

CARD

PLOT

9700'

39 45

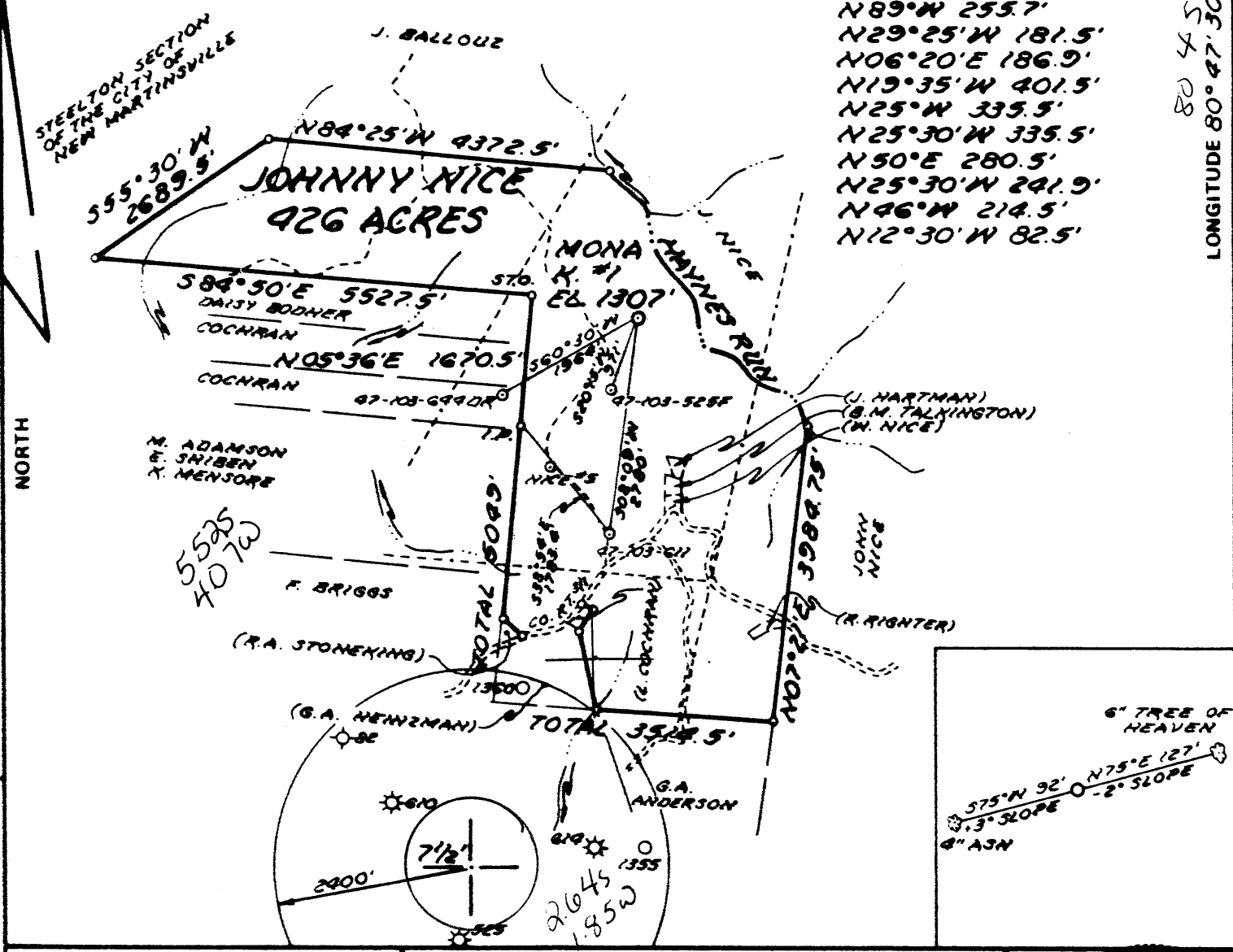
LATITUDE 39° 42' 30"

16 LINES DOWN HAYNES RUN:

- N35°10'W 198'
- N16°15'W 198'
- N82°W 429'
- N47°W 396'
- N57°30'W 214.5'
- N31°08'W 156.7'
- N89°W 255.7'
- N29°25'W 181.5'
- N06°20'E 186.9'
- N19°35'W 401.5'
- N25°W 335.5'
- N25°30'W 335.5'
- N50°E 280.5'
- N25°30'W 241.9'
- N46°W 214.5'
- N12°30'W 82.5'

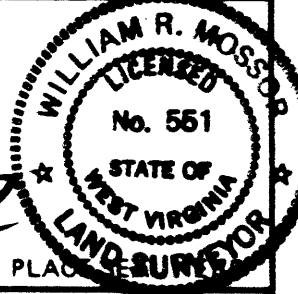
80 45
LONGITUDE 80° 47' 30"

13,775'



FILE NO. MB
 DRAWING NO. _____
 SCALE 1" = 2000'
 MINIMUM DEGREE OF ACCURACY 1:200
 PROVEN SOURCE OF ELEVATION HIGH PT. 1411' 2200' S OF LOC.

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) William R. Mossop
 R.P.E. _____ L.L.S. 551



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS
 FORM IV-6 (8-78)



DATE 10 NOVEMBER 19 85
 OPERATOR'S WELL NO. MONA K. #1
 API WELL NO. (REVISED)
47-103-1377
 STATE COUNTY PERMIT

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 1307' WATER SHED HAYNES RUN
 DISTRICT MAGNOLIA COUNTY NETZEL
 QUADRANGLE NEW MARTINSVILLE 718509 091 NE3
 SURFACE OWNER JOHNNY NICE, ET AL. ACREAGE 426
 OIL & GAS ROYALTY OWNER JOHNNY NICE, ET AL. LEASE ACREAGE 426
 LEASE NO. _____
 PROPOSED WORK: DRILL CONVERT _____ DRILL DEEPER _____ REDRILL _____ FRACTURE OR STIMULATE _____ PLUG OFF OLD FORMATION _____ PERFORATE NEW FORMATION _____ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____
 PLUG AND ABANDON _____ CLEAN OUT AND REPLUG _____ 6-6 Cameron-Garner (23)
 TARGET FORMATION GORDON ESTIMATED DEPTH 3500'
 WELL OPERATOR CLAY RESOURCES DESIGNATED AGENT ANDY BROWN
 ADDRESS 208 UNION SQUARE ADDRESS BOX 32
MARIETTA, OHIO 45750 READER, N.V. 26167

SEP 15 1986



DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

State of West Virginia
Department of Mines
Oil and Gas Division

Date September 8, 1986
Operator's Well No. Mona K. #1
Farm J. Nice Heirs
API No. 47 - 103 - 1377

WELL OPERATOR'S REPORT
OF
DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

WELL TYPE: Oil X / Gas X / Liquid Injection / Waste Disposal /
(If "Gas," Production X / Underground Storage / Deep / Shallow /)

LOCATION: Elevation: 1307 Watershed Haynes Run
District: Magnolia County Wetzel Quadrangle New Martinsville

COMPANY CLAY RESOURCES, INC.
ADDRESS 286 Front St., Marietta, OH 45750
DESIGNATED AGENT Andy Brown
ADDRESS Box 32, Reader, WV 26167
SURFACE OWNER Beulah Talkington
ADDRESS Rt. #1, Box 45, New Martinsville, WV 26155
MINERAL RIGHTS OWNER SAME
ADDRESS
OIL AND GAS INSPECTOR FOR THIS WORK
Don Ellis ADDRESS Fairmont, WV
PERMIT ISSUED December 31, 1986
DRILLING COMMENCED January 31, 1986
DRILLING COMPLETED February 4, 1986
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 Cord.			
13-10"			
9 5/8			
8 5/8	1545	1545	360 SKS
7			
5 1/2			
4 1/2	2980	2980	200 SKS
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION GORDON Depth 3100 feet
Depth of completed well 3030 feet Rotary X / Cable Tools
Water strata depth: Fresh feet; Salt 2287 feet
Coal seam depths: 1097 Is coal being mined in the area? NO

OPEN FLOW DATA
Producing formation GORDON Pay zone depth 2900-2920 feet
Gas: Initial open flow 35 Mcf/d Oil: Initial open flow 0 Bbl/d
Final open flow 30 Mcf/d Oil: Final open flow 0 Bbl/d
Time of open flow between initial and final tests 72 hours
Static rock pressure 330 psig (surface measurement) after 72 hours shut in
(If applicable due to multiple completions--)
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

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

PERFORATED: 20 SHOTS: 2885 - 2904 Gordon

FRAC'D: 1 STAGE FOAM: Broke @ 2100: ISP - 1350: 400 SKS 20/40 Sand: N2 483,000 SCF:

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
					Including indication of all fresh and salt water, coal, oil and gas
SAND, SS, LIMESTONE			0	2350	
SAND			2350	2670	1st Berea: 2650 - 2658 2nd Berea: 2660 - 2664
SS - SHALE			2670	2850	
SS - SHALE			2850	<u>3030</u>	<u>GORDON: 2898 - 2920</u>

(Attach separate sheets as necessary)

CLAY RESOURCES, INC.

Well Operator

By: Juan Kettering

Date: September 10, 1986

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 all, encountered in the drilling of a well."

7/85 RECEIVED NOV 25 1985



1) Date: October 23, 19 85
 2) Operator's Well No. Mona K. #1
 3) API Well No. 47 103 - 1377
 State County Permit

RECEIVED OCT 31 1985

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

- 4) WELL TYPE: A Oil / Gas
 B (If "Gas", Production / Underground storage _____ / Deep _____ / Shallow _____)
- 5) LOCATION: Elevation: ~~1300~~ 1307' Watershed: Haynes Run
 District: Magnolia 172 County: Wetzel Quadrangle: New Martinsville 7 1/2'
- 6) WELL OPERATOR Clay Resources, Inc CODE: 10025 7) DESIGNATED AGENT Andy Brown
 Address 204 Union Square Address Box 32
Marietta, OH 45750 Reader, WV 26167
- 8) OIL & GAS INSPECTOR TO BE NOTIFIED Name Robert Lowther 9) DRILLING CONTRACTOR: Name Unknown
 Address General Delivery Address _____
Middlebourne, WV 26149
- 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, Gordon 419
- 12) Estimated depth of completed well, 3500 feet
 13) Approximate trata depths: Fresh, 550 feet; salt, 2286 ~~5000~~ feet.
 14) Approximate coal seam depths: 900 - 1000' Is coal being mined in the area? Yes _____ / No
- 15) CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	Size	SPECIFICATIONS		FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS
		Grade	Weight per ft.	For drilling	Left in well		
Conductor	<u>11 3/4</u>			<u>580'</u>	<u>580'</u>	<u>C.T.S.</u>	<u>Per rule 15.05</u>
Fresh water	<u>8 5/8</u>			<u>1030'</u>	<u>1507'</u>	<u>CTS</u>	<u>Per rule 15.05</u>
Coal							<u>Sizes</u>
Intermediate							
Production	<u>4 1/2</u>			<u>3500'</u>	<u>500' + SKS</u>		<u>Depths set: Per rule 15.01</u>
Tubing							<u>Perforations:</u>
Lin...							<u>Top Bottom</u>

** to be run if fresh water is encountered*

OFFICE USE ONLY
 DRILLING PERMIT

Permit number 47-103-1377 Date December 31 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 December 31, 1987 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond:	Agent:	Plat:	Casing	Fee	WPCP	S&E	Other
	<u>ALB</u>	<u>AS</u>	<u>MP</u>	<u>1249</u>	<u>MP</u>	<u>MP</u>	

NOTE: Keep one copy of this permit posted at the drilling location.

[Signature]
 Director, Division of Oil and Gas

File

See the reverse side of the APPLICANT'S COPY for instructions to the well operator.