

Plot Card CSZ

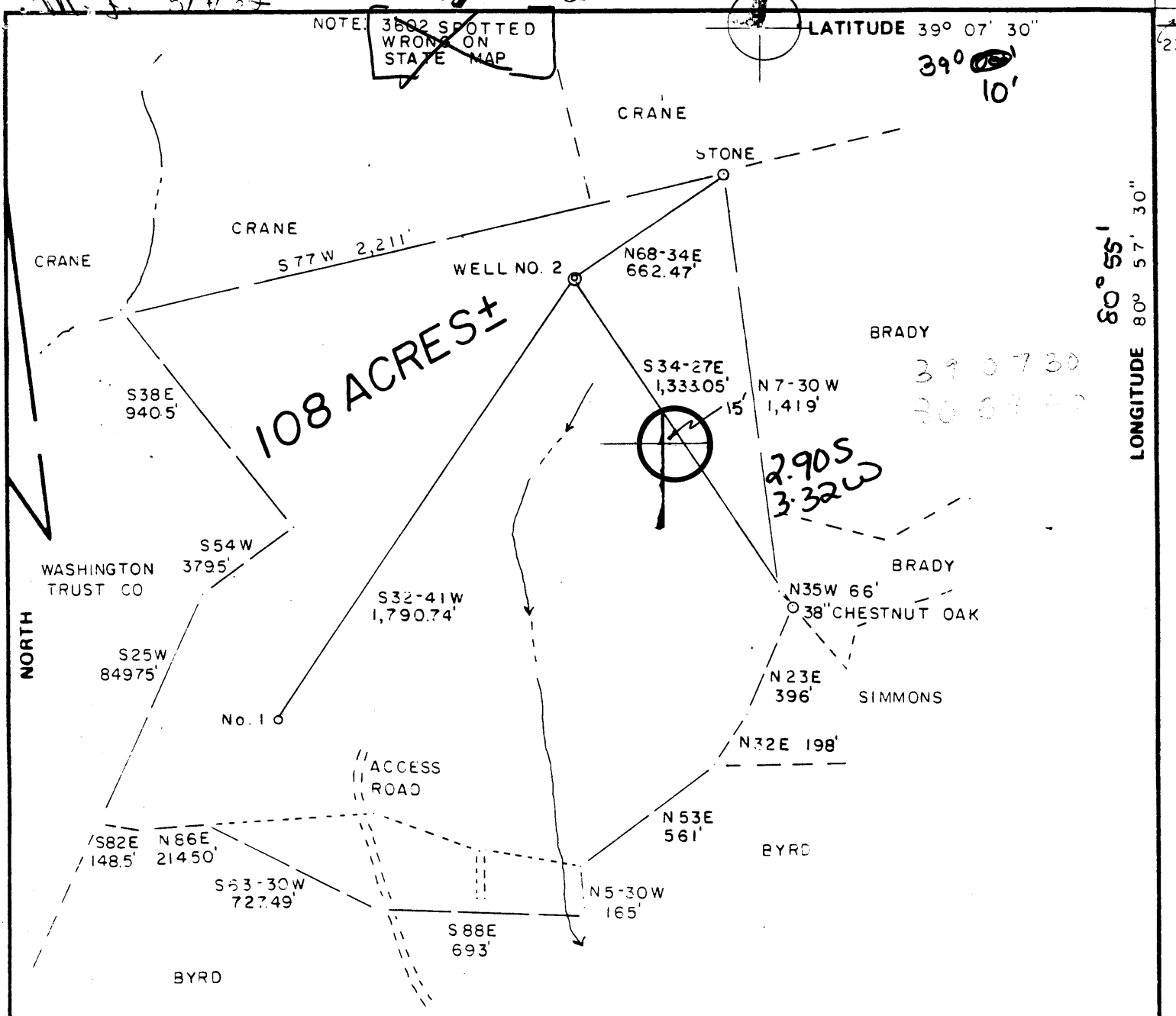
5/1/82

NOTE: 3602 SPOTTED WRONG ON STATE MAP

LATITUDE 39° 07' 30"

39° 10'

LONGITUDE 80° 55' 30"



BYRD LEASE WELL NO. 2

FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 500'
 MINIMUM DEGREE OF ACCURACY 1/200
 PROVEN SOURCE OF ELEVATION TOP OF KNOB
 ELEV. 1119'

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) Gregory A. Smith
 R.P.E. _____ L.L.S. 677

PLACE SEAL HERE

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS
 FORM IV-6 (878)



DATE APRIL 16, 19 82
 OPERATOR'S WELL NO. 2
 API WELL NO. 47-085-5591
 STATE COUNTY PERMIT

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION

WELL TYPE OIL GAS LIQUID INJECTION WASTE DISPOSAL
 (IF "GAS") PRODUCTION STORAGE DEEP SHALLOW
 LOCATION ELEVATION 1116.42' WATERSHED SOUTH FORK OF HUGH'S RIVER
 DISTRICT UNION COUNTY RITCHIE
 QUADRANGLE 7.5' + 15' WC Holbrook (15') Burnthouse (7.5')
 SURFACE OWNER FREDA E. & LEONARD R. BYRD ACREAGE 1.08
 OIL & GAS ROYALTY OWNER FREDA E. & LEONARD R. BYRD LEASE ACREAGE 1.08
 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 ELK ESTIMATED DEPTH 5325'
 WELL OPERATOR RIMROCK PRODUCTION CO. DESIGNATED AGENT ROBERT MURCOCK
 ADDRESS 4424-A EMERSON AVE. ADDRESS 4424-A EMERSON AVE.
PARKERSBURG, W.V. 26101 PARKERSBURG, W.V. 26101

MAY 10 1982

RECEIVED



IV-35
(Rev 8-81)

JUL 26 1982
OIL AND GAS DIVISION
WV DEPARTMENT OF MINES

State of West Virginia
Department of Mines
Oil and Gas Division

Revised--July 26, 1982
Date May 20, 1982
Operator's BYRD #1
Well No. BYRD #1
Farm BYRD
API No. 47 - 085 - 5591

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: 1116.42' Watershed South Fork of the Hughes River
District: Union County Ritchie Quadrangle Burnthouse 7.5

COMPANY RIMROCK PRODUCTION CORPORATION
ADDRESS 4424 "B" Emerson Ave., Parkersburg, WVA
DESIGNATED AGENT Robert L. Murdock
ADDRESS 4424 "B" Emerson Ave., Parkersburg, WVA
SURFACE OWNER Freda & Leonard Byrd
ADDRESS Harrisville, WVA
MINERAL RIGHTS OWNER Freda & Leonard Byrd
ADDRESS Harrisville, WVA
OIL AND GAS INSPECTOR FOR THIS WORK Deo
Mace ADDRESS Rt. 1, Box 5, Sandridge,
PERMIT ISSUED WVA

Casing & Tubing Size	Used in Drilling	Left in Well	Cement fill up Cu. ft.
20-16 Cond.			
13-10"	50	0	
9 5/8			
8 5/8	1173	1173	to Surface
7			
5 1/2			
4 1/2	5430	5430	750 sks.
3			
2 3/8	3517'	3517'	
Liners used			

DRILLING COMMENCED May 9, 1982
DRILLING COMPLETED May 14, 1982
IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED ON

GEOLOGICAL TARGET FORMATION Devonian Shale Depth 2430-5429 feet
Depth of completed well 5429 feet Rotary X / Cable Tools
Water strata depth: Fresh 300 feet; Salt feet
Coal seam depths: 0 Is coal being mined in the area? No

OPEN FLOW DATA
Producing formation Devonian Shale Pay zone depth 2510-5180 feet
Gas: Initial open flow 0 Mcf/d Oil: Initial open flow 0 Bbl/d
Final open flow 220 Mcf/d Final open flow 20 Bbl/d
Time of open flow between initial and final tests hours
Static rock pressure psig (surface measurement) after 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

47-085-5180
pate (2510-3575, 3705-4475)

AUG 2 1982

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

Stage 1 - 4720-5180 - 41 holes Rhinestreet (+ younger)
 Stage 2 - 3705-4475 - 45 holes Huron
 Stage 3 - 2510-3575 - 49 holes u. Devonian (Hamp. + u. Chemung)

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			Surface	1500	
Sand, Shale & Lime			1500	1970	
Big Injun Sand			1970	2050	
Shale			2050	2170	
Silt & Shale			2170	2312	
Water Sand			2312	2378	
Coffee Shale			2380	2416	
• Berea Sand			2416	2428	
Silts & Sand			2428	2684	
Gordon Sand			2684	2734	
Shale & Silt			2734	2798	
Fifth Sand			2798	2896	
Devonian Shale			2896	4944	
Alexander			4944	4982	
Shale & Silt			4982	5429 T.D.	

(dys of production for 1985 + 86 are really for 5591)

85-5590 WAS never drilled.

(Attach separate sheets as necessary)

RIMROCK PRODUCTION CORPORATION

Well Operator

By: Alison Crane



Date: May 20, 1982

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



IV-35
(Rev 8-81)

AUG 08 1983

State of West Virginia
Department of Mines
Oil and Gas Division

Date May 20, 1982
Operator's Well No. BYRD #2
Farm BYRD
API No. 47 - 085

5591

WELL OPERATOR'S REPORT (CORRECTED WELL NUMBER & PERMIT)
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: 1116.42' Watershed South Fork of the Hughes River
District: Union County Ritchie Quadrangle Burnthouse 7.5

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ADDRESS 4424 "B" Emerson Ave., Parkersburg, WVA
DESIGNATED AGENT Robert L. Murdock
ADDRESS 4424 "B" Emerson Ave., Parkersburg, WVA
SURFACE OWNER Freda & Leonard Byrd
ADDRESS Harrisville, WVA
MINERAL RIGHTS OWNER Freda & Leonard Byrd
ADDRESS Harrisville, WVA
OIL AND GAS INSPECTOR FOR THIS WORK Deo
Mace ADDRESS Rt. 1, Box 5, Sandridge,
WVA
PERMIT ISSUED
DRILLING COMMENCED May 9, 1982
DRILLING COMPLETED May 14, 1982

Casing & Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft.
Size 20-16 Cond.			
13-10"	50	0	
9 5/8			
8 5/8	1173	1173	to Surface
7			
5 1/2			
4 1/2	5430	5430	750 sks.
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Devonian Shale Depth 2430-5429 feet
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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

(Continue on reverse side)

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

Stage 1 - 4720-5180 - 41 holes

Stage 2 - 3705-4475 - 45 holes

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WELL LOG

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Berea Sand			2416	2428	
Silts & Sand			2428	2684	
Gordon Sand			2684	2734	
Shale & Silt			2734	2798	
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Devonian Shale			2896	4944	
Alexander			4944	4982	
Shale & Silt			4982	5429	

(Attach separate sheets as necessary)

RIMROCK PRODUCTION CORPORATION

Well Operator

By: Alison Crane *Alison Crane*
Date: May 20, 1982

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."

PROPOSED WORK ORDER

(12-81)

THIS IS AN ESTIMATE ONLY:
ACTUAL INFORMATION MUST BE SUBMITTED ON FORM IV-35 UPON COMPLETION

DRILLING CONTRACTOR (IF KNOWN) UNKNOWN

Address _____

GEOLOGICAL TARGET FORMATION, ELK

Estimated depth of completed well, 5500 feet Rotary X / Cable tools _____ /

Approximate water strata depths: Fresh, 150 feet; salt, 0 feet.

Approximate coal seam depths: 0 Is coal being mined in the area? Yes _____ / No X /

CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS			New	Used	FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS
	Size	Grade	Weight per ft			For drilling	Left in well		
Conductor	11-3/4	cw	45#	x		45'	45'	40 sx	Kinds
Fresh Water	8-5/8	erw	23#	x		1200'	1200'	350 sx	Baker
Coal									Sizes
Intermediate									
Production	4-1/2	erw	10.5#	x		0	5500'	700 sx	Depths set 4000'
Tubing	2-3/8	cw	4.7#	x		0	4000'	0	
Liners									Perforations: est. depth
									Top 3200' Bottom 5300'

NOTE: Regulation 7.02 of the Department of Mines provides that the original and four copies of Form IV-2 must be filed with the Department, accompanied by (i) a plat in the form prescribed by Regulation 11, (ii) a bond in one of the forms prescribed by Regulation 12, or in lieu thereof the other security allowed by Code § 22-4-2, (iii) Form IV-9, "Reclamation Plan", applicable to the reclamation required by Code § 22-4-12b and Regulation 23, (iv) unless previously paid on the same well, the fee required by Code § 22-4-12a, and (v) if applicable, the consent required by Code § 22-4-8a from the owner of any water well or dwelling within 200 feet of the proposed well.

A separate Form IV-2 shall not be required for fracturing or stimulating a well where fracturing or stimulating is to be part of the work for which a permit is sought and is noted as such on the Form IV-2 filed in connection therewith.

THIS PERMIT MUST BE POSTED AT THE WELL SITE.
ALL PROVISIONS BEING IN ACCORDANCE WITH CHAPTER 22,
ARTICLE 4 OF THE W. VA. CODE, THE LOCATION IS HEREBY
APPROVED FOR drilling. THIS PERMIT SHALL EXPIRE
IF OPERATIONS HAVE NOT COMMENCED BY 1-5-83
BY [Signature]

The following waiver must be completed by the coal operator and by any coal owner or coal lessee who has recorded a declaration under Code 22-4-20, if the permit is to be issued within fifteen (15) days of receipt thereof.

WAIVER

The undersigned coal operator _____ / owner _____ / lessee _____ / of the coal under this well location has examined this proposed well location. If a mine map exists which covers the area of the well location, the well location has been added to the mine map. The undersigned has no objection to the work proposed to be done at this location, provided, the well operator has complied with all applicable requirements of the West Virginia Code and the governing regulations.

Date: _____, 19 _____

By _____
Its _____