

FILE NO. 81-871-J
 DRAWING NO. _____
 SCALE 1" = 600'
 MINIMUM DEGREE OF ACCURACY 1/2500
 PROVEN SOURCE OF ELEVATION U.S.G.S. B.M.
 EL. 2277.0 (1300' S.E. of Well)

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) Col. Robert Gabe
 R.P.E. 5566 L.L.S. _____

PLACE SEAL HERE

(+) 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 X SHALLOW ___
 LOCATION: ELEVATION 2600 WATERSHED BEAR CAMP RUN
 DISTRICT BANKS COUNTY UPSHUR
 QUADRANGLE PICKENS NC
 SURFACE OWNER JOHN ANDREWS ACREAGE 118
 OIL & GAS ROYALTY OWNER JOHN ANDREWS LEASE ACREAGE 118
 LEASE NO. JBT-1006
 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 ORISKANY ESTIMATED DEPTH 7500
 WELL OPERATOR J.B.J. ENTERPRISES INC. DESIGNATED AGENT HARRY L. BARNETT
 ADDRESS P.O. BOX 48 ADDRESS P.O. Box 48
BUCHANON, W. VA. 26201 Buckhannon, WV 26201

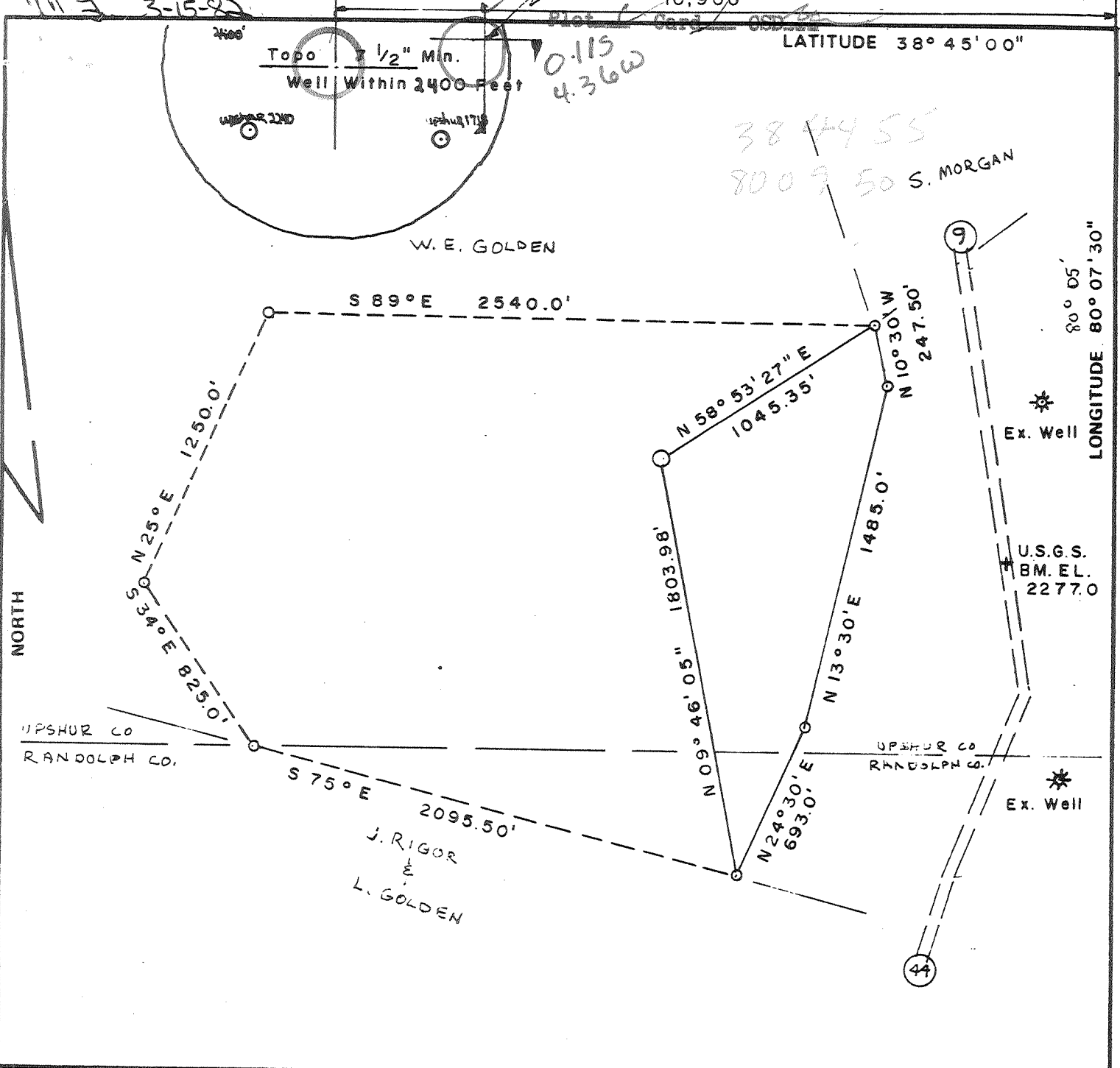
STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION



DATE 1-22-, 1982
 OPERATOR'S WELL NO. J-473
 API WELL NO. REVISED
47-097-2413-P
 STATE COUNTY PERMIT
 Formerly: ups-2239
 AUG 16 1982
DEEP

3-0

DESPWEL



FILE NO. 81-871-J
 DRAWING NO. _____
 SCALE 1" = 600'
 MINIMUM DEGREE OF ACCURACY 1/2500
 PROVEN SOURCE OF ELEVATION U.S.G.S. B.M. EL. 2277.0 (1500' S.E. of Well)

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) _____
 R.P.E. 5566 L.L.S. _____

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 1 - 22 - 1982
 OPERATOR'S WELL NO. J-473
 API WELL NO. REVISED
47 - 097 - 2413
 STATE COUNTY PERMIT
 Formerly: UPS-2239

WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___
 (IF "GAS,") PRODUCTION X STORAGE ___ DEEP X SHALLOW ___
 LOCATION: ELEVATION 2600 WATERSHED BEAR CAMP RUN
 DISTRICT BANKS COUNTY UPSHUR
 QUADRANGLE PICKENS 15' NL
 SURFACE OWNER JOHN ANDREWS ACREAGE 118
 OIL & GAS ROYALTY OWNER JOHN ANDREWS LEASE ACREAGE 118
 LEASE NO. J-1006
 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 Oriskany ESTIMATED DEPTH 7500
 WELL OPERATOR J.B.J. ENTERPRISES INC. DESIGNATED AGENT HARRY L. BARNETT
 ADDRESS P.O. BOX 48 BUCHANON, W. VA. 26201 ADDRESS P.O. Box 48 BUCHANON, WV 26201

APR 2 1982

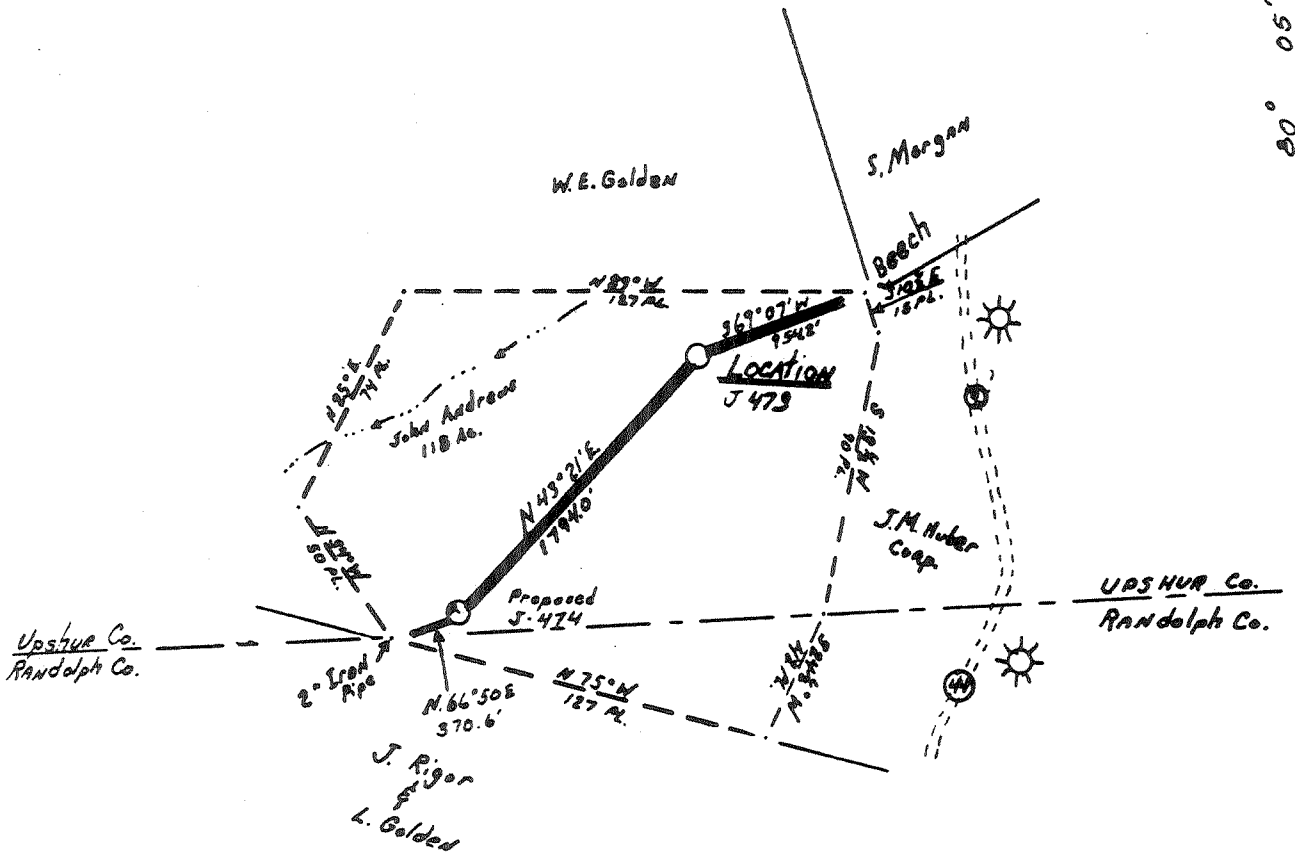
3-0 - Alexander (356) DEEP WELL

Top 7 1/2 Min. 15'

LATITUDE 38° 45' 00"

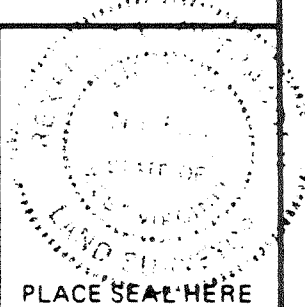
LONGITUDE 80° 07' 30"

NORTH



FILE NO. 346.01
 DRAWING NO. 81-12
 SCALE 1" = 1000'
 MINIMUM DEGREE OF ACCURACY 1 in 200
 PROVEN SOURCE OF ELEVATION Spot Elevation 2277 S.E. of Location

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) [Signature]
 R.P.E. _____ L.L.S. 555



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



DATE 20 February, 19 81
 OPERATOR'S WELL NO. J 473
 API WELL NO. 47-097-2239-Ren
 STATE COUNTY PERMIT

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION

Cancelled
See: Ups-2413

WELL TYPE: OIL ___ GAS XX LIQUID INJECTION ___ WASTE DISPOSAL ___
 (IF "GAS,") PRODUCTION XX STORAGE ___ DEEP ___ SHALLOW XX
 LOCATION: ELEVATION 2645 WATER SHED BEAR CAMP RUN
 DISTRICT Banks COUNTY Upshur
 QUADRANGLE Pickens
 SURFACE OWNER John Andrews ACREAGE 118 Ac.
 OIL & GAS ROYALTY OWNER John Andrews LEASE ACREAGE 118 Ac.
 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 Haverty ESTIMATED DEPTH 5700
 WELL OPERATOR J.E.J. Enterprise's Inc. DESIGNATED AGENT H.L. Barnett
 ADDRESS PO Box 48 ADDRESS PO Box 48
Buckhannon, W. Va. 26201 Buckhannon, W. Va. 26201

APR 2 1982

Plot 4/10

10,850'

Topo 7 1/2 Min.

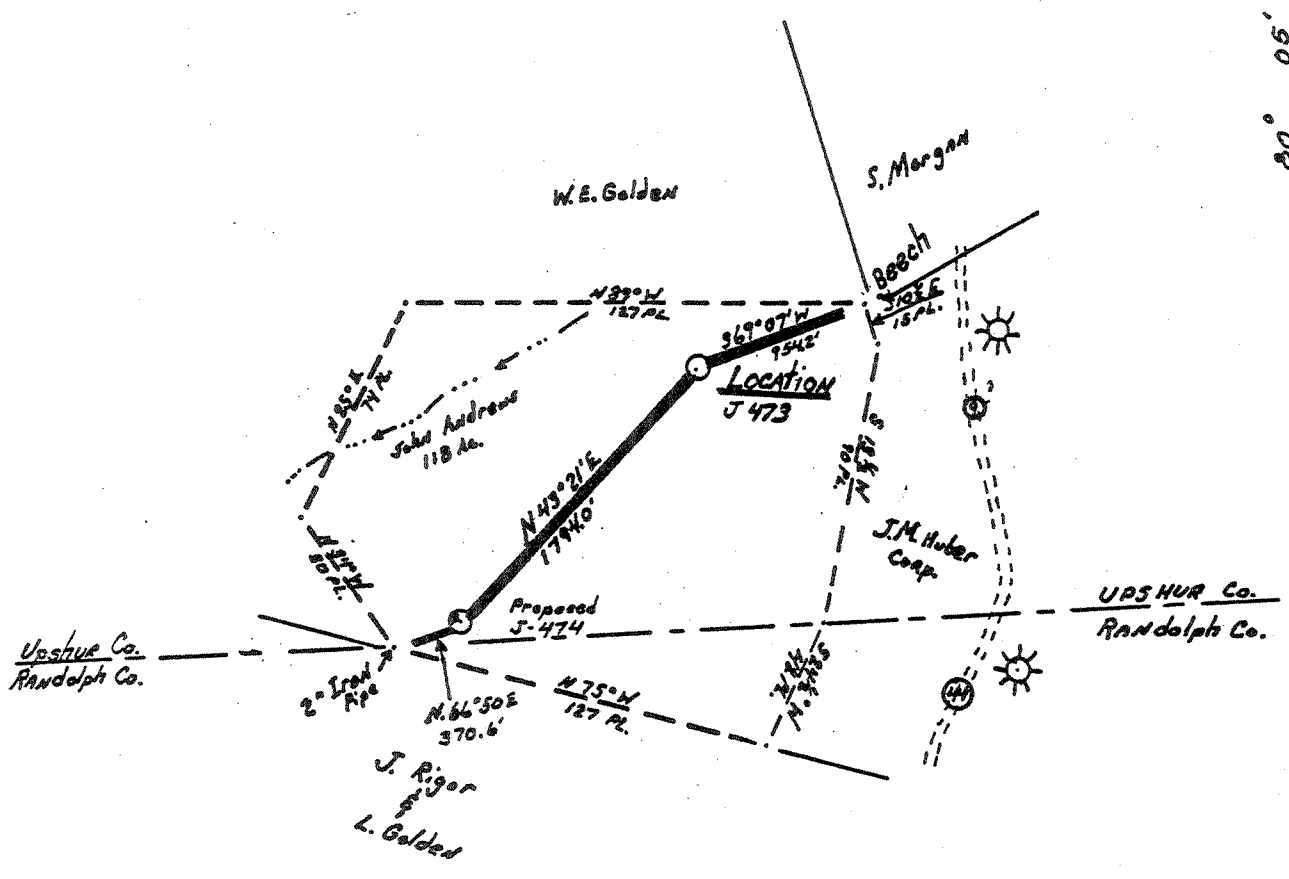


0.105
4.900

LATITUDE 38°45'00"

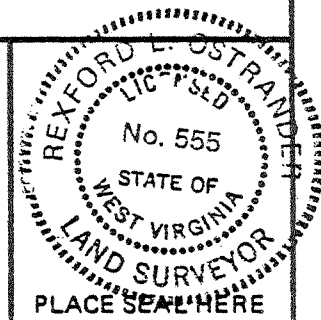
LONGITUDE 80°07'30"

NORTH



FILE NO. 346.01
 DRAWING NO. 81-12
 SCALE 1" = 1000'
 MINIMUM DEGREE OF ACCURACY 1 in 200
 PROVEN SOURCE OF ELEVATION Spot Elevation 2277 S.E. of Location

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) Rexford L. Ostrander
 R.P.E. _____ L.L.S. 555



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



DATE 20 February, 19 81
 OPERATOR'S WELL NO. J 473
 API WELL NO. 47 - 097 - 2239
 STATE COUNTY PERMIT

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION

WELL TYPE: OIL ___ GAS XX LIQUID INJECTION ___ WASTE DISPOSAL ___
 (IF "GAS,") PRODUCTION XX STORAGE ___ DEEP ___ SHALLOW XX
 LOCATION: ELEVATION 2645 WATER SHED Bearcamp Run
 DISTRICT Banks COUNTY Upshur
 QUADRANGLE Pickens 7 1/2 + 15 NW
 SURFACE OWNER John Andrews ACREAGE 118 Ac.
 OIL & GAS ROYALTY OWNER John Andrews LEASE ACREAGE 118 Ac.
 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 Haverty ESTIMATED DEPTH 3700
 WELL OPERATOR J.E.J. Enterprise's Inc. DESIGNATED AGENT H.L. Barnett
 ADDRESS PO Box 48 ADDRESS PO Box 48
Buckhannon, W.Va. 26201 Buckhannon, W.Va. 26201

AUG - 2 1982

Date: July 19, 1982

Operator's Well No. J-473

API Well No. 47-097 - 2413
State County Permit

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

WELL OPERATOR'S REPORT
OF
DRILLING, FRACTURING AND/OR STIMULATION, OR PHYSICAL CHANGE

WELL TYPE: Oil ___ / Gas x / Liquid Injection ___ Waste Disposal ___
(If "Gas", Production x / Underground storage ___ / Deep ___ / Shallow x)

LOCATION: Elevation: 2600 Watershed: Bear Camp Run
District: Banks County: Upshur Quadrangle: Pickens

WELL OPERATOR J & J Enterprises, Inc. DESIGNATED AGENT Harry L. Barnett
Address P.O. Box 48 Address P.O. Box 48
Buckhannon, WV 26201 Buckhannon, WV 26201

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

PERMIT ISSUED ON 3/15, 19 82 OIL & GAS INSPECTOR FOR THIS WORK:
(IF APPLICABLE: PLUGGING OF DRY HOLE OR CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED) Name Robert Stewart
Address P.O. Box 345
Jane Lew, WV 26378

GEOLOGICAL TARGET FORMATION: Oriskany Depth 7485-7555 feet
Depth of completed well, 7678 feet Rotary x / Cable Tools ___
Water strata depth: Fresh, 55,375⁴³⁵ feet; salt, 0 feet.
Coal seam depths: 270-275 Is coal being mined in the area? No
Work was commenced 3/26, 19 82, and completed 4/07, 19 82

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		
Conductor	11 3/4	H-40	42	x		30	0	0 sks. Hinds
Fresh water	8 5/8	ERW	23	x		1461.5	1461.5	340 sks.
Coal	8 5/8	ERW	23	x		1461.5	1461.5	340 sks. Sizes
Intermediate								
Production	4 1/2	J-55	10.5	x		7653.85	7653.85	200 sks. Downs set
Tubing								
Liners								Perforations: Top Bottom
								7541 7579

OPEN FLOW DATA

Producing formation Oriskany Pay zone depth 7541-7579 feet
Gas: Initial open flow, ___ Mcf/d Oil: Initial open flow, ___ Bbl/d
Final open flow, Dry 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 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

Bottom Hole Pressure
Pf=PweXGLS

[08-78]

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

Oriskany: 7541-7579 (15 holes)

Fracturing: 5,800 gal. acid:30,000 lbs. 80/100 sand: 60,000 lbs.20/40 sand

WELL LOG

FORMATION	Color	Hard or Soft	Top Feet	Bottom Feet	Remarks Including indication of all fresh and salt water, coal, oil and gas
Soil			0	15	
Shale & sand			15	37	
Sand & shale			37	250	Damp @ 21'
Sand			250	270	
Coal			270	275	1/4" stream @ 55'
Sand & shale			275	340	
Sand & shale			340	485	1/4" stream @ 375'
Sand & shale			485	815	
Red rock & shale			815	905	More water @ 435'
Sand, shale & red rock			905	930	
Sand			930	985	Gas ck @ 1400 4/10-2" w/water 84,000 cu.ft.
Red rock & shale			985	1125	
Sand & shale			1125	1160	Gas ck @ 2669 No show
Sand			1160	1215	
Little Lime			1215	1265	Gas ck @ 3505 No show
Red rock, shale & lime			1265	1285	
Big Lime			1285	1400	Gas ck @ 3723 2/10-1/2" w/water 2,533 cu.ft.
Injun			1400	1465	
Red rock, sand & shale			1465	1494	
Red rock, sand & shale			1494	2025	Gas ck @ 4092 No show
Sand & shale			2025	2290	Gas ck @ 6153 No show
Sand & shale			2290	3655	
Benson			3655	3690	Gas ck @ 6339 No show
Sand & shale			3690	4010	
Alexander			4010	4070	Gas ck @ 6870 No show
Sand & brown shale			4070	6840	Gas ck @ 7149 No show
Marcellus			6840	7270	
Huntersville			7270	7485	Gas ck @ 7460 No show
Oriskany			7485	7555	
Helderberg			7555	7678	Gas ck @ 7615 No show
				TD	

(Attach separate sheets to complete as necessary.)

J&J Enterprises, Inc.

Well Operator

By

Peter Battles

Its

Geologist

7570
31/9/80
25/80

NOTE: Regulation 2.02(f) 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."

8-78]

OIL AND GAS WELL PERMIT APPLICATION

Operator's Well No. J-473
API Well No. 47-097
State County Permit

TYPE: Oil / Gas / **RENEWAL** OLD NO. 2239
(If "Gas", Production / Underground storage / Deep / Shallow /)
Elevation: 2645 Watershed: Bearcamp Run
District: Banks County: Upshur Quadrangle: Pickens

OPERATOR J & J Enterprises, Inc.
Address P.O. Box 48
Buckhannon, WV 26201

DESIGNATED AGENT Roger Rolston
Address P.O. Box 48
Buckhannon, WV 26201

COAL & GAS LEASE OWNER John Andrews
Address 140 Field Crest Dr.
Ridgefield, Conn. 06877

COAL OPERATOR None
Address

ACREAGE 118
LEASE OWNER John Andrews
Address 140 Field Crest Dr.
Ridgefield, Conn. 06877
ACREAGE 118

COAL OWNER(S) WITH DECLARATION ON RECORD:
Name John Andrews
Address 140 Field Crest Dr.
Ridgefield, Conn 06877

BUYER (IF MADE) TO:
Unknown
Address

COAL LESSEE WITH DECLARATION ON RECORD:
Name None
Address

INSPECTOR TO BE NOTIFIED Robert Stewart
Address P.O. Box 345
Jane Lew, WV 26378

RECEIVED

JAN 13 1982

OIL AND GAS DIVISION
WV DEPARTMENT OF MINES

The undersigned well operator is entitled to operate for oil or gas purposes at the above location under a deed / lease / other contract / dated 3/25, 19 81, to the undersigned well operator from Roy E. & Eva M. Farrar (said deed, lease, or other contract has been recorded):

Recorded on 3/27, 19 81, in the office of the Clerk of the County Commission of Randolph County, West Virginia, in Deed Book 337 at page 9. 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)

As 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 changes 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 declaration plan have been mailed registered mail or delivered by hand to the above named coal operator, coal owner(s), and coal lessee 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 PHYSICAL LOGS DIRECTLY TO:
WEST VIRGINIA OIL AND GAS CONSERVATION COMMISSION
101 WASHINGTON STREET EAST
CHARLESTON, WV 25311
TELEPHONE: (304) 348-3092

J & J Enterprises, Inc.
Well Operator
By Peter Battles
Geologist

BLANKET BOND

PROPOSED WORK ORDER

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

DILLING CONTRACTOR (IF KNOWN) S.W. Jack Drilling Company
Address P.O. Box 48
Buckhannon, WV 26201

GEOLOGICAL TARGET FORMATION, Haverty

Estimated depth of completed well, 5700 feet Rotary X / Cable tools /
Approximate water strata depths: Fresh, 1150 feet; salt, 0 feet.
Approximate coal seam depths: 205-25 Is coal being mined in the area: Yes / No X

DRILLING AND TUBING PROGRAM

DRILLING 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 3/4	H-40	42	x		30	0	0 sks.	Kinds
Fresh water	8 5/8	ERW	23	x		1200	1200	to surface	
Coal	8 5/8	ERW	23	x		1200	1200	to surface	Sizes
Intermediate									
Production	4 1/2	J-55	10.5	x		5650	5650	550 sks.	Depths set
Tubing									
Liners									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 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 renewed. This permit shall expire if operations have not commenced by 9-14-82

J. J. Murray
Deputy Director, Gas Division

This permit shall not be issued 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 / 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 of the West Virginia Code and the governing regulations.

By
Its

08-78]

OIL AND GAS WELL PERMIT APPLICATION

Operator's Well No. J-473
API Well No. 47 - 097 - 2239
State County Permit

WELL TYPE: Oil / Gas /
(If "Gas", Production / Underground storage / Deep / Shallow /)
Elevation: 2645 Watershed: Bearcamp Run
District: Banks County: Upshur Quadrangle: Pickens

WELL OPERATOR J & J Enterprises, Inc.
Address P.O. Box 48
Buckhannon, WV 26201

DESIGNATED AGENT Roger Rolston
Address P.O. Box 48
Buckhannon, WV 26201

LAND & GAS LEASE OWNER John Andrews
Address 140 Field Crest Dr.
Ridgefield, Conn. 06877

COAL OPERATOR None
Address _____

ACREAGE 118
SURFACE OWNER John Andrews
Address 140 Field Crest Dr.
Ridgefield, Conn. 06877
Acreage 118

COAL OWNER(S) WITH DECLARATION ON RECORD:
Name John Andrews
Address 140 Field Crest Dr.
Ridgefield, Conn 06877
Name _____
Address _____

FIELD SALE (IF MADE) TO:
Name Unknown
Address _____

COAL LESSEE WITH DECLARATION ON RECORD:
Name None
Address APR - 8 1991

LAND & GAS INSPECTOR TO BE NOTIFIED
Name Robert Stewart
Address P.O. Box 345
Jane Lew, WV 26378

OIL & GAS DIVISION
DEPT. OF MINES

The undersigned well operator is entitled to operate for oil or gas purposes at the above location under a deed / lease / other contract / dated 3/25, 1981; to the undersigned well operator from Roy E. & Eva M. Farrar

[If said deed, lease, or other contract has been recorded:]
Recorded on 3/27, 1981, in the office of the Clerk of the County Commission of Randolph county, West Virginia, in Deed Book 337 at page 9. 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 changes 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 prior to the filing or delivery of this Permit Application to the Department of Mines in Charleston, West Virginia.

PLEASE SUBMIT COPIES OF ALL PHYSICAL LOGS DIRECTLY TO:
WEST VIRGINIA OIL AND GAS CONSERVATION COMMISSION
611 WASHINGTON STREET EAST
CHARLESTON, WV 25311
TELEPHONE: (304) 345-3092

BLANKET BOND

J & J Enterprises, Inc.
Well Operator
By Peter Battles
Peter Battles
Its Geologist

PROPOSED WORK ORDER

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

DRILLING CONTRACTOR (IF KNOWN) S.W. Jack Drilling Company
Address P.O. Box 48
Buckhannon, WV 26201

GEOLOGICAL TARGET FORMATION, Haverty

Estimated depth of completed well, 5700 feet Rotary / Cable tools /

Approximate water strata depths: Fresh, 1150 feet; salt, 0 feet.

Approximate coal seam depths: 205-25 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	11 3/4	H-40	42	x		30	0	0 sks.	Kinds
Fresh water	8 5/8	ERW	23	x		1200	1200	to surface	
Coal	8 5/8	ERW	23	x		1200	1200	to surface	Sizes
Intermediate									
Production	4 1/2	J-55	10.5	x		5650	5650	550 sks.	Depths set
Tubing									
Liners									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 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 12-13-81.

[Signature]
Deputy Director - Oil & Gas Division

This permit 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 / 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 of the West Virginia Code and the governing regulations.

[08-78]

OIL AND GAS WELL PERMIT APPLICATION

Operator's Well No. J-473

API Well No. 47-097-2413

State County Perm (Formerly: UPS-2239)

WELL TYPE: Oil / Gas x / (If "Gas", Production / Underground storage / Deep x / Shallow /) Elevation: 2600 Watershed: Bear Camp Run District: Banks County: Upshur Quadrangle: Pickens

WELL OPERATOR J & J Enterprises, Inc. Address P.O. Box 48 Buckhannon, WV 26201

DESIGNATED AGENT Harry L. Barnett Address P.O. Box 48 Buckhannon, WV 26201

OIL & GAS PROPERTY OWNER John Andrews Address 140 Field Crest Dr. Ridgefield, Conn. 06877 Acreage 118

COAL OPERATOR None Address: COAL OWNER(S) WITH DECLARATION ON RECORD: Name John Andrews Address 140 Field Crest Dr. Ridgefield, Conn. 06877

COAL FACE OWNER John Andrews Address 140 Field Crest Dr. Ridgefield, Conn. 06877 Acreage 118

COAL LESSEE WITH DECLARATION ON RECORD: Name None Address

PREVIOUS SALES (IF MADE) TO: Unknown Address

COAL LESSEE WITH DECLARATION ON RECORD: Name None Address

OIL & GAS INSPECTOR TO BE NOTIFIED Robert Stewart Address P.O. Box 345 Jane LEW, WV 26378

RECEIVED

MAR 15 1982

OIL AND GAS DIVISION WV DEPARTMENT OF MINES

The undersigned well operator is entitled to operate for oil or gas purposes at the above location under a deed / lease / other contract x / dated 3/25, 1981, to the undersigned well operator from Roy E. & Eva M. Farrar

Recorded on 3/27, 1981, in the office of the Clerk of the County Commission of Randolph County, West Virginia, in Deed Book 337 at page 9. A permit is requested as follows:

PROPOSED WORK: Drill x / Drill deeper / Redrill / Fracture or stimulate x / 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 action 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 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 PHYSICAL LOGS DIRECTLY TO: WEST VIRGINIA OIL AND GAS CONSERVATION COMMISSION 115 WASHINGTON STREET EAST CHARLESTON, WV 25311 TELEPHONE: (304) 348-3092

BLANKET BOND

J & J Enterprises, Inc. Well Operator By Peter Battles Geologist

[08-78]

PROPOSED WORK ORDER

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

DRILLING CONTRACTOR (IF KNOWN) S.W. Jack Drilling Company
Address P.O. Box 48
Buckhannon, WV 26201

GEOLOGICAL TARGET FORMATION, Oriskany

Estimated depth of completed well, 7500 feet Rotary # / Cable tools /
Approximate water strata depths: Fresh, 25 feet; salt, 950 feet.
Approximate coal seam depths: 250 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	11 ³ / ₄	H-40	42	x		30	0	0 sks.	Kinds
Fresh water	8 ⁵ / ₈	CRW	22.36	x		1800	1800	To surface	
Coal	8 ⁵ / ₈	CRW	22.36	x		1800	1800	To surface	Sizes
Intermediate									
Production	4 ¹ / ₂	ERW	11.6	x		7400	7400	400 sks.	Depths set
Tubing									
Liners									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 drilling 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 ACCORDANCE WITH CHAPTER 22,
ARTICLE 4 OF THE W. VA. CODE, THE LOCATION IS HEREBY
APPROVED FOR drilling. THIS PERMIT SHALL EXPIRE
IF OPERATIONS HAVE NOT COMMENCED BY 11-16-82

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 / 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 of the West Virginia Code and the governing regulations.

Date: , 19

By

Its

Survey

Date: Sept. 16, 19 82

Operator's Well No. J-473

API Well No. 47 - 097 - 2413
State County Permit

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

AFFIDAVIT OF PLUGGING AND FILLING WELL

WELL TYPE: Oil / Gas / Liquid Injection / Waste Disposal /
(If "Gas", Production / Underground storage / Deep / Shallow /
LOCATION: Elevation: 2600 Watershed: Bear Camp Run
District: Banks County: Upshur Quadrangle: Pickens

WELL OPERATOR J&J Enterprises, Inc.
Address P.O. Box 48
Buckhannon, WV 26201

DESIGNATED AGENT Richard M. Reddecliff
Address P.O. Box 48
Buckhannon, WV 26201

STATE OF WEST VIRGINIA,)
COUNTY OF _____)

SS:

Daniel F. Stark

and

Robert Gifford

being first duly sworn according to law, depose and say that they are experienced in the work of
plugging and filling oil and gas wells; that they were employed by J&J Enterprises, Inc.
the well operator, and participated in the work of plugging and filling the above well; that the work
was commenced on 3/26, 19 82, and completed on 4/7, 19 82, in the
following manner:

PERMITTED WORK: Plug and abandon / Clean out and replug /

PLUGGING MATERIALS

Type of Cement	Other Materials	Depth	Thickness
Class A	6% Gel	7630-8200 6200-5920	1430 280
Class A	6% Gel	5920-5100	820
Class A	6% Gel	5100-5000	100
Class A	6% Gel	5000-3700	1300
Class A	6% Gel	3700-3600	100
Class A	6% Gel	3600-1600	2000
Class A	6% Gel	1600-1500	100
	6% Gel	1500-	0 1500

Bridge Plugs Used--Type and Depth

VENT PIPE

MISCELLANEOUS MATERIALS

CASING LOST 4 1/2" 1430'

TYPE OF RIG:

Owner: Well Op'r 1 / Contractor 1 /

Rig time: 1 days plus hours

COAL SEAMS (NAMES AND DEPTHS)

DESCRIPTION OF WELL MONUMENT

Daniel F. Stark (SEAL)
Robert D. Gifford (SEAL)

RECEIVED

SEP 17 1982

Subscribed and sworn to before me this

16th day of September, 19 82.

My commission expires October 16, 19 89.

OIL & GAS DIVISION
DEPT. OF MINES
Linda S. Campbell
Notary Public

UPSHUR - 2413