

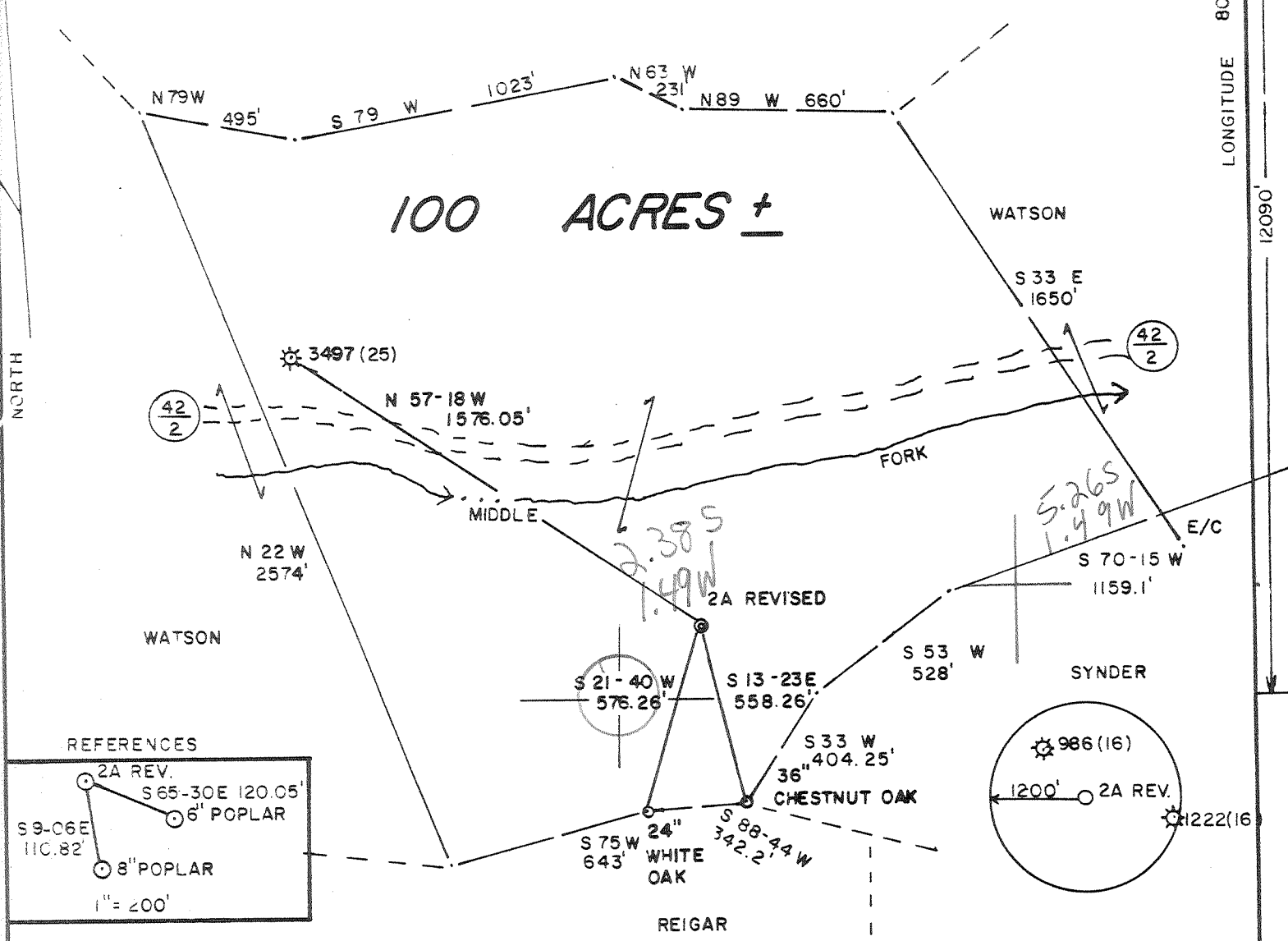
CODE \_\_\_\_\_ CARD \_\_\_\_\_ PLOT

# MCDONALD LEASE WELL NO. 2A REV.

STALNAKER

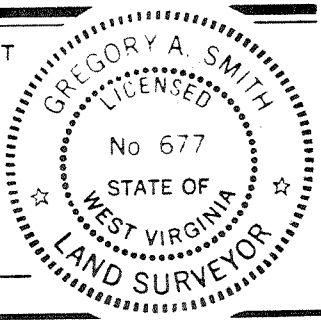
LONGITUDE 80° 30' 00"

## 100 ACRES ±



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS  
 DATE MAY 22, 1985  
 OPERATORS WELL NO. 2A REVISED  
 API WELL NO.  
47 - 041 - 3640  
 STATE COUNTY PERMIT

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.



L.L.S. 677 Gregory A. Smith

MINIMUM DEGREE OF ACCURACY 1 / 200 FILE NO. 13-1  
 PROVEN SOURCE OF ELEVATION JUNCTION OF ROADS SCALE 1" = 500'  
 ELEV. = 1072'



STATE OF WEST VIRGINIA  
 DEPARTMENT OF MINES  
 OIL AND GAS DIVISION

WELL TYPE: OIL \_\_\_\_\_ GAS  LIQUID INJECTION \_\_\_\_\_ WASTE DISPOSAL \_\_\_\_\_ IF "GAS" PRODUCTION  STORAGE \_\_\_\_\_ DEEP  SHALLOW \_\_\_\_\_  
 LOCATION: ELEVATION 1285' WATERSHED MIDDLE FORK OF CANOE RUN  
 DISTRICT COLLINS SETTLEMENT COUNTY LEWIS QUADRANGLE PETERSON 7.5' 542  
 SURFACE OWNER ORVIL A. SMITH ACREAGE 100 Burnsville 017  
 OIL & GAS ROYALTY OWNER J.V. McDONALD HRS. \_\_\_\_\_ LEASE ACREAGE 100 NE 3  
 PROPOSED WORK: DRILL  CONVERT \_\_\_\_\_ DRILL DEEPER \_\_\_\_\_ REDRILL \_\_\_\_\_ FRACTURE OR STIMULATE  PLUG OFF \_\_\_\_\_  
 OLD FORMATION \_\_\_\_\_ PERFORATE NEW FORMATION \_\_\_\_\_ PLUG AND ABANDON \_\_\_\_\_ CLEAN OUT AND REPLUG \_\_\_\_\_  
 OTHER PHYSICAL CHANGE IN WELL (SPECIFY) \_\_\_\_\_ TARGET FORMATION ORISKANY  
 ESTIMATED DEPTH 7200'

WELL OPERATOR PETROLEUM RESOURCES DESIGNATED AGENT JERRY MASONER  
 ADDRESS P.O. BOX 1066 678 ADDRESS P.O. BOX 1066  
WESTON, WV 26452 WESTON, WV 26452

DEEP WELL 3-3 Sand Fork (Indian Fork) (184) DPD-Oriskany

COUNTY NAME LEWIS  
 PERMIT 3640

575

Confidential



IV-35  
(Rev 8-81)

Date November 2, 1985  
Operator's  
Well No. # 2A  
Farm McDonald  
API No. 47 - 041 - 3640

State of West Virginia  
Department of Mines  
Oil and Gas Division

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 x / Shallow \_\_\_ /)

LOCATION: Elevation: 1285' Watershed Canoe Run  
District: Collins Settle County Lewis Quadrangle Peterson

COMPANY Petroleum Resources, Inc 038300  
ADDRESS P. O. Box 1066  
DESIGNATED AGENT Jerry Masoner  
ADDRESS P.O. Box 1066, Weston, WV 26452  
SURFACE OWNER Orvil Smith  
ADDRESS Route 1, Roanoke, WV  
MINERAL RIGHTS OWNER McDonald Hrs.  
ADDRESS Weston, WV 26452  
OIL AND GAS INSPECTOR FOR THIS WORK Steve Casey  
ADDRESS Jane Lew, WV  
PERMIT ISSUED July 19, 1985  
DRILLING COMMENCED 9-4-85  
DRILLING COMPLETED 9-14-85  
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"	265'	265'	125 sks.
9 5/8			
8 5/8	1730'	1730'	100 sks.
7			
5 1/2			
4 1/2	7992'	7992'	840 sks.
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Oriskany Depth 7200 feet  
Depth of completed well 8019' feet Rotary X / Cable Tools \_\_\_\_\_  
Water strata depth: Fresh 45' feet; Salt None feet  
Coal seam depths: None Is coal being mined in the area? No

OPEN FLOW DATA  
Producing formation Oriskany Pay zone depth 7595'-7657 feet  
Gas: Initial open flow Show Mcf/d Oil: Initial open flow None Bbl/d  
Final open flow (400) Mcf/d Final open flow None Bbl/d  
Time of open flow between initial and final tests 72 hours  
Static rock pressure 2190 psig (surface measurement) after 72 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 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)

NOV: 24 1986

9-27-85

ORISKANY

Perforated 7595' & 7657 with 12 Holes  
Fractured with 80 Tons of CO<sub>2</sub>  
700 gals. Acid

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
					Including indication of all fresh and salt water, coal, oil and gas
Red Rock			0	65	
Sand			65	114	
Red Rock			114	128	
Sandy Shale			128	190	
Red Rock			190	202	
Sandy Shale			202	211	
Red Rock			211	275	
Sandy Shale			275	370	
Red Rock			370	380	
Sandy Shale			380	545	
Sand			545	610	
Sandy Shale			610	722	
Red rock			722	735	
Sandy Shale			735	848	
Red rock			848	950	
Sand			950	1010	
Sandy Shale			1010	1240	
Shale			1240	1677	
Sandy Shale			1677	1823	
Red Rock			1823	1830	
Sandy Shale			1830	1838	
Red Rock			1838	2006	
Lime Little			2006	2040	
Shale			2040	2053	
Lime Big			2053	2182	
Sand Injun			2182	2306	
Sandy Shale			2306	2520	
Sand			2520	2665	
Sandy Shale			2665	3690	
Lime			3690	3710	
Sandy Shale			3710	4919	
Sand Benson			4919	4940	
Sandy Shale			4940	5710	
Sand			5710	5820	
Sandy Shale			5820	6890	
Shale			6890	7158	
Limey Shale			7158	7182	
Shale			7182	7275	
Shale Marcellas			7275	7328	
Lime			7328	7580	

(Attach separate sheets as necessary)

2120

Sand Oriskany  
Sandy Shale  
TD

Hdlog @ TD

7580 — 7681  
7681 8019  
8019

Petroleum Resources, Inc.

Well Operator

By: *Jerry Mason*

Agent

Date: November 2, 1985

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 ~~minerals~~, encountered in the drilling of a well."

10 mi S of Low 1907,  
Oriskany pool, Murphy Cr.  
dev. in 1972

RECEIVED

JUL 10 1985

OIL & GAS DIV.  
DEPT. OF MINES



1) Date: July 8, 1985, 19  
2) Operator's Well No. McDonald # 2A REV.  
3) API Well No. 47 041-3640  
State County Permit

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

- 4) WELL TYPE: A Oil        / Gas X /  
B (If "Gas", Production X / Underground storage        / Deep        / Shallow X /)
- 5) LOCATION: Elevation: 1285' Watershed: Canoe Run  
District: Collins Sett. County: Lewis Quadrangle: Peterson 7.5
- 6) WELL OPERATOR Petroleum Resources, Inc. 7) DESIGNATED AGENT Jerry Masoner  
Address P. O. Box 1066 Address P. O. Box 1066  
Weston, WV 26452 38300 Weston, WV 26452
- 8) OIL & GAS INSPECTOR TO BE NOTIFIED 9) DRILLING CONTRACTOR:  
Name Steve Casey Name I. L. Morris  
Address Jane Lew, WV Address Glenville, WV  
884-7470 462-7170
- 10) PROPOSED WELL WORK: Drill X / Drill deeper        / Redrill        / Stimulate        /  
Plug off old formation        / Perforate new formation        /  
Other physical change in well (specify)
- 11) GEOLOGICAL TARGET FORMATION, Oriskany 475  
12) Estimated depth of completed well, 7200' feet  
13) Approximate trata depths: Fresh, 142 feet; salt, None feet.  
14) Approximate coal seam depths: None Is coal being mined in the area? Yes        / No X
- 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	Left in well		
Conductor									Kinds
Fresh water	11 3/4			X		230'	230'	120 sks.	Neat Cement
Coal									Sizes
Intermediate	8 5/8	H40	24	X		1600'	1600'	200 sks.	Neat Cement
Production	4 1/2	J55	11.6	X		7000'	7000'	500 sks.	Depths set
Tubing									
Liners									Perforations: Top Bottom

OFFICE USE ONLY  
DRILLING PERMIT

Permit number 47-041-3640 Date July 19 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 19, 1987 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond: <u>✓</u>	Agent: <u>ALB</u>	Plat: <u>MU</u>	Casing: <u>MU</u>	Fee: <u>923</u>
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*[Handwritten Signature]*

Office of Oil and Gas  
DIRECTOR DIVISION

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.