

CODE CARD PLOT U

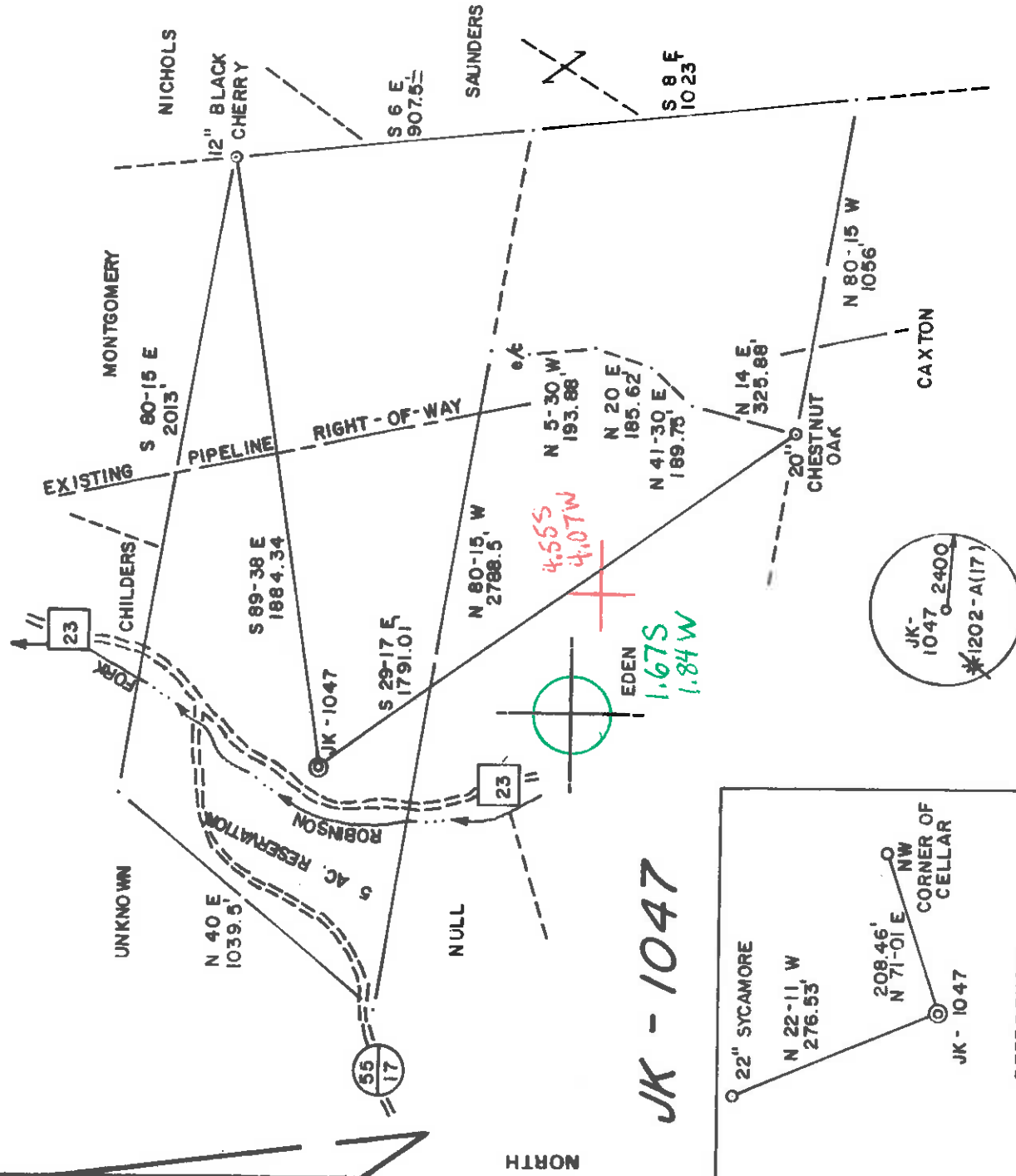
9690'

LATITUDE 39° 22' 30"

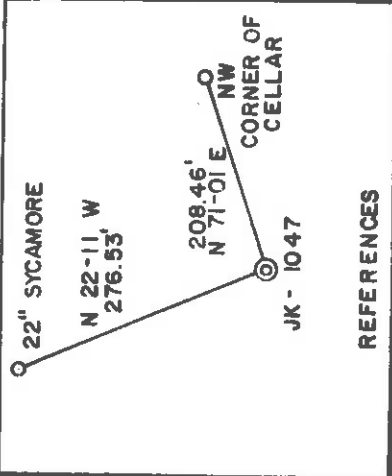
39° 25'

MC QUAID et. al. LEASE 65 ACRES ±

LONGITUDE 80° 32' 30" 8840'



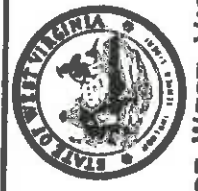
JK - 1047



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 AUG 23, 1984
 OPERATOR'S WELL NO. JK-1047
 API WELL NO.
47 - 017 - 3361
 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 866' WATER SHED DISTRICT MC CLELLAND 5 COUNTY DODDRIDGE
 QUADRANGLE SALEM 7.5 S 16 COUNTY CENTERPOINT Q22 ACREAGE 60.56
 SURFACE OWNER JOSEPH W. McQUAID
 OIL & GAS ROYALTY OWNER JOSEPH W. McQUAID et. al. LEASE ACREAGE 65
 LEASE NO. JK-26

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 ALEXANDER ESTIMATED DEPTH 5175'
 WELL OPERATOR J & J ENTERPRISES, INC. DESIGNATED AGENT RICHARD REDDECLIFF
 ADDRESS 4-7 P.O. BOX 48 ADDRESS P.O. BOX 48
BUCKHANNON, WV, 26201 BUCKHANNON, WV, 26201

OCT 22 1984

6-6 Smithton-Flint-Sedalia (99)



RECEIVED

DEC 7 - 1984

OIL & GAS DIVISION
DEPT. OF MINES

Date December 6, 1984
Operator's
Well No. JK-1047
Farm Joseph McQuaid
API No. 47 - 017 - 3361

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 / Shallow x /)

LOCATION: Elevation: 866 Watershed Robinson Fork
District: McClelland County Doddridge Quadrangle Salem

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 Joseph McQuaid
ADDRESS Rt. 7, Box 259, Fairmont, WV 26554
MINERAL RIGHTS OWNER Same as surface
ADDRESS _____

OIL AND GAS INSPECTOR FOR THIS WORK Mike
Underwood ADDRESS Rt. 2, Box 114, Salem, WV
PERMIT ISSUED 10/15/84 26426
DRILLING COMMENCED 11/14/84
DRILLING COMPLETED 11/14/84

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

Casing Tubing Size	Used in Drilling	Left in Well	Cement fill up Cu. ft.
20-16 Cond.			
13-10"	19	19	0
9 5/8			
8 5/8	1605.30	1605.30	360 sks.
7			
5 1/2			
4 1/2	5050.20	5050.20	215 sks.
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Alexander Depth _____ feet
Depth of completed well 5520 feet Rotary x / Cable Tools _____
Water strata depth: Fresh 50,128 feet; Salt 0 feet
Coal seam depths: None Is coal being mined in the area? No _____

OPEN FLOW DATA

Producing formation Benson Pay zone depth 4910-15 feet
Gas: Initial open flow _____ Mcf/d Oil: Initial open flow _____ Bbl/d
Combined Final open flow 315 Mcf/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests 4 hours

Static rock pressure 1400 psig (surface measurement) after 96 hours shut in
(If applicable due to multiple completion--)

Second producing formation Riley & Bradford 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
DEC 26 1984
(Continue on reverse side)

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

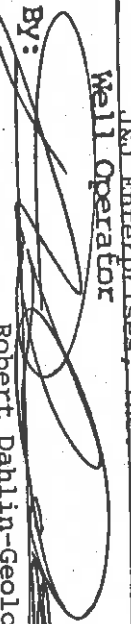
Benson: Perforations: 4910-15 (15 holes).
 Fracturing: 400 sks. 20/40 sand: 880 Bbls. fluid.: Foam frac.
 Riley: Perforations: 4645-47 (8 holes)
 Fracturing: 15,000 lbs. 20/40 sand: Foam frac
 Bradford: Perforations: 4398-4400 (8 holes)
 Fracturing: 16,500 lbs. 20/40 sand: Foam frac.

BOTTOM HOLE PRESSURE Pf=Pwe XGLS
 $t=60 + (0.0075 \times 5050) + 459.7=558$ $x=53.35 \times 558 =29747$ $=0.000034$ Pf=1400 X 2.72 (0.000034)
 (3.677) (4657) (0.9) =1400 X 2.72^{0.1} =1400 X 1.1
 Pf=1540 psi

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
Fill & Top soil			0	10	Including indication of all f and salt water, coal, oil and
Sand & shale			10	110	3/4" stream @ 50'
Sand, shale & red rock			110	270	More water @ 128'
White sand			270	305	Gas ck @ 2040 6/10-1" w/water 16,428 cu.ft.
Sand & shale			305	1850	
Big Lime			1850	1930	Gas ck @ 2193 4/10-1" w/water 15,641 cu.ft.
Big Injun			1930	2030	
Sand & shale			2030	4398	Gas ck @ 2841 10/10-2" w/water 23,314 cu.ft.
Bradford			4398	4400	
Sand & shale			4400	4645	Gas ck @ 2994 14/10-2" w/water 28,377 cu.ft.
Riley			4645	4647	
Sand & Shale			4647	4910	Gas ck @ 3889 8/10-2" w/water 21,300 cu.ft.
Benson			4910	4915	Gas ck @ 4782 6/10-2" w/water 15,448 cu.ft.
Sand & shale			4915	5520	Gas ck @ 5027 10/10-2" w/water 23,314 cu.ft.
			4915		

(Attach separate sheets as necessary)

T&I Enterprises, Inc
 Well Operator
 BY: 
 Date: 12/6/84 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
 sand, shale, limestone, etc."



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 Undergrnd storage Deep Shallow
 5) LOCATION: Elevation: 865 Watershed: Robinson Fork County: Doddridge Quadrangle: Salem 7.5'
 District: McClelland
 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 Name S.W. Jack Drilling Co.
 Address Rt. 2, Box 114 Address P.O. Box 48
Salem, WV 26426 Buckhannon, WV 26201
 9) DRILLING CONTRACTOR:
 Name S.W. Jack Drilling Co.
 Address P.O. Box 48
Salem, WV 26426 Buckhannon, WV 26201

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

11) GEOLOGICAL TARGET FORMATION, Alexander
 12) Estimated depth of completed well, 5175' feet
 13) Approximate true depths: Fresh, 65' 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)
	Size	Grade	Weight per ft.	For drilling	Left in well	
Conductor	11 3/4	H-40	42	X	0	0 Sacks
Fresh water	8 5/8	ERW	23	X	966	To surface
Coal	8 5/8	ERW	23	X	966	To surface
Intermediate						
Production	4 1/2	J-55	10.5	X	5175	300 Sacks
Tubing						or as required by rule
Liners						Perforations:
						Top _____ Bottom _____

Permit number 47-017-3361 **OFFICE USE ONLY**
DRILLING PERMIT Date October 15, 19 84

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 October 15, 1986 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond:	Agent:	Plat:	Casing	Fee
82	MW	MW	MW	1805

Margaret J. Hasse
 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

