

FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 2000'
 MINIMUM DEGREE OF ACCURACY 1 in 15600
 PROVEN SOURCE OF ELEVATION Central Appalachian Coal Corp. Bench Mark Elev 767.1

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) Forrest Burkett
 R.P.E. 1442 L.L.S. _____

PLACE SEAL HERE

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



DATE Aug 24, 1982
 OPERATOR'S WELL NO. 6-Ser#095241
 API WELL NO. 47-019-0504
 STATE COUNTY PERMIT

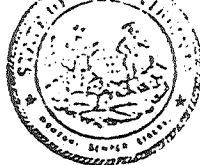
STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION

WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___
 (IF "GAS,") PRODUCTION X STORAGE ___ DEEP X SHALLOW ___
 LOCATION: ELEVATION 1019.6 WATER SHED Morris Creek of Kanawha River
 DISTRICT Valley COUNTY Fayette
 QUADRANGLE Montgomery 45 00 C
 SURFACE OWNER Eastern Associated Coal Corp. ACREAGE 3822.38
 OIL & GAS ROYALTY OWNER James F.B. Peyton, Trustee LEASE ACREAGE 3822.38
 LEASE NO. 13511
 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 Onondaga Lime ESTIMATED DEPTH 5955
 WELL OPERATOR Ashland Exploration Inc DESIGNATED AGENT Forrest Burkett
 ADDRESS P.O. Box 391 Ashland Ky 41114 ADDRESS P.O. Box 156 Brenton WV 24818
DEEP WELL 6-6 Brenton (262) Montgomery (262)

SEP 13 1982

RECEIVED



IV-35
(Rev 8-81)

JAN 31 1983

OIL AND GAS DIVISION
WV DEPARTMENT OF MINES

State of West Virginia
Department of Mines
Oil and Gas Division

Date 1/27/83
Operator's
Well No. 6
Farm J. F. B. Peyton
API No. 47 - 019 - 0504

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 XX / Shallow /)
LOCATION: Elevation: 1019.6' Watershed Morris Creek of Kanawha River
District: Valley County Fayette Quadrangle Montgomery

COMPANY Ashland Exploration, Inc.
ADDRESS P. O. Box 391, Ashland, Ky. 41114
DESIGNATED AGENT Forrest Burkett
ADDRESS P. O. Box 156, Brenton, WV 24818
SURFACE OWNER Eastern Associated Coal Corp.
ADDRESS 1701 Koppers Bldg., Pittsburgh, PA 15219
MINERAL RIGHTS OWNER James F.B. Peyton, Trustee
ADDRESS Box 549, Lewisburg, WV 24901
OIL AND GAS INSPECTOR FOR THIS WORK Craig Duckworth
ADDRESS Box 459, Mt. Lookout, WV 26678
PERMIT ISSUED 9-2-82
DRILLING COMMENCED 9-22-82
DRILLING COMPLETED 10-1-82

Casing & Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft.
Size 20-16 Cond.			
13-10"	45'	45'	20 sks
9 5/8			
8 5/8	1240'	1240'	250 sks
7			
5 1/2			
4 1/2	5911'	5911'	535 sks
3			
2		5498'	
Liners used			

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

GEOLOGICAL TARGET FORMATION Onondaga Limestone Depth 5955 feet
Depth of completed well 5915 feet Rotary XX / Cable Tools
Water strata depth: Fresh 281 feet; Salt 672 feet
Coal seam depths: NONE Is coal being mined in the area? No

OPEN FLOW DATA

See back
Producing formation Dev. Shale/Gordon Pay zone depth 2906 feet
Gas: Initial open flow 1040 Mcf/d Oil: Initial open flow Bbl/d
Final open flow 268 Mcf/d Oil: Final open flow Bbl/d
Time of open flow between initial and final tests 3 hours
Static rock pressure 545 psig (surface measurement) after 480 hours shut in
(If applicable due to multiple completion--)

Second producing formation Berea/Weir Pay zone depth 2283 feet
Gas: Initial open flow 351 Mcf/d Oil: Initial open flow Bbl/d
Final open flow 278 Mcf/d Oil: Final open flow Bbl/d
Time of open flow between initial and final tests 3 hours
Static rock pressure 380 psig (surface measurement) after 480 hours shut in

268
278
546
MCA
POP

FEB 14 1983

(Continue on reverse side)

DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC.
 Perf Dev. Shale 40H/5262-5682- Foam frac w/75 Quality foam, 50M# 20/40 sd and 716
 MCFN₂, 24 balls. BD @ 2700#, MTP 3350#, ATP 3183#, ISIP 2000#, TL&FW 314 bbl, TSLF 227 bbl
 2nd stage - 45H/4298-4699 - Foam frac w/75 Quality foam, 50M# 20/40 sd, 660 MCFN₂,
 @ 40 B/M, BD @ 2100#, MTP 3050#, ATP 2711#, ISIP 1600#, TL&FW 297 bbl., TSLF 223 bbl.
 Perf Gordon 11H/2906-14)- Foam frac w/75 Quality foam, 40M# 20/40 sd, 400 MCFN₂,
 Perf Berea 11H/2712-17) 12 perf balls, BD @ 1900#, ATP 1632# @ 25 B/M, MTP 1900#,
 ISIP 900#, TL&FW 196 bbl., TSLF 135 bbl.
 Perf I. Weir 10H/2381-87)- Foam frac w/75 Quality foam, 400 sks 20/40 sd. BD @ 1500#,
 Perf U. Weir 10H/2283-92) ATP 1700# @ 10 B/M, MTP 1800#, 376 MCFN₂, ISIP 1300#,
 TL&FW 232 bbl., TSLF 177 bbl.
 2283-2387

WELL LOG

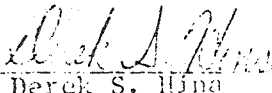
FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
					Including indication of all fresh and salt water, coal, oil and gas
Sand & Shale			0	262	
Shale			262	318	Fresh wtr @ 281'
Sand & Shale			318	420	
Shale			420	445	
Sand			445	515	
Shale & Sand			515	658	
Salt Sand			658	1189	Salt wtr @ 672'
Shale			1189	1311	
Ravencliff			1311	1365	
Shale			1365	1399	
Avis Lime			1399	1425	
Shale			1425	1638	
Sand & Shale			1638	1803	
Lower Maxton			1803	1860	
Shale			1860	1870	
Little Line			1870	1926	
Wolf Cave			1926	1954	
3" Lime			1954	2152	
Shale			2152	2191	
Shale			2191	2237	
Shale			2237	2260	
Lower Weir			2260	2350	
Shale			2350	2361	
Lower Weir			2361	2413	
Shale			2413	2645	
Coffee Shale			2645	2665	
Berea			2665	2719	
Devonian Shale			2719	5872	
Grandage Lime			5872	TD	
DID 5917					
LTD 5915					

(Attach separate sheets as necessary)

ASHLAND EXPLORATION, INC.

Well Operator

By:



Derek S. Huna

Date:

Engineering Technician

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."

(Revised 3-81)

PROPOSED WORK ORDER

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

DRILLING CONTRACTOR (IF KNOWN) Ray Resources Drilling Co.
Address 2101 Washington Street, East
Charleston, WV 25311

GEOLOGICAL TARGET FORMATION Onondaga Lime
Estimated depth of completed well 5955 feet. Rotary X / Cable tools /
Approximate water strata depths: Fresh, feet; salt, Top of feet.
Approximate coal seam depths: No open mines . salt sand
Is coal being mined in this area: Yes / No X /

CASING OR TUBING TYPE	SPECIFICATIONS					FOOTAGE INTERVALS		CEMENT FILL UP OR SACKS Cubic ft.	PACKERS
	Size	Grade	Weight per ft	New	Used	For Drill- ling	Left in Well		
Conductor	13 3/8	H-40	48	X		30	30	15 sks	Kinds
Fresh water									
Coal									Sizes
Intermed.	8 5/8	K-55	24	X		1250	1250	Circulate	
Production	4 1/2	K-55	10.5	X		5955	5955	As required	Depths set
Tubing									
Liners									Perforations:
									Top Bottom

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 §22-4-15b 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 drilling 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 5-2-83
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:

W A I V E R

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 regularions.

Date: , 19 .
By:
Its: