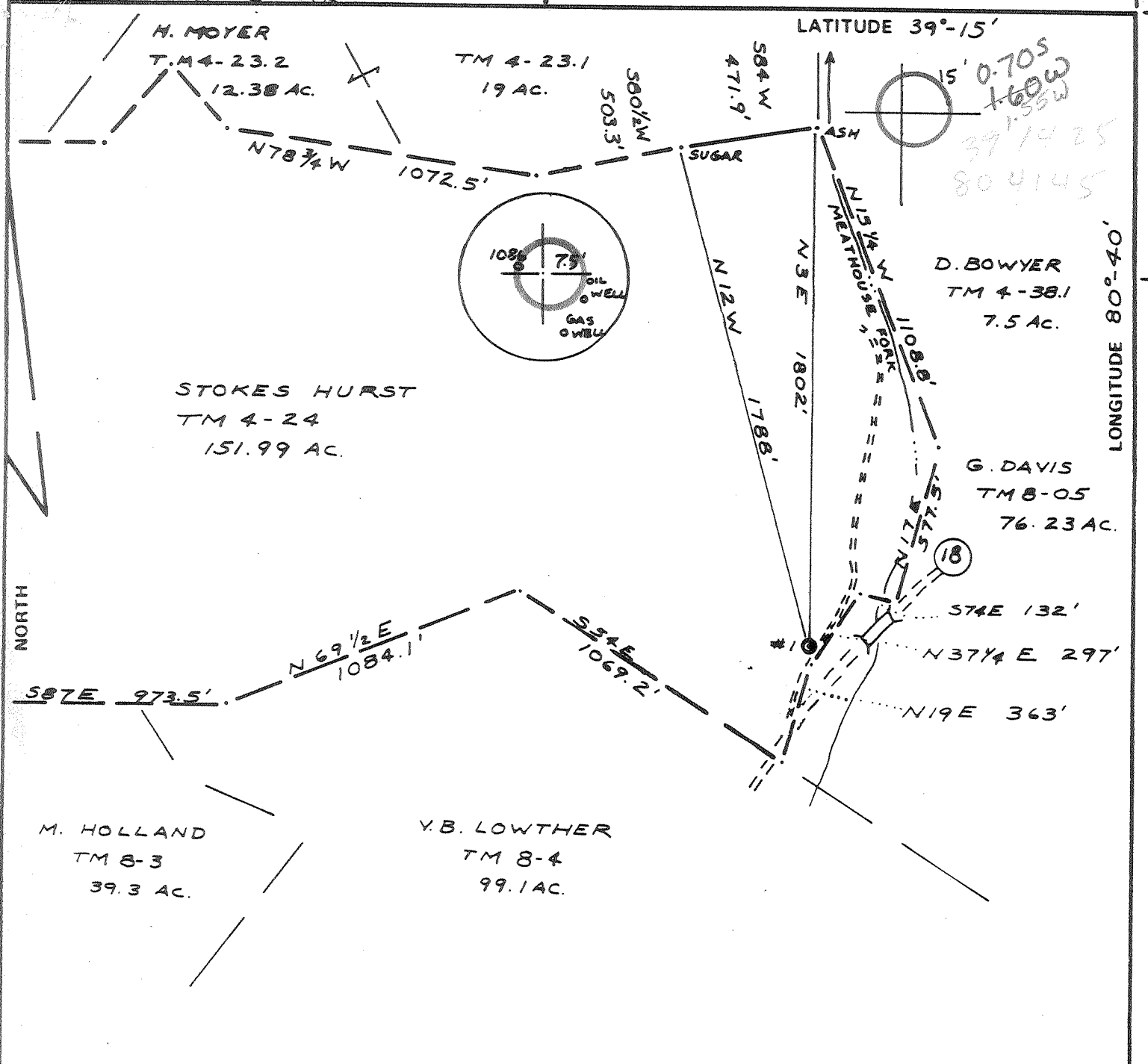


M.S. 2-3-82

8,200'



FILE NO. 81-44
 DRAWING NO. 1
 SCALE 1" = 500'
 MINIMUM DEGREE OF ACCURACY 1/200
 PROVEN SOURCE OF ELEVATION BM 844

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) Neal Hughes
 R.P.E. _____ L.L.S. 632

PLACE SEAL HERE

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



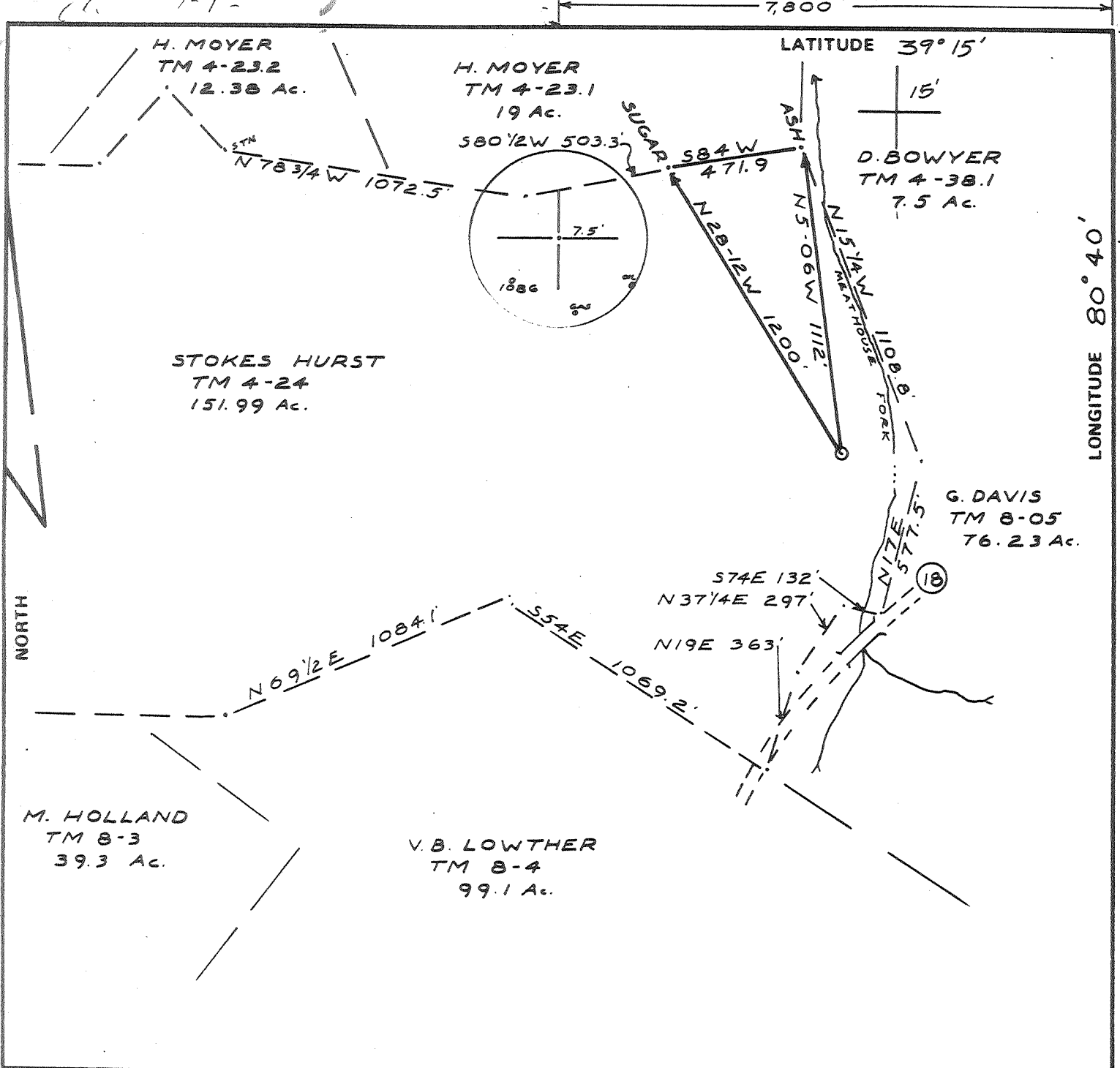
STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION

DATE NOV. 9, 19 81
 OPERATOR'S WELL NO. 1 McCLAIN
 API WELL NO. 47-17-3074
 STATE COUNTY PERMIT
 Formerly: DOD-3065

WELL TYPE: OIL GAS LIQUID INJECTION _____ WASTE DISPOSAL _____
 (IF "GAS,") PRODUCTION _____ STORAGE _____ DEEP _____ SHALLOW _____
 LOCATION: ELEVATION 850' WATER SHED MEATHOUSE FORK
 DISTRICT NEW MILTON COUNTY DODDRIDGE
 QUADRANGLE NEW MILTON 7.5' Vadis 15' DW
 SURFACE OWNER STOKES HURST ACREAGE 151.99
 OIL & GAS ROYALTY OWNER Stokes Hurst LEASE ACREAGE _____
 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 BIG INJUN ESTIMATED DEPTH 2200
 WELL OPERATOR WATKINS & WATKINS DESIGNATED AGEN. _____
 ADDRESS _____ ADDRESS SAME
LUMBERPORT, W.VA.

MAR 01 1982



FILE NO. PANTHER
 DRAWING NO. 1
 SCALE 1" = 500'
 MINIMUM DEGREE OF ACCURACY 1/200
 PROVEN SOURCE OF ELEVATION BM 844

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) Neal Hughes
 R.P.E. _____ L.L.S. 632

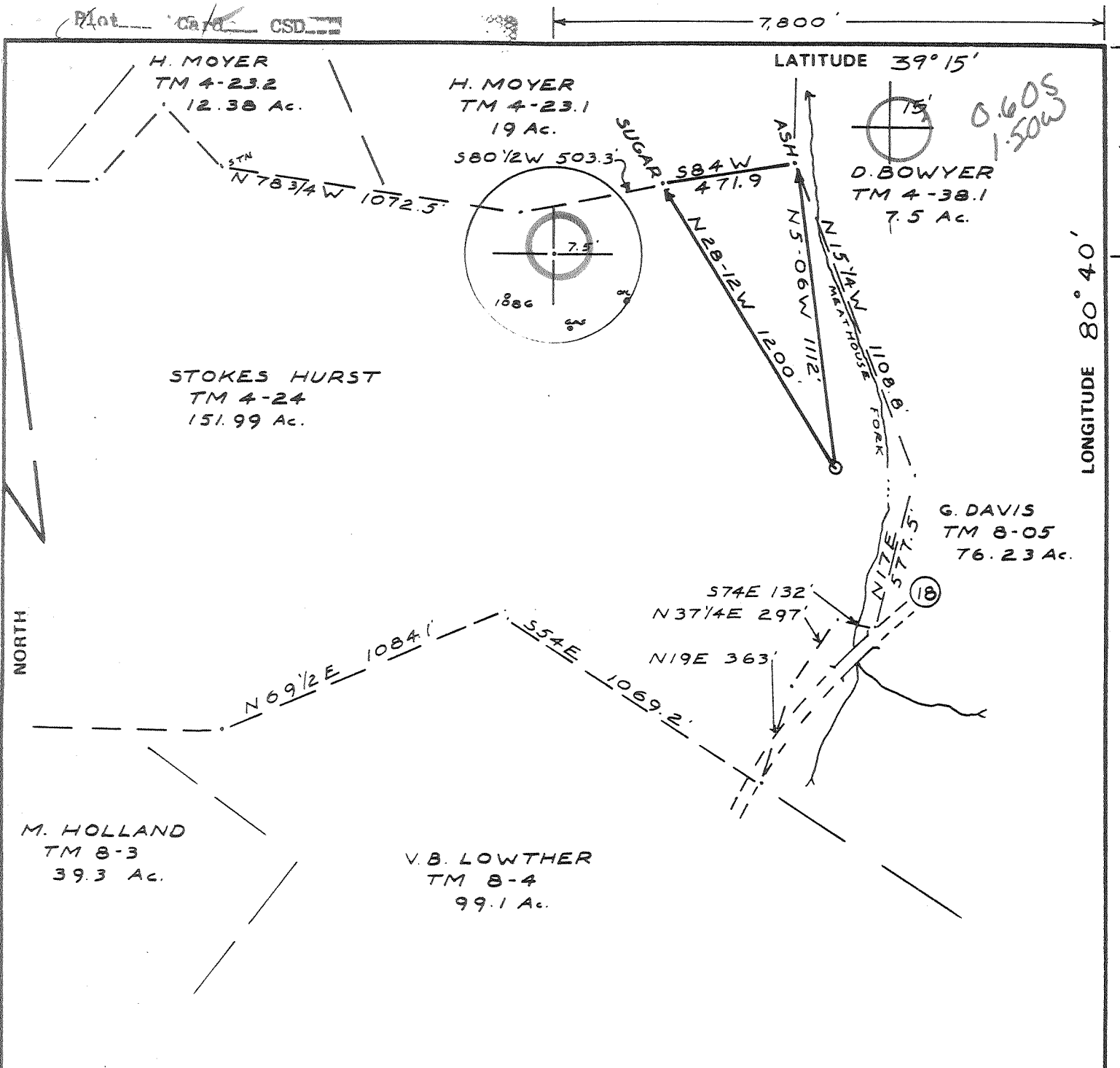
PLACE SEAL HERE

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS
 FORM IV-6 (8-78)
 WELL TYPE: OIL GAS LIQUID INJECTION _____ WASTE DISPOSAL _____
 (IF "GAS,") PRODUCTION _____ STORAGE _____ DEEP _____ SHALLOW _____
 LOCATION: ELEVATION 830' WATER SHED MEATHOUSE FORK
 DISTRICT NEW MILTON COUNTY DODDRIDGE
 QUADRANGLE NEW MILTON 7.5'
 SURFACE OWNER STOKES HURST ACREAGE 151.99
 OIL & GAS ROYALTY OWNER Stokes Hurst LEASE ACREAGE 151.19
 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 BIG INJUN ESTIMATED DEPTH 5,140'
 WELL OPERATOR WATKINS & WATKINS INC DESIGNATED AGENT T. J. Watkins
 ADDRESS P.O. Box 386 ADDRESS _____
LUMBERPORT, W.V.



STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION

DATE NOV. 20, 19 81
 OPERATOR'S WELL NO. 1
 API WELL NO. _____
47 - 017 - 3065
 STATE COUNTY PERMIT
Can called
See: DOD-3074
Now:
 FEB 22 1982



FILE NO. PANTHER
 DRAWING NO. 1
 SCALE 1" = 500'
 MINIMUM DEGREE OF ACCURACY 1/200
 PROVEN SOURCE OF ELEVATION BM 844

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) Neal Hughes
 R.P.E. _____ L.L.S. 632

PLACE SEAL HERE

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

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

LOCATION: ELEVATION 830' WATER SHED MEATHOUSE FORK
 DISTRICT NEW MILTON COUNTY DODDRIDGE
 QUADRANGLE NEW MILTON 7.5' Vadis 15' NW

SURFACE OWNER STOKES HURST ACREAGE 151.99
 OIL & GAS ROYALTY OWNER Stokes Hurst LEASE ACREAGE 151.99
 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 RIG INTUN ESTIMATED DEPTH 2,100'
 WELL OPERATOR WATKINS & WATKINS INC DESIGNATED AGENT _____
 ADDRESS P.O. Box 386 ADDRESS _____
LUMBERTON, W.V.

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION

DATE NOV. 20, 19 81
 OPERATOR'S WELL NO. 1
 API WELL NO. _____
47 - 017 - 3065
 STATE COUNTY PERMIT

now: 017 3074

JAN 21 1982

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

Date April 22, 1982

FORM 17-35
(Obverse)

Operator's McClain # 1
Well No. (Stokes Hurst) 3074
API Well No. 17 - 017
State County Wayne

WELL OPERATOR'S REPORT
OF

DRILLING, TRACTING AND/OR STIMULATING, OR PHYSICAL CHANGE

WELL TYPE: Oil / Gas / Liquid Injection / Waste Disposal
(If "Gas", Production / Underground storage / Deep / Shallow)
LOCATION: Elevation: 850' Watershed: Meathouse Fork
District: New Milton County: Doddridge Quadrangle: _____

WELL OPERATOR Watkins & Watkins DESIGNATED AGENT Watkins & Watkins
Address P.O. Box 386 Address P.O. Box 386
Lumberport W. V. Lumberport W.V.

PERMITTED WORK: Drill / Convert / Drill deeper / Redrill / Fracture or stimulate
Plug off old formation / Perforate new formation /
Other physical change in well (specify) _____

PERMIT ISSUED ON _____, 19____ OIL & GAS INSPECTOR FOR THIS WORK:
IF APPLICABLE: PLUGGING OF DRY HOLE OR CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED Name Steve Casey
Address Jane Lew W. V.

GEOLOGICAL TARGET FORMATION: Big Injun Depth 2,000 feet
Depth of completed well, 1,925 feet Rotary / Cable Tools
Water strata depth: Fresh, 100 feet; salt, _____ feet.
Coal seam depths: None Is coal being mined in the area? _____
Work was commenced 1 - 20, 1982, and completed 1 - 26, 1982

LOGGING AND TUBING PROGRAM

LOGGING OR TUBING TYPE	SPECIFICATIONS					FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS
	Size	Grade	Weight per ft	New	Used	For drilling	Left in well		
Conductor	11	5/8		X			20'		Winds
Cash water	8	5/8	20#	X			400'	To surface	
Intermediate									Sizes
Production	4 1/2		10.5	X			1,900	300' above	Producing Horizon Depth set
Perforations:									Top Bottom
									1830 - 1860

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MAY 13 1982

OIL AND GAS DIVISION
WEST VIRGINIA DEPARTMENT OF MINES

FLOW DATA

Producing formation Big Injun Pay zone depth 1830 - 1860 feet
Gas: Initial open flow, 10,000 Mcf/d Oil: Initial open flow, 2 Bbl/d
Final open flow, 30,000 Mcf/d Final open flow, 6 Bbl/d
Time of open flow between initial and final tests, 12 hours
Static rock pressure, 210 # psig (surface measurement) after 24 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 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

MAY 17 1982


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
Sand			0	58	
L.R. Rock			58	62	
Shale			62	77	
Sandstone			77	150	
Sand			150	210	
Sandstone			210	275	
Sand			275	360	
Shale			360	445	
Sand			445	570	
Shale			570	650	
Sand			650	711	
Shale			711	830	
Sand			830	880	
L.R. Slate			880	990	
Sand			990	1270	
Shale			1270	1310	
Sand			1310	1474	
Shale			1474	1556	
Sand			1556	1780	
Shale			1780	1790	
Sand <i>BT</i>			1790	1870	
Shale			1870	1912	

(Attach separate sheets to complete as necessary)

Watkins & Watkins
Well Operator

By Thomas J. Fluharty 
Drilling Supervisor

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."

(Obverse)
(Revised 3-81)



Farm Stokes Hurst #1
API # 47-017-3065 → 3084
Date 12-1-81

STATE OF WEST VIRGINIA
OFFICE OF OIL AND GAS - DEPARTMENT OF MINES

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DEC 3 1981
OIL & GAS
WV DEPT. OF MINES

OIL AND GAS WELL PERMIT APPLICATION

WELL TYPE: Oil Gas
(If "Gas", Production / Underground storage / Deep / Shallow

LOCATION: Elevation: 830' Watershed: MEATHOUSE FORK
District: NEW MILTON County: DODDRIDGE Quadrangle: NEW MILTON 7.5'

WELL OPERATOR WATKINS & WATKINS
Address P.O. Box 386
Lumberport, W.Va.

DESIGNATED AGENT Terry Watkins
Address P.O. Box 386
Lumberport, W.Va.

OIL AND GAS ROYALTY OWNER Stokes Hurst
Address Rt. 2
NEW MILTON, W.Va.
Acreage 151.99

COAL OPERATOR
Address

SURFACE OWNER Stokes Hurst
Address Rt. 2
NEW MILTON, W.Va.
Acreage 151.99

COAL OWNER(S) WITH DECLARATION ON RECORD:
NAME Willis G. Tetrick
Address UNION NATIONAL CENTER
CLARKSBURG, W.Va.

FIELD SALE (IF MADE) TO:
NAME
Address

NAME
Address

COAL LESSEE WITH DECLARATION ON RECORD:
NAME
Address

OIL AND GAS INSPECTOR TO BE NOTIFIED:
NAME Stephen Lee Casey
Address Good Hope Road
JANE LEW, W.Va.
Telephone 884-7470

The undersigned well operator is entitled to operate for oil or gas purposes at the above location under a deed / lease / other contract / dated _____, 19____, to the undersigned well operator from _____.

(If said deed, lease, or other contract has been recorded:)

Recorded on 3-1-, 1981, in the office of the Clerk of County Commission of

Doddridge County, West Virginia, in 76 Book at page 185. A permit is requested as follows:

PROPOSED WORK: Drill / Drill Deeper / Redrill / Fracture or stimulate / Plug off old formation / Perforate new formation / Other physical change in well (specify) _____

--planned as shown on the work order on the reverse side hereof.

The above named coal operator, coal owner(s), and coal lessee are hereby notified that any objection they wish to make or are required to make by Code §22-4-3 must be filed with the Department of Mines within fifteen (15) days after receipt of this Application by the Dept. Copies of this Permit Application and the enclosed plat and reclamation plan have been mailed by registered mail or delivered by hand to the above named coal operator, coal owner(s), and coal lessees on or before the day of the mailing or delivery of this Application to the Department of Mines at Charleston, West Virginia.

PLEASE SUBMIT COPIES OF ALL GEOPHYSICAL LOGS DIRECTLY TO:
WEST VIRGINIA OIL AND GAS CONSERVATION COMMISSION
1613 WASHINGTON ST., E.
CHARLESTON, WV 25311
Telephone - 304/342-2092

WATKINS & WATKINS
Well Operator

BLANKET BOND BY: Terry Watkins
115

PROPOSED WORK ORDER

THIS IS AN ESTIMATE ONLY:
ACTUAL INFORMATION MUST BE SUBMITTED ON FORM IV-35 UPON COMPLETION

DILLING CONTRACTOR (IF KNOWN) SPENCER Drilling Co.

Address _____
WEST UNION, W.Va.

GEOLOGICAL TARGET FORMATION Through Big INJUN +50'
Estimated depth of completed well _____ feet. Rotary Cable tools
Approximate water strata depths: Fresh, _____ feet; salt, _____ feet.
Approximate coal seam depths: _____
Is coal being mined in this area: Yes No

DRILLING AND TUBING PROGRAM

DRILLING OR TUBING TYPE	SPECIFICATIONS				FOOTAGE INTERVALS		CEMENT FILL UP OR SACKS Cubic ft.	PACKERS	
	Size	Grade	Weight per ft	New	Used	For Drilling			Left in Well
Conductor	8 5/8			<input checked="" type="checkbox"/>		400	400	100 Sacks	Kinds
Fresh water									Sizes
Galv.									
Termed.									
Production	4 1/2			<input checked="" type="checkbox"/>		2,140		300'	Depths set
Tubing									
Packers									Perforations: Top Bottom

NOTE: Regulation 7.02 of the Department of Mines provides that the original and four copies of Form IV-2 must be filed with the Department, accompanied by (i) a plat in the form prescribed by Regulation 11, (ii) a bond in one of the forms prescribed by Regulation 12, or in lieu thereof the other security allowed by Code §22-4-2, (iii) Form IV-9, "Reclamation Plan" applicable to the reclamation required by Code §22-4-12b and Regulation 23, (iv) unless previously paid on the same well, the fee required by Code §22-4-12a, and (v) if applicable, the consent required by Code §22-4-8a from the owner of any water well or dwelling within 200 feet of the proposed well.

A separate Form IV-2 shall not be required for fracturing or stimulating a well where fracturing or stimulating is to be part of the work for which a permit is sought and is noted as such on the Form IV-2 filed in connection therewith.

THIS PERMIT MUST BE POSTED AT THE WELL SITE

All provisions being in compliance with Chapter 22, of the W. Va. Code, the Department hereby approved for drilling. This permit shall expire if operations have not commenced by 8-29-82

[Signature]
Deputy Director - Oil & Gas Division

The following waiver must be completed by the coal operator and by any coal owner or coal lessee who has recorded a declaration under Code §22-4-20, if the permit is to be issued within fifteen (15) days of receipt thereof:

W A I V E R

The undersigned coal operator — / owner agent / lessee — / of the coal under this well location has examined this proposed well location. If a mine map exists which covers the area of the well location, the well location has been added to the mine map. The undersigned has no objection to the work proposed to be done at this location, provided the coal operator has complied with all applicable requirements of the West Virginia Code and the governing regulations.

1 December, 1981.

Willis G. Tetrick Jr

By: Agent

Its _____



WELL NO. _____
FARM NAME McClain #1 (Hurst)
API WELL NO. 47 017 3074
DATE January 28, 1982

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES, OIL and GAS DIVISION
OIL and GAS WELL PERMIT

WELL TYPE: Oil / Gas
If "Gas", Production / Underground storage _____ / Deep _____ / Shallow /
LOCATION: Elevation: 850' Watershed: Meathouse Fork
District: New Milton County: Doddridge Quadrangle: New Milton 7.5

WELL OPERATOR Watkins & Watkins Inc.
Address P. O. Box 386
Lumberport, W. Va. 26386

DESIGNATED AGENT Watkins & Watkins Inc.
Address P. O. Box 386
Lumberport, W. Va. 26386

OIL & GAS ROYALTY OWNER S. A. Hurst
Address Rt. 2
New Milton, W. Va.
Acreage 151.99

COAL OPERATOR _____
Address _____

SURFACE OWNER S. A. Hurst
Address Rt. 2
New Milton, W. Va.
Acreage 151.99

COAL OWNER(S) WITH DECLARATION ON RECORD:
Name Willis G. Tetrick
Address Union National Center
Clarksburg, W. Va. 26301

FIELD SALE (IF MADE) TO: _____
Address _____

Name _____
Address _____

OIL AND GAS INSPECTOR TO BE NOTIFIED:
Name Stephen Lee Casey
Address Good Hope Rd.
Jane Lew, W. Va. Phone No. 884-7470

COAL LESSEE WITH DECLARATION ON RECORD:
Name _____
Address _____

The undersigned well operator is entitled to operate for oil or gas purposes as the above location under a deed _____ / lease / other contract _____ / dated 10/19, 1981, to the undersigned well operator from _____

(If said deed, lease, or other contract has been recorded:)

Recorded on 3/1 81
5/7, 1982, in the office of the Clerk of the County Commission of Doddridge County, West Virginia in _____ Book 76 at page 185. A permit is requested as follows:

PROPOSED WORK: Drill / Drill deeper _____ / Redrill _____ / Fracture or stimulate _____ /
Plug off old formation _____ / Perforate new formation _____ /
Other physical change in well (specify) _____

-planned as shown on the work order on the reverse side hereof.

The above named coal operator, coal owner(s), and coal lessee are hereby notified that any objection they wish to make or are required to make by Code §22-4-3 must be filed with the Department of Mines within fifteen (15) days after the receipt of this Application by the Department.

Copies of this Permit Application and the enclosed plat and reclamation plan have been mailed by registered mail or delivered by hand to the above named coal operator, coal owner(s), and coal lessee on or before the day of the mailing or delivery of this Permit Application to the Department of Mines at Charleston, West Virginia.

PLEASE SUBMIT COPIES OF ALL
GEOPHYSICAL LOGS DIRECTLY TO

WEST VIRGINIA OIL AND GAS
CONSERVATION COMMISSION
1613 WASHINGTON STREET, EAST
CHARLESTON, WV 25311

Telephone (304) 348-3092

Company Name: Watkins & Watkins

BY: [Signature]
Its _____

RECEIVED

FEB 1 - 1982

OIL AND GAS DIVISION
WV DEPARTMENT OF MINES

PROPOSED WORK ORDER

THIS IS AN ESTIMATE ONLY:

ACTUAL INFORMATION MUST BE SUBMITTED ON FORM IV-35 UPON COMPLETION

DRILLING CONTRACTOR (IF KNOWN) _____

GEOLOGICAL TARGET FORMATION, Big Injun

Estimated depth of completed well 1,850 feet Rotary / Cable tools _____/

Approximate water strata depths: Fresh, 60-180 feet; salt, _____ feet.

Approximate coal seam depths: _____ Is coal being mined in the area? Yes _____/ No /

CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS				FOOTAGE INTERVALS		CEMENT FILL-UP or SACKS (Cubic Feet)	PACKERS	
	Size	Grade	Weight per ft.	New	Used	For Drilling			Left in well
Conductor	13"				X	20'	20'	cement to surface	Kinds
Fresh Water	8 5/8				X	400'	400'	" " " "	Sizes
Coal	8 5/8	Same string of casing						cement to surface	
Intermediate									Depths set
Production	4 1/2	10.5				1,850	1,850	cement to 300' above producing horizon or as required by Rule 15.01	
Tubing									Perforations:
Liners									Top Bottom

NOTE: Regulation 7.02 of the Department of Mines provides that the original and four copies of Form IV-2 must be filed with the Department, accompanied by (i) a plat in the form prescribed by Regulation 11, (ii) a bond in one of the form prescribed by Regulation 12, or in lieu thereof the other security allowed by Code §22-4-2, (iii) Form IV-9 "Reclamation Plan", applicable to the reclamation required by Code §22-4-12b and Regulation 23, (iv) unless previously paid on the same well, the fee required by Code §22-4-12a, and (v) if applicable, the consent required by Code §22-4-8a from the owner of any water well or dwelling within 200 feet of the proposed well.

A separate Form IV-2 shall not be required for fracturing or stimulating a well where fracturing or stimulating is to be part of the work for which a permit is sought and is noted as such on the Form IV-2 filed in connection therewith.

The following waiver must be completed by the coal operator and by any coal owner or coal lessee who has recorded a declaration under Code §22-4-20, if the permit is to be issued with fifteen (15) days of receipt thereof.

WAIVER

The undersigned coal operator _____/ owner _____/ lessee _____/ of the coal under this well location has examined this proposed well location. If a mine map exists which covers the area of the well location, the well location has been added to the mine map. The undersigned has no objection to the work proposed to be done at this location, provided, the well operator has complied with all applicable requirements by the West Virginia Code and the governing regulations.

Date: _____ 19____ BY: _____

THIS PERMIT MUST BE POSTED AT THE WELL SITE

All provisions being in accordance with Chapter 22, of the W. Va. Code, the location is hereby approved for drilling. This permit shall expire if operations have not commenced by 10-4-82.

[Signature]
 Deputy Director - Oil & Gas Division

RECEIVED
 OIL AND GAS DIVISION
 DEPARTMENT OF MINES

[Signature]