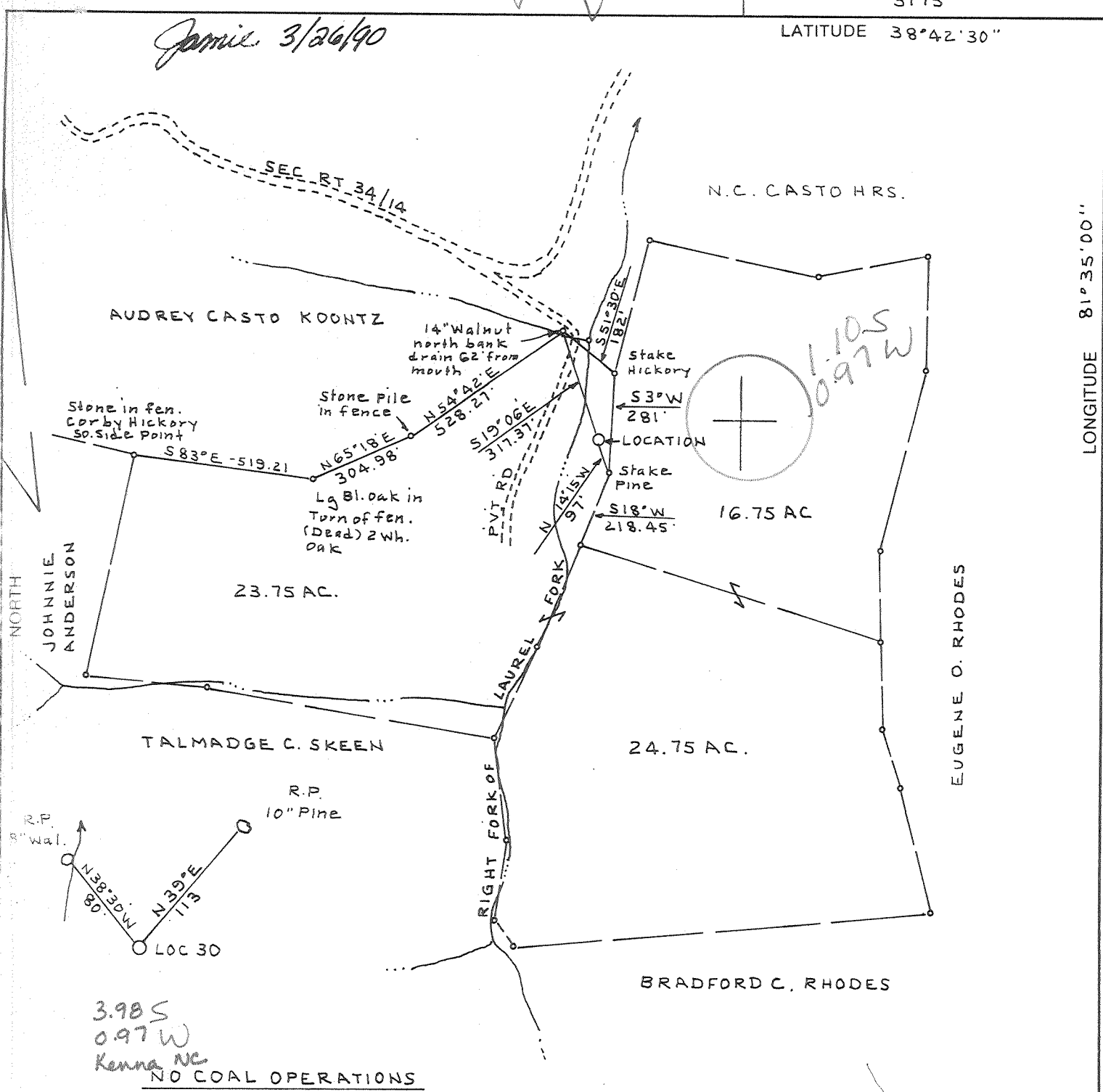


Jamie 3/26/90



LONGITUDE 81°00'58" W
5825'

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

FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 400'
 MINIMUM DEGREE OF ACCURACY 1:2500'
 PROVEN SOURCE OF ELEVATION Rd forks 3180'
n.w. Location El 1038'

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) C. J. Valley Jr.
 R.P.E. _____ C.L.S. 92

PLACE SEAL HERE

STATE OF WEST VIRGINIA
 DEPARTMENT OF ENERGY
 OIL AND GAS DIVISION



DATE MARCH 10, 1990
 OPERATOR'S WELL NO. 30, Ser. No. 120691
 API WELL NO. _____

WELL TYPE: OIL _____ GAS X LIQUID INJECTION _____ WASTE DISPOSAL _____
 (IF "GAS,") PRODUCTION _____ STORAGE X DEEP _____ SHALLOW X
 LOCATION: ELEVATION 802.45 WATERSHED RIGHT FORK OF LAUREL FORK
 DISTRICT WASHINGTON 5 COUNTY JACKSON
 QUADRANGLE KENTUCK

SURFACE OWNER TALMADGE C. SKEEN ACREAGE 23.75 AC TR.
 OIL & GAS ROYALTY OWNER ELIZABETH WARD PERKINSEST. ETAL LEASE ACREAGE 27,600'
 LEASE NO. 2428

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 5,057. KB
 WELL OPERATOR ASHLAND EXPLORATION INC. DESIGNATED AGENT FORREST BURKETT
 ADDRESS P.O. BOX 391 ASHLAND KY 41101 ADDRESS P.O. BOX 379 BRENTON WV 24818

COUNTY NAME
PERMIT

APR 06 1990

DEEP WELL 6-6 Elk-Poca (Sissonville) (192)

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

Well Operator's Report of Well Work

Farm name: SKEEN, TALMADGE C. Operator Well No.: 30-S-120691

LOCATION: Elevation: 802.45 Quadrangle: KENTUCK

District: WASHINGTON County: JACKSON
Latitude: 5825 Feet South of 38 Deg. 42Min. 30 Sec.
Longitude 5175 Feet West of 81 Deg. 35 Min. 0 Sec.

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

Casing & Tubing	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
Size			
16"	40'	40'	11.8
9 5/8"	599'	599'	130
7"	2089'	2089'	377
4 1/2"	5050'	5050'	306
2 3/8" @	4926' w/AD-1	Pkr @ 2451'	

Agent: FORREST BURKETT

Inspector: JERRY TEPHABOCK
Permit Issued: 04/04/90
Well work Commenced: 5/19/90
Well work Completed: 7/6/90
Verbal Plugging
Permission granted on:
Rotary x Cable _____ Rig
Total Depth (feet) 5068'
Fresh water depths (ft) 110', 560'

Salt water depths (ft) 1" stream @
1718', 1792'

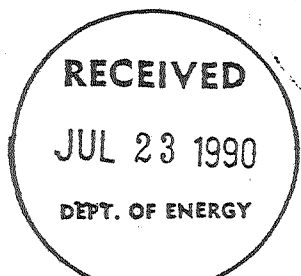
Is coal being mined in area (Y/N)? N
Coal Depths (ft): "None Noted"

OPEN FLOW DATA

Producing formation Devonian Shale Pay zone depth (ft) 3640-4940
Gas: Initial open flow 30 MCF/d Oil: Initial open flow _____ Bbl/d
Final open flow 1074/492 MCF/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests 3 Hours
Static rock Pressure 982 psig (surface pressure) after 72 Hours

Second producing formation Berea Pay zone depth (ft) 2412-2416
Gas: Initial open flow 0 MCF/d Oil: Initial open flow _____ Bbl/d
Final open flow 582 MCF/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests 3 Hours
Static rock Pressure 866 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.

JUL 27 1990

By: James L. Stephens James L. Stephens, Engr. Tech.
Date: 7/20/90

<u>FORMATION OR ROCK TYPE</u>	<u>TOP</u>	<u>BASE</u>
Sand & Shale	0	1593
Lower Lee Sand	1593	1802
Shales	1802	1809
Big Lime	1809	1947
Injun	1947	2015
Sand & Shales	2015	2390
Coffee Shale	2390	2411
Berea	2411	2416
Devonian Shale	2416	5044
Onondaga LS	5044	TD
DTD 5068		
LTD 5060		

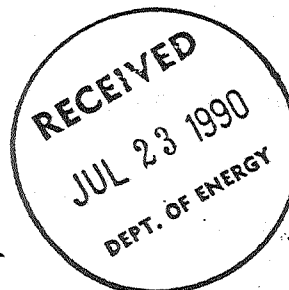
JD 2416
 LH 3642
 J 4319
 A 4478
 Rh 4738

WELL TREATMENT

Perf L. Devonian Shale 25H/4674-4940. N₂ frac using 750 gal 15%
 Inh. Fe acid, 949,000 SCF N₂ @ 86,000 SCF/min. BD @ 3330#, ATP
 4754#, MTP 4840#, ISIP 2460# & 15 min 1793#.

Perf U. Devonian Shale 25H/3640-4253. N₂ frac using 1,000,000 SCF N₂
 @ 92,000 SCF/min. BD @ 3147#, ATP 4358#, MTP 4747#, ISIP 2678# & 15 min
 1566#.

Perf Berea 13H/2412-2416. Break down Berea perms w/1000 gal 15% Inh Fe acid.
 BD @ 1200#, ATP 1175# @ 5 B/M, MTP 1250#, ISIP 1100#, 15 min 625# & TF 64 bbls.
 75 Q foam frac Berea using 10,300# 20/40 sand, 250,000 SCF N₂ @ 4598 SCF/min
 & 17.3#/1000 gal gel system. ATP 1965# @ 8 bpm foam rate, MTP 2030#, ISIP
 1840#, 15 min 1560# & TF 82 bbls.



102301

035-2209

035 2209

FORM WW-2B

DIVISION OF OIL & GAS Page 1 of 1

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

Issued 4/4/90 Expires 4/4/92

- 1) Well Operator: Ashland Exploration, Inc. 2750 (5) 416
2) Operator's Well Number: 30, Serial #120691 3) Elevation: 802.4
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: 5057'KB feet
7) Approximate fresh water strata depths: 415 560
8) Approximate salt water depths: 1792'KB
9) Approximate coal seam depths: None
10) Does land contain coal seams tributary to active mine? Yes / No X
11) Proposed Well Work: Drill & Stimulate New Well
12)

CASING AND TUBING PROGRAM

Table with columns: TYPE, SPECIFICATIONS (Size, Grade, Weight per ft.), FOOTAGE INTERVALS (For drilling, Left in well), CEMENT (Fill-up). Rows include Conductor, Fresh Water, Coal, Intermediate, Production, Tubing, and 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 (Type) Agent

RECEIVED
MAR 16 1990
DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

Date: March 16, 1990
Operator's well number
E. W. Perkins, etal No. 30, Serial #120691
API Well No: 47 - 035 - 2209
State - County - Permit

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

- | | |
|---|---|
| <p>4) Surface Owner(s) to be served:</p> <p>(a) Name <u>Talmadge C. Skeen</u>
Address <u>Rt. 2, Box 32</u>
<u>Kenna, WV 25248</u></p> <p>(b) Name <u>Audrey Koontz</u>
Address <u>2341 Fisher Ridge Road</u>
<u>Kenna, WV 25248</u></p> <p>(c) Name _____
Address _____</p> | <p>5) (a) Coal Operator:</p> <p>Name <u>N/A</u>
Address _____</p> <p>(b) Coal Owner(s) with Declaration
Name <u>No Coal</u>
Address _____</p> <p>Name _____
Address _____</p> <p>(c) Coal Lessee with Declaration
Name <u>N/A</u>
Address _____</p> |
| <p>6) Inspector <u>Jerry Tephacock</u>
Address <u>Route 1, Box 101-A</u>
<u>Ripley, WV 25271</u>
Telephone (304)-<u>372-6805</u></p> | |

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: Manager Eastern Region
Address P.O. Box 391
Ashland, KY 41114
Telephone 606/329-5450

Subscribed and sworn before me this 16th day of March, 1990

Ticki W. South Notary Public
My commission expires November 23, 1990