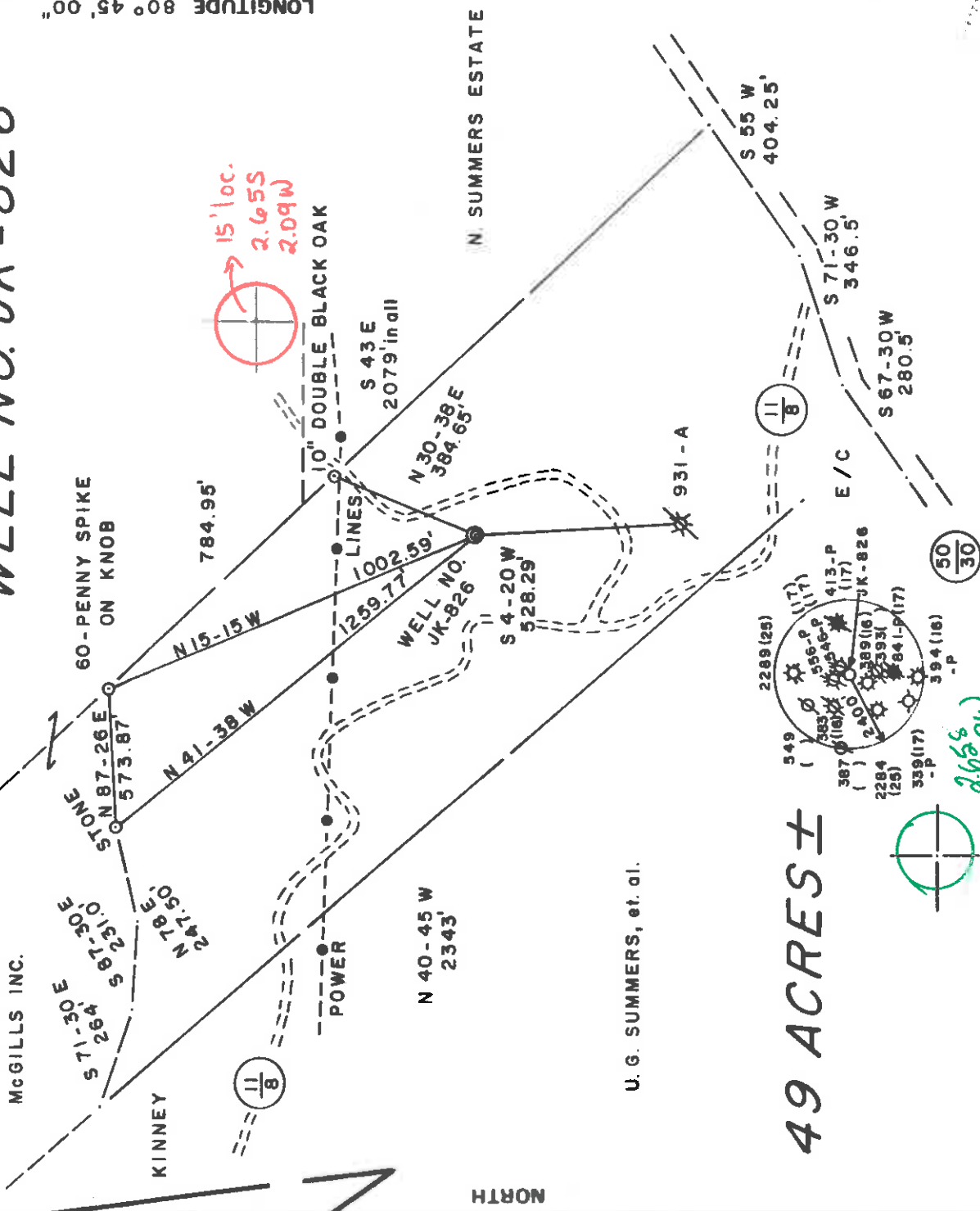


SMITH LEASE WELL NO. JK-826



NORTH

U. G. SUMMERS, et. al.

49 ACRES ±

FILE NO. 11-56
 DRAWING NO. _____
 SCALE 1" = 400'
 MINIMUM DEGREE OF ACCURACY 1/200
 PROVEN SOURCE OF ELEVATION BM ELEV. 866'

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

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) Gregory A. Smith
 R.P.E. _____ L.L.S. 677

PLACE SEAL HERE



STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION

DATE OCTOBER 17, 19 83
 OPERATOR'S WELL NO. JK-826
 API WELL NO. _____

47 - 017 - 3279
 STATE _____ COUNTY _____ PERMIT _____

WELL TYPE: OIL _____ GAS LIQUID INJECTION _____ WASTE DISPOSAL _____
 (IF "GAS") PRODUCTION STORAGE _____ DEEP _____ SHALLOW
 LOCATION: ELEVATION 1057' WATER SHED DOE RUN

DISTRICT WEST UNION MAGISTRATE _____ COUNTY DODDRIDGE
 QUADRANGLE WEST UNION 7.5 +15' SE
 SURFACE OWNER JOHN M. SMITH, et al. ACREAGE 49
 OIL & GAS ROYALTY OWNER JOHN M. SMITH, et al. LEASE ACREAGE 49

LEASE NO. JK-3
 PROPOSED WORK: DRILL CONVERT _____ DRILL DEEPER _____ REDRILL _____ FRACTURE OR STIMULATE PLUG OFF OLD FORMATION _____ PERFORATE NEW FORMATION _____ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____
JAN 3 1984

PLUG AND ABANDON _____ CLEAN OUT AND REPLUG _____
 TARGET FORMATION ALEXANDER ESTIMATED DEPTH 5250'
 WELL OPERATOR J.B. JENTERPRISES, INC. DESIGNATED AGENT RICHARD M. REDDECLIFF
 ADDRESS P. O. BOX 48 ADDRESS BUCKHANNON, WV 26201

66 Smithton-Hunt-Seedling (99)

RECEIVED

SEP 10 1984

OIL & GAS DIVISION

DEPT. OF MINES



State of West Virginia
Department of Mines
Oil and Gas Division

Date September 6, 1984
Operator's Well No. JK-826
Farm John Smith
API No. 47 - 017 - 3279

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 x / Underground Storage / Deep / Shallow x /)

LOCATION: Elevation: 1057 Watershed Doe Run
District: West Union County Doddridge Quadrangle West Union

COMPANY J&J Enterprises, Inc.
ADDRESS P.O. Box 48, Buckhannon, WV 26201
DESIGNATED AGENT Richard Reddecliff
ADDRESS P.O. Box 48, Buckhannon, WV 26201
SURFACE OWNER John M.L. Smith
ADDRESS P.O. Box 826, Clarksburg, WV 26301
MINERAL RIGHTS OWNER Same as surface

ADDRESS
OIL AND GAS INSPECTOR FOR THIS WORK Mike
Rt. # 2, Box 114
Underwood ADDRESS Salem, WV 26426
PERMIT ISSUED 12/29/83
DRILLING COMMENCED 8/7/84
DRILLING COMPLETED 8/13/84

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

Casing & Tubing	Used in Drilling in Well	Left in Well	Cement fill up Cu. ft.
Size 20-16 Cond.			
13-10"	36	0	0 sks.
9 5/8			
8 5/8	1212.80	1212.80	265 sks.
7			
5 1/2			
4 1/2	5438.60	5438.60	325 sks.
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Alexander Depth 5256-5322 feet
Depth of completed well 5645 feet Rotary x / Cable Tools
Water strata depth: Fresh 155,1885 feet; Salt 0 feet
Coal seam depths: None Is coal being mined in the area? No

OPEN FLOW DATA

Producing formation Alexander Pay zone depth 5256-5322 feet
Gas: Initial open flow Mcf/d Oil: Initial open flow Bbl/d
Combined Final open flow 852 Mcf/d Final open flow Bbl/d

Time of open flow between initial and final tests 4 hours

Static rock pressure 1550 psig (surface measurement) after hours shut in

(If applicable due to multiple completion--)

Second producing formation Riley Pay zone depth 4457-59 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

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

Alexander: Perforations: 5256-5322 (18 holes)
 Fracturing: 400 sks. 20/40 sand: 555 Bbls. fluid.
 Riley: Perforations: 4552-4588 (14 holes) 4457-59 (8 holes)
 Fracturing: 300 sks. 20/40 sand: 500 gal. acid: 635 Bbls. fluid.

BOTTOM HOLE PRESSURE Pf=PweXGLS 1

t=60 + (0.0075 x 5439) + 459.7 =560 X=53.35 x 560 =29902 =0.000033 Pf=1550 x 2.72 (0.000033) (0.7)
 (4890) (0.9) =1550 x 2.72 0.1 =1550 x 1.1
 Pf=1705 psi

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
Clay			0	3	
Shale & red rock			3	25	Damp @ 1850
Sandy shale & red rock			25	80	
Sand, shale & red rock			80	240	1" stream @ 1885
Sand, shale & red rock			240	690	Gas ck @ 2353 No show
Sand, shale & red rock			690	910	Gas ck @ 3436 No show
Red rock, sand & shale			910	1160	Gas ck @ 5071 No show
Sand, shale & sand			1160	1420	Gas ck @ collars 2/10-1" w/water 10,650 cu.ft.
Shale, sand & red rock			1420	1525	
Sand & Black shale			1525	1650	
Sandy shale & sand			1650	1850	
Sand & sandy shale			1850	1970	
Little lime			1970	1980	
Sand & shale			1980	1995	
Big Lime			1995	2095	
Injun			2095	2165	
Sand & shale			2165	2405	
Sandy shale			2405	4457	
Riley			4457	4588	
Sandy shale			4588	5256	
Alexander			5256	5322	
Sandy shale			5322	5645	

T.D.

(Attach separate sheets as necessary)

101 Enterprises, Inc.
Well Operator

By:  Robert Dahlin-Geologist

Date: 9/6/84

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



1) Date: December 8, 19 83
 2) Operator's Well No. JK-826
 3) API Well No. 47 - 017 - 3279 Permit
 State County

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

4) WELL TYPE: A Oil Gas
 B (If "Gas", Production Underground storage Deep Shallow
 5) LOCATION: Elevation: 1057 Watershed: Doe Run
 District: West Union Magistral Doodridge Quadrangle: West Union 7.5'
 6) WELL OPERATOR J&J Enterprises, Inc. 7) DESIGNATED AGENT Richard Reddecliff
 Address P.O. Box 48 Address P.O. Box 48
Buckhannon, WV 26201

8) OIL & GAS INSPECTOR TO BE NOTIFIED
 Name Mike Underwood
 Address Rt. # 2, Box 114
Salem, WV 26426
 9) DRILLING CONTRACTOR:
 Name S.W. Jack Drilling Company
 Address P.O. Box 48
Buckhannon, WV 26201

10) PROPOSED WELL WORK: Drill deeper Redrill Stimulate
 Plug off old formation Perforate new formation
 Other physical change in well (specify) Alexander

11) GEOLOGICAL TARGET FORMATION, Alexander
 12) Estimated depth of completed well, 5250 feet
 13) Approximate true depths: Fresh, 75 feet; salt, 0 feet.
 14) Approximate coal seam depths: 126 Is coal being mined in the area? Yes No

15) CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS			FOOTAGE INTERVALS		CEMENT FILL OR SACKS (Cubic feet)
	Size	Grade	Weight per ft.	For drilling	Left in well	
Conductor	1 1/2	3/4 H-40	42	X	30	0 sks
Fresh water	8 5/8	ERW	23	X	1200	To surface
Coal	8 5/8	ERW	23	X	1200	To surface
Intermediate						
Production	4 1/2	J-55	10.5	X	5200	275 sks.
Tubing						or as req by rule 15.01
Liners						

OFFICE USE ONLY
 DRILLING PERMIT

Permit number 47-017-3279 Date December 29, 1983

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 29, 1985 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond:	Agent:	Plat:	Casing	Fee
MARKET BOND	<u>LP</u>	<u>MH</u>	<u>MW</u>	<u>1380</u>

Margaret J. Hagan
 Administrator, Office of Oil and Gas

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

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

