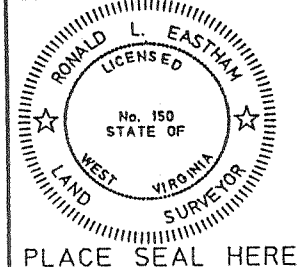


NOTES:
 All known oil & gas wells within 3,000' of the proposed location are shown hereon.
 The bearings and distances shown hereon are based on the West Virginia State Plane Coordinate System, South Zone NAD '27.
 We did not find any water wells, or springs, within 1,000' of the proposed location.

Coordinates for Location Well No. A-70
 N 556,050.66 : E 1,789,781.27

FILE NO. 4554 WK
 DRAWING NO. 70WW6
 SCALE 1" = 500'
 MINIMUM DEGREE OF ACCURACY 1 : 21,504
 PROVEN SOURCE OF ELEVATION U.S.C.&G.S. BM "H-98"
Elev. = 727.82, NGVD 29

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 THE LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF ENERGY.
 (SIGNED) Ronald L. Eastham
 R.P.E. _____ L.L.S. 150



STATE OF WEST VIRGINIA
 DIVISION OF ENVIRONMENTAL PROTECTION
 OFFICE OF OIL AND GAS
 NITRO, WV

DATE February 14, 2001
 OPERATOR'S WELL NO. A-70
 API WELL NO. 47-039-05404
 STATE COUNTY PERMIT

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
 (IF "GAS,") PRODUCTION STORAGE DEEP SHALLOW

LOCATION: ELEVATION 801.23 WATER SHED Spring Branch of Kelly Creek of the Pocatalico River
 DISTRICT Union COUNTY Kanawha
 QUADRANGLE Sissonville

SURFACE OWNER Kenneth Eugene Britton, et ux ACREAGE 105 (T.M. 3, Par. 42)
 OIL & GAS ROYALTY OWNER J. L. McLean Heirs LEASE ACREAGE 24,610.875
 LEASE NO. 47-560

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 Oriskany ESTIMATED DEPTH 5740'
 WELL OPERATOR Cabot Oil & Gas Corp. DESIGNATED AGENT John Abshire
 ADDRESS 900 Lee Street East, Suite 500 ADDRESS 900 Lee Street East, Suite 500
Charleston, WV 25301 Charleston, WV 25301

FORM WW-5

COUNTY NAME KANAWHA

PERMIT 5404

DEEP WELL

6-6 312

AUG 24 2001

DEEP

Date: February 17, 2002

API # 47-039-05404

State of West Virginia
Division of Environmental Protection
Section of Oil and Gas
Well Operator's Report of Well Work

Handwritten initials 'ALB'

Farm name: Kenneth Britton

Operator Well No.: McLean A-70

LOCATION: Elevation: 801' Quadrangle: Sissonville
District: Union County: Kanawha
Latitude: 6,155 feet South of 38 DEG. 32 MIN. 30 SEC.
Longitude: 7,575 feet West of 81 DEG. 42 MIN. 30 SEC.

Company: Cabot Oil & Gas Corporation
900 Lee Street East, Suite 500
Charleston, WV 25301

Agent: John Abshire
Inspector: Carlos Hively
Permit Issued: 8/21/01
Well Work Commenced: 9/14/01
Well Work Completed: 1/10/02
Verbal Plugging
Permission granted on:
Rotary X Cable
Total Depth (feet) 5768'
Fresh Water Depths (ft) 92'
Salt Water Depths (ft) 1196', 1480', 1601'
Is coal being mined in area (Y / N)? N
Coal Depths (ft) 181'-186', 220'-223', 505'-509'

Table with 4 columns: Casing & Tubing Size, Used in Drilling, Left in Well, Cement Fill up Cu. Ft. Rows include 16", 9 5/8", 7", 4 1/2", and 2 3/8" casing sizes.

OPEN FLOW DATA

Producing formation NEWBURG Pay zone depth (ft) 5634' - 5648'
Gas: Initial open flow 60 MCF/d Oil: Initial open flow 0 Bbl/d
Final open flow 84 Commingled MCF/d Final open flow 0 Bbl/d
Time of open flow between initial and final tests 4 Hours
Static rock pressure 900 psig (surface pressure after 87 Hours

Second producing formation ORISKANY Pay zone depth (ft) 4888' - 4908'
Gas: Initial open flow ODOR MCF/d Oil: Initial open flow 0 Bbl/d
Final open flow 84 Commingled MCF/d Final open flow 0 Bbl/d
Time of open flow between initial and final tests 4 Hours
Static rock pressure 900 psig (surface pressure after 87 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: CABOT OIL & GAS CORPORATION

By: [Signature] Operations Manager
Date: 2-18-02

MAR 15 2002

KAN 5404

Perforated Newburg using 3 1/8" HSC(12 gram, 0.33 entry) 4SPF from 5634'-5648' KB (56 holes).

Performed Xlink gel frac on (Newburg) as follows: Breakdown: Max psi 2200 at surface, pumped 112 bbls water, 12 bbl acid, could not get a good break at 3000 psi (Max psi) . Avg Treating:1896 psig, Max Treating:2975 psig. Total Slurry Vol:80.1 bbl, Total Fluid Vol:124 bbl, Avg Inj Rate:1.5 bpm, Max Inj Rate:1.5 bpm. Performed X-link gel frac on stage 1 as follows: Breakdown:3000 psig, Avg Treating:4800 psig, Max Treating:5512 psig, Final ISIP:4100 psig, 5-Min ISIP:3101 psig, 10-Min ISIP:3084 psig, 15 Min ISIP - 3017, 20 Min ISIP - 2953. Total Slurry Vol:383 bbl, Total Fluid Vol:365 bbl, Avg Inj Rate:1.5 bpm, Max Inj Rate:9.2 bpm, Max Prop Con:2.4 ppg, Total Prop:169 sks.

Perforated Oriskany section using 3 1/8" HSC (12 gram, .33 entry) 2 SPF from 4888'-4908'KB (41 holes). Packer set @ 4828' KB. Packer would not hold , had to pull tubing up to 4754' KB before packer would hold. Performed X-link gel frac on stage 2 as follows: Breakdown:4000 psig, Avg Treating:5100 psig, Max Treating: 5246 psig, Final ISIP:4115 psig 5-Min, ISIP:3726 psig, 10-Min ISIP:3406 psig. Total Slurry Vol: 111 bbl, Total Fluid Vol:200 bbl, Avg Inj Rate:4 bpm, Max Inj Rate:6.2 bpm, Max Prop Con:1 ppa, Total Prop:4300# 20/40 sand. LMFP @ 4930' KB.

FORMATION	TOP	BOTTOM	REMARKS
SILT/SHALE	0	1090	
SHALE	1090	1388	
SANDSTONE	1388	1773	
BIG LIME	1773	1900	
INJUN	1900	1980	
SHALE	1980	2366	
BEREA	2366	2382	
SHALE	2382	4793	
ONONDAGA	4793	4884	
ORISKANY	4884	4910	
LIME/DOLOMITE	4910	5630	
NEWBURG	5630	5650	
DOLOMITE	5650	5768' TD	

