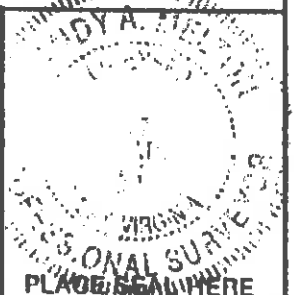


(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS

FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 1000'
 MINIMUM DEGREE OF ACCURACY 1/2600
 PROVEN SOURCE OF ELEVATION USCGS B.M.
 NO F-44 (955) E. - 1565

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) Randy A. Nelson
 R.P.E. _____ L.L.S. 765



STATE OF WEST VIRGINIA
 DEPARTMENT OF ENERGY
 OIL AND GAS DIVISION

DATE OCTOBER 22, 19 92
 OPERATOR'S WELL NO. 1403
 API WELL NO. 47-047-1178

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

LOCATION: ELEVATION 2146 WATERSHED PUNCHEONCAMP BRANCH OF BROWNS CREEK
 DISTRICT BROWNS CREEK COUNTY MCDOWELL
 QUADRANGLE WELCH, WV 7.5'

SURFACE OWNER CAPELS RESOURCES ACREAGE 867.2±
 OIL & GAS ROYALTY OWNER BERWIND LAND CORPORATION LEASE ACREAGE 7100
 LEASE NO. 2582

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 BIG LIME ESTIMATED DEPTH 3720
 WELL OPERATOR MERIDIAN EXPLORATION DESIGNATED AGENT C.T. CORPORATION
 ADDRESS 2800 GULF TOWER, PITTSBURG, PA 4742 ADDRESS 1200 CHARLESTON NATIONAL PLAZA
 CHARLESTON, WV 25301

6-6 Big Creek (267)

Division of Environmental Protection

APR 15 83

Permitting
Office of Oil & Gas

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

Well Operator's Report of Well Work

Farm Name: CAPLES RESOURCES, INC.

Operator Well No.: 1403

LOCATION: Elevation: 2141.60 Quadrangle: WELCH

District: BROWNS CREEK County: MCDOWELL
Latitude: 4500 Feet South of 37 Deg. 37 Min. 0 Sec.
Longitude 2680 Feet West of 81 Deg. 32 Min. 30 Sec.

Company: MERIDIAN EXPLORATION CORP.
707 GRANT ST.-2800 GULF TOWER
PITTSBURGH, PA 15219-0000

Agent: JOHN O. KIZER (C T CORP)

Inspector: OFIE HELMICK
Permit Issued: 11/12/92
Well work Commenced: 11/28/92
Well work Completed: 12/06/92
Verbal Plugging
Permission granted on:
Rotary X Cable _____ Rig
Total Depth (feet) DTD: 3712' LTD: 3724'
Fresh water depths (ft) N/A

Salt water depths (ft) 420'

Is coal being mined in area(Y/N)? N
Coal Depths (ft): 985'-990'

Casing & Tubing	Used in Drilling	in Well	Left Fill Up Cu. Ft.	Cement
Size				
11-3/4"	39'	39'		
7"	1166'	1166'	608	
4-1/2"	3656'	3656'	312'	

OPEN FLOW DATA

Producing formation Big Lime Pay zone depth (ft) 3225'-3600'
Gas: Initial open flow N/A MCF/d Oil: Initial open flow N/A Bbl/d
Final open flow N/A MCF/d Final open flow N/A Bbl/d
Time of open flow between initial and final tests N/A Hours
Static rock Pressure N/A psig (surface pressure) after N/A Hours

Second producing formation Middle Maxton Pay zone depth (ft) 2493'-2506'
Gas: Initial open flow 750 MCF/d Oil: Initial open flow _____ Bbl/d
Final open flow 750 MCF/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests 48 Hours
Static rock Pressure n/a psig (surface pressure) after _____ Hours

* ADDITIONAL FORMATION ON ATTACHED SHEET.

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.

Reviewed TMG
Recorded _____

For: Meridian Exploration Corp.

By: Karl C. Kimmich
Date: 4/13/93

PERFORATED INTERVALS

3594'-3600'
3556'-3562'
3543'-3550'
3225'-3235'
2493'-2506'
1834'-1848'

FIRST STAGE (Big Lime)

=====
Acid Treatment (3543'-3600')
BKDN 1020 PSI
AVE TRT 11.5 BPM @ 900 PSI
ISIP (FRAC) 440
SAND (20/40) N/A
H₂O (BBL) 172
N₂ (SCF) 33,000
ACID: 5,000 gal. 15% HCL

SECOND STAGE (Big Lime)

=====
Acid Treatment (3225'-3235')
BKDN 1460 PSI
AVE TRT 10.5 BPM @ 1330 PSI
ISIP (FRAC) 750
SAND (20/40) N/A
H₂O (BBL) 192
N₂ (SCF) 38,000
ACID: 5,000 gal. 15% HCL

=====
FORMATIONS TOPS BOTTOMS WATER AND GAS CHECKS
=====

0'-15' Alluvium
15'-405' Sand & Shale Interbedded
405'-440' Shale
440'-525' Siltstone
525'-690' Sand Some Shale
690'-770' Shale
770'-860' Sand
860'-970' Shale
970'-985' Sand
985'-990' Coal
990'-1060' Shale & Sand Interbedded
1060'-1105' Shale
1105'-1170' Sand
1170'-1315' Shale
1315'-1355' Sand
1355'-1820' Shale
1820'-1880' Ravencliff Sand
1880'-1935' Shale
1935'-1984' Avis Lime
1984'-2040' Shale
2040'-2080' Sand
2080'-2460' Shale Some Sand
2460'-2520' Maxton Sand
2520'-2780' Shale Some Sand
2780'-2810' Lime
2810'-2820' Shale
2820'-2870' Lower Maxton
2870'-2060' Shale
2060'-3020' Little Lime
3020'-3100' Shale
3100'-3650' Big Lime
3650'-3724' Shale Some Sand
3724' TD

H₂O @ 420' - 2 GPM

Gas Checks:
@ 1650' : NS
@ 2000' : NS
@ 2900' : Odor
@ 3250' : Odor
TD: 178 MCF

DF - 370
DFT - 345

OPEN FLOW DATA: (Continued)

Producing formation Ravencliff Pay zone depth (ft) 1834'-1848'
Gas: Initial open flow 311 MCF/d Oil: Initial open flow N/A Bbl/d
Final open flow 311 MCF/d Final open flow N/A Bbl/d
Time of open flow between initial and final tests 48 Hours
Static rock Pressure N/A psig (surface pressure) after N/A Hours

STAGES: (Continued)

THIRD STAGE (Middle Maxton)

=====

BKDN	2600 PSI
AVE TRT	20 BPM @ 3100 PSI
ISIP (FRAC)	1150
SAND (20/40)	42,000
H ₂ O (BBL)	239
N ₂ (SCF)	318,000

FOURTH STAGE (Ravencliff)

=====

BKDN	2860 PSI
AVE TRT	20 BPM @ 3050 PSI
ISIP (FRAC)	1700
SAND (20/40)	61,500
H ₂ O (BBL)	260
N ₂ (SCF)	397,000

APR 19 1993

14492

OCT 27 92

047-1178
Issued 11/12/92

Permitting STATE OF WEST VIRGINIA
DEPARTMENT OF ENERGY, DIVISION OF OIL AND GAS
WELL WORK PERMIT APPLICATION

Expires 11/12/94 Page of

- 1) Well Operator: Meridian Exploration Corporation 31805 (3) 664
- 2) Operator's Well Number: 1403 3) Elevation: 2141.59'
- 4) Well type: (a) Oil / or Gas /
(b) If Gas: Production / Underground Storage /
Deep / Shallow /
- 5) Proposed Target Formation(s): 345 Ravencliff, Big Lime
- 6) Proposed Total Depth: 3720 feet
- 7) Approximate fresh water strata depths: NA
- 8) Approximate salt water depths: NA
- 9) Approximate coal seam depths: 990', 1020'
- 10) Does land contain coal seams tributary to active mine? Yes / No /
- 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	
Conductor	11-3/4	LS	32	30	30	Driven
Fresh Water						385818113
Coal	8-5/8	LS	20	40	40	385818112 40' (10)
Intermediate	7	H-40	17	1160'	1160'	1160' (404)
Production	4-1/2	J-55	10.5	3720	3720	2120' (218)
Tubing						385818111
Liners						

PACKERS : Kind _____
Sizes _____
Depths set _____

For Division of Oil and Gas Use Only

7393 / 34

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

(Type)

Permitting
Office of Oil & Gas
OCT 27 1992

1) Date: October 26, 1992
2) Operator's well number
1403
3) API Well No: 47 - 047 - 1178
State - County - Permit

STATE OF WEST VIRGINIA
DEPARTMENT OF ENERGY, DIVISION OF OIL AND GAS
NOTICE AND APPLICATION FOR A WELL WORK PERMIT

- | | |
|---|--|
| <p>4) Surface Owner(s) to be served:
(a) Name <u>Caples Resources Inc.</u>
Address <u>1050 One Valley Square</u>
<u>Charleston, WV</u>
(b) Name _____
Address _____
(c) Name _____
Address _____</p> <p>6) Inspector <u>Ofie Helmick</u>
Address <u>P.O. Box 218</u>
<u>Fanrock, WV 24834</u>
Telephone <u>(304)-792-7075</u></p> | <p>5) (a) Coal Operator:
Name _____
Address _____
(b) Coal Owner(s) with Declaration
Name <u>Berwind Land Company</u>
Address <u>1050 One Valley Square</u>
<u>Charleston, WV</u>
Name _____
Address _____
(c) Coal Lessee with Declaration
Name <u>Shannon-Pocahontas Mining Co.</u>
Address <u>P. O. Box 443</u>
<u>Roderfield, WV 24881</u></p> |
|---|--|

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
 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 Meridian Exploration Corporation
By: Eric P. Linn
Its: Vice President
Address 707 Grant Street
Pittsburgh, PA 15219
Telephone 412-471-8181

Subscribed and sworn before me this 26th day of October, 1992

My commission expires _____

Deborah A. Luvelle
Notarial Seal
Deborah A. Luvelle, Notary Public
Pittsburgh, Allegheny County
My Commission Expires Jan. 22, 1996
Member, Pennsylvania Association of Notaries