



NOTE: Lines of possession do not agree with original deed descriptions.



FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 200'
 MINIMUM DEGREE OF ACCURACY 1:200
 PROVEN SOURCE OF ELEVATION USGS BM 692'

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) [Signature]
 R.P.E. _____ L.L.S. 520

PLACE SEAL HERE

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS
 FORM IV-6 (8-78)



DATE OCTOBER 26, 19 82
 OPERATOR'S WELL NO. SANDY-EWING-ALTON #1
 API WELL NO. _____
47 - 107 - 1236
 STATE COUNTY PERMIT

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION

NOV 22 1982

WELL TYPE: OIL GAS LIQUID INJECTION _____ WASTE DISPOSAL _____
 (IF "GAS,") PRODUCTION STORAGE _____ DEEP _____ SHALLOW _____
 LOCATION: ELEVATION 713' WATER SHED STILLWELL CREEK
 DISTRICT UNION COUNTY WOOD
 QUADRANGLE KANAWHA (7.5) Elizabeth 15' NC
 SURFACE OWNER MERLE WEBB ACREAGE 3.5
 OIL & GAS ROYALTY OWNER DAVID L. WEGA LEASE ACREAGE 50
 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) _____

PLUG AND ABANDON _____ CLEAN OUT AND REPLUG _____
 TARGET FORMATION BENSON ESTIMATED DEPTH 5000'
 WELL OPERATOR Marietta Royalty Co. Inc. DESIGNATED AGENT J. ROBERT MULLENIX
 ADDRESS 225 PUTNAM ST. MARIETTA, OHIO 45750 ADDRESS 3902 1ST Ave. VIENNA, W.VA. 26105

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AUG 29 1983

OIL & GAS DIVISION
DEPT. OF MINES



State of West Virginia
Department of Mines
Oil and Gas Division

Date August 26, 1983
Operator's Well No. One
Farm Sandy-Ewing-Alton
API No. 47-107-1236

SEP 12 1983

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 / Underground Storage / Deep / Shallow /)

LOCATION: Elevation: 713 Watershed Stillwell Creek
District: Union County Wood Quadrangle Kanawha

COMPANY Marietta Royalty Co., Inc.
ADDRESS 225 Putnam St., Marietta, OH 45750
DESIGNATED AGENT Mark C. Dobbins
ADDRESS 114 1/2 E. 4th St., Williamstown, W. Va. 26180
SURFACE OWNER Merle Webb
ADDRESS Rt. #2, Walker, W. Va. 26180
MINERAL RIGHTS OWNER David Webb
ADDRESS 104 Woodview Dr., Williamstown, W.Va.
OIL AND GAS INSPECTOR FOR THIS WORK Samuel Hershman
P. O. Box 66
ADDRESS Smithville, W.Va. 26178

PERMIT ISSUED November 17, 1982
DRILLING COMMENCED December 1, 1982
DRILLING COMPLETED January 24, 1983
IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED ON

Casing & Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft.
Size 20-16 Cond.			
13-10"		300'	To Surface 75 Sks.
9 5/8			
8 5/8	996'		
7	1705'		
5 1/2			
4 1/2		2618'	100 Sks.
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Devonian Shale - Benson Depth 5000' feet
Depth of completed well 2665' feet Rotary / Cable Tools X
Water strata depth: Fresh 95' feet; Salt 1555' feet
Coal seam depths: None Is coal being mined in the area? No

OPEN FLOW DATA
Producing formation Berea Pay zone depth 2095' feet
Gas: Initial open flow Trace Mcf/d Oil: Initial open flow Trace Bbl/d
Final open flow 10 Mcf/d Final open flow 3 Bbl/d
Time of open flow between initial and final tests 48 hours
Static rock pressure 300 psig (surface measurement) after 24 hours shut in
(If applicable due to multiple completion--)
Second producing formation Pay zone depth feet
Gas: Initial open flow Mcf/d Oil: Initial open flow Bbl/d
Final open flow Mcf/d Oil: Final open flow Bbl/d
Time of open flow between initial and final tests hours
Static rock pressure psig (surface measurement) after hours shut in

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

Plug Set @ 2200'
 Perforations: 12 Total, Top @ 2090, Bottom 2096
 Fracturing: 400 Cwt 20/50 Sand, 400 Cwt 20/40 Sand, 10# J297
 300 Gal. MSR 15% HCL, 15 Gal. U42, 10,000 Gal. J811,
 10,500 Gal J810, 3400 SCF N2

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
					Including indication of all fresh and salt water, coal, oil and gas
Top Soil	Red	S	0	1	
Rock	Blue	H	1	20	
Slate	Grey	M	20	30	
Red Rock	Red	S	30	55	
Lime	Wht	H	55	65	
Red Rock	Red	S	65	73	
Slate	Blue	M	73	80	
Red Rock	Red	S	80	88	
Slate	Grey	M	88	95	
Lime	Wht	H	95	105	Water
Slate	Blue	M	105	110	
Red Rock	Red	S	110	115	
Sand	Grey	H	115	124	
Slate	Blue	M	124	135	
Red Rock	Red	S	135	145	
Lime	Red	H	145	165	
Slate	Grey	S	165	175	
Red Rock	Red	S	175	190	
Slate	Grey	M	190	210	
Lime	Wht	H	210	220	
Slate	Blue	M	220	230	
Slate	Grey	S	230	237	
Lime	Wht	H	237	247	
Red Rock	Red	S	247	255	
Slate	Grey	S	255	265	
Lime	Red	H	265	285	
Slate	Blue	M	285	301	
Sand	Brn	H	301	307	
Lime	Wht	H	307	318	
Red Rock	Red	M	318	325	
Lime	Wht	H	325	345	
Pink Rock	Pink	M	345	370	
Limey/Slate	Grey	M	370	405	
Red Rock	Red	M	405	442	
Limey/Slate	Grey	M	442	450	
Lime	Blue	H	450	465	
Slate	Grey	S	465	485	

(Attach separate sheets as necessary)

Marietta Royalty Co., Inc.

Well Operator

By:

Calvin Cray

Date:

AUG 26 1983

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."

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

107-1236, Pg. 2

SEP 12 1983

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
					Including indication of all fresh and salt water, coal, oil and gas
Red Rock	Red	S	485	506	
Slate	Grey	M	506	540	
Red Rock	Red	M	540	550	
Slate	Grey	S	550	560	
Sand	Wht	H	560	588	
Slate	Grey	S	588	610	
Red Rock	Red	S	610	675	
Slate/Shells	Grey	M	675	740	
Slate	Blk	S	740	750	
Slate	Grey	S	750	760	
Red Rock	Red	S	760	780	
Slate/Shells	Grey	M	780	805	
Slate/Shells	Blk	M	805	815	
Sand	Wht	H	815	825	
Slate/Shells	Grey	M	825	850	
Sand	Wht	H	850	865	
Slate	Grey	S	865	880	
Slate/Shells	Blk	H	880	900	
Pink Rock	Pink	S	900	910	
Slate/Shells	Grey	M	910	925	
Sand - Moundsville	Wht	H	925	950	Oil Show
Slate	Grey	S	950	960	
Sand	Brn	H	960	970	
Slate	Grey	M	970	980	
Sand - 1st Cow Run	Wht	H	980	1025	
Slate/Shells	Grey	M	1025	1035	
Sand - 2nd Cow Run	Wht	H	1035	1085	Oil & Gas Show
Shale	Grey	M	1085	1120	
Slate/Shells	Blk	M	1120	1135	
Sand - 1st Salt	Wht	H	1135	1145	
Slate	Grey	M	1145	1185	
Sand - 2nd Salt	Wht	H	1185	1225	Gas Show
Slate/Shells	Blk	M	1225	1250	
Sand - 3rd Salt	Wht	H	1250	1290	Oil Show
Slate/Shells	Grey	S	1290	1305	
Slate	Blk	S	1305	1310	
Sand - 4th Salt	Wht	H	1310	1325	

over

(Attach separate sheets as necessary)

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 ..., encountered in the drilling of a well."

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

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
					Including indication of all fresh and salt water, coal, oil and gas
Slate/Shells	Blk	M	1325	1345	
Sand - <i>Maxton</i>	Wht	H	1345	1470	
Slate/Shells	Blk	M	1470	1480	
Sand - <i>Keener</i>	Wht	H	1480	1548	
Slate	Blk	M	1548	1555	
Sand - <i>Injun</i>	Wht	H	1555	1615	Salt Water
Slate/Shells	Grey	M	1615	1625	
Sand - <i>Squaw</i>	Wht	H	1625	1635	
Lime/Sand	Wht	H	1635	1690	
Lime/Slate	Grey	M	1690	1705	
Slate/Shells	Grey	M	1705	1810	
Gritty Shale	Grey	M	1810	1830	
Slate/Shells	Grey	M	1830	1845	
Gritty Shale	Grey	H	1845	1900	
Shale	Grey	M	1900	2075	
Coffee Shale	Bra	M	2075	2095	
Berea Sand	Grey	M	2095	2105	Oil & Gas Show
Gritty Shale	Grey	M	2105	2200	
Sand/Shale - <i>Gantz</i>	Grey	H	2200	2235	
Lime	Grey	H	2235	2245	
Shale/Shells	Grey	M	2245	2310	
Limey Shale	Grey	H	2310	2320	
Shale/Shells	Grey	M	2320	2450	
Gritty Shale - <i>Gordon</i>	Grey	H	2450	2520	Oil Show
Shale/Shells	Grey	M	2520	2665	T. D.

(Attach separate sheets as necessary)

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: October 28, 19 82
 2) Operator's Well No. Sandy-Swine-Alton #1
 3) API Well No. 47 107 1236
 State _____ County _____ Permit _____

DRILLING CONTRACTOR:

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES, OIL AND GAS DIVISION

OIL AND GAS WELL PERMIT APPLICATION

- 4) WELL TYPE: A Oil _____ / Gas _____
 B (If "Gas", Production _____ / Underground storage _____ / Deep _____ / Shallow _____)
- 5) LOCATION: Elevation: _____ Watershed: _____
 District: _____ County: _____ Quadrangle: _____
- 6) WELL OPERATOR _____ Address _____
 11) DESIGNATED AGENT _____ Address _____
- 7) OIL & GAS ROYALTY OWNER _____ Address _____
 12) COAL OPERATOR _____ Address _____
- 8) SURFACE OWNER _____ Address _____
 13) COAL OWNER(S) WITH DECLARATION ON RECORD:
 Name _____ Address _____
 Name _____ Address _____
- 9) FIELD SALE (IF MADE) TO: _____ Address _____
 14) COAL LESSEE WITH DECLARATION ON RECORD:
 Name _____ Address _____
- 10) OIL & GAS INSPECTOR TO BE NOTIFIED
 Name _____ Address _____
- 15) PROPOSED WORK: Drill _____ / Drill deeper _____ / Redrill _____ / Fracture or stimulate _____
 Plug off old formation _____ / Perforate new formation _____
 Other physical change in well (specify) _____
- 16) GEOLOGICAL TARGET FORMATION, _____
- 17) Estimated depth of completed well, _____ feet
- 18) Approximate water strata depths: Fresh, _____ feet; salt, _____ feet.
- 19) Approximate coal seam depths: _____ Is coal being mined in the area? Yes _____ / No _____

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 OIL & GAS DIVISION
 DEPT. OF MINES

20) 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									Kinds	
Fresh water									Sizes	
Coal									Depths set	
Intermediate									Perforations:	
Production									Top Bottom	
Tubing										
Liners										

- 21) EXTRACTION RIGHTS
 Check and provide one of the following:
 Included is the lease or leases or other continuing contract or contracts by which I hold the right to extract oil or gas.
 The requirement of Code 22-4-1-(c) (1) through (4). (See reverse side for specifics.)
- 22) ROYALTY PROVISIONS
 Is the right to extract, produce or market the oil or gas based upon a lease or other continuing contract or contracts providing for flat well royalty or any similar provision for compensation to the owner of the oil or gas in place which is not inherently related to the volume of oil or gas so extracted, produced or marketed? Yes No
- If the answer above is No, nothing additional is needed. If the answer is Yes, you may use Affidavit Form IV-60.
- 23) Required Copies (See reverse side.)
- 24) Copies of this Permit Application and the enclosed plat and reclamation plan have been mailed by registered mail or delivered by hand to the above named coal operator, coal owner(s), and coal lessee on or before the day of the mailing or delivery of this Permit Application to the Department of Mines at Charleston, West Virginia.

Notary: _____ Signed: _____
 My Commission Expires _____ Its: _____

OFFICE USE ONLY
 DRILLING PERMIT

Permit number: 47-007-1236 Date: November 17, 1982

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. 10) 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.)

Permit expires 10/27/88 unless drilling is commenced prior to that date and prosecuted with due diligence.

Bond:	Agent:	Plat:	Casing	Fee
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Administrator, Office of Oil and Gas