

MINIMUM ERROR OF CLOSURE ONE PART IN 2500
 SOURCE OF ELEVATION U.S.G.S. B.M. No. V124 Elev. 1057'
MAJORSVILLE QUAD.

Rev. 9.29.75
 New Location
 Drill Deeper
 Abandonment

"I, THE UNDERSIGNED, HEREBY CERTIFY THAT THIS MAP IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY PARAGRAPH 6 OF THE RULES AND REGULATIONS OF THE OIL AND GAS SECTION OF THE MINING LAWS OF WEST VIRGINIA"

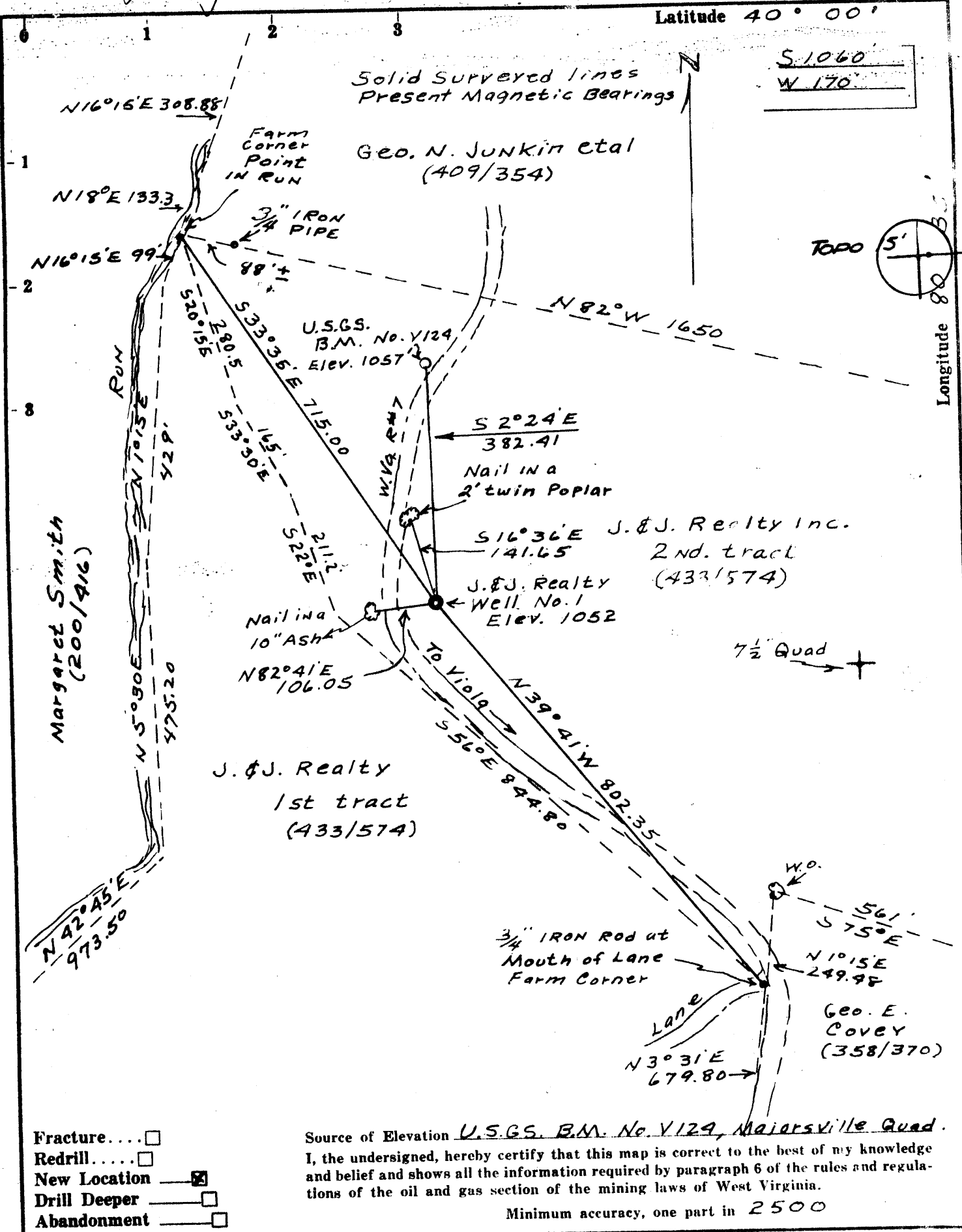
Company Kingery Drilling Co
 Address P.O. Box 1588 ARDMORE, OKLA.
 Farm J. & J. REALTY INC.
 Tract No. 2 Acres 22 Lease No. _____
 Well (Farm) No. (New Location) Serial No. NC
 Elevation (Spirit Level) 1066.50' Cameron 15'
 Quadrangle MAJORSVILLE QUAD. 7 1/2"
 County MARSHALL District SANDHILL
 Surveyor Charles V. Eller
 Engineer's Registration No. 39 W.Va. Surveyor
 File No. _____ Drawing No. _____
 Date AUG. 28, 1975 Scale 1" = 200'

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION
 CHARLESTON
 NOW: 1357P
WELL LOCATION MAP
 FILE NO. **MARS 564-REV**
 was: Mars 560-exp.
 + Denotes location of well on United States Topographic Maps, scale 1 to 62,500, latitude and longitude lines being represented by border lines as shown.
 - Denotes one inch spaces on border line of original tracing.
47-051

S 1060
W 170

Solid Surveyed lines
Present Magnetic Bearings

Geo. N. Junkin et al
(409/354)



- Fracture....
- Redrill.....
- New Location
- Drill Deeper
- Abandonment

Source of Elevation U.S.G.S. B.M. No. V124, Majorsville Quad.
 I, the undersigned, hereby certify that this map is correct to the best of my knowledge and belief and shows all the information required by paragraph 6 of the rules and regulations of the oil and gas section of the mining laws of West Virginia.
 Minimum accuracy, one part in 2500

Company Kingery Drilling Co.
 Address P.O. Box 1588 Ardmore Okla.
 Farm J. & J. Realty inc.
 Tract 2 Acres 22 Lease No. _____
 Well (Farm) No. 1 Serial No. _____
 Elevation (Spirit Level) 1052 NC
 Quadrangle Majorsville 7 1/2'; Cameron 15'
 County Marshall District Sandhill
 Surveyor or Engineer Charles V. Eller - Surveyor
 Surveyor's or Engineer's Registration No. 39 W.Va. Surveyor
 File No. _____ Drawing No. _____
 Date Feb. 20, 1975 Scale 1" = 200'

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

WELL LOCATION MAP

FILE NO. Mars-560
 now: 564

+ Denotes location of well on United States Topographic Maps, scale 1 to 62,500, latitude and longitude lines being represented by border lines as shown.

- Denotes one inch spaces on border line of original tracing.

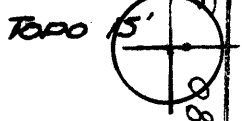
47-051

Latitude 40° 00'

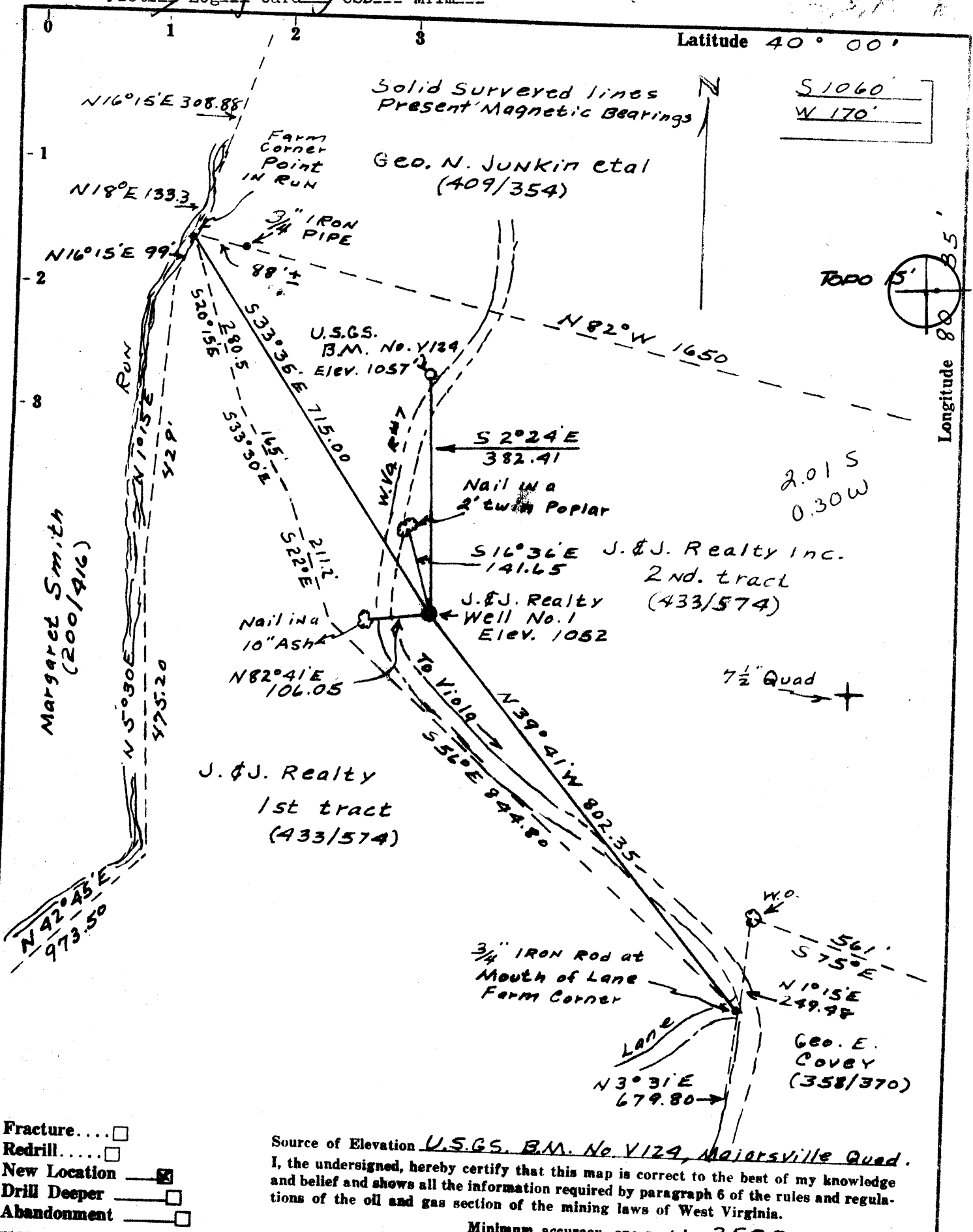
S 1060
W 170'

Solid Surveyed lines
Present Magnetic Bearings

Geo. N. Junkin et al
(409/354)



Longitude 80 B.S.



- Fracture....
- Redrill.....
- New Location
- Drill Deeper
- Abandonment

Source of Elevation U.S.G.S. B.M. No. V124, Majorsville Quad.
I, the undersigned, hereby certify that this map is correct to the best of my knowledge and belief and shows all the information required by paragraph 6 of the rules and regulations of the oil and gas section of the mining laws of West Virginia.
Minimum accuracy, one part in 2500

Company Kingery Drilling Co.
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 Tract 2 Acres 22 Lease No. _____
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 County Marshall District Sandhill
 Surveyor or Engineer Charles V. Eller - Surveyor
 Surveyor's or Engineer's Registration No. 39 W.Va. Surveyor
 File No. _____ Drawing No. _____
 Date Feb. 20, 1975 Scale 1" = 200'

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

WELL LOCATION MAP
 FILE NO. Mars-560-Expired
Reissued as: Mars-564
 Denotes location of well on United States Topographic Maps, scale 1 to 62,500, latitude and longitude lines being represented by border lines as shown.
 — Denotes one inch spaces on border line of original tracing.

47-051

2200 B.S.



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

Oil and Gas Division

WELL RECORD 7

Quadrangle Majorsville *issued & revised*
Permit No. Mars-560 564

Rotary X Oil X
Cable _____ Gas _____
Recycling _____ Comb. _____
Water Flood _____ Storage _____
Disposal _____ (Kind)

Company Kingery Drilling Company
Address Box 1588, Ardmore, Okla. 73401
Farm J & J Realty, Inc. Acres 72
Location (waters) wheeling Creek
Well No. One (1) Elev. 1070
District Sand Hill County Marshall
The surface of tract is owned in fee by _____
J & J Realty, Inc.
Address 56 14th St., Wheeling, W. Va. 26003
Mineral rights are owned by Same
Address _____
Drilling Commenced 8/19/75
Drilling Completed 8/27/75
Initial open flow _____ cu. ft. _____ bbls.
Final production 50M cu. ft. per day _____ bbls.
Well open _____ hrs. before test _____ RP.
Well treatment details:

Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Size 20-16			
Cond. 13-10"			
9 5/8			
8 5/8	583	583	to surface 175 sks.
7			
5 1/2			
4 1/2	2214	2214	sks. 240
3			
2			
Liners Used			

Attach copy of cementing record.

Other side

Coal was encountered at 540 to 548 Feet _____ Inches
Fresh water Approx. 260 Feet _____ Salt Water 1370 Feet _____
Producing Sand SFRA Depth 2166

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Soil			0	10		
Shale and Sand			10	541		
✓Coal			541	548		
Shale			548	630		
Shale, Red Rock			630	870		
Sand			870	890		
Shale, Red Rock			890	896		
Sand			896	904		
Shale			904	942		
Sand			942	950		
Shale			950	996		
Sand			996	1010		
Shale			1010	1054		
Sand			1054	1068		
Shale			1068	1148		
Salt Sand			1148	1184		
Shale			1184	1210		
Sand			1210	1216		
Shale, Silty			1216	1276		
Salt Sand			1276	1290		
Shale			1290	1300		
Salt Sand			1300	1322		
Shale			1322	1360		

1586
1070
-516

(over)

* Indicates Electric Log tops in the remarks section.

Formation	Color	Hard or Soft	Top Feet <i>7</i>	Bottom Feet	Oil, Gas or Water	* Remarks
Salt Sand			1360	1392		
Shale			1392	1446		
Salt Sand			1446	1586		
Big Lime			1586	1664		
Big Injun			1664	1814		
Shale			1814	2156		
<u>Berea</u>			2156	<u>2166</u>		
Shale			2166	2225		
				2225		Drlr. T. D.
				2175		Log T. D.
Completion Report						
10-8	Run Bond & Correl. Log					
10-9	Swab hole down. <u>Perforate 2162-66</u> ^(Berea) in 200 gal. 15% acid. Work acid. Swab dry- Break down with 500 gal. 15% acid @ 3300#. Pump rate 8 bbl/min. @3200#. Re-perforate- pump rate 12 bbl./min. @ 3000#. Swab hole down. Shut down.					
10-10 8 a.m.	Pull swab, 500ft. fill up. Pull swab, 100 ft. fill up. Pull swab, 60 ft. Show of gas in foam. Load hole w/1000 gal. acid. Frac with 25,000 # of 20-40- sand - 28/bbl. min. Pres. 2700# w/130,000 SCF Nitrogen and KCL water. Blow back - flow 4 hrs. Swab 1 hr. Last pull 500' fill up. Slightly salty taste. 30 min. gas blow light. Shut down 6 P.M. Leave open.					
10-11 8 a.m.	Still light gas. 800' fill up. Walter saltier. Swab down. Approx. 100 ft. fill up - 30 min. Check bottom. Sand just below perfs. Sand pump 17 gals. sand. Left 10 ft. in bottom of hole. Test swab 80 - 100 ft. salty water each 30 min. Test volume with Manometer = <u>33 MCFD</u> . Shut in at 1:30 P.M. for pressure test.					
10-12	20 hr. shut in - 460#. Bled off to 80# in 2hrs. thru 1/16 th. in. choke.					
10-13	16 hr. shut in - 440# - 1200 ft. fluid in hole. Put in 7 sk. sand plug. <u>Perfoate 1066-72</u> and <u>1180-86</u> ^(Salt sd) . Pump 250 gal. of 15% acid, feed in @ 750#, break at 2500#. Swab back. Pump 750 gal. 15% acid with 10 ball sealers at 4-5 bbl. per min. and 1300#. ISDP 750#. Swab back. Shut in.					
10-14	14 hr. shut in - 510#, 8 - 900 ft. fluid. Sand pump and swab 3 hrs., 300 ft. fluid 1 hr. test swabbed 50 ft. fluid. Leave open overnight.					
10-15	1000 ft. fluid in hole in 16 hrs. Gas blow about the same. Swabbed down Shut in. Tore down					

Date 3-25-77, 19

APPROVED Kingery Drilling Company, Inc. Owner

By *[Signature]*
(Title)



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

RECEIVED

MAR 3 1975

Oil and Gas Division

OIL AND GAS WELL PERMIT APPLICATION

TO THE DEPARTMENT OF MINES,
Charleston, W. Va.

DATE March 1, 1975

Surface Owner J. and J. Realty Inc.

Company Kingery Drilling Company Inc.

Address 56, 14th Street, Wheeling, W. Va.

Address P.O. Box 1588, Ardmore, Okla. 73401

Mineral Owner Same 26003

Farm J. and J. Realty Inc. Acres 72

Address Same

Location (waters) Wheeling Creek

Coal Owner Same

Well No. 1 Elevation 1052' Gr.

Address Same

District Sand Hill County Marshall

Coal Operator None

Quadrangle Majorsville

Address _____

THIS PERMIT MUST BE POSTED AT THE WELL SITE

NOTICE TO BE NOTIFIED Richard Morris
Brentsville W.Va. PH: 354-7259

All provisions being in accordance with Chapter 22, of the W. Va. Code, the location is hereby approved for drilling. This permit shall expire if operations have not commenced by 7-3-75

Deputy Director - Oil & Gas Division

GENTLEMEN:

The undersigned well operator is entitled to drill upon the above named farm or tract of land for oil and gas, having fee title thereto, (or as the case may be) under grant or lease dated February 12, 1975 by J. and J. Realty Inc. made to Kingery Drilling Company Inc. and recorded on the 18th. day of February 1975, in Marshall County, Book _____ Page _____

XX NEW WELL _____ DRILL DEEPER _____ REDRILL _____ FRACTURE OR STIMULATE _____ OIL AND GAS WELL ORIGINALLY DRILLED BEFORE JUNE 5, 1969.

The enclosed plat was prepared by a registered engineer or licensed land surveyor and all coal owners and/or operators have been notified as of the above date.

The above named coal owners and/or operator are hereby notified that any objection they wish to make, or are required to make by Section 3 of the Code, must be received by, or filed with the Department of Mines within ten (10) days. *

Copies of this notice and the enclosed plat were mailed by registered mail, or delivered to the above named coal operators or coal owners at their above shown respective address _____ day _____ before, or on the same day with the mailing or delivery of this copy to the Department of Mines at Charleston, West Virginia.

PLEASE SUBMIT COPIES OF ALL GEOPHYSICAL LOGS DIRECTLY TO:
West Virginia Geological and Economic Survey
P. O. Box 879
Morgantown, W. Va. 26505
AC 304-296-4461

Very truly yours, KINGERY DRILLING COMPANY INC.
(Sign Name) James McBurney
Attorney in Fact
P.O. Box 1588,
Street
Ardmore,
City or Town
Oklahoma. 73401
State

Address of Well Operator

*SECTION 3 . . . If no objections are filed or found by the Department of mines, within said period of ten days from the receipt of notice and plat by the department of mines, to said proposed location, the department shall forthwith issue to the well operator a permit reciting the filing of such plat, that no objections have been made by the coal operators or found thereto by the department and that the same is approved and the well operator authorized to proceed.

BLANKET BOND

Mars-560 now: 564
PERMIT NUMBER
47-051

THIS IS AN ESTIMATE ONLY
ACTUAL INFORMATION WILL BE SUBMITTED ON OG-10 UPON COMPLETION

PROPOSED WORK ORDER TO X DRILL _____ DEEPEN _____ FRACTURE-STIMULATE _____
 DRILLING CONTRACTOR: (If Known) _____ RESPONSIBLE AGENT: _____
 NAME Armstrong Drilling Inc. NAME J. H. McClure
 ADDRESS P.O. Box 545, Wooster, Ohio 44691 ADDRESS Shadow Knoll, Wheeling, W. Va.
 TELEPHONE 216-262-4101 TELEPHONE 242-7439 26003
 ESTIMATED DEPTH OF COMPLETED WELL: 2250' ROTARY X CABLE TOOLS _____
 PROPOSED GEOLOGICAL FORMATION: Berea
 TYPE OF WELL: OIL _____ GAS X COMB. _____ STORAGE _____ DISPOSAL _____
 RECYCLING _____ WATER FLOOD _____ OTHER _____

TENTATIVE CASING PROGRAM:

CASING AND TUBING SIZE	USED FOR DRILLING	LEFT IN WELL	CEMENT FILL UP OR SACKS - CUBIC FT.
20 - 16			
13 - 10			
9 - 5/8			
8 - 5/8			
7	575'	575'	To Surface
5 1/2			
4 1/2			
3	2250'	2250'	Perf. Top
2			Perf. Bottom
Liners			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS 25-50' FEET _____ SALT WATER _____ FEET _____
 APPROXIMATE COAL DEPTHS 525' _____ , _____
 IS COAL BEING MINED IN THE AREA? No BY WHOM? _____

TO DRILL:

SUBMIT FIVE (5) COPIES OF OG - 1, \$100.00 PERMIT FEE, PERFORMANCE BOND AND PERMANENT COPY OF PLAT.

TO DRILL DEEPER OR REDRILL:

SUBMIT FIVE (5) COPIES OF OG - 1, SHOWING ORIGINAL PERMIT NUMBER AND PERFORMANCE BOND. ON WELLS DRILLED PRIOR TO 1929, A PERMANENT COPY OF THE PLAT AND THE ORIGINAL WELL RECORD MUST ALSO BE SUBMITTED.

TO FRACTURE - STIMULATE:

OIL AND/OR GAS WELL ORIGINALLY DRILLED BEFORE JUNE 5, 1929, FIVE (5) COPIES OG - 1, PERFORMANCE BOND, PERMANENT PLAT AND ORIGINAL WELL RECORD.

OIL AND/OR GAS WELL ORIGINALLY DRILLED ON AND/OR AFTER JUNE 5, 1929, FIVE COPIES OG - 1, SHOWING ORIGINAL PERMIT NUMBER, AND PERFORMANCE BOND.

Required forms must be filed within ninety (90) days of completion for bond release. Inspector to be notified twenty-four (24) hours in advance.

The following waiver must be completed by the coal operator if the permit is to be issued within ten days of receipt thereof.

WAIVER: I the undersigned, Agent for _____ Coal Company, Owner or Operator of the coal under this lease have examined and place on our mine maps this proposed well location.

We the _____ Coal Company have no objections to said well being drilled at this location, providing operator has complied with all rules and regulations in Articles 4, 5, and 7, Chapter 22 of the West Virginia Code.

 For Coal Company

 Official Title