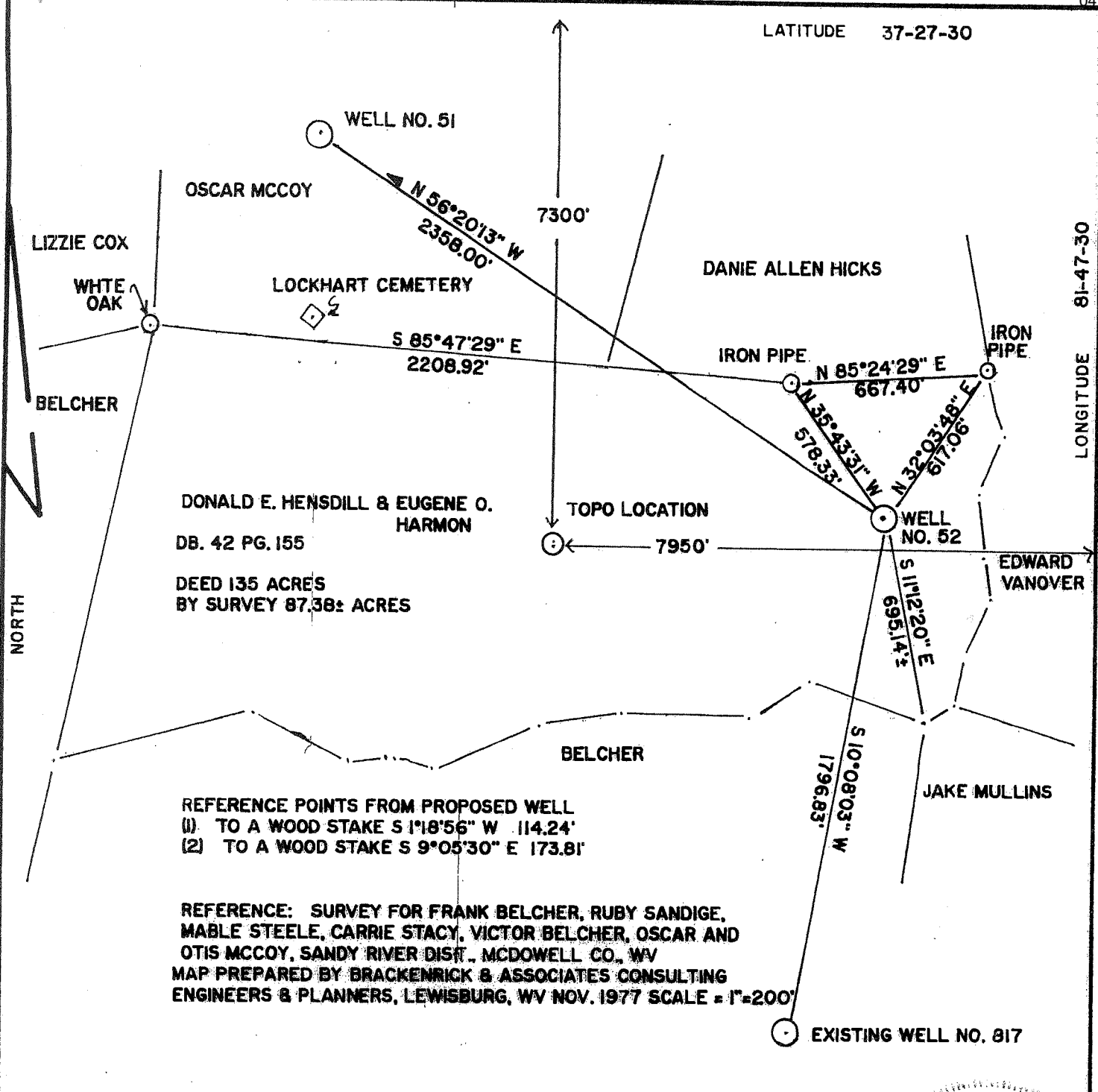


LATITUDE 37-27-30

LONGITUDE 81-47-30

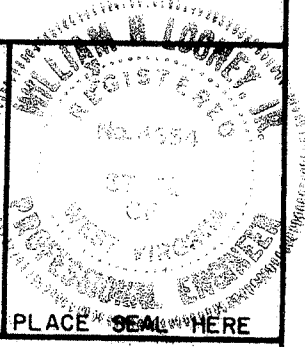


REFERENCE POINTS FROM PROPOSED WELL
 (1) TO A WOOD STAKE S 1°18'56" W 114.24'
 (2) TO A WOOD STAKE S 9°05'30" E 173.81'

REFERENCE: SURVEY FOR FRANK BELCHER, RUBY SANDIGE, MABLE STEELE, CARRIE STACY, VICTOR BELCHER, OSCAR AND OTIS MCCOY, SANDY RIVER DIST., MCDOWELL CO., WV
 MAP PREPARED BY BRACKENRICK & ASSOCIATES CONSULTING ENGINEERS & PLANNERS, LEWISBURG, WV NOV. 1977 SCALE = 1"=200'

FILE NO. 84002A
 DRAWING NO. 2
 SCALE 1" = 500'
 MINIMUM DEGREE OF ACCURACY 1"=5000'
 PROVEN SOURCE OF ELEVATION ALTIMETER READING FROM USC GS BM 198 BRASS PLATE IN NW

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) William H. Looney, Jr.
 R. P. E. 4-4 L. L. S.



BRIDGE ABUTMENT W SIDE RTE. 52 BRIDGE IN IAEGE R
 (+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS
 FORM IV-6
 (8-78)



DATE JUNE 12, 20 08
 OPERATOR'S WELL NO. 52
 API WELL NO. 47-047-00924 F
 STATE COUNTY PERMIT

Division of Environmental Protection
 Office of Oil & Gas

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
 (IF "GAS", PRODUCTION STORAGE DEEP SHALLOW
 LOCATION: ELEVATION 1840.00' WATER SHED DRY FORK RIVER
 DISTRICT SANDY RIVER COUNTY MCDOWELL
 QUADRANGLE IAEGE R

SURFACE OWNER DONALD E. HENS DILL - EUGENE O. HARMON ACREAGE DEED 135 AC. SURVEYED 87.38 ACRES
 OIL & GAS ROYALTY OWNER DONALD E. HENS DILL - EUGENE O. HARMON LEASE ACREAGE BY DEED

PROPOSED WORK: DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE PLUG OFF OLD FORMATION PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____

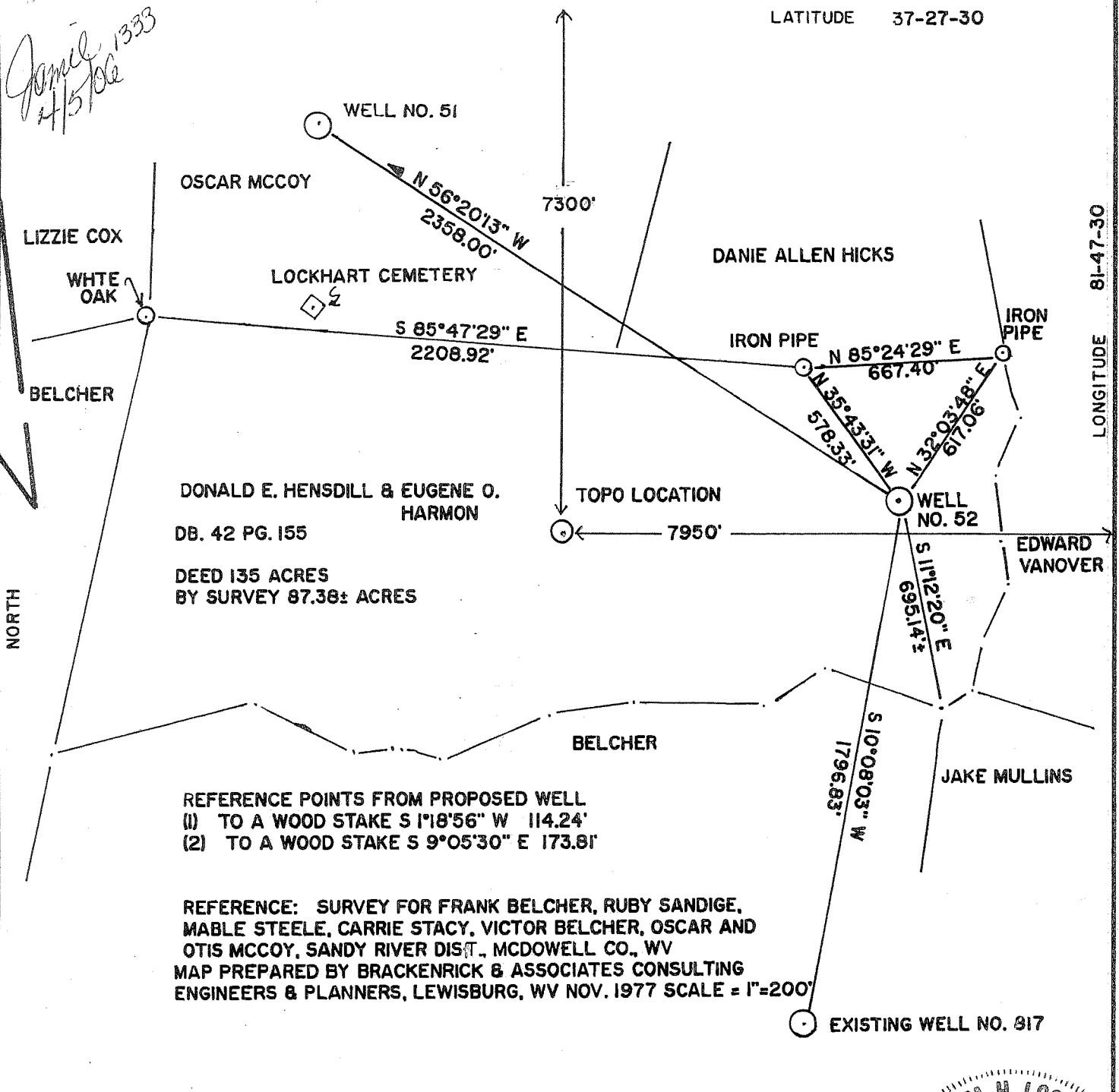
PLUG AND ABANDON CLEAN OUT AND REPLUG
 TARGET FORMATION DEVONIAN SHALE ESTIMATED DEPTH 6100'
 WELL OPERATOR ENERGY DEVELOPMENT CORP. DESIGNATED AGENT SANDRA K. BELCHER JUL 25 2008
 ADDRESS 534 VIRGINIA AVENUE ADDRESS RT. 3 BOX 425
BLUEFIELD, VA. 2460 BLUEFIELD, WV. 24701

MCDOWELL 0924 F

LATITUDE 37-27-30

LONGITUDE 81-47-30

*Janice 1333
4/5/02*

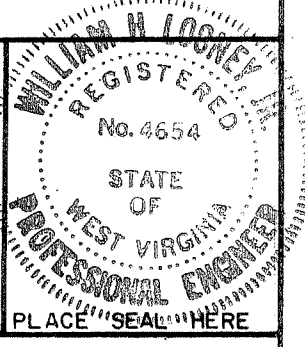


REFERENCE POINTS FROM PROPOSED WELL
 (1) TO A WOOD STAKE S 1°18'56" W 114.24'
 (2) TO A WOOD STAKE S 9°05'30" E 173.81'

REFERENCE: SURVEY FOR FRANK BELCHER, RUBY SANDIGE,
 MABLE STEELE, CARRIE STACY, VICTOR BELCHER, OSCAR AND
 OTIS MCCOY, SANDY RIVER DIST., MCDOWELL CO., WV
 MAP PREPARED BY BRACKENRICK & ASSOCIATES CONSULTING
 ENGINEERS & PLANNERS, LEWISBURG, WV NOV. 1977 SCALE = 1"=200'

FILE NO. 84002A
 DRAWING NO. 2
 SCALE 1" = 500'
 MINIMUM DEGREE OF ACCURACY 1"=5000'
 PROVEN SOURCE OF ELEVATION ALTIMETER READING FROM USC GS BM 198 BRASS PLATE IN NW

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) *William H. Looney Jr.*
 R.P.E. 4654 L.L.S.



BRIDGE ABUTMENT W SIDE RTE. 52 BRIDGE IN IAEGER
 (+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS
 FORM IV-6
 (8-78)



DATE MARCH 15, 20 06
 OPERATOR'S WELL NO. 52
 API WELL NO. 47 - 047 - 00924D
 STATE 47 COUNTY 047 PERMIT 00924D

Division of Environmental Protection
 Office of Oil & Gas

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
 (IF "GAS", PRODUCTION STORAGE DEEP SHALLOW
 LOCATION: ELEVATION 1840.00' WATER SHED DRY FORK RIVER
 DISTRICT SANDY RIVER COUNTY MCDOWELL
 QUADRANGLE IAEGER

SURFACE OWNER DONALD E. HENS DILL - EUGENE O. HARMON ACREAGE DEED 135 AC. SURVEYED 87.38 ACRES
 OIL & GAS ROYALTY OWNER DONALD E. HENS DILL - EUGENE O. HARMON LEASE ACREAGE BY DEED
 LEASE NO. _____

PROPOSED WORK: DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE PLUG OFF OLD FORMATION PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____

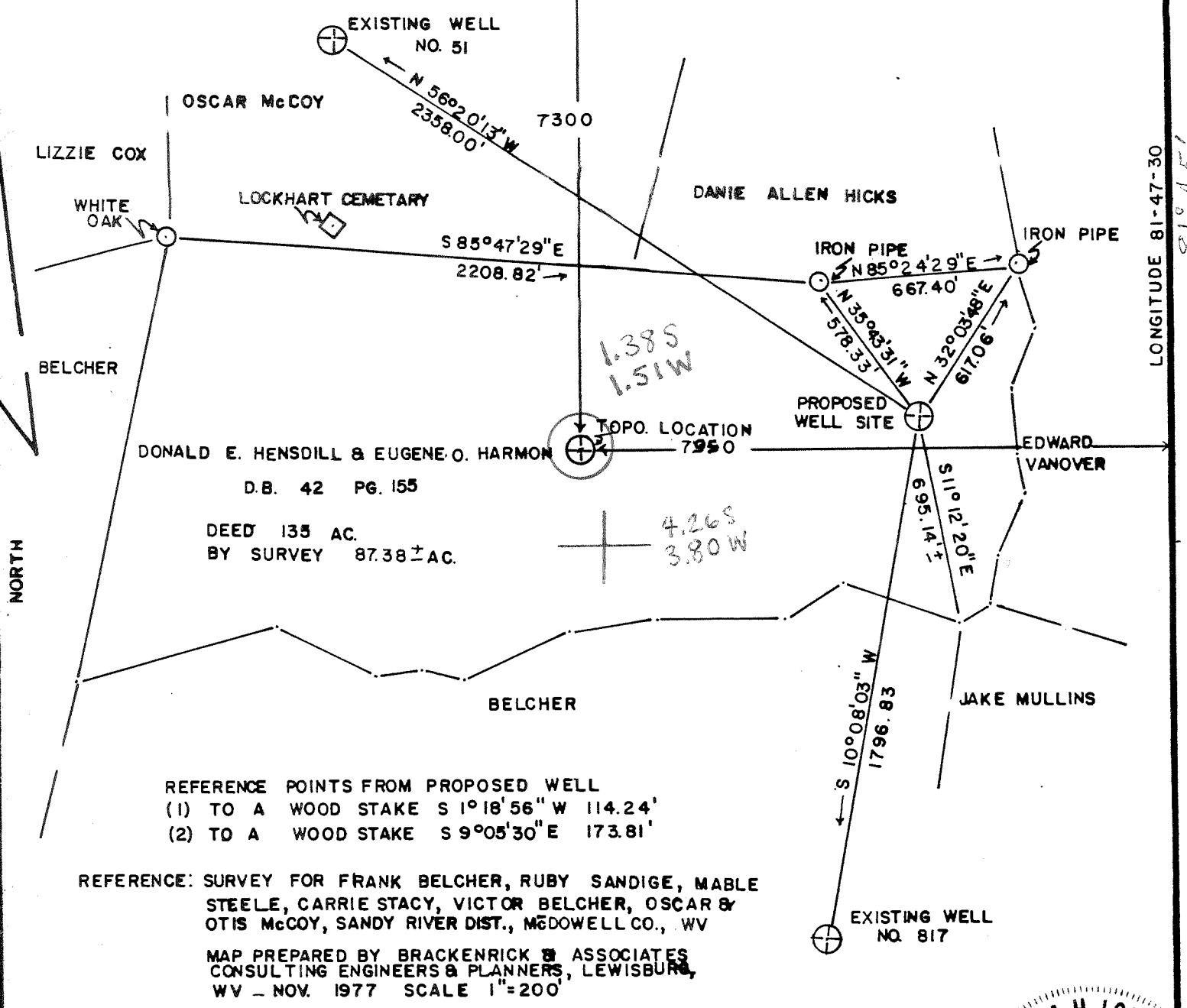
PLUG AND ABANDON CLEAN OUT AND REPLUG
 TARGET FORMATION DEVONIAN SHALE ESTIMATED DEPTH 6100'
 WELL OPERATOR ENERGY DEVELOPMENT CORP. DESIGNATED AGENT SANDRA K. BELCHER
 ADDRESS 534 VIRGINIA AVENUE ADDRESS RTE. 3 BOX 425
BLUEFIELD, VA. 2460 BLUEFIELD, WV. 24701

Mcdow 924

(Big Sandy - 285) 6-6

Charles

CODE _____ CARD ✓ PLOT ✓



REFERENCE POINTS FROM PROPOSED WELL
 (1) TO A WOOD STAKE S 1°18'56" W 114.24'
 (2) TO A WOOD STAKE S 9°05'30" E 173.81'

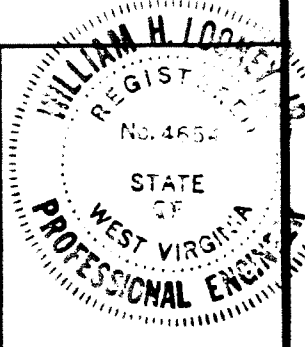
REFERENCE: SURVEY FOR FRANK BELCHER, RUBY SANDIGE, MABLE STEELE, CARRIE STACY, VICTOR BELCHER, OSCAR & OTIS McCOY, SANDY RIVER DIST., MCDOWELL CO., WV

MAP PREPARED BY BRACKENRICK & ASSOCIATES
 CONSULTING ENGINEERS & PLANNERS, LEWISBURG,
 WV - NOV. 1977 SCALE 1"=200'

FILE NO. 84002
 DRAWING NO. 2
 SCALE 1"=500'
 MINIMUM DEGREE OF ACCURACY
1"=5000'
 PROVEN SOURCE OF ELEVATION
 ALTIMETER READING FROM USC GS BM
198 BRASS PLATE IN NORTHERN BRIDGE
ABUTMENT W. SIDE U.S. RT. 52
BRIDGE IN JAGER.

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.

APPALACHIAN ENGINEERING & SURVEYING, INC.
 212 COLLEGE AVE., BLUEFIELD, W. VA. 24701
 (SIGNED) Wm. H. Looney, Jr.
 W.H. LOONEY, JR. DE. NO. 4654



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



DATE DECEMBER 12, 1984
 OPERATOR'S WELL NO. 52
 API WELL NO. _____
47 047
 STATE COUNTY PERMIT
MCDOWELL 0924

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 1840.00 WATER SHED DRY FORK RIVER
 DISTRICT SANDY RIVER COUNTY MCDOWELL
 QUADRANGLE JAGER 4061 JAGER 061 NE3
 SURFACE OWNER DONALD E. HENSILL-EUGENE O. HARMAN ACREAGE DEED 135 AC. SURVEY 87.36 AC.
 OIL & GAS ROYALTY OWNER DONALD E. HENSILL-EUGENE O. HARMAN LEASE ACREAGE BY DEED
 LEASE NO. _____
 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 BEREA ESTIMATED DEPTH 4400' DEC 26 1984
 WELL OPERATOR ENERGY DEVELOPMENT CORP DESIGNATED AGENT WADE T. WATSON
 ADDRESS P.O. BOX 165 ADDRESS COURTHOUSE ANNEX
BLUEFIELD, VA. 24605 WELCH, WV 24801
6-6 Big Sandy (285)

WR-35

API# 47-047-00924D

State of West Virginia
DEPARTMENT OF ENERGY
Division of Oil and Gas
Well Operator's Report of Well Work

Farm Name: Donald Hensdill Operator Well No. EDC #52 DD
 Location: Elevation: 1840' Quadrangle: Jaeger 7.5
 District: Sandy River County: McDowell
 Latitude: 7,300 Feet South of 37 Degrees 27 Minutes 30 Seconds
 Longitude: 7,950 Feet West of 81 Degrees 47 Minutes 30 Seconds

Company: Energy Development Corp.
534 Virginia Ave.
Bluefield, VA 24605

Agent: Sandra Belcher
 Inspector: Barry Stollings
 Permit Issued: 4/13/2006
 Well work Commenced: 8/28/2007
 Well work Completed: 9/8/2007
 Verbal Plugging Permission granted on: NA
 Rotary Cable Tool Rig
 Total Depth (ft): LTD- 6068' DTD- 6085'
 Fresh Water Depths (ft): NA
 Salt Water Depths (ft): NA
 Is coal being mined in area: No
 Coal Depths: NA

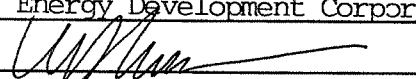
Casing & Tubing	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
12 3/4			
9 5/8			
7			
4 1/2		6013'	705

OPEN FLOW DATA:

Producing formation(s): Dev. Shale Pay zone depth (ft) See back
 Gas: Initial open flow odor MCF/D Oil: Initial open flow 0 Bbl/d
 Final open flow MCF/D Final open flow 0 Bbl/d
 Time of open flow between initial and final tests: 36 Hours
 Static rock pressure psig (surface pressure) after 72 Hours

Second producing formation(s): NA Pay zone depth (ft) See back
 Gas: Initial open flow MCF/D Oil: Initial open flow Bbl/d
 Final open flow 1.2 MCF/D Final open flow Bbl/d
 Time of open flow between initial and final tests: Hours
 Static rock pressure 950# psig (surface pressure) after Hours

NOTE: ON THE 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: Energy Development Corporation
 BY: 
 DATE: January 18, 2008

RECEIVED
Office of Oil & Gas

JAN 23 2008

WV Department of
Environmental Protection

FEB 22 2008

Mc Dow 0924

WR-35

API # 47-047-00924D

page 2

9/13/2007

MIRU Weatherford Wireline Services, run GR/CBL/CCL. CH Logger's TD - 6018'. Calc TOC - 1500', Actual TOC - 2000'. Marker joints at 3408-3419' and 5158-5169'.

10/15/2007

MIRU Superior Well Pumping Services, and Superior Well Wireline Services to conduct 1-stage completion. RIH with "HSC" gun, perforate 1st Stage. Tested lines to 4500 psi. Top pressure set at 4000 psi.

1st Stage, Lower & Middle Huron (5226-5932', 40 holes) Nitrogen Frac

12 Bbls. (500 gals) 15% HCl,

1,900 Mscf N₂, N₂ flush (Total Stage Products, TSP) Dropped 50 perf balls in six stages

BKDN - 3125 psi, ATP - 2800 psi, AIR - 47,000 scf/min, 3 Min SI - 1790 psi

Formation Depths taken from Gamma Ray Log

Shale	4009	-	4435'	
Berea	4435	-	4506'	
Shale	4506	-	5700'	
Lower Huron	5700	-	5940'	
Java	5940	-	6068'	LTD Gas Check 6068'- odor

Well Logged by Allegheny Wireline Services LTD 6068' DTD 6085'

FEB 22 2008

6068
4463

1605

FEB 22 2008



IV-35
(Rev 8-81)

State of West Virginia
Department of Mines
Oil and Gas Division

Date _____
Operator's _____
Well No. #52
Farm Hensdill/Harman
API No. 47 - 047 - 0924

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 ___ / Shallow X /)

LOCATION: Elevation: 1840' Watershed Dry Fork River
District: Sandy River County McDowell Quadrangle Iaeger 7 1/2''

COMPANY Energy Development Corporation
ADDRESS 534 1/2 Virginia Ave., Box 165, Bluefield, VA
DESIGNATED AGENT Wade T. Watson
ADDRESS Courthouse Annex, Welch, WV 24801
SURFACE OWNER D.E. Hensdill/E.O. Harman
ADDRESS _____
MINERAL RIGHTS OWNER SAME
ADDRESS SAME
OIL AND GAS INSPECTOR FOR THIS WORK _____
ADDRESS _____

Casing & Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft.
Size 20-16 Cond.			
13-10"	19'	19'	
9 5/8			
8 5/8	1894.25'	1894.25'	588 CF
7			
5 1/2			
4 1/2			
3			
2			
Liners used			

PERMIT ISSUED _____
DRILLING COMMENCED 12/15/84
DRILLING COMPLETED 12/26/84
IF APPLICABLE: PLUGGING OF DRY HOLE ON
CONTINUOUS PROGRESSION FROM DRILLING OR
REWORKING. VERBAL PERMISSION OBTAINED
ON _____

GEOLOGICAL TARGET FORMATION Berea Depth _____ feet
Depth of completed well 4463' feet Rotary X / Cable Tools _____
Water strata depth: Fresh 71' feet; Salt _____ feet
Coal seam depths: 403 - 407' Is coal being mined in the area? Yes

OPEN FLOW DATA

Producing formation Berea Pay zone depth 4409-4463' feet
Gas: Initial open flow 3,186 Mcf/d Oil: Initial open flow _____ Bbl/d
Final open flow _____ Mcf/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests _____ hours

Static rock pressure _____ psig (surface measurement) after _____ hours shut in
(If applicable due to multiple completion--)

Second producing formation _____ Pay zone depth _____ feet
Gas: Initial open flow _____ Mcf/d Oil: Initial open flow _____ Bbl/d
Final open flow _____ Mcf/d Oil: Final open flow _____ Bbl/d
Time of open flow between initial and final tests _____ hours

Static rock pressure _____ psig (surface measurement) after _____ hours shut in

(Continue on reverse side)

atural
well?

AUG 18 1986
AUG 11 1986

REVERSE)

DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC.

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
FORMATION DEPTHS TAKEN FROM			DRILLER'S LOG BOOK - EKB		1841'
G. L.			0	10	
Sand			10	240	
Sand and shale			240	249	Hole damp @ 71'
Sand			249	395	
Sand and shale			395	403	
Coal			403	407	
Sand and shale			407	528	
Sand			528	630	
Sand and shale			630	690	
Sand			690	729	
Sand and shale			729	765	
Sand			765	798	
Sand and shale			798	843	
Sand			843	890	
Sand and shale			890	1010	
Sand			1010	1060	
Sand and shale			1060	1091	
Sand			1091	1322	
Sandy shale			1322	1325	
Sand			1325	1819	
Sand and shale			1819	1853	
Sand			1853	2290	
Ravencliff			2290	2405	
Sand			2405	2500	
Sand, shale, redrock			2500	2555	Gas checks at: 2452' - no show
Upper Maxton			2555	2622	
Sand and shale			2622	2758	
Sand			2758	2777	
Sand and shale			2777	2910	
Middle Maxton			2910	3026	
Sand and shale			3026	3090	
Lower Maxton			3090	3169	
Sand and shale			3169	3263	Gas checks at:
Little Lime			3263	3275	
Sand, shale, limestone			3275	3307	
Big Lime			3307	3804	3361 - 239 Mcf/D
Sand and shale			3804	4409	3800 - 304 Mcf/D
Berea			4409	—	4301 - 231 Mcf/D
TOTAL DEPTH			—	4463'	4463 - 3,186 Mcf/D

(Attach separate sheets as necessary)

Energy Development Corporation

Well Operator

By: _____

Date: _____

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."

RECEIVED

DEC 11 1984



1) Date: November 19, 1984 047-00924
2) Operator's Well No. EDC #52
3) API Well No. 47 - 047 - 0924
State County Permit

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

OIL & GAS DIVISION
DEPT. OF MINES

- 4) WELL TYPE: A Oil / Gas X /
B (If "Gas", Production X / Underground storage / Deep / Shallow X /)
5) LOCATION: Elevation: 1840' Watershed: Dry Fork River
District: Sandy River County: McDowell Quadrangle: Jaeger
6) WELL OPERATOR Energy Development Corporation 7) DESIGNATED AGENT Wade T. Watson, Esq.
Address P. O. Box 165 15800 Address Court House Annex
Bluefield, VA 24605 Welch, WV 24801
8) OIL & GAS INSPECTOR TO BE NOTIFIED 9) DRILLING CONTRACTOR:
Name Arthur St. Clair Name Big Sandy Drilling Corporation
Address P. O. Box 157 Address P. O. Box 326
Brenton, WV 24818 Bluefield, VA 24605
10) PROPOSED WELL WORK: Drill X / Drill deeper / Redrill / Stimulate X /
Plug off old formation / Perforate new formation /
Other physical change in well (specify)
11) GEOLOGICAL TARGET FORMATION, Berea
12) Estimated depth of completed well, 4400 feet
13) Approximate trata depths: Fresh, 200 feet; salt, feet.
14) Approximate coal seam depths: 800 Is coal being mined in the area? Yes / No

15) CASING AND TUBING PROGRAM

Table with columns: CASING OR TUBING TYPE, SPECIFICATIONS (Size, Grade, Weight per ft., New, Used), FOOTAGE INTERVALS (For drilling, Left in well), CEMENT FILLUP OR SACKS (Cubic feet), PACKERS (Kinds, Sizes, Depths set, Perforations: Top, Bottom)

OFFICE USE ONLY
DRILLING PERMIT

Permit number 47-047-0924 Date December 11, 1984

This permit covering the well operator and well location shown below is evidence of permission granted to drill in accordance with the pertinent legal requirements subject to the conditions contained herein and on the reverse hereof. Notification must be given to the District Oil and Gas Inspector. (Refer to No. 8) Prior to the construction of roads, locations and pits for any permitted work. In addition, the well operator or his contractor shall notify the proper district oil and gas inspector 24 hours before actual permitted work has commenced.)

The permitted work is as described in the Notice and Application, plat, and reclamation plan, subject to any modifications and conditions specified on the reverse hereof.

Permit expires December 11, 1986 unless well work is commenced prior to that date and prosecuted with due diligence.

Table with columns: Bond, Agent, Plat, Casing, Fee. Values: 60, [Signature], [Signature], MN 148

Margaret J. Kasse
Administrator, Office of Oil and Gas

NOTE: Keep one copy of this permit posted at the drilling location.

File

See the reverse side of the APPLICANT'S COPY for instructions to the well operator.