

LATITUDE 39-17-30
39-20

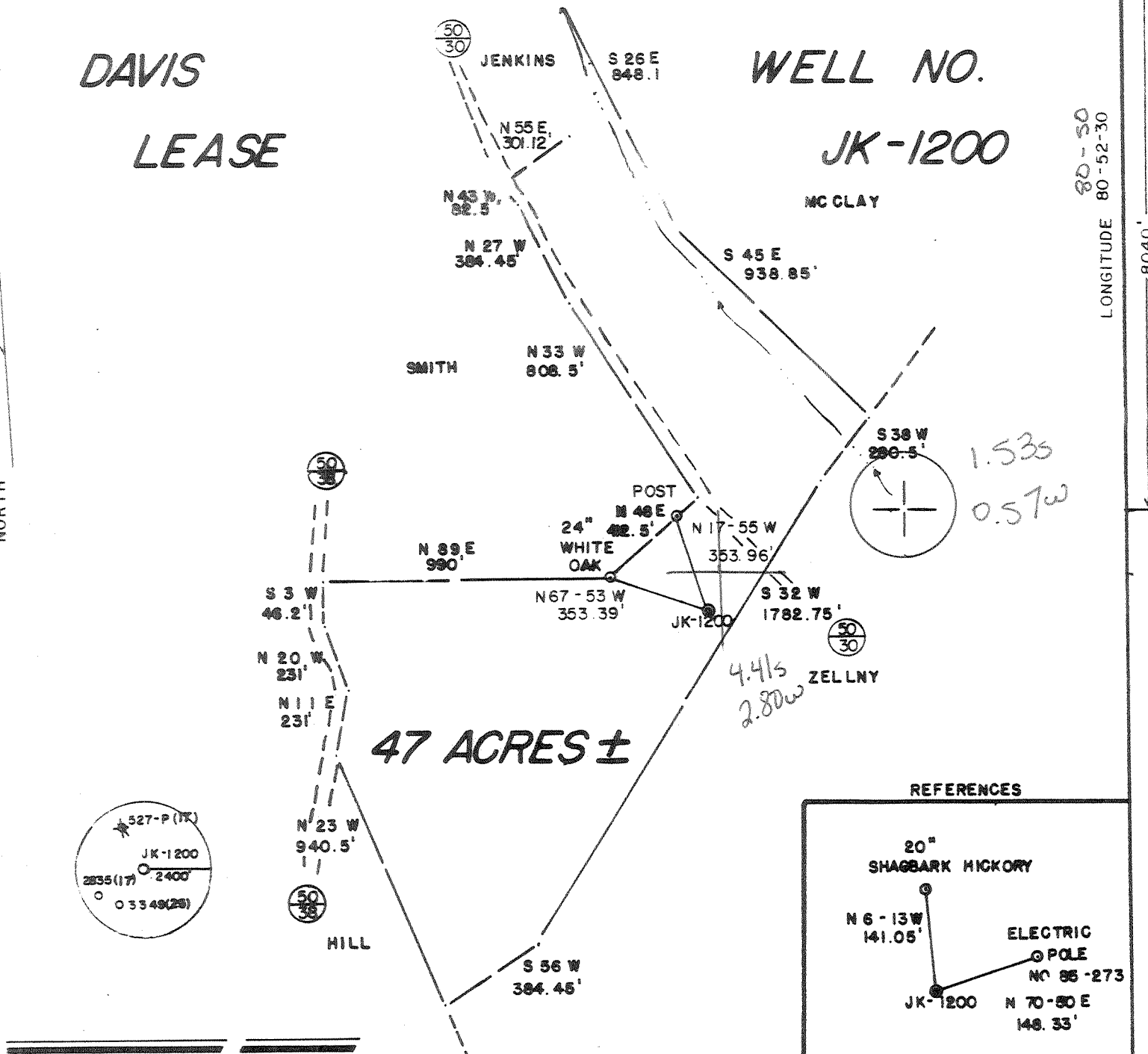
CODE _____ CARD _____ PLOT _____

DAVIS
LEASE

WELL NO.
JK-1200

LONGITUDE 80-52-30
80-50

NORTH

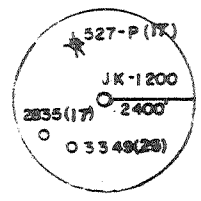
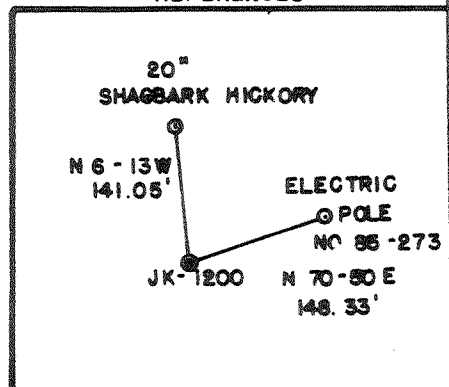


1.53s
0.57w

4.41s
2.80w

47 ACRES ±

REFERENCES

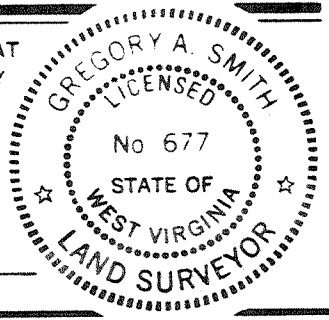


SLS SMITH LAND SURVEYING

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS
 DATE MAY 28, 1986
 OPERATORS WELL NO. JK-1200
 API WELL NO.
47 - 017 - 3436
 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. Gregory A. Smith
 677



MINIMUM DEGREE OF ACCURACY 1 / 200 FILE NO. 18-14
 PROVEN SOURCE OF ELEVATION B.M. B.E.V. = 890' SCALE 1\"/>



STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION

WELL TYPE: OIL _____ LIQUID GAS INJECTION _____ WASTE DISPOSAL _____ IF "GAS" PRODUCTION STORAGE _____ DEEP _____ SHALLOW
 LOCATION: ELEVATION 941' WATERSHED DOTSON RUN West Union 133 SC 8
 DISTRICT CENTRAL COUNTY DODDRIDGE QUADRANGLE PENNSBORO 7.5' 539
 SURFACE OWNER MARY JANE DAVIS ACREAGE 47
 OIL & GAS ROYALTY OWNER MARY JANE DAVIS LEASE ACREAGE 47
 PROPOSED WORK: DRILL CONVERT _____ DRILL DEEPER _____ REDRILL _____ FRACTURE OR STIMULATE PLUG OFF _____
 OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____ TARGET FORMATION RHINE STREET
 ESTIMATED DEPTH 5995'

WELL OPERATOR J & J ENTERPRISES, INC 427 DESIGNATED AGENT RICHARD REDEGLIFF
 ADDRESS P.O. BOX 46, BUCKHANNON, WV 26201 ADDRESS P.O. BOX 46, BUCKHANNON, WV 26201



Date September 16, 1985
 Operator's Well No. JK-1200
 Farm Davis
 API No. 47 - 017 - 3436

RECEIVED
 SEP 17 1985

State of West Virginia
 Department of Mines
 Oil and Gas Division

DIVISION OF OIL & GAS
 DEPARTMENT OF ENERGY

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: 941 Watershed Dotson Run
 District: Central County Doddridge Quadrangle Pennsboro 7.5

COMPANY J&J Enterprises, Inc.
 ADDRESS P.O. Bxo 48, Buckhannon, WV 26201
 DESIGNATED AGENT Richard Reddecliff
 ADDRESS P.O. Box 48, Buckhannon, WV 26201
 SURFACE OWNER Mary Jane Davis
 ADDRESS Greenwood, WV 26360
 MINERAL RIGHTS OWNER Same as surface
 ADDRESS _____
 OIL AND GAS INSPECTOR FOR THIS WORK Mike
Underwood ADDRESS Rt. 2, Box 114 Salem, WV 26426
 PERMIT ISSUED 6/12/85
 DRILLING COMMENCED 8/16/85
 DRILLING COMPLETED 8/23/85
 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"	176.95	176.95	90 sks.
9 5/8			
8 5/8	1557.65	1557.65	125 sks.
7			
5 1/2			
4 1/2	5252.35	5252.35	245 sks.
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Rhine Street Depth _____ feet
 Depth of completed well 5990 feet Rotary x / Cable Tools _____
 Water strata depth: Fresh 50-1080 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 5096-5118 feet
 Gas: Initial open flow _____ Mcf/d Oil: Initial open flow _____ Bbl/d
 Combined Final open flow (492) Mcf/d Oil: Final open flow _____ Bbl/d
 Time of open flow between initial and final tests 4 hours
 Static rock pressure 2150 psig (surface measurement) after 96 hours shut in
 (If applicable due to multiple completion--)

Second producing formation Benson Pay zone depth 4810-12 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)

SEP 30 1985

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

Alexander: Perforations: 5096-98 (2 holes) 5110-18 (8 holes)
 Fracturing: 450 sks. 20/40 sand: 91 Bbls. fluid.
 Benson: Perforations: 4810-12 (8 holes)
 Benson: 325 sks. 20/40 sand: 500 gal. acid: 86 Bbls. fluid.

BOTTOM HOLE PRESSURE $Pf = P_{we} \frac{XGLS}{1} = 0.000034 \cdot Pf = 2150 \times 2.72^{0.00003}$
 $T=60 + (0.0075 \times 5252) + 459.7 = 559$ $X=53.35 \times 559 = 29827$
 $(4964)(0.698)(0.9) = 2150 \times 2.72^{0.1} = 2150 \times 1.1$

Pf=2365 psi

WELL LOG


FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas.
Clay			0	3	1/4" stream @ 50'
Sandy shale & red rock			3	35	
Sand, shale & red rock			35	130	Damp @ 1080'
Black shale & sandy shale			130	180	
Red rock, sand & shale			180	525	Gas ck @ 1974 No show
Sandy shale & red rock			525	630	
Sandy shale & red rock			630	980	Gas ck @ 2290 No show
Sand & sandy shale			980	1150	
Sandy shale & sand			1150	1455	Gas ck @ 3306 No show
Sandy shale			1455	1595	
Sand & sandy shale			1595	1750	Gas ck @ 4477 No show
Black shale			1750	1755	
Sandy shale			1755	1815	Gas ck @ 4825 No show
Little Lime			1815	1825	
Shale & white sand			1825	1845	Gas ck @ 5144 24/10-1" w/water
Big Lime & Injun Sand			1845	1995	35,593 cu.ft.
Sandy shale & sand			1995	2290	
Sandy shale			2290	2750	Gas ck @ Drill collars
Shale & sand			2750	4810	12/10-1" w/water
Benson			4810	4812	25,087 cu.ft.
Sandy shale			4812	5096	
Alexander			5096	5118	
Sandy shale			5118	5990	

T.D.
EIK @ TD

Don't see any...
Top... 2445'

(Attach separate sheets as necessary)

J&J Enterprises, Inc.

Well Operator
 By: 
 Robert Dahlin - Geologist
 Date: 9/16/85

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 27, 1985
 2) Operator's Well No. JK-1200
 3) API Well No. 47-017-3436
 State County Permit:

RECEIVED

JUN 05 1985

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

APPLICATION FOR A WELL WORK PERMIT

OIL & GAS DIVISION

DEPT. OF MINES
 TYPE: A Oil / Gas X
 B (If Gas Production X) / Underground storage / Deep / Shallow X

5) LOCATION: Elevation: 941' Watershed: DOTSON RUN
 District: Central County: Doddridge Quadrangle: Pennsboro 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 XXX 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 X / Drill deeper / Redrill / Stimulate X
 Plug off old formation / Perforate new formation
 Other physical change in well (specify)

11) GEOLOGICAL TARGET FORMATION: Rhine Street
 12) Estimated depth of completed well, 5995' feet
 13) Approximate strata depths: Fresh, 135' feet; salt, N/A feet.
 * 14) Approximate coal seam depths: N/A 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		
Conductor	11 3/4	H-40	42	X		165'	165'	To Surface To Surface
Fresh water	8 5/8	ERW	23	X		1541'	1541'	
Coal	8 5/8	ERW	23	X		1541'	1541'	
Intermediate								
Production	4 1/2	J-55	10.5	X		5995'	5945'	300 Sacks
Tubing								or as required by rule 15-01
Liners								Perforations: Top <u> </u> Bottom <u> </u>

OFFICE USE ONLY
DRILLING PERMIT

Permit number 47-017-3436 Date June 12 1985

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 June 12, 1987 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond: <u>82</u>	Agent: <u>AIB</u>	Plat: <u>MU</u>	Casing: <u>MU</u>	Fee: <u>1982</u>
-----------------	-------------------	-----------------	-------------------	------------------

Margaret J. Hass
 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