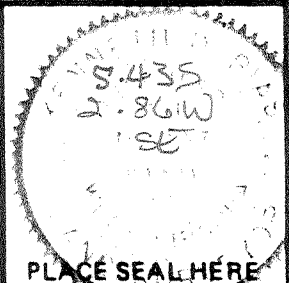


FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 1000'
 MINIMUM DEGREE OF ACCURACY 1:2500'
 PROVEN SOURCE OF ELEVATION USGS BM
 2-143 EL. 971.33'

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) Kenneth D. Bass
 R.P.E. _____ L.L.S. 837-SU

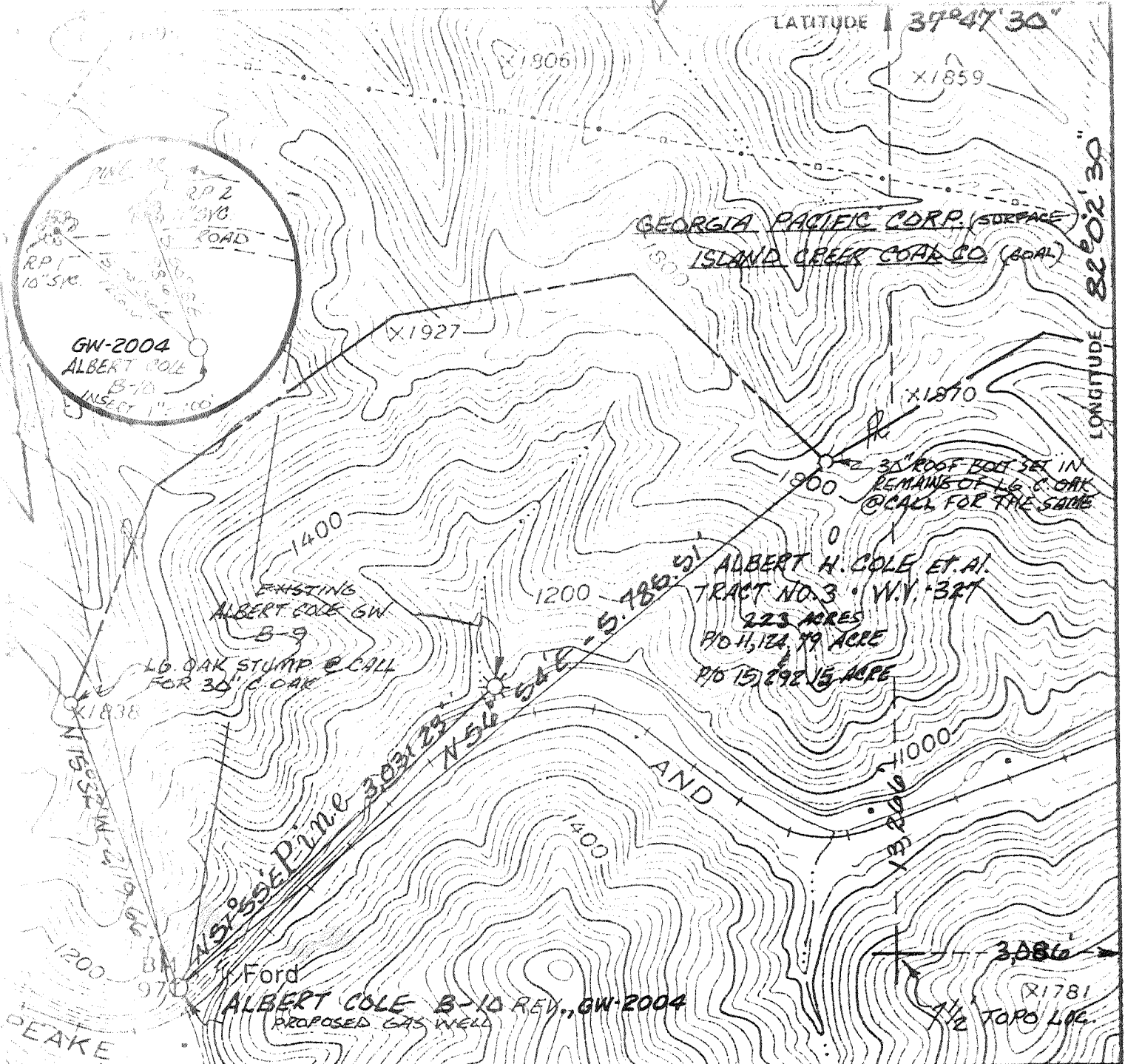


(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS
 FORM IV-6 (8-78)
 WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___
 (IF "GAS,") PRODUCTION X STORAGE ___ DEEP ___ SHALLOW X.
 LOCATION: ELEVATION 968.86' WATER SHED PINE CREEK OF ISLAND CREEK OF GUYANDOTTE RIVER
 DISTRICT ISLAND CREEK #4 COUNTY LOGAN
 QUADRANGLE HOLDEN 7 1/2' 45 SE
 SURFACE OWNER ALBERT H. COLE et. al. ACREAGE 8612 1/2 AC.
 OIL & GAS ROYALTY OWNER COLE & CRANE REAL ESTATE LEASE ACREAGE 8612 1/2 AC.
 LEASE NO. _____ P/O 10753 1/2 AC.
 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 4865 KB
 WELL OPERATOR ASHLAND EXPLORATION, INC. DESIGNATED AGENT FORREST BURKETTE
 ADDRESS P.O. BOX 391 ADDRESS P.O. BOX 379
ASHLAND, KY. 41114 BRENTON, WV 24818

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION

DATE OCTOBER 22, 1990
 OPERATOR'S WELL NO. ALBERT H. COLE, TRUSTEE, et al # B-10
 API WELL NO. SN: 133201
47 - 045 - 1149
 STATE COUNTY PERMIT
 Formerly: 045-1132
Now Drilled EXPIRED.
 DEC 21 1990

DEEP WELL 6-6 unnamed (0)



KDB-1-6
 SCALE 1" = 1,000'
 NATIONAL SYSTEM OF
 MERIDIAN 1:2500
 LOCATION U.S.G.S. BM
 Z-143 ELEV. 971.33'

I, THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAN 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: Kenneth D. Bias
 RPE _____ ILS 837



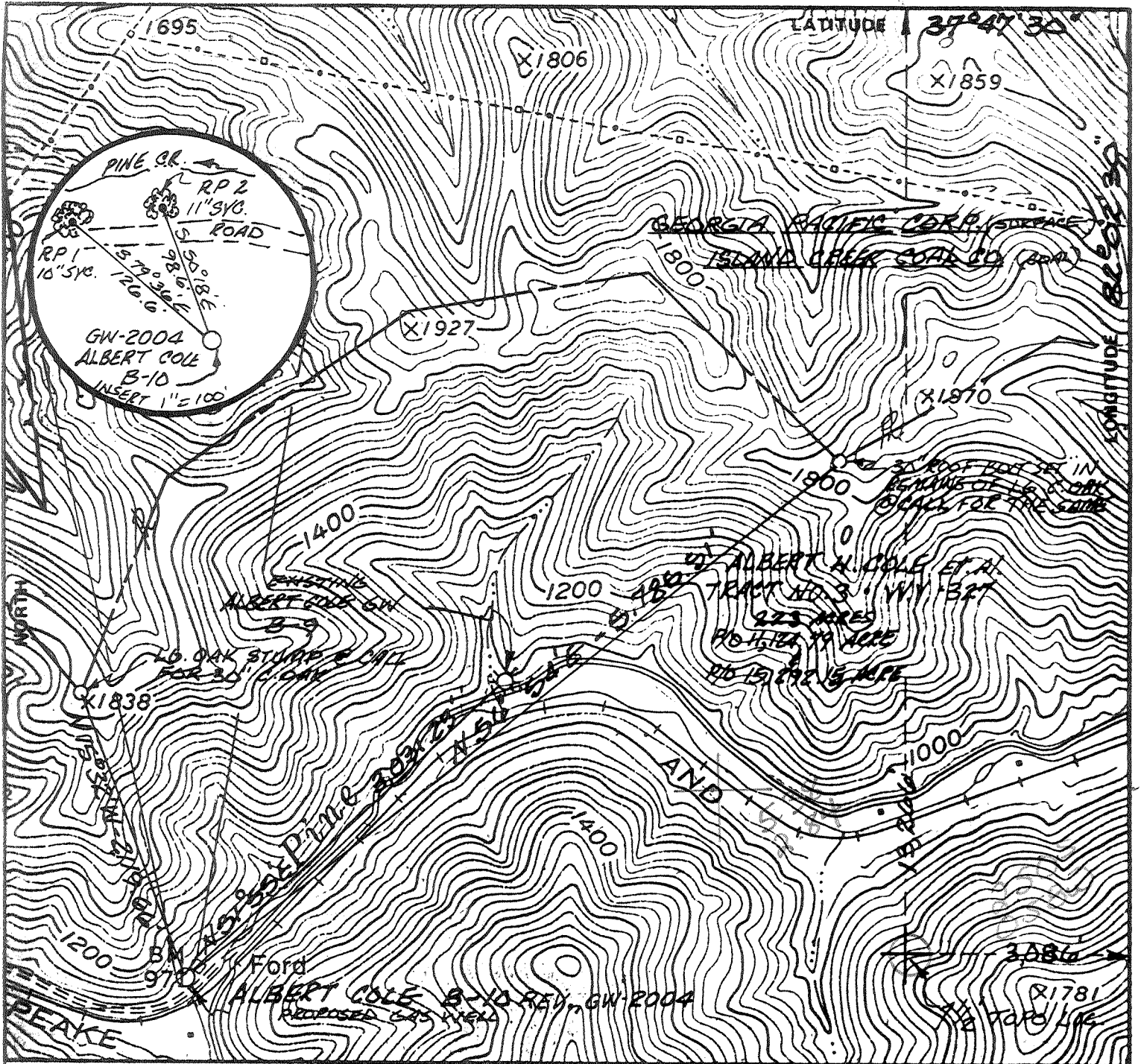
DATE REV. JANUARY 20 1989
 OPERATOR'S WELL NO Cole B-10-Rev
 API WELL NO GW-2004
47 045 1132
 STATE COUNTY PERMIT

Cancelled
045-1132
Reissued as 045-1149

WELL TYPE: GAS LIQUID INJECTION WASTE DISPOSAL
 GAS PRODUCTION STORAGE DEEP SHALLOW
 ELEVATION 970.03' WATER SHED PINE CREEK OF ISLAND CREEK OF GUYANDOTTE RIV.
 DISTRICT ISLAND CREEK COUNTY LOGAN
 RANGELAND HOLDEN 7 1/2'
 OPERATOR ALBERT H. COLE ET AL. ACREAGE 223 TR.3
 LESSOR ALBERT H. COLE ET AL. LEASE ACREAGE 223 AC P/O 11,124.79 AC.
 LEASE NO. W.V. 327
 DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR
 STIMULATE PLUG OFF OLD FORMATION PERFORATE NEW
 FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____
 ABANDON CLEAN OUT AND REPLUG _____
 TARGET FORMATION DEVONIAN SHALE ESTIMATED DEPTH 4870'
 WELL OPERATOR OXY USA Inc. DESIGNATED AGENT DELBERT G. OLIVER
 ADDRESS P.O. BOX 873 ADDRESS P.O. BOX 873
CHARLESTON, W.V. 25323 CHARLESTON, W.V. 25323

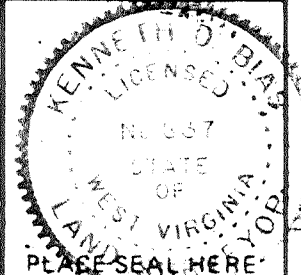
JAN 4 1991

LONGITUDE 82°02'30" L06-1132



FILE NO KDB-1-6
 DRAWING NO. _____
 SCALE 1" = 1,000'
 MINIMUM DEGREE OF ACCURACY 1:2500
 PROVEN SOURCE OF ELEVATION U.S.G.S. BM Z-143 ELEV. 971.33

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) Kenneth D. Bias
 RPE _____ LLS 837



--- DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS
 FORM IV-6
 18781

Jamie 2/7/89



DATE REV. JANUARY 20 19 89
 OPERATOR'S WELL NO Cole B-10-Rev
 API WELL NO GW-2004
47 - 045 - 1132
 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 ___ STORAGE ___ DEEP ___ SHALLOW X
 LOCATION: ELEVATION 970.03' WATER SHED PINE CREEK OF ISLAND CREEK OF GUYANDOTTE RIV.
 DISTRICT ISLAND CREEK COUNTY LOGAN
 QUADRANGLE HOLDEN 7 1/2 401 059
 SURFACE OWNER ALBERT H. COLE ET AL. ACREAGE 223 TR.3
 OIL & GAS ROYALTY OWNER ALBERT H. COLE ET AL. LEASE ACREAGE 223 AC P/O 11,124.79 AC.
 LEASE NO W.V. 327
 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 DEYONIAN SHALE ESTIMATED DEPTH 4870'
 WELL OPERATOR OXY USA Inc. DESIGNATED AGENT DELBERT G. OLIVER
 ADDRESS P.O. BOX 873 ADDRESS P.O. BOX 873
CHARLESTON, W.V. 25323 3072 CHARLESTON, W.V. 25323

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

Well Operator's Report of Well Work

Farm name: COLE & CRANE REAL ESTATE Operator Well No.: A H COLE B-10

LOCATION: Elevation: 970.00 Quadrangle: HOLDEN

District: ISLAND CREEK County: LOGAN
Latitude: 13350 Feet South of 37 Deg. 47Min. 30 Sec.
Longitude 3100 Feet West of 82 Deg. 2 Min. 30 Sec.

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

Agent: FORREST BURKETT

Inspector: TIM BENNETT
Permit Issued: 12/18/90
Well work Commenced: 4/05/91
Well work Completed: 5/03/91
Verbal Plugging _____
Permission granted on: _____
Rotary x Cable _____ Rig _____
Total Depth (feet) 4838'
Fresh water depths (ft) 19'
7" stream @ 83' and approx. 155'
Salt water depths (ft) 470' 1020'

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
20"	10'	19'	Driven
16"	38'	38'	118
11 3/4"	349'	349'	218
8 5/8"	2157'	2157'	635
5 1/2"	4812'	4812'	540

1.9" @ 4698' w/AD1 @ 2430' KB
1.9" @ 2406'

OPEN FLOW DATA

Producing formation Devonian Shale Pay zone depth (ft) 3079-4768
Gas: Initial open flow 0 MCF/d Oil: Initial open flow _____ Bbl/d
Final open flow 902 MCF/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests 3 Hours
Static rock Pressure 790 psig (surface pressure) after 72 Hours

Second producing formation Big Lime Pay zone depth (ft) 2373-2380
Gas: Initial open flow 0 MCF/d Oil: Initial open flow _____ Bbl/d
Final open flow 902 MCF/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests 3 Hours
Static rock Pressure 640 psig (surface pressure) after 72 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, Engr. Tech.
Date: May 20, 1991

MAY 24 1991

<u>FORMATION OR ROCK TYPE</u>	<u>TOP</u>	<u>BASE</u>
Sand and Shale (Base Lee Sand)	0	1624
Pennington Formation	1624	2149
U. Maxton 1950-2009		
L. Maxton 2102-2130		
Little Lime	2149	2200
Big Lime	2200	2473
Borden	2473	2975
Coffee Shale	2975	3005
Berea	3005	3011
Devonian Shale	3011	4830
Onondaga LS	4830	TD
DTD 4838		
LTD 4840		

WDU 3011
 LH 4000
 J 4325
 A 4450
 RH 4650

WELL TREATMENT

Perf L. Devonian Shale 18H/4553-4768 - N₂ frac using 500 gal 7 1/2% Inh Fe acid, 804,000 SCF N₂ @ 93,890 SCF/min. BD @ 2250#, ATP 3513#, MTP 3750#, ISIP 2280# & 15 min 1821#.

Perf M. Devonian Shale 23H/3865-4347. N₂ frac using 500 gal 7 1/2% inh Fe acid, 806,000 SCF N₂ @ 103,000 SCF/min. BD @ 2971#, ATP 3075#, MTP 3125#, ISIP 1735# & 15 min. 1599#.

Perf U. Dev. Shale 20#/3079-3435. N₂ frac using 500 gal 7 1/2% inh Fe acid, 807,000 SCF N₂ @ 103,000 SCF/min. BD @ 3043#, ATP 3537#, MTP 3611#, ISIP 1450# & 15 min 1219#.

Perf Big Lime 20H/2373-2380. Acidize using 7000 gal 15% Inh Fe acid. BD @ 1700#, ATP 1175# @ 5.8 BPM, MTP 1700#, ISIP 730#, & 15 min 265#.

0.5211

RECEIVED
FEB 06 1989

Page 1 of 4
Form WW2-A
(09/87)
File Copy

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

Date: February 1, 1989
Operator's well number
Albert Cole B-10, GW 2004
API Well No: 47 - 045 - 1132
State - County - Permit

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

- 4) Surface Owner(s) to be served:
 - (a) Name Cole & Crane Real Estate Trust
Address 215 Frederick Bldg.
Huntington, WV 25701
 - (b) Name Attn: Bill Stark
Address _____
 - (c) Name _____
Address _____
- 5) (a) Coal Operator:
 - Name W. P. Coal Company
Address P. O. Box 570
Omar, WV 25638; Attn: John Clark
 - (b) Coal Owner(s) with Declaration
Name Cole & Crane Real Estate Trust
Address 215 Frederick Bldg
Huntington, WV 25701, Attn: Bill Stark
Name _____
Address _____
 - (c) Coal Lessee with Declaration
Name W. P. Coal Company
Address P. O. Box 570
Omar, WV 25638; Attn: John Clark
- 6) Inspector Tim Bennett, Div Oil & Gas
Address c/o Logan Ofc, 525 Tiller St.
Logan, WV 25601
Telephone (304)-792-7075

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 XX 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 4 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 OXY USA Inc.
By: Delbert G. Oliver
Its: Appalachian Project Manager
Address P. O. Box 873
Charleston, WV 25323
Telephone (304) 344-8383

Subscribed and sworn before me this 1 day of February, 1989

Donald G. Bay
My commission expires June 1, 1989
Commissioner
Notary Public

RECEIVED

045-1149 issued 12/18/90
Expires 12/18/92
Page 1 of 1

FORM WW-2B
NOV 30 1990

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
Albert H. Cole, Trustee, etal
- 2) Operator's Well Number: B-10, Serial #133201 3) Elevation: 970.0
- 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: 4865'KB feet
- 7) Approximate fresh water strata depths: 155'KB (Map WV-12)
- 8) Approximate salt water depths: 470'KB (Map WV-12)
- 9) Approximate coal seam depths: Cedar Grove - Elev. 750' - Mined Out
- 10) Does land contain coal seams tributary to active mine? Yes X / No /
- 11) Proposed Well Work: Drill & Stimulate New Well
- 12)

CASING AND TUBING PROGRAM

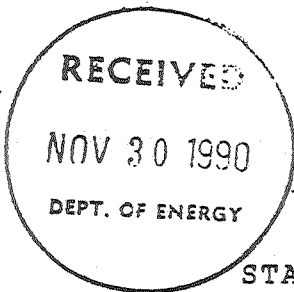
TYPE	SPECIFICATIONS			FOOTAGE INTERVALS		CEMENT
	Size	Grade	Weight per ft.	For drilling	Left in well	Fill-up (cu. ft.)
Conductor	16	LS	42.0	30	30	CTS
Fresh Water						38518-11.5 38518-11.2
Coal	11 3/4	J55	42.0	347	347	CTS
Intermediate	8 5/8	J55	24.0	1670	1670	CTS
Production	5 1/2	J55	15.5	4865	4865	38518-11.1 As Needed
Tubing	1.9	J55	2.76	-	4815	Siphon
Liners						

PACKERS : Kind _____
Sizes _____
Depths set _____

For Division of Oil and Gas Use Only

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

506033



- 1) Date: November 29, 1990
- 2) Operator's well number Albert H. Cole Trustee, etal #B-10, S.N.133-
- 3) API Well No: 47 - 045 - 1149
State - County - Permit

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

NOTICE AND APPLICATION FOR A WELL WORK PERMIT

- 4) Surface Owner(s) to be served:
 - (a) Name Cole & Crane Real Estate Trust Address Suite 215 Frederick Bldg. Huntington, WV 25701
 - (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 _____
 - Name _____ 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)

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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 Vice President
 Address P. O. Box 391 Ashland, KY 41114
 Telephone 606-329-5450

Subscribed and sworn before me this 29th day of November, 1990

 Notary Public
 My commission expires November 23, 1994