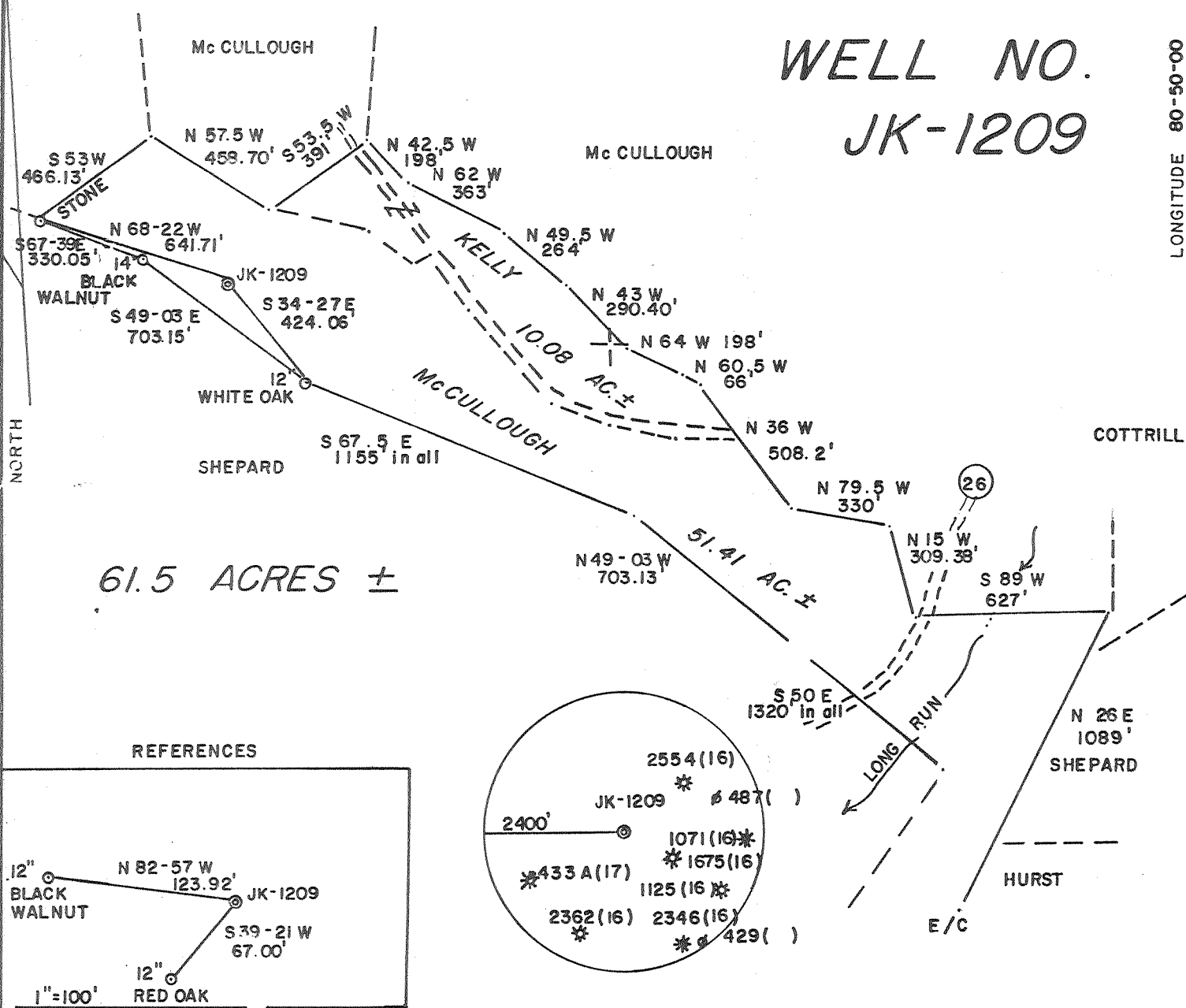
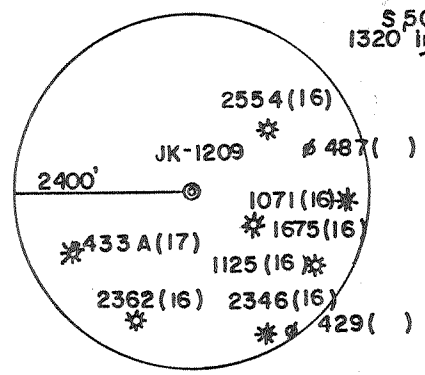
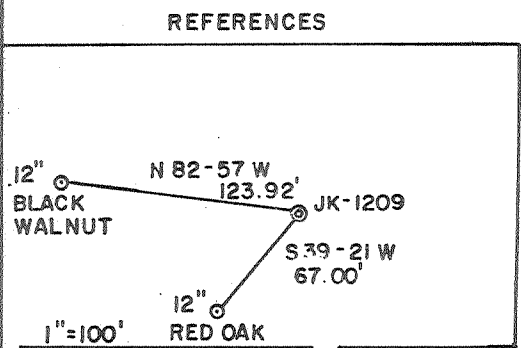


McCULLOUGH LEASE

WELL NO. JK-1209



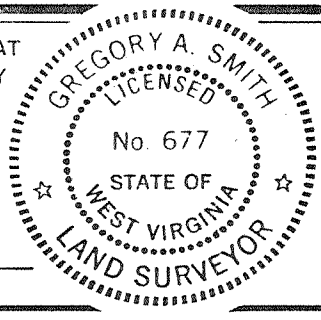
61.5 ACRES ±



SLS SMITH LAND SURVEYING

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS
 DATE MAY 13, 19 85
 OPERATORS WELL NO. JK-1209
 API WELL NO. 47-017-3452
 STATE WV COUNTY BUCKHANNON PERMIT CANCELLED

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. 18-19
 PROVEN SOURCE OF ELEVATION JUNCTION OF ROAD SCALE 1"=500'
 ELEV. = 802



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 1063' WATERSHED LONG RUN
 DISTRICT CENTRAL COUNTY DODDRIDGE QUADRANGLE WEST UNION 7.5'
 SURFACE OWNER RICHARD F. McCULLOUGH ACREAGE 51.41
 OIL & GAS ROYALTY OWNER RICHARD F. McCULLOUGH LEASE ACREAGE 61.5
 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 RHINE STREET
 ESTIMATED DEPTH 5995'

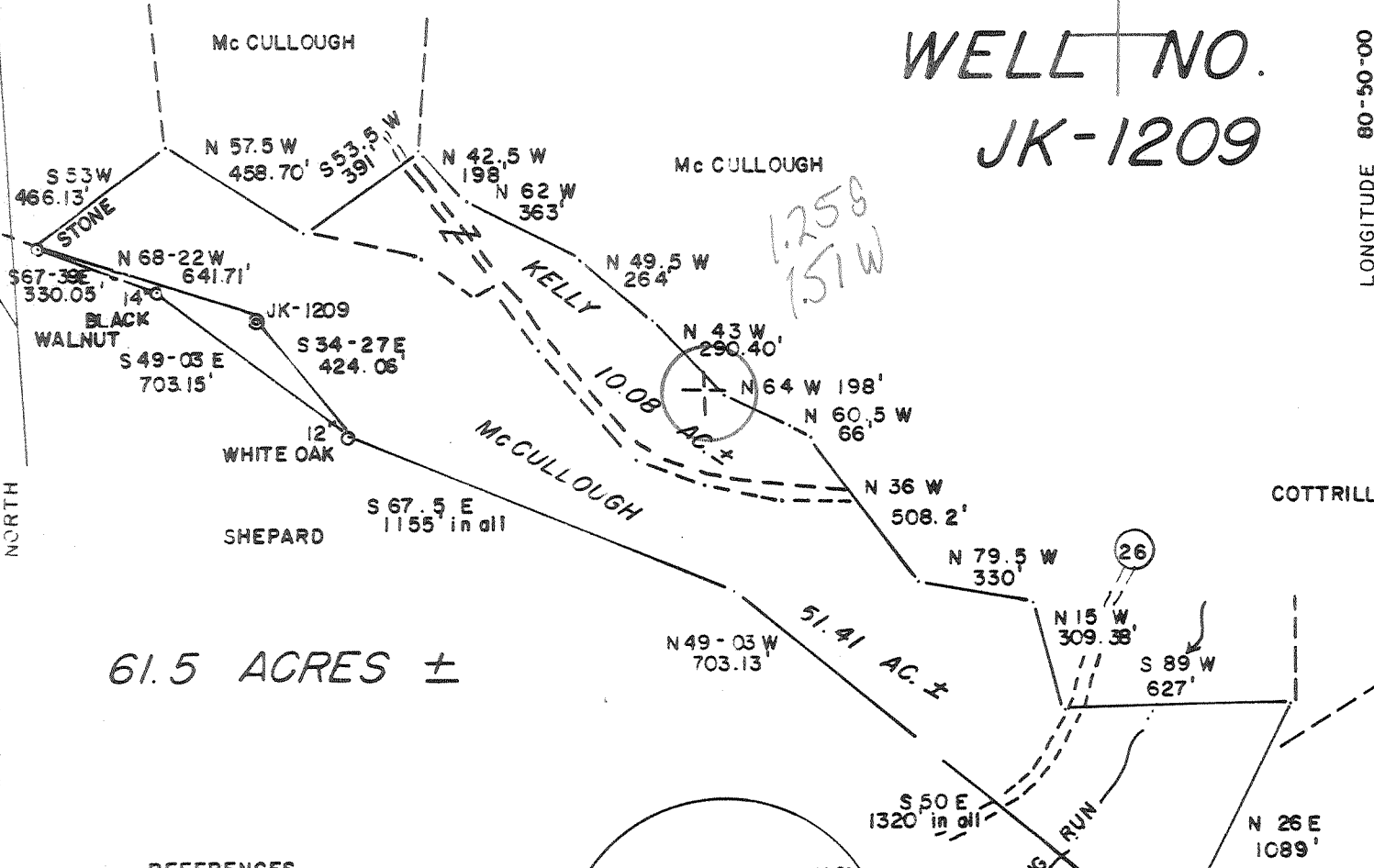
WELL OPERATOR J&J ENTERPRISES, INC. DESIGNATED AGENT RICHARD REDDECLIFF
 ADDRESS P.O. BOX 48, BUCKHANNON, WV 26201 ADDRESS P.O. BOX 48, BUCKHANNON, WV 26201

00-05-08 ADULTING 07 0939
 COUNTY NAME DODD
 PERMIT 3452

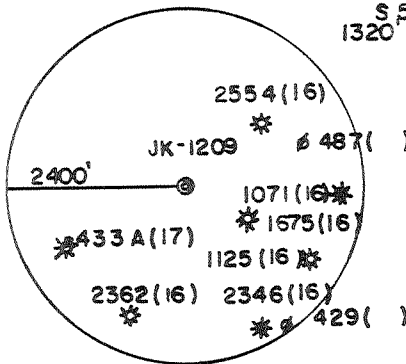
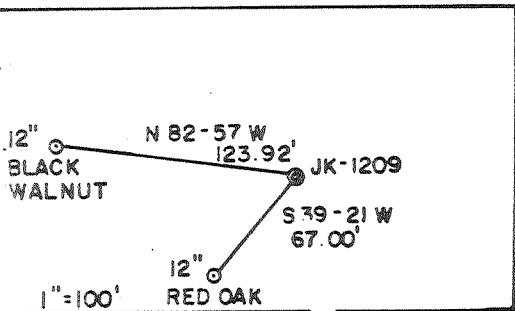
McCULLOUGH LEASE

WELL NO. JK-1209

1.25 S
1.51 W



REFERENCES

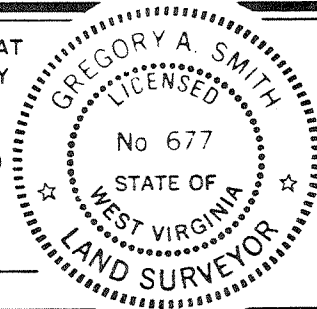


SLS SMITH LAND SURVEYING

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS
 DATE MAY 13, 19 85
 OPERATORS WELL NO. JK-1209
 API WELL NO.
47 - 017 - 3452
 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. 18-19
 PROVEN SOURCE OF ELEVATION JUNCTION OF ROAD SCALE 1" = 500'
 ELEV. = 802



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 1063' WATERSHED LONG RUN
 DISTRICT CENTRAL 1 COUNTY DODDRIDGE QUADRANGLE WEST UNION 7.5 671
 SURFACE OWNER RICHARD F. McCULLOUGH ACREAGE 51.41 West Union 133
 OIL & GAS ROYALTY OWNER RICHARD F. McCULLOUGH LEASE ACREAGE 61.5 SC 8

PROPOSED WORK: DRILL ___ CONVERT X 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 RHINE STREET
 ESTIMATED DEPTH 5995'

WELL OPERATOR J&J ENTERPRISES, INC. 427 DESIGNATED AGENT RICHARD REDDECLIFF
 ADDRESS P.O. BOX 48, BUCKHANNON, WV 26201 ADDRESS P.O. BOX 48, BUCKHANNON, WV 26201

JUL 20 1985



1) Date: June 10, 19 85
 2) Operator's Well No. JK-1209
 3) API Well No. 47 - 017-3452
 State _____ County _____ Permit _____

RECEIVED

JUL 9 1985

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

OIL & GAS DIVISION

- 4) WELL TYPE: Oil / Gas / Water / Other
 (If "Gas", Production / Underground storage _____ / Deep _____ / Shallow)
- 5) LOCATION: Elevation: 1063' Watershed: Long Run
 District: Central County: Doddridge 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 24150 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 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, Rhine Street 437
- 12) Estimated depth of completed well, 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	Left in well		
Conductor	11 3/4	H-40	42	X		2002'	200'	0 Sacks	Kinds
Fresh water	8 5/8	ERW	23	X		1663'	1663'	To surface	
Coal	8 5/8	ERW	23	X		1663'	1663'	To surface	Sizes
Intermediate									
Production	4 1/2	J-55	10.5	X		5995'	5945'	300 Sacks	Depths set
Tubing								or as required by rule 15-01	
Liners									Perforations:
									Top Bottom

OFFICE USE ONLY
 DRILLING PERMIT

Permit number 47-017-3452 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: <input checked="" type="checkbox"/>	Agent: <u>JK-17</u>	Plat: <u>MW</u>	Casing: <u>MW</u>	Fee: <u>1999</u>
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[Signature]

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