISION OF ENVIRONMENTAL PROTECTION
 OFFICE OF OIL AND GAS
 #10 McJUNKIN ROAD
 NITRO, WEST VIRGINIA 25143-2506



DATE JULY 8 1998
 OPERATOR'S WELL NO. 1893
 API WELL NO. _____
47 059 01281
 STATE COUNTY PERMIT

WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___
 (IF "GAS,") PRODUCTION ___ STORAGE ___ DEEP ___ SHALLOW X
 LOCATION: ELEVATION 1554' WATER SHED BROWNING FORK
 DISTRICT STAFFORD COUNTY MINGO
 QUADRANGLE MAN 7.5'
 SURFACE OWNER POCAHONTAS LAND CO. ACREAGE 3375.43
 OIL & GAS ROYALTY OWNER POCAHONTAS LAND CO. LEASE ACREAGE 3375.43 OF 38,753±
 LEASE NO. L-17459
 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 DEVONIAN SHALE ESTIMATED DEPTH 6000'
 WELL OPERATOR CARNEGIE NAT. GAS CO. DESIGNATED AGENT DOUGLAS NAY
 ADDRESS 800 REGIS AVE. ADDRESS 800 REGIS AVE.
PITTSBURGH, PA. 15236 PITTSBURGH, PA. 15236

DEEP WELL

G-6 265

MINGO 1281

WR-35

Office of Oil & Gas
UIC Section
APR 23 1999
WV Division of
Environmental Protection

DATE 14 - Aug - 98
API# 47 - 59 - 01281

State of West Virginia
Division of Environmental Protection
Section of Oil and Gas
Well Operator's Report of Well Work

Reviewed AK

FARM NAME Pocahontas Land Corp. OPERATOR WELL NO. PLC #1893
LOCATION: ELEVATION 1,554.00 QUADRANGLE MAN
DISTRICT: Strafford COUNTY Mingo
LATITUDE: 4000 Feet South of 37 Deg. 40 Min. 0 Sec.
LONGITUDE: 6820 Feet West of 81 Deg. 55 Min. 0 Sec.

COMPANY:	CARNEGIE NATURAL GAS CO. 800 REGIS AVENUE PITTSBURGH, PA 15236	CASING/ TUBING SIZE	USED IN DRILLING	LEFT IN WELL	CEMENT FILL UP CU. FT.
AGENT:	DOUGLAS R. NAY	9 5/8"	968'	968'	CTS
INSPECTOR:	Ofie Helmick	7"	2770'	2770'	150 SKS
PERMIT ISSUED:	8/17/98				
WELL WORK COMMENCED:	10/26/98	4 1/2"	5640"	5604'	150 SKS
WELL WORK COMPLETED:	12/3/98				
VERBAL PLUGGING PERMISSION GRANTED ON:					
ROTARY <input checked="" type="checkbox"/> CABLE <input type="checkbox"/>	<u> </u> RIG <u> </u>				
TOTAL DEPTH (FEET):					
FRESH WATER DEPTHS (FT):	<u>111'</u>				
SALT WATER DEPTHS (FT):	<u>1580'</u>				
IS COAL BEING MINED IN AREA (Y/N)	<u>Y</u>				
COAL DEPTHS (FT):	<u>81', 180', 519'</u>				

OPEN FLOW DATA

PRODUCING FORMATION Big Lime, Berea, Gordon PAY ZONE DEPTH (FT) See Treatment
 GAS INITIAL OPEN FLOW 60 MCF OIL INITIAL OPEN FLOW Bbl/d
 FINAL OPEN FLOW 310 MCF OIL FINAL OPEN FLOW Bbl/d
 TIME OF OPEN FLOW BETWEEN INITIAL AND FINAL TESTS HOURS
 STATIC ROCK PRESSURE 705 Psig (SURFACE PRESSURE) AFTER 72 HOURS

SECOND PRODUCING FORMATION Devonian Shale PAY ZONE DEPTH (FT) See Treatment
 GAS INITIAL OPEN FLOW 60 MCF OIL INITIAL OPEN FLOW Bbl/d
 FINAL OPEN FLOW 310 MCF OIL FINAL OPEN FLOW Bbl/d
 TIME OF OPEN FLOW BETWEEN INITIAL AND FINAL TESTS HOURS
 STATIC ROCK PRESSURE 705 psig (SURFACE PRESSURE) AFTER 72 HOURS

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 GEOLOGICAL RECORD OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE.

FOR: CARNEGIE PRODUCTION COMPANY
BY: Douglas R. Nay
DATE: 4/20/99

MAY 3 1999

MINGO 1281

WELL TREATMENT

1st Stage:
 Perforated Lower and Upper Huron (4693 – 5620) 94 shots, treated with 600 gal. 15% HCL, 1,090,000 SCF of N₂, BD 2053 psi, MTP 3312 psi, ATP 2297 psi @ 50,000 SCF/min N₂ rate, ISIP 2068 psi.

2nd Stage:
 Perforated Gordon (4033 – 4076) 16 shots, treated with 500 gal. 15% HCL, 550,000 SCF of N₂, BD 1863 psi, MTP 3832 psi, ATP 2661 psi @ 53,000 SCF/min N₂ rate, ISIP 3458 psi.

3rd Stage:
 Perforated Berea (3660 – 3676) 11 shots, treated with 500 gal. 15% HCL, 550,000 SCF of N₂, BD 2025 psi, MTP 3499 psi, ATP 2855 psi @ 53,000 SCF/min N₂ rate, ISIP 3216 psi.

4th Stage:
 Perforated Big Lime (3018 – 3034) 30 shots @ 2SPF, treated with 4000 gal. 15% HCL, foamed with 154,000 SCF of N₂, BD 1659 psi, MTP 1606 psi, ATP 800 psi @ 5 BPM rate acid & 2000 SCF/min N₂ rate, ISIP 1197 psi.

FORMATION	TOP (FT)	BOTTOM (FT)	
Sand, Shale & Red Rock	0	2445	
Maxton	2445	2551	
Sand and Shale	2551	2732	
Little Lime	2732	2769	Gas Checks:
Big Lime	2769	3063	
Sand & Shale	3063	3656	Gas @ 3508' 10/10 – 1" w/w
Berea	3656	3676	Gas @ 3729' 6/10 – 2" w/w
Sand & Shale	3676	3972	Gas @ 4719' 2/10 – 2" w/w
Gordon	3972	4078	Gas @ T.D. 5659' 2/10 – 2" w/w
Sand & Shale	4078	4696	
Upper Huron <i>lower</i>	4696	5068	
Sand & Shale	5068	5398	
Lower Huron <i>Rhinestreet</i>	5398	5620	
Onondaga Ls.	5620		
Driller' T.D.	5659		