

**DOAK
LEASE**

**WELL NO.
JK-1184**

LATITUDE 39-20-00

RITCHIE TYLER

RICE

50
6

24" CHESTNUT
DOAK

TYLER
DODDRIDGE

N 39-45 W 549.28'
N 72-45 W 188'
JK-1184

WEST 420.75'
S 5 W 420.75'

KOWALSKI

176

ACRES ±

2.505
2.93W

101.38 ACRES ±
SURFACE

N 5 E 1980'

LISTER

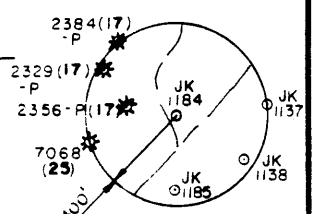
KEENER

75.13 ACRES ±
SURFACE

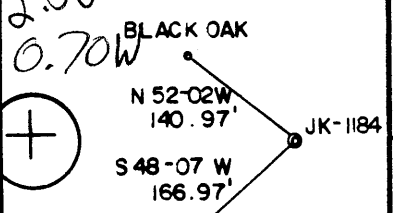
N 5 E 924'

N 90 W 305.25'

MUNSTER

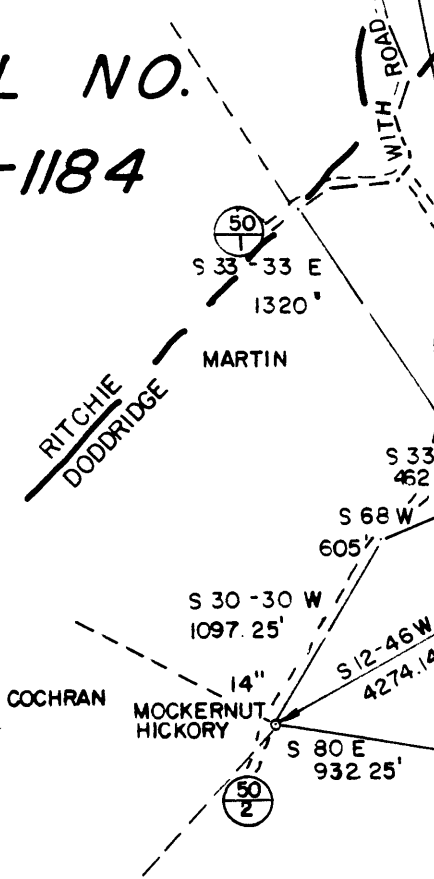


REFERENCES



1" = 200'

NORTH



SMITH LAND SURVEYING

FILE NO. 18-4
DRAWING NO. M. P.
SCALE 1"=1000'
MINIMUM DEGREE OF ACCURACY 1/200
PROVEN SOURCE OF ELEVATION TOP OF KNOB
ELEV. = 1175

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

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS

FORM IV-6 (8-78)



DATE FEBRUARY 28, 1985
OPERATOR'S WELL NO. JK-1184
API WELL NO. 47-095-1113
STATE COUNTY 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 1189' WATER SHED HUGLE RUN
DISTRICT CENTERVILLE COUNTY TYLER
QUADRANGLE PENNSBORO 7.5' S-37 West Union 133 SC 8
SURFACE OWNER ROBERT E. RASEY, et. ux. ACREAGE 101.38
OIL & GAS ROYALTY OWNER ROBERT E. RASEY, et. al LEASE ACREAGE 176
LEASE NO. JK-355

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 RHINE STREET ESTIMATED DEPTH 5995' **JUL 29 1985**
WELL OPERATOR JBJ ENTERPRISES, INC. DESIGNATED AGENT RICHARD REDDECLIFF
ADDRESS P.O. BOX 48 427 ADDRESS P.O. BOX 48
BUCKHANNON, WV 26201 BUCKHANNON, WV 26201

6-6 Stanley

(90)



IV-3
Rev 8-81

RECEIVED
OCT 15 1985

DIVISION OF OIL & GAS
DEPT. OF ENERGY

State of West Virginia
Department of Mines
Oil and Gas Division

Date October 14, 1985
Operator's
Well No. JK-1184
Farm Rasey
API No. 47 - 095 - 1113

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: 1189 Watershed Hugle Run
District: Centerville County Tyler Quadrangle Pennsboro 7 5

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 Robert Rasey
ADDRESS 1033 Yorktown Dr., Sunnyvale, CA 94087
MINERAL RIGHTS OWNER Same as surface
ADDRESS _____
OIL AND GAS INSPECTOR FOR THIS WORK Robert Lowther
ADDRESS General Delivery Middlebourne, WV 26149
PERMIT ISSUED 7/17/85
DRILLING COMMENCED 9/9/85
DRILLING COMPLETED 9/16/85
IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED ON _____

Casing Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft.
Size 20-16 Cond.			
13-10"	210.95	210.95	105 sks.
9 5/8			
8 5/8	1711.65	1711.65	125 sks.
7			
5 1/2			
4 1/2	5458.10	5458.10	275 sks.
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Alexander Depth 5316-36 feet
Depth of completed well 5647 feet Rotary x / Cable Tools _____
Water strata depth: Fresh 45,1300 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 5316-36 feet
Gas: Initial open flow _____ Mcf/d Oil: Initial open flow _____ Bbl/d
Combined Final open flow 907 Mcf/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests 4 hours
Static rock pressure 1700 psig (surface measurement) after 96 hours shut in
(If applicable due to multiple completion--)
Second producing formation Benson & Riley Pay zone depth 4635-47 / 5031-33 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)

OCT 28 1985

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

Alexander: Perforations: 5316-22 (10 holes) 5334-36 (4 holes)

Fracturing: 400 sks. 20/40 sand: 485 Bbls. fluid.

Benson: Perforations: 5031-33 (8 holes)

Fracturing: 400 sks. 20/40 sand: 500 gal. acid: 665 Bbls. fluid.

Riley: Perforations: 4635-38 (8 holes) 4645-47 (8 holes)

Fracturing: 400 sks. 20/40 sand: 500 gal. acid: 594 Bbls. fluid.

BOTTOM HOLE PRESSURE Pf=PweXGLS

t=60 + (0.0075 x 54.58) + 459.7 = 561 x=53.35 x 561 = 29929 =0.000033 Pf=1700 x 2.72 (0.000033) (0.661)(4986)(0.9) =1700 x 2.72 0.9 = 1700 x 1.1

Pf=1870 psi

WELL LOG

Table with 4 columns: FORMATION, COLOR, HARD OR SOFT, TOP FEET, BOTTOM FEET, REMARKS. Includes geological data and gas check results.

(Attach separate sheets as necessary)

J&J Enterprises, Inc.

Well Operator

By:

Date: 10/14/85

Robert Dahlin - Geologist

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 ... encountered in the drilling of a well."



1) Date: MAY 20, 19 85
2) Operator's Well No. JK-1184
3) API Well No. 47 -095-1113
State County Permit

RECEIVED

MAY 31 1985

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: Gas / Production / Underground storage _____ / Deep _____ / Shallow
- 5) LOCATION: Elevation: 1189' / Watershed: HUGLE RUN
District: CENTERVILLE / County: TYLER / Quadrangle: PENNSBORO 7.5'
- 6) WELL OPERATOR: J & J ENTERPRISES, INC. / Designated Agent: RICHARD REDDECLIFF
Address: P.O. BOX 48 / Address: P.O. BOX 48
BUCKHANNON, WV 26201 / BUCKHANNON, WV 26201
- 8) OIL & GAS INSPECTOR TO BE NOTIFIED: Name: ROBERT LOWTHER / Address: GENERAL DELIVERY
MIDDLEBOURNE, WV 26149
- 9) DRILLING CONTRACTOR: Name: S.W. JACK DRILLING CO. / Address: P.O. BOX 48
BUCKHANNON, WV 26201
- 10) PROPOSED WELL WORK: Drill / Drill deeper _____ / Redrill _____ / Stimulate
Plug off old formation _____ / Perforate new formation _____
Other physical change in well (specify) _____
- 11) GEOLOGICAL TARGET FORMATION: ALEXANDER Rhine Street 44
- 12) Estimated depth of completed well, 5650' 5995' feet
- 13) Approximate strata depths: Fresh, 125' feet; salt, N/A feet.
- 14) Approximate coal seam depths: N/A Is coal being mined in the area? Yes _____ / No
- 15) 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		2000'	300'	SACKS <i>by rule</i>
Fresh water	8 5/8	ERW	23	X		1789'	1789'	TO SURFACE
Coal	8 5/8	ERW	23	X		1789'	1789'	TO SURFACE
Intermediate								Sizes
Production	4 1/2	J-55	10.5	X		5650'	5650'	300 SACKS
Tubing						5995'	5600'	OR AS REQUIRED BY RULE 15-01
Liners							5945'	Perforations:
								Top Bottom

OFFICE USE ONLY
DRILLING PERMIT

Permit number 47-095-1113 Date July 17 19 85

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 July 17, 1987 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond:	Agent:	Plat:	Casing	Fee
82	A/B	MU	MW	1978

[Signature]
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.