

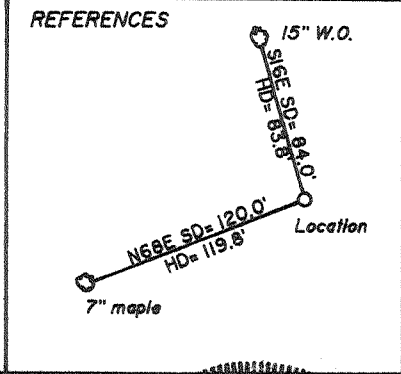
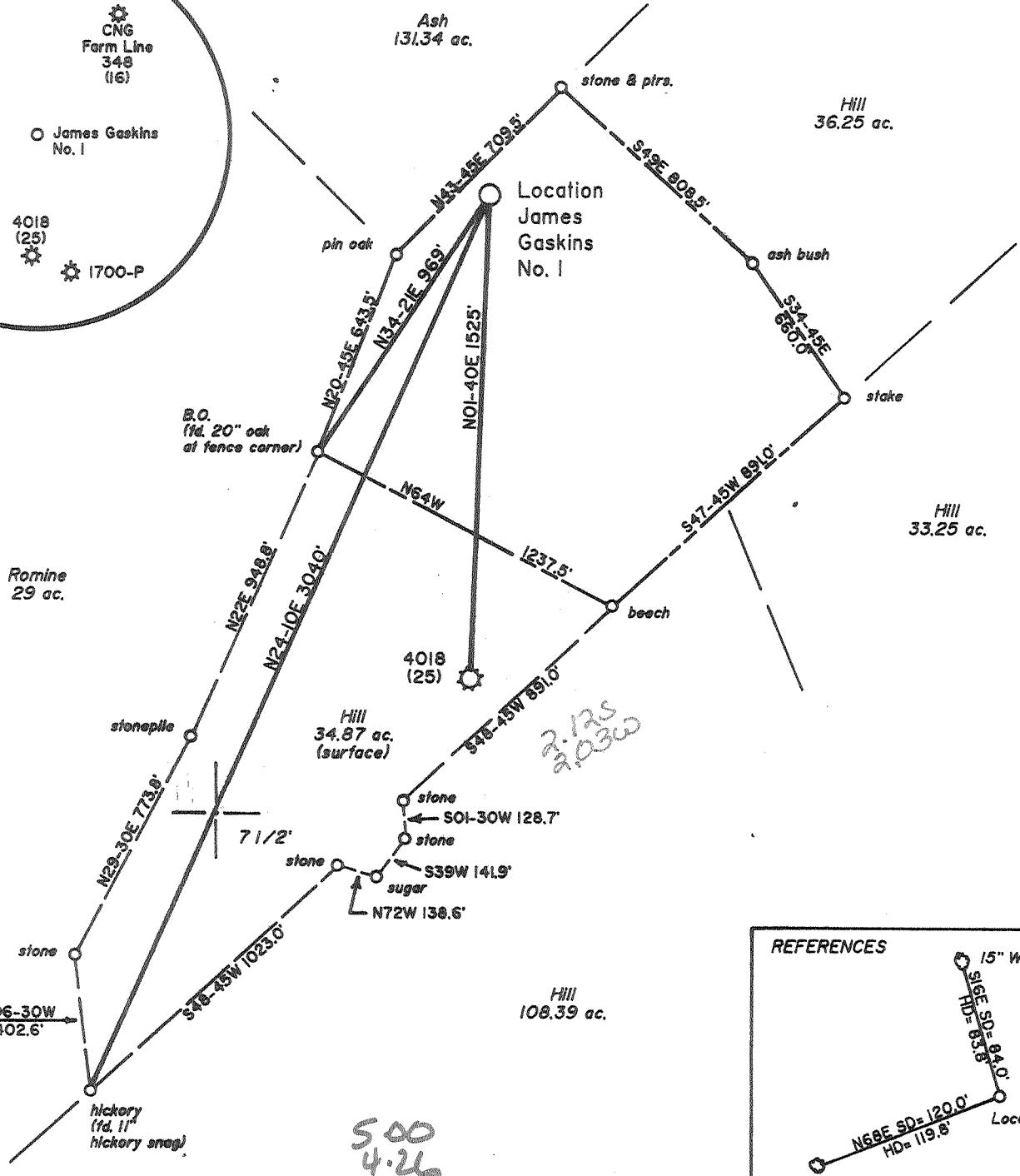
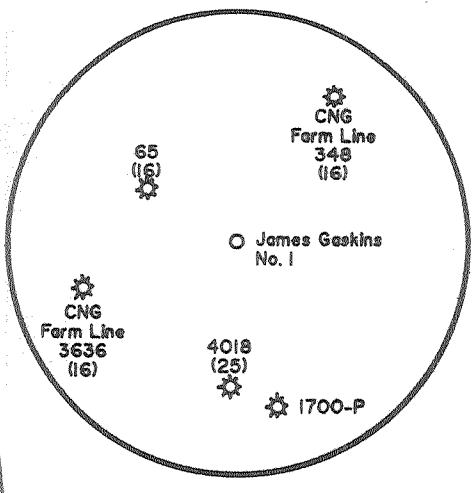
10,750

LATITUDE 39-22-30 N

LONGITUDE 80-37-30 W

0011

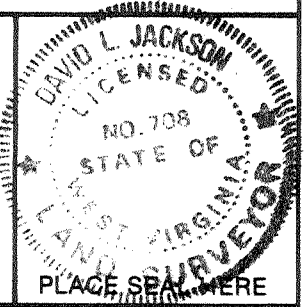
NORTH



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

FILE NO. _____
 DRAWING NO. _____ / _____
 SCALE 1" = 500'
 MINIMUM DEGREE OF ACCURACY 1 in 200
 PROVEN SOURCE OF ELEVATION Road junction 4,000'
South of Location: elev. 838'

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 ENERGY.
 (SIGNED) David L. Jackson
 R.P.E. _____ L.L.S. 708



STATE OF WEST VIRGINIA
 Division of Environmental Protection
 OFFICE OF OIL AND GAS



DATE September 2, 19 93
 OPERATOR'S WELL NO. James Gaskins No. 1
 API WELL NO. _____

WELL TYPE: OIL ___ GAS ___ LIQUID INJECTION ___ WASTE DISPOSAL ___
 (IF "GAS,") PRODUCTION ___ STORAGE ___ DEEP ___ SHALLOW ___
 LOCATION: ELEVATION 1275 WATER SHED Flint Run
 DISTRICT Grant COUNTY Doddridge
 QUADRANGLE Smithburg 7 1/2'
 SURFACE OWNER James A. Hill & Wilma Z. Hill ACREAGE 36.25
 OIL & GAS ROYALTY OWNER James M. Gaskins, et al LEASE ACREAGE 36.25
 LEASE NO. 460100

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 Benson ESTIMATED DEPTH 5000
 WELL OPERATOR Petroleum Development Corp. DESIGNATED AGENT Eric R. Stearns
 ADDRESS P.O. Box 26, Bridgeport, WV 26330 ADDRESS P.O. Box 26, Bridgeport, WV 26330

SEP 24 1993

6-6 Smithton-Flint-Sodalina (099)

COUNTY NAME PERMIT

State of West Virginia
Division of Environmental Protection
Section of Oil and Gas

Permits
Office of Oil & Gas

Well Operator's Report of Well Work

Farm name: HILL, JAMES & WILMA Operator Well No.: JAMES GASKINS#1

LOCATION: Elevation: 1,275.00 Quadrangle: SMITHBURG

District: GRANT County: DODDRIDGE
Latitude: 11100 Feet South of 39 Deg. 22Min. 30 Sec.
Longitude 10750 Feet West of 80 Deg. 37 Min. 30 Sec.

Company: PETROLEUM DEVELOPMENT COR
P. O. BOX 26
BRIDGEPORT, WV 26330-0026

Agent: ERIC R. STEARNS

Inspector: MIKE UNDERWOOD
Permit Issued: 09/24/93
Well work Commenced: 09/30/93
Well work Completed: 10/07/93
Verbal Plugging
Permission granted on: _____
Rotary x Cable _____ Rig
Total Depth (feet) 5435'
Fresh water depths (ft) _____
n/a
Salt water depths (ft) _____
n/a
Is coal being mined in area (Y/N)? N
Coal Depths (ft): 461-467; 594-600

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
11 3/4"	175'	175'	105 sks
8 5/8"	1773'	1773'	365 sks
4 1/2"	5383'	5383'	535 sks

OPEN FLOW DATA

Producing formation Benson Pay zone depth (ft) 5305-5306
Gas: Initial open flow 62 MCF/d Oil: Initial open flow 0 Bbl/d
Final open flow 296 MCF/d Final open flow 0 Bbl/d
Time of open flow between initial and final tests 4 Hours
Static rock Pressure 1000 psig (surface pressure) after 72 Hours

Second producing formation Gordon Pay zone depth (ft) 2956-2966
Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
Final open flow co-mingled MCF/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests _____ Hours
Static rock Pressure _____ psig (surface pressure) after _____ Hours

Third producing formation Big Injun Pay zone depth (ft) 2238-2296

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.

Eric R. Stearns

For: PETROLEUM DEVELOPMENT CORP.

By: Eric R. Stearns

Date: November 10, 1993

Reviewed TM6
Recorded _____

James Gaskins #1

STAGE	FORMATION	PERFS	80/100 SKS	20/40 SKS	ACID GAL	N2 (MCF)
ST	Benson	10 (5305' - 5306')	50	400	1000	56
nd	Gordon	13 (2956' - 2966')	50	400	1000	51
rd	Big Injun	15 (2238' - 2296')	50	700	1000	75

W E L L L O G

FORMATION	TOP FEET	BOTTOM FEET	REMARKS: FRESH & SALT WATER, COAL, OIL & GAS
B - GL	0	10	Coal 461' - 467'
and, shale, RR	10	1991	Coal 594' - 600'
axton	1991	2076	
and, shale	2076	2172	gas chk @ 2106' No Show
ig Lime	2172	2298	gas chk @ 2262' 4/10 -1" w/water
and, shale	2298	2301	
ig Injun	2301	2384	
and, shale	2384	2473	gas chk @ 2450' 2/10 -1" w/water
eir	2473	2609	gas chk @ 2606' 2/10 -1" w/water
and, shale	2609	2710	
erea	2710	2757	
and, shale	2757	2921	gas chk @ 2826' 2/10 -1" w/water
ordon	2921	2970	
and, shale	2970	3235	gas chk @ 3016' 2/10 -2" w/water
th	3235	3271	
and, shale	3271	3612	gas chk @ 3423' 20/10 -3/4" w/water
arren	3612	3718	
and, shale	3718	3835	
peechley	3835	4223	gas chk @ 4016' 18/10 -3/4" w/water
and, shale	4223	4290	
alltown	4290	4540	
and, shale	4540	4663	
radford	4663	4819	
and, shale	4819	5056	gas chk @ 5152' 4/10 -7" w/water
iley	5056	5219	gas chk @ 5308' 59/10 -1" w/water
and, shale	5219	5301	gas chk @ TD 42/10 -1" w/water
enson	5301	5341	gas chk @ Collars 35/10 -1" w/water
and, shale	5341	5435	Driller TD
		5444	Logger TD

DF - 424

DFT - 435

017-4047
 Issued 9/24/93
 Page ___ of ___
 Expires 9/24/95

FORM. WW-2 **2 3 93**

STATE OF WEST VIRGINIA
 DEPARTMENT OF ENERGY, DIVISION OF OIL AND GAS
 Office of Oil & Gas
WELL WORK PERMIT APPLICATION

17996

Well Operator: Petroleum Development Corporation 38200 (3) 611

Operator's Well Number: James Gaskins #1 3) Elevation: 1275'

Well type: (a) Oil ___ / or Gas^x /
 (b) If Gas: Production^x / Underground Storage ___ /
 Deep ___ / Shallow^x /

- 5) Proposed Target Formation(s): Benson Sand 435
- 6) Proposed Total Depth: 5500' feet
- 7) Approximate fresh water strata depths: 35', 550', 1620'
- 8) Approximate salt water depths: None reported
- 9) Approximate coal seam depths: 590'
- 10) Does land contain coal seams tributary to active mine? Yes ___ / No^x /
- 11) Proposed Well Work: Drill and stimulate new well
- 12)

CASING AND TUBING PROGRAM

TYPE	SPECIFICATIONS		FOOTAGE INTERVALS			CEMENT
	Size	Grade	Weight per ft.	For drilling	Left in well	Fill-up (cu. ft.)
Conductor	11 3/4	H-40	42#	150'	150'	surface
Fresh Water						O.K. Mil.
Coal						
Intermediate	8 5/8	H-40	20/23#	1820'	1820'	surface
Production	4 1/2	J-55	10.5#	5500'	5500'	450 sks
Tubing						
Liners						

PACKERS : Kind _____
 Sizes _____
 Depths set _____

For Division of Oil and Gas Use Only

006137
 19

Fee(s) paid: Well Work Permit Reclamation Fund WPCP
 Plat WW-9 WW-2B Bond CD Agent
 (Type)

received
WV Department of
Environmental Protection

2303

Permitting
Office of Oil & Gas

- 1) Date: September 9, 1993
- 2) Operator's well number James Gaskins #1
- 3) API Well No: 47 - 017 - 4047
State - County - Permit

STATE OF WEST VIRGINIA
DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS

NOTICE AND APPLICATION FOR A WELL WORK PERMIT

- 4) Surface Owner(s) to be served:
 - (a) Name James A. and Wilma Z. Hill
Address Rt. #2, Box 195
West Union, WV 26456
 - (b) Name _____
Address _____
 - (c) Name _____
Address _____
- 6) Inspector Mike Underwood
Address Rt. 2, Box 135
Salem, WV 25426
Telephone (304)- 782-1043

- 5) (a) Coal Operator:
 - Name _____
 - Address _____
- (b) Coal Owner(s) with Declaration
 - Name No Declaration of Coal on file.
 - Address _____
- (c) Coal Lessee with Declaration
 - Name _____
 - Address _____

TO THE PERSON(S) NAMED ABOVE TAKE NOTICE THAT:

_____ Included is the lease or leases or other continuing contract or contracts by which I hold the right to extract oil and gas OR
xxx Included is the information required by Chapter 22B, Article 1, Section 8(d) of the Code of West Virginia (see page 2)

I certify that as required under Chapter 22B of the West Virginia Code I have served copies of this notice and application, a location plat, and accompanying documents pages 1 through _____ on the above named parties, by:

- _____ Personal Service (Affidavit attached)
- _____ Certified Mail (Postmarked postal receipt attached)
- _____ Publication (Notice of Publication attached)

I have read and understand Chapter 22B and 38 CSR 11-18, and I agree to the terms and conditions of any permit issued under this application.

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete.

I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Well Operator PETROLEUM DEVELOPMENT CORPORATION
 By: [Signature]
 Its: Geologist
 Address P O Box 26
Bridgeport, WV 26330
 Telephone 304-842-6256

Subscribed and sworn before me this 17 day of September, 1993

My commission expires July 7, 2003

