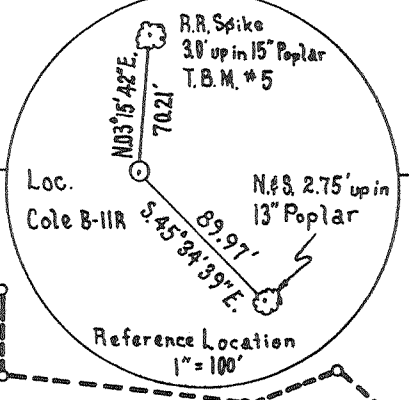


James
3/22/91

S. 34,000

Loc. Cole B-11R
S.N. 133441

LATITUDE 37° 47' 30"



S. 16° 00' 09" W. ~ 4,401.97'

S. 01° 13' 35" W. ~ 7,753.59'

S. 49° 03' 38" E. ~ 2,803.81'
N. 40° 45' 41" W. ~ 1,774.09'

G.W. 1403 (820)

S. 11° 34' 11" E. ~ 8,093.03'
N. 10° 14' 38" W. ~ 7,717.98'

Cole and Crane Real Estate Trust
(formerly Albert H. Cole, et al)
Pt. C-4160 - 11,124.79 Ac.

Paul Holland
138.82 Ac.
(Adverse)

George C. Steele
C-4232 ~ 125.71 Ac.

W.E. Chambers
Pt. C-4231

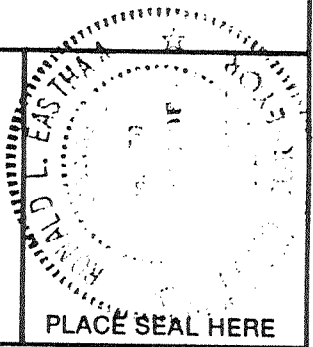
Omar Mining Co. Coordinates
for Loc. Cole B-11R
S. 33,014.24 ~ W. 5,484.23

- Corners:
- ① Roof Bolt, W.-P. Coal Co. Sta. 38-08
 - ② Roof Bolt, W.-P. Coal Co. Sta. 37-10

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

FILE NO. _____
DRAWING NO. _____
SCALE 1" = 1,000'
MINIMUM DEGREE OF ACCURACY 1:23,939
PROVEN SOURCE OF ELEVATION U.S.C. & G.S. B.M. "B144"
Elev. = 885.753

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) Ronald L. East
R.P.E. _____ L.L.S. 150



STATE OF WEST VIRGINIA
DEPARTMENT OF ENERGY
OIL AND GAS DIVISION



DATE Feb. 22, 1991
OPERATOR'S WELL NO. Albert H. Cole Trusts, et al
API WELL NO. B-11R S.N. 133441

WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___
(IF "GAS,") PRODUCTION X STORAGE ___ DEEP ___ SHALLOW X
STATE COUNTY PERMIT 47 - 045 - 1160

LOCATION: ELEVATION 1303.65 WATER SHED Pine Creek of Island Creek
DISTRICT Island Creek 4 COUNTY Logan

QUADRANGLE Holden Basin Matewan NE
SURFACE OWNER Cole and Crane Real Estate Trust ACREAGE 13,292.15
OIL & GAS ROYALTY OWNER Cole and Crane Real Estate Trust LEASE ACREAGE 11,124.79
LEASE NO. 080565

PROPOSED WORK: DRILL X 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 Devonian Shale ESTIMATED DEPTH 5,245' K.B.
WELL OPERATOR Ashland Exploration, Inc. DESIGNATED AGENT Forrest Burkett
ADDRESS P.O. Box 391, Ashland, Ky., 41114 4130 ADDRESS P.O. Box 379, Brenton, W.V., 24818
6-6 Magnolia (205)

APR 8 1991

COUNTY NAME PERMIT

State of West Virginia
DEPARTMENT OF ENERGY
Division of Oil and Gas

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Energy

Reviewed TMG

Recorded _____ Well Operator's Report of Well Work

OCT 2 1 1991

Farm name: COLE & CRANE REAL ESTATE Operator Well No.: B-11R-S-133441

LOCATION: Elevation: 1303.65 Quadrangle: HOLDEN

District: ISLAND CREEK County: LOGAN
Latitude: 15100 Feet South of 37 Deg. 47Min. 30 Sec.
Longitude 7370 Feet West of 82 Deg. 0 Min. 0 Sec.

Company: ASHLAND EXPLORATION, INC.
P.O. BOX 391, A1-6
ASHLAND, KY 41114-0391

Agent: FORREST BURKETT

Inspector: TIM BENNETT
Permit Issued: 04/01/91
Well work Commenced: 06-20-91
Well work Completed: 10-10-91
Verbal Plugging
Permission granted on: _____
Rotary X Cable _____ Rig
Total Depth (feet) 5194
Fresh water depths (ft) None noted
(WV- Map-12 478')
Salt water depths (ft) Damp @ 1830'
(WV Map 828')
Is coal being mined in area (Y/N)? N
Coal Depths (ft): Open Mine 440-450'

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
16"	41'	41'	11.8
11 3/4"	496'	496'	295
8 5/8"	2499'	2499'	750
5 1/2"	5168'	5168'	474
1.9" tbg @	5042' KB		

OPEN FLOW DATA

Producing formation Devonian Shale Pay zone depth (ft) 3343-5112
 Gas: Initial open flow 0 MCF/d Oil: Initial open flow 0 Bbl/d
 Final open flow 1032 MCF/d Final open flow 0 Bbl/d
 Time of open flow between initial and final tests 3 Hours
 Static rock Pressure 805# psig (surface pressure) after 72 Hours

Second producing formation None Pay zone depth (ft) 0
 Gas: Initial open flow 0 MCF/d Oil: Initial open flow 0 Bbl/d
 Final open flow 0 MCF/d Final open flow 0 Bbl/d
 Time of open flow between initial and final tests 0 Hours
 Static rock Pressure 0 psig (surface pressure) after 0 Hours

NOTE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE.

For: ASHLAND EXPLORATION, INC.

By: James L. Stephens James L. Stephens, Eng. Tech.
Date: October 18, 1991

<u>Formation or Rock Type</u>	<u>Top</u>	<u>Base</u>
Sand & Shale (Base Lee Formation)	0	1935
Pennington Formation	1935	2421
Maxton 2277-2327		
Little Lime	2421	2541
Big Lime	2541	2815
Borden Formation	2815	3309
Sunbury Shale	3309	3339
Berea	3339	3349
Devonian Shale	3349	5175
Onondaga Ls.	5175	TD

UD 3349
 LH 4350
 J 4800
 A 4950
 RH 5150

DTD 5194
 LTD 5190

Well Treatment:

Perf Rhinestreet 20H/4857-5112. N, frac using 500 gal 8% fe inh acid and 803,000 SCF N, @ 97,000 SCF/min. BD @ 2420#, ATP 3050#, MTP 3090#, ISIP 2200#.

Perf Huron 20H/4216-4657. N, frac using 500 gal 8 1/2% inh fe acid and 808,000 SCF N, @ 99,000 SCF/min. BD @ 3850#, ATP 3200#, MTP 3850#, ISIP 2000#, 15 min 1430#.

Perf Chagrin 20H/3343-3809. N, frac using 500 gal 8 1/2% inh fe acid and 810,000 SCF N, @ 99,000 SCF/min. BD 3800#, ATP 2800#, MTP 4060#, ISIP 1500#, 15 min 1310#.

045 1160

Issued 04/01/91
Expires 04/01/93
Page 1 of 1

FORM WW-2B

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

- 1) Well Operator: Ashland Exploration, Inc. 2750 (5) 401
- 2) Operator's Well Number: Albert H. Cole Trustee #B-11R 3) Elevation: 1303.65
- 4) Well type: (a) Oil / or Gas X /
(b) If Gas: Production X / Underground Storage /
Deep / Shallow X /
- 5) Proposed Target Formation(s): Devonian Shale
- 6) Proposed Total Depth: 5245'KB feet
- 7) Approximate fresh water strata depths: 478'KB (Map WV-12)
- 8) Approximate salt water depths: 828'KB (Map WV-12)
- 9) Approximate coal seam depths: Cedar Grove - Elev. 920' - Mined Out
- 10) Does land contain coal seams tributary to active mine? Yes / No X /
- 11) Proposed Well Work: Drill and Stimulate (New Well)
- 12)

CASING AND TUBING PROGRAM

TYPE	SPECIFICATIONS		FOOTAGE INTERVALS			CEMENT
	Size	Grade	Weight per ft.	For drilling	Left in well	Fill-up (cu. ft.)
Conductor	16	LS	42.0	30	30	CTS
Fresh Water						300SR13-11.3
Coal	11 3/4	H40	42.0	444	444	300SR18-11.2.2 CTS
Intermediate	8 5/8	J55	24.0	2490	2490	CTS
Production	5 1/2	J55	15.5	5245	5245	300SR18-11.1 As Needed
Tubing	1.9	J55	2.76	-	5195	Siphon
Liners						

RECEIVED
Division of Energy

PACKERS : Kind _____
Sizes _____
Depths set _____

MAR 13 91

For Division of Oil and Gas Use Only

Fee(s) paid: Well Work Permit Reclamation Fund WPCP
 Plat WW-9 WW-2B Bond Agent

- 1) Date: March 11, 1991
- 2) Operator's well number Albert H. Cole Trustee, etal #B-11R, #133441 Serial
- 3) API Well No: 47 - 045 - 1160 State - County - Permit

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

RECEIVED
MAR 13 91

NOTICE AND APPLICATION FOR A WELL WORK PERMIT

- 4) Surface Owner(s) to be served:
 - (a) Name Cole & Crane Real Estate Trust
 - Address P.O. Box 610
Omar, WV 25638
 - (b) Name _____
 - Address _____
 - (c) Name _____
 - Address _____
- 5) (a) Coal Operator:
 - Name W-P Coal Company
 - Address P.O. Box 570
Omar, WV 25638
 - (b) Coal Owner(s) with Declaration
 - Name Same as No. 4(a)
 - Address _____
 - Name _____
 - Address _____
 - (c) Coal Lessee with Declaration
 - Name Same as No. 5(a)
 - Address _____
- 6) Inspector Tim Bennett
- Address Route 2 Box 61-B
Chapmanville, WV 25508
- Telephone (304)- 855-7705

TO THE PERSON(S) NAMED ABOVE TAKE NOTICE THAT:

_____ Included is the lease or leases or other continuing contract or contracts by which I hold the right to extract oil and gas OR
X Included is the information required by Chapter 22B, Article 1, Section 8(d) of the Code of West Virginia (see page 2)
 I certify that as required under Chapter 22B of the West Virginia Code I have served copies of this notice and application, a location plat, and accompanying documents pages 1 through 2 on the above named parties, by:
 _____ Personal Service (Affidavit attached)
X Certified Mail (Postmarked postal receipt attached)
 _____ Publication (Notice of Publication attached)

I have read and understand Chapter 22B and 38 CSR 11-18, and I agree to the terms and conditions of any permit issued under this application.
 I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete.
 I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Well Operator Ashland Exploration, Inc.
 By: J. T. Mellinger
 Its: Vice President
 Address P.O. Box 391
Ashland, KY 41114
 Telephone 606-329-5450

Subscribed and sworn before me this 11th day of March, 1991

Neil W. Davis Notary Public
 My commission expires November 23, 1994