

Janie 9/16/89

3600'

LATITUDE 38°42'30"

LONGITUDE 82°07'30"

JUNIOR F. POWELL
D.B. 243 P 56

LASSEN FOUNDATION
DB 244 P 557

JUNIOR F. POWELL
D.B. 243 - P 56

DB 236 P 465

EUGENE
SLAYTON

BURL DUNCAN

Loc 1970

LOC 1980

JUNIOR F. POWELL
D.B. 199 P 546

N 76°02' W
2121'

LOC 1981

S 74°10' W
604.86'

Fen. Cor

NORTH
268

Crossing

C.E. KINNAIRD
DB 270
P 241

S 26°52' W
1994'

N 52°45' W
359'

Fen. Cor.

CH. LOT

Fen. Cor.

Fen. Cor.

N 14°56' E
474'

Fen. Cor.

N 89°30' E
24'

Fen. Cor.

N 89°30' E
24'

Fen. Cor.

N 89°30' E
24'

Fen. Cor.

N 89°30' E
24'

Fen. Cor.

N 89°30' E
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N 89°30' E
24'

Fen. Cor.

N 89°30' E
24'

Fen. Cor.

N 89°30' E
24'

Fen. Cor.

WELL 1918
MASON 0307

FILE NO. BK 81 P 39
DRAWING NO. _____
SCALE 1" = 500'
MINIMUM DEGREE OF
ACCURACY 1:200'
PROVEN SOURCE OF
ELEVATION Road Forks 850'
S.E. LOC. EL. 610.00'

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 REGU-
LATIONS ISSUED AND PRESCRIBED BY THE DEPART-
MENT OF MINES.
(SIGNED) C. S. Valley Jr.
R.P.E. _____ L.S. 92

PLACE SEAL HERE

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



DATE NOV 29, 1983
OPERATOR'S WELL NO. 1981 (2)
API WELL NO. _____
47-053-0324-P
STATE COUNTY PERMIT

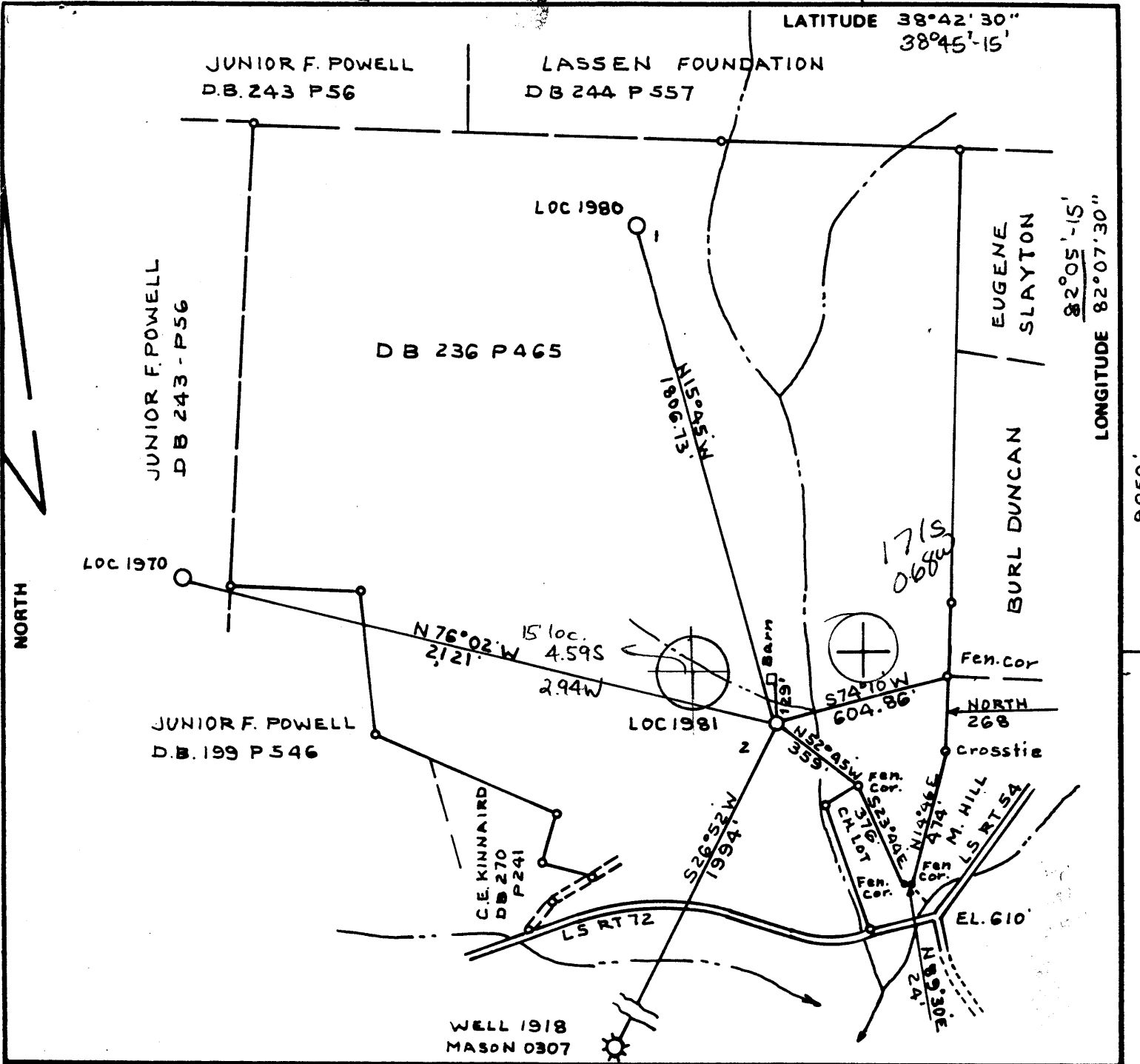
STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___
(IF "GAS,") PRODUCTION X STORAGE ___ DEEP ___ SHALLOW X
LOCATION: ELEVATION 616.25' WATER SHED MILLSTONE CREEK
DISTRICT CLENDENIN COUNTY MASON
QUADRANGLE APPLE GROVE 7.5'
SURFACE OWNER MARLIN PRICE ACREAGE 126
OIL & GAS ROYALTY OWNER DELLA HONAKER, ETAL LEASE ACREAGE 126
LEASE NO. C-2-174
PROPOSED WORK: DRILL X CONVERT ___ DRILL DEEPER ___ REDRILL ___ FRACTURE OR
STIMULATE X PLUG OFF OLD FORMATION ___ PERFORATE NEW
FORMATION ___ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____

SEP 23 1988

PLUG AND ABANDON ___ CLEAN OUT AND REPLUG ___
TARGET FORMATION DEVONIAN SHALE ESTIMATED DEPTH 3000
WELL OPERATOR EQUITABLE RESOURCES DESIGNATED AGENT Douglas P. Terry
ADDRESS P.O. DRAWER 40 ADDRESS P.O. DRAWER 40
BUCKHANNON WVA 26201 BUCKHANNON WVA 26201

MASON 324



FILE NO. BK 81 P 39
 DRAWING NO. _____
 SCALE 1" = 500'
 MINIMUM DEGREE OF ACCURACY 1:200'
 PROVEN SOURCE OF ELEVATION Road Forks 850' S.E. Loc. EL. 610.00'

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) C. S. Valley Jr.
 R.P.E. W.S. 192

PLACE SEAL HERE

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



DATE NOV 29, 1983
 OPERATOR'S WELL NO. 1981 (2)
 API WELL NO. _____
47-053-0324
 STATE COUNTY PERMIT

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION

WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___
 (IF "GAS,") PRODUCTION X STORAGE ___ DEEP ___ SHALLOW X
 LOCATION: ELEVATION 616.25' WATER SHED MILLSTONE CREEK
 DISTRICT CLENDENIN COUNTY MASON
 QUADRANGLE APPLE GROVE 7.5' Glenwood 15' NC
 SURFACE OWNER MARLIN PRICE ACREAGE 126
 OIL & GAS ROYALTY OWNER DELLA HONAKER, ETAL LEASE ACREAGE 126
 LEASE NO. C-2-174
 PROPOSED WORK: DRILL X CONVERT ___ DRILL DEEPER ___ REDRILL ___ FRACTURE OR STIMULATE X 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 3000
 WELL OPERATOR UNION DRILLING DESIGNATED AGENT JOSEPH VANZANT
 ADDRESS P.O. DRAWER 40 ADDRESS P.O. DRAWER 40
BUCKHANNON WVA 26201 BUCKHANNON WVA 26201

JAN 3 1984

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APR 26 1984



IV-35 (Rev 8-81)

OIL & GAS DIVISION DEPT. OF MINES

State of West Virginia

Department of Mines Oil and Gas Division

Date April 25, 1984

Operator's

Well No. 2 - 1981

Farm Delia Honaker #2

API No. 47 - 053 - 0324

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

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

LOCATION: Elevation: 616' Watershed Millstone Creek District: clendenin County Mason Quadrangle Apple Grove

COMPANY UNION DRILLING, INC. ADDRESS P.O. Drawer 40, Buckhannon, WV 26201 DESIGNATED AGENT Joseph C. Vanzant, Jr. ADDRESS P.O. Drawer 40, Buckhannon, WV 26201 SURFACE OWNER Marlin Price ADDRESS Apple, Grove, WV 25502 MINERAL RIGHTS OWNER Same ADDRESS OIL AND GAS INSPECTOR FOR THIS WORK Jerry Tephapoc ADDRESS RT. 1, Box 101-A, Ripley, WV PERMIT ISSUED 12/29/83 25271 DRILLING COMMENCED 3/24/84 DRILLING COMPLETED 3/29/84

Table with 4 columns: Casing & Tubing Size, Used in Drilling, Left in Well, Cement fill up Cu. ft. Rows include sizes 20-16 Cord., 13-10", 9 5/8, 8 5/8, 7, 5 1/2, 4 1/2, 3, 2, and Liners used.

IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED ON

GEOLOGICAL TARGET FORMATION Lower Huron Depth 3000' feet Depth of completed well 3377' feet Rotary X / Cable Tools Water strata depth: Fresh 120, 337' feet; Salt 1074, 1218', 1447' Coal seam depths: 117/120 818/823 Is coal being mined in the area? no

OPEN FLOW DATA Producing formation Huron Pay zone depth 3173' feet Gas: Initial open flow show Mcf/d Oil: Initial open flow Bbl/d Final open flow 146 Mcf/d Oil: Final open flow Bbl/d Time of open flow between initial and final tests 6 days hours Static rock pressure not taken psig (surface measurement) after hours shut in (If applicable due to multiple completion--)

(Continue on reverse side)

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

Halliburton - 1 stage Foam Frac - 4/18/84

2790/3173 - Huron - 60,000# 20/40 sand, 232 Bbls water and 1,001,000 scf nitrogen

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
Sand & Shale			0	49	
Red Rock			49	53	
Sand & Shale			53	117	
Coal			117	120	3/4" stream water @120'
Sand & Shale			120	818	1 1/2" stream water @337'
Coal			818	823	1" stream water @1074'
Sand & Shale			823	1321	2" stream water @1218'
Big Lime			1321	1419	
Sand & Shale			1419	1447	2" stream water @1447'
Injun			1447	1634	
Sand & Shale			1634	1901	
Berea			1901	1930	
Upper Huron			2788	2804	
Lower Huron			2842	3179	
				3377'	T.D. gas show

from GP log of 204-12

840' of 204

(Attach separate sheets as necessary)

UNION DRILLING, INC.

Well Operator

By: Joseph C. Pettey

Date: Joseph C. Pettey, Vice President of Production

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."



1) Date: December 8, 19 83
 2) Operator's Well No. 1981 (2)
 3) API Well No. 47 - 053 - 0324
 State _____ County _____ Permit _____

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

APPLICATION FOR A WELL WORK PERMIT

- 4) WELL TYPE: A Oil _____ / Gas X /
 B (If "Gas", Production X / Underground storage _____ / Deep _____ / Shallow X /)
- 5) LOCATION: Elevation: 616.25' Watershed: Millstone Creek
 District: Clendenin County: Mason Quadrangle: Apple Grove
- 6) WELL OPERATOR Union Drilling, Inc. 7) DESIGNATED AGENT Joseph C. Vanzant, Jr.
 Address Post Office Drawer 40 Address Post Office Drawer 40
Buckhannon, WV 26201 Buckhannon, WV 26201
- 8) OIL & GAS INSPECTOR TO BE NOTIFIED 9) DRILLING CONTRACTOR:
 Name Jerry Tephabock Name Union Drilling, Inc.
 Address Route 1, Box 101-A Address Post Office Drawer 40
Ripley, WV 25271 Buckhannon, WV 26201
- 10) PROPOSED WELL WORK: Drill X / Drill deeper _____ / Redrill _____ / Stimulate X /
 Plug off old formation _____ / Perforate new formation _____
 Other physical change in well (specify) _____
- 11) GEOLOGICAL TARGET FORMATION, Devonian Shale LOWER HURON
- 12) Estimated depth of completed well, 3000 feet
- 13) Approximate trata depths: Fresh, ? feet; salt, ? feet.
- 14) Approximate coal seam depths: ? Is coal being mined in the area? Yes _____ / No X
- 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.	New	Used	For drilling	Left in well		
Conductor	11-3/4		32		X	30'	30'		Kinds
Fresh water									
Coal									Sizes
Intermediate	9-5/8		23		X	1000' B16	1000' B16	210 sacks	CTS BY RULE 15-05 DEPT. OF MINES
Production	4-1/2	J	10 1/2	X		3000'	3000'	640 sacks	
Tubing									Depths set
Liners									PERAS REG. BY RULE 15-01
									Perforations:
									Top Bottom

OFFICE USE ONLY
DRILLING PERMIT

Permit number 47-053-0324

Date December 29, 19 83

Date

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 December 29, 1985 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond:	Agent: <u>ls</u>	Plat: <u>MH</u>	Casing: <u>MH</u>	Fee: <u>593</u>
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Margaret J. Hassel
 Administrator, Office 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

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JAN 09 1989

STATE OF WEST VIRGINIA
DEPARTMENT OF ENERGY
DIVISION OF OIL AND GAS

REVISED

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

AFFIDAVIT OF PLUGGING AND FILLING WELL

AFFIDAVITE SHOULD BE IN TRIPLICATE, one copy mailed to the Division, one copy to be retained by the Well Operator and the third copy (and extra copies if required) should be mailed to each coal operator at their respective addresses.

Farm name: PRICE, MARLIN & PHYLLIS Operator Well No.:1981-2

LOCATION: Elevation: 616.00 Quadrangle: APPLE GROVE
District: CLENDENIN County: MASON
Latitude: 9050 Feet South of 38 Deg. 42 Min. 30 Sec.
Longitude 3600 Feet West of 82 Deg. 7 Min. 30 Sec.

Company: Equitable Resources Exploration, Inc Coal Operator Marlin and/or Phyllis Price
P. O. Drawer 40 or Owner Apple Grove, WV 25502
Buckhannon, WV 26201

Agent: Douglas P. Terry Coal Operator _____
Inspector: Jerry Tephabock or Owner _____
Permit Issued: 09/23/88

AFFIDAVIT

STATE OF WEST VIRGINIA,
County of Upshur ss:

Larry Grubb and Phillip Pulliam being first duly sworn according to law depose and say that they are experienced in the work of plugging and filling oil and gas wells and were employed by Equitable Resources Exploration, Inc., well operator, and participated in the work of plugging and filling the above well, that said work was commenced on the 14 day of December, 1988, and that the well was plugged and filled in the following manner:

TYPE	FROM	TO	PIPE REMOVED	LEFT
6 1/2 gal 24 bbl	TD	3173	1790 (4 1/2)	1507 (4 1/2)
Cement 38 sks	3173	2750		
6 1/2 gal 43.6 bbl	2750	1768		732 (7")
Cement 35 sks	1768	1600		
6 1/2 gal 24.5 bbl	1600	1250		
Cement 37 sks	1250	1150		
6 1/2 gal 17.4 bbl	1150	900		
Cement 37 sks	900	800		848 (9 5/8)
6 1/2 gal 12 bbl	800	100		
Cement 37 sks	100	0		

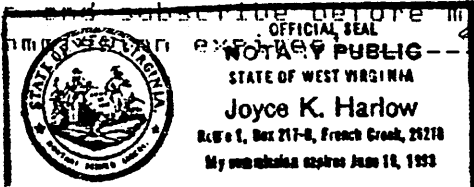
Description of monument: 7" pipe three feet above ground with API number

and that the work of plugging and filling said well was completed on the 14 day of December, 1988.

And further deponents saith not.

Larry Grubb
Phillip Pulliam
Joyce K. Harlow
Notary Public

Sworn and subscribe before me this 22 day of December, 1988



JAN 23 1989