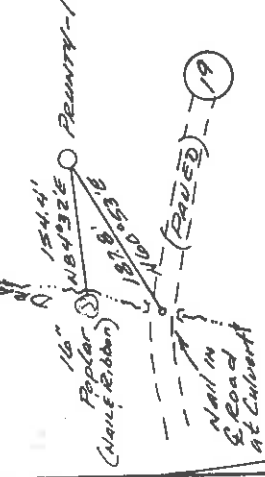
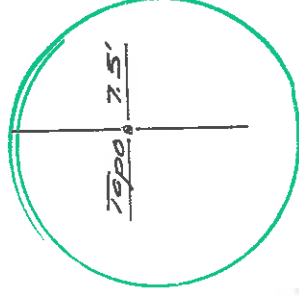


873 9/1/87

REF. POINTS  
1" = 200'



DONALD GEMM



LONGITUDE 80° 47' 30"

LATITUDE 39° 10' 00"

0.925  
2.990

0.925  
2.990



FRANKLIN ALLEMAN

EDWARD DALE PENNNTY

NORTH

JAMES G. BATHHOUSE

LOCATION PENNNTY-1

44.0 AC.

760° 53' 16"

158° 49' 14"

73° 21' 14"

65° 41'

585° 16'

1020'

2036-16

137° 11' 14"

100'

100'

100'

100'

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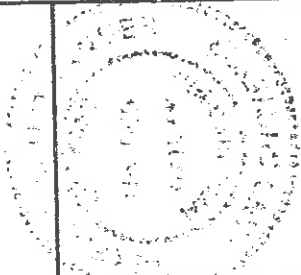
100'

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

FILE NO. 943  
 DRAWING NO. 87-1  
 SCALE 1" = 500'  
 MINIMUM DEGREE OF ACCURACY 1' in 200'  
 PROVEN SOURCE OF ELEVATION Spot Elev. - 851'  
at Child Cot Rd. & Rte. 19 intersection.

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) Edward Dale Pennty  
 R.P.E. L.L.S. 555  
Buckhannon WV

PLACE SEAL HERE



STATE OF WEST VIRGINIA  
 DEPARTMENT OF ENERGY  
 OIL AND GAS DIVISION



DATE 17 August, 19 87  
 OPERATOR'S WELL NO. PENNNTY-1  
 API WELL NO. 47 017

3585

COUNTY NAME

STATE WV COUNTY Putnam  
 WASTE DISPOSAL SHALLOW  
 STORAGE Middle Fork Hughes River  
 WATER SHED Dodgebridge  
 DISTRICT Southwest COUNTY Holbrook EC

QUADRANGLE Oxford ACREAGE 44  
 SURFACE OWNER Edward Dale Pennty  
 OIL & GAS ROYALTY OWNER Face & Jackson Leeson, Heirs LEASE ACREAGE 2800

LEASE NO. \_\_\_\_\_  
 PROPOSED WORK: DRILL  CONVERT  DRILL DEEPER  REDRILL  FRACTURE OR STIMULATE  PLUG OFF OLD FORMATION  PERFORATE NEW FORMATION  OTHER PHYSICAL CHANGE IN WELL (SPECIFY) \_\_\_\_\_

PERMIT

SEP 8 1987  
 TARGET FORMATION Devonian Shale ESTIMATED DEPTH 5250'  
 WELL OPERATOR MEET DEVELOPMENT, INC. DESIGNATED AGENT ROBERT J. KEDOSKY  
 ADDRESS Rt. 8, Box 336-AA 564 ADDRESS Rt. 8, Box 336-AA  
Fairmont, WV 26554

(133)

6-6 Address



WR-35

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JAN 06 1988

DIVISION OF OIL & GAS  
DEPARTMENT OF ENERGY

State of West Virginia  
DEPARTMENT OF ENERGY  
Oil and Gas Division

Date November 26, 1987-  
Operator's Prunty  
Well No. 1  
Farm Prunty  
API No. 47 - 017 - 3585

WELL OPERATOR'S REPORT  
OF  
DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

WELL TYPE: Oil X / Gas X / Liquid Injection / Waste Disposal /  
(If "Gas," Production / Undergrnd Storage / Deep / Shallow X /)

LOCATION: Elevation: 920 Watershed Middle Fork Hughes River  
District: Southwest County Doddridge Quadrangle Oxford

COMPANY MERT Development, Inc.  
ADDRESS Route 8 - Box 336-AA, Fairmont, W.Va.  
DESIGNATED AGENT R. J. Yedlosky  
ADDRESS 18-B336-AA, Fairmont, W.Va. 26554  
SURFACE OWNER E. Dale Prunty  
ADDRESS Shinnston, West Virginia  
MINERAL RIGHTS OWNER Leeson Heirs  
ADDRESS Various  
OIL AND GAS INSPECTOR FOR THIS WORK Mike Underwood  
ADDRESS ADDRESS Salem, West Virginia  
PERMIT ISSUED \_\_\_\_\_  
DRILLING COMMENCED October 9, 1987  
DRILLING COMPLETED October 23, 1987  
IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED  
ON \_\_\_\_\_

Casing Tubing Size	Used in Drilling in Well	Left in Well	Cement fill up Cu. ft.
20-16 Cond.			
13-10"	80'	80'	CTS
9 5/8			
8 5/8	770	770	165-Sx
7			
5 1/2	5234	5234	315 Sx-1st 205 Sx-2nd
4 1/2			
2 3/8"	4780	4780	Pkr @ 2900'
1"	1880	1880	
Liners used	NA		

GEOLOGICAL TARGET FORMATION Devonian Shale Depth 5258' feet  
Depth of completed well 5258' feet Rotary X / Cable Tools X  
Water strata depth: Fresh 30' feet; Salt 610' feet  
Coal seam depths: 690' Is coal being mined in the area? No

OPEN FLOW DATA  
Producing formation Devonian Shale Pay zone depth 2966' thru 5193' feet  
Gas: Initial open flow 78 Mcf/d Oil: Initial open flow -0- Bbl/d  
Final open flow 578 Mcf/d Final open flow 3 Bbl/d  
Time of open flow between initial and final tests 48 hours  
Static rock pressure 1232 psig (surface measurement) after 72 hours shut in  
(If applicable due to multiple completion--)  
Second producing formation Weir Injun Pay zone depth 1740-1921 feet  
Gas: Initial open flow 360 Mcf/d Oil: Initial open flow -0- Bbl/d  
Final open flow 173 Mcf/d Oil: Final open flow 2 Bbl/d  
Time of open flow between initial and final tests 48 hours  
Static rock pressure 350 psig (surface measurement) after 72 hours shut in

PDF for well  
751  
MCF  
+500

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

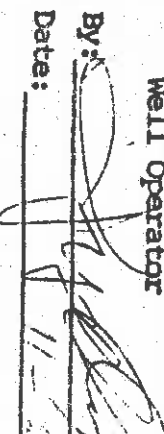
Date	Stage	Fracture Interval	Depth	Formation	Volume
11/6/87	3	Stage Frac:			
	1)	Alexander-EIK	4821-5165	Sand	181 bb1s
	2)	Benson	4455-4542	300 Sx	475M
11/9/87	3)	Bradford Shale	3708-4002	300 Sx	415M
	3	Stage Frac:			
	4)	Warren Spechley	2954-3081	300 Sx	395M
	5)	Weir	1894-1917	150 Sx	197M
	6)	Injun	1737-1744	300 Sx	86M
					425 bb1s

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
Red Rock & Sd Stks			0	80	
Sand			80	194	
Sand			194	319	
SD & Sh			319	510	Water @ 610'
Shale			510	765	
L. Dunkard			765	840	
Sdy Sh & RR			840	1160	
1st Salt			1160	1190	
Sdy Sh			1190	1338	
2nd Salt			1338	1582	Gas Test @ 1380' 10/10 Wtr 2"=133
Sdy Sh			1582	1610	Gas Test @ 1537' 80/10 Wtr 1"= 67
Big Lime			1610	1685	Gas Test @ 1629' 80/10 Wtr 1"= 67
Injun			1685	1748	
Weir			1748	1990	Gas Test @ 1779' 138/10 Wtr 1 1/2"=360
Sd & Sh			1990	2086	
Berea			2086	2335	
Gordon			2335	2402	Gas Test @ 2371' 40/10 Wtr 1 1/2"= 74
Sd & Sh			2402	2990	Gas Test @ 2896' 48/10 Wtr 1 1/2"= 81
Warren			2990	3025	Gas Test @ 3208' 44/10 Wtr 1 1/2"= 78
Balltown			3025	3095	Gas Test @ 4521' 38/10 Wtr 1 1/2"= 72
Sd & Sh			3095	5258	Gas Test @ 4646' 44/10 Wtr 1 1/2"= 78
			5258		Gas Test @ 5250' 44/10 Wtr 1 1/2"= 78
Electric Log Tops:			T.D.		
Little Lime			1560-1595		
Blue Monday			1610-1620		
Big Lime			1620-1684		
Injun			1684-1734		
Weir			1890-2010		
Berea			2086-2088		
Warren			2954-2985		
Spechley			3005-3110		
Bradford			3710-3758		
Benson & Stray			4454-4590		
Alexander			4776-4888		
EIK			5100-5200		

(Attach separate sheets as necessary)

MERT Development, Inc.  
Well Operator

By:   
Date: 11-19-87

DIVISION OF OIL & GAS  
DEPARTMENT OF ENERGY

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JAN 06 1988

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 well, encountered in the drilling of a well."

1) Date: SEPTEMBER 1, 1987  
 2) Operator's Well No. 3585 Permit  
 3) API Well No. 47 State 017 County



FORM WW-2 (B) FILE COPY  
 (Obtainable from the Department of Energy)  
 7/83  
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 SEP 01 1987

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

4) WELL TYPE: A Oil  Gas  Underground storage  Deep  Shallow   
 B (If "Gas", Production)  
 Elevation: 920' Watershed: MIDDLE FORK OF HUGHS RIVER  
 District: SOUTHWEST County: DODDRIDGE Quadrangle: OXFORD 525  
 CODE: 31950 7) DESIGNATED AGENT R.J. YEDLOSKY  
 Address RT-8 BOX 336-AA Address RT-8 BOX 336-AA  
FAIRMONT, WV 26554 FAIRMONT, WV 26554

8) OIL & GAS INSPECTOR TO BE NOTIFIED  
 Name MIKE UNDERWOOD 9) DRILLING CONTRACTOR:  
 Address SALEM, WV Name THE COASTAL CORPORATION  
FAIRMONT, WV 26554 Address P.O. BOX 4119  
SALEM, WV Address PARKERSBURG, WV 26104  
SALEM, WV  Stimulate

10) PROPOSED WELL WORK: Drill  / Drill deeper  / Redrill  / Plug off old formation  / Perforate new formation   
 Other physical change in well (specify) \_\_\_\_\_

11) GEOLOGICAL TARGET FORMATION, DEVONIAN-SHALE  
 12) Estimated depth of completed well, 5152 feet.  
 13) Approximate strata depths: Fresh, 30' 614' feet; salt, \_\_\_\_\_ feet. No    
 14) Approximate coal seam depths: 614' 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.			
Conductor	11-3/4"			For drilling: 60'	Left in well: 60'	Kinds: CTS Sizes: _____ Depths set: _____ Perforations: _____ Top: _____ Bottom: _____
Fresh water						
Coal						
Intermediate	8-5/8"	X		750'	750'	
Production	5 1/2"	X		5100'	5100'	
Tubing						
Line						

OFFICE USE ONLY  
 DRILLING PERMIT

Permit number 47-017-3585 Date September 1 19 87

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 1, 1989 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond: <input checked="" type="checkbox"/>	Agent: <input checked="" type="checkbox"/>	Fee: <u>5843</u>	Casing: <u>MA</u>	Other: <u>MPQP</u>
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[Signature]  
 Director, Division of Oil and Gas

NOTE: Keep one copy of this permit posted at the drilling location. See the reverse side of the APPLICANT'S COPY for instructions to the well operator. File

10755

