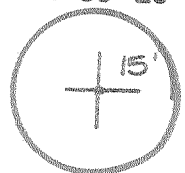
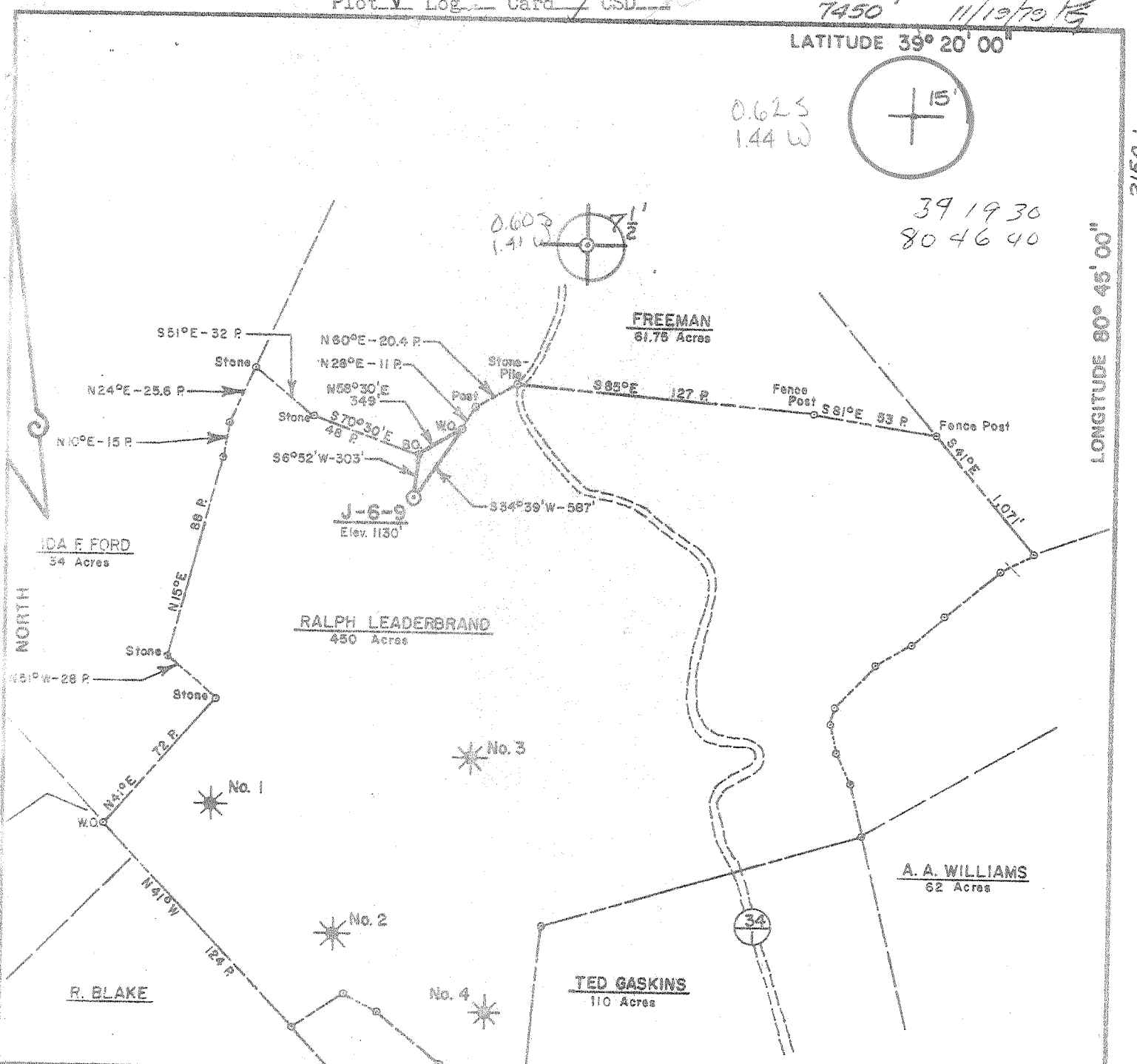


0.625
1.44 W



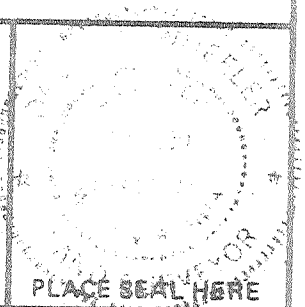
39 19 30
80 46 40

LONGITUDE 80° 45' 00"



FILE NO. _____
DRAWING NO. _____
SCALE 1" = 1,000'
MINIMUM DEGREE OF ACCURACY 1 Part In 200
PROVEN SOURCE OF ELEVATION J.B.J. Enterprises
Well No. K-501 Elev. 1210

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) Harold S. Wheeler
R.P.E. _____ L.L.S. 530



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



DATE November 15, 19 79
OPERATOR'S WELL NO. J-6-9
API WELL NO. 47-017-2538
STATE WEST VIRGINIA COUNTY DODDRIDGE PERMIT

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___
(IF "GAS.") PRODUCTION X STORAGE ___ DEEP ___ SHALLOW X
LOCATION: ELEVATION 1130 WATER SHED Middle Island Creek
DISTRICT West Union COUNTY Doddridge
QUADRANGLE West Union 7.5', 15' SE
SURFACE OWNER Homer Martin Jr. ACREAGE 450
OIL & GAS ROYALTY OWNER Ralph Leaderbrand; J.M.H. Smith LEASE ACREAGE 450
LEASE NO. J-6-9
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 6-b Smithton-Flint-Sedalia (79)
TARGET FORMATION Alexander ESTIMATED DEPTH 5560
WELL OPERATOR J.B.J. Enterprises, Inc. DESIGNATED AGENT Harry Barnett DEC 6 1979
ADDRESS P.O. Box 48 ADDRESS P.O. Box 48
Buckhannon, W. Va. 26201 Buckhannon, W. Va. 26201

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

WELL OPERATOR'S REPORT 12

OF
DRILLING, FRACURING AND/OR STIMULATING, OR PHYSICAL CHANGE

WELL TYPE: Oil / Gas / Liquid Injection / Waste Disposal
(If "Gas", Production / Underground storage / Deep / Shallow
LOCATION: Elevation: 1130 Watershed: Middle Island Creek
District: West Union County: Doddridge Quadrangle: West Union

WELL OPERATOR J & J Enterprises, Inc. DESIGNATED AGENT H. L. Barnett
Address P. O. Box 48 Address P. O. Box 48
Buckhannon, W. Va. 26201 Buckhannon, W. Va. 26201

PERMITTED WORK: Drill / Convert / Drill deeper / Redrill / Fracture stimulate
Plug off old formation / Perforate new formation /
Other physical change in well (specify):
FEB 28 1980

PERMIT ISSUED ON November 19, 19 79

(IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED

OIL & GAS DIVISION
DEPT. OF MINE
Name Paul Garrett
Address 321 Beech St.
Clarksburg, W. Va. 26301

GEOLOGICAL TARGET FORMATION: Alexander Depth 5380 feet
Depth of completed well, 5576 feet Rotary / Cable Tools
Water strata depth: Fresh, 70 feet; salt, 0 feet.
Coal seam depths: None Is coal being mined in the area? No
Work was commenced February 1, 19 80, and completed February 6, 19 80

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	113/4	H-40	42	X		27	27	0 sks.	Stands
Fresh water	8 5/8	ERW	23	X		821.8	821.8	219 sks.	
Coal	8 5/8	ERW	23	X		821.8	821.8	219 sks.	Sizes
Intermediate									
Production Tubing	4 1/2	J-55	10.5	X		5548.4	5548.4	725 sks.	Second set
Liners									Perforations:
									Top Bottom
								5112 5425	
								3299 2502	
								2598 2832	
								2168 2466	

OPEN FLOW DATA

Producing formation Alexander & Benson Pay zone depth 5380-5425 feet

TESTING

Gas: Initial open flow, N/A 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 Speechley, Gordon, Weir Pay zone depth 2466-3520 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

Continued on reverse side

108-781

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

1st Stage: Alexander & Benson: 5112-5425 (12 shots); 727 Total Fluid, 175 Sk. 80/100; 475 sks. 20/40; rate 28.8 pres. 2800; 400 lbs. WG 12; 35 gal. Cla-Sta; 300 lb. atric acid; 250 gal. HCL. H.H.P. 1956

2nd Stage: Bradford & Speechley: 3499-4502 (12 shots), 390 Total Fluid, 100 sks. 80/100 sand; 200 sks. 20/40 sand rate 22.9 pres. 2550 H.H.P. 1403 225 lbs. WG-12; 16 gal. 15 N; 16 gal. Cla-sta

3rd Stage: 2598-2832 (13 shots) 488 Total fluid 100 sks. 80/100 sand; 300 sks. 20/40 sand rate 24.4 pres. 2300 H.H.P. 1375 300 lbs. WG-12; 20 gal. cla-sta; 500 gal. HCL; 200 lbs. atric Gordon & Berea:

4th Stage: Big Injun & Weir: 2168-2466 (12 shots) 620 total fluid; 135 sks. 80/100 sand; 300 sks. 20/40 sand; rate 22.1 pres. 3400 H.H.P. 1841 250 lbs. WG-12; 25 gal. cla-sta; 250 lbs. atric acid; 500 gal. HCL.

WELL LOG

FORMATION	Color	Hard or Soft	Top Feet	Bottom Feet	Remarks Including indication of gas, oil, and salt water, coal, etc.
Fill			0	15	
Red Rock			15	30	
Shale			30	60	
Red Rock			60	70	
Shale			70	80	
Red Rock			80	100	
Sand & Shale			100	130	
Red Rock			130	140	
Sand			140	160	
Shale & Sand			160	200	
Red Rock			200	215	
Shale & Sand			215	240	
Red Rock			240	250	
Shale			250	330	
Red Rock			330	690	
Sand			690	720	
Shale			720	790	
Sand & Shale			790	835	
Shale			835	940	
Red Rock			940	1280	
Sand			1280	1330	
Shale & Sand			1330	2058	
Big Lime			2058	2160	
Big Injun			2160	2220	
Shaley Sand			2220	2400	
Weir			2400	2530	
Shale			2530	2600	
Gordon			2600	2605	
Shale			2605	2810	
Berea			2810	2820	
Shaley Sand			2820	3200	
Shale			3200	3500	
Speechley			3500	3640	

(Attach separate sheets as complete as necessary)

J & J ENTERPRISES, INC.

By *Peter Bailes*
PETER BAILES

GEOLOGIST

NOTE: Regulation 2.02(d) 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."

WELL LOG JJ-6-#9 continued

FORMATION	Color	Hard or Soft	12 Top Feet	Bottom Feet	Remarks Including Indications of Oil and salt water, etc.
Shaley Sand			3640	4050	
Shale			4050	4200	
Shale & Sand			4200	4700	
Shale			4700	4900	
Shaley Sand			4900	5100	
enson			5100	5140	
Shaley Sand			5140	5300	
Shale			5300	5370	
Alexander			5370	5445	
Shale			TD	5576	

MAR 10 1980

[08-78]

OIL AND GAS WELL PERMIT APPLICATION

Operator's Well No. JJ-6-#9
API Well No. 47 - 017 - 2538
State County Permit

WELL TYPE: Oil ___ / Gas X /
(If "Gas", Production X / Underground storage ___ / Deep ___ / Shallow X /)
LOCATION: Elevation: 1130 Watershed: Middle Island Creek
District: West Union County: Doddridge Quadrangle: West Union 7.5'

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

DESIGNATED AGENT H. L. Barnett
Address P. O. Box 48
Buckhannon, W. Va. 26201

OIL & GAS ROYALTY OWNER J. M. L. Smith and Glen Wells
Address 405 W. Main Street
West Union, W. Va. 26456

COAL OPERATOR None
Address _____

Acreage 450
SURFACE OWNER Homer Martin, Jr.
Address Star Route
West Union, W. Va. 26456
Acreage 450

COAL OWNER(S) WITH DECLARATION ON RECORD:
Name J. M. L. Smith
Address 405 W. Main Street
West Union, W. Va. 26456

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

Name _____
Address _____

OIL & GAS INSPECTOR TO BE NOTIFIED
Name Paul Garrett
Address 321 Beech Street
Clarksburg, W. Va. 26301

COAL LESSEE WITH DECLARATION ON RECORD:
Name _____
Address _____

NOV 19 1979

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 X / dated September 27, 1979, to the undersigned well operator from Leaderbrand

[If said deed, lease, or other contract has been recorded:]
Recorded on October 16, 1979, in the office of the Clerk of the County Commission of Doddridge County, West Virginia, in OIL & GAS ^{LEASE} Book 111 at page 540. 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 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
1616 WASHINGTON STREET EAST
CHARLESTON, WV 25311
TELEPHONE: (304) 348-3092

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, W. Va. 26201

GEOLOGICAL TARGET FORMATION, Alexander

Estimated depth of completed well, 5560 feet Rotary / Cable tools /
Approximate water strata depths: Fresh, 40 feet; salt, 0 feet.
Approximate coal seam depths: 310, 421 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		900	900	280 sks.	
Coal	8 5/8	ERW	23	X		900	900	280 sks.	Sizes
Intermediate									
Production	4 1/2	J-55	10.5	X		5500	5500	300 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 operations are a part of the work for which a permit is sought and this permit is such on the Form IV-2 filed in connection therewith.

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 7-20-80


Deputy Director - Oil & Gas Division

The following notice must be published 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 _____