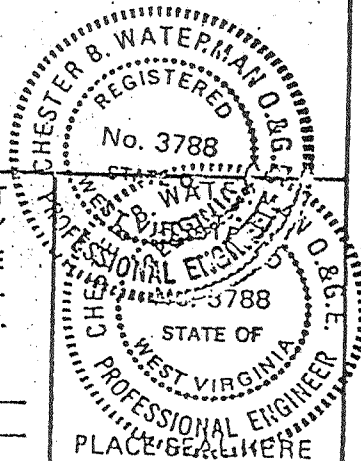


* LOST HOLE - SKIDDED RIG

FILE NO. 81-508
 DRAWING NO. _____
 SCALE 1" = 500'
 MINIMUM DEGREE OF ACCURACY 1/200'
 PROVEN SOURCE OF ELEVATION B.M. ON ROAD (634')

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) Chester B. Waterman
 R.P.E. 3788 L.L.S. _____



*) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS

FORM IV-6 (3-78)



STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION

DATE 08/01 2001
 OPERATOR'S WELL NO. 1191
 API WELL NO. _____
47 - 085 - 05298F
 STATE COUNTY PERMIT

WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___
 (IF "GAS,") PRODUCTION X STORAGE ___ DEEP ___ SHALLOW ___
 LOCATION: ELEVATION 1022 WATER SHED _____
 DISTRICT GRANT COUNTY NUTTER FORK
CAIRO QUADRANGLE 7.5' COUNTY RITCHIE
 SURFACE OWNER J.A. RUBY ACREAGE 64.5
 OIL & GAS ROYALTY OWNER W. D. WHITE LEASE ACREAGE 64.5
 LEASE NO. _____

PROPOSED WORK: DRILL ___ CONVERT ___ DRILL DEEPER ___ REDRILL ___ FRACTURE OR STIMULATE X PLUG OFF OLD FORMATION ___ PERFORATE NEW FORMATION X OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____

AUG 31 2001

PLUG AND ABANDON ___ CLEAN OUT AND REPLUG ___
 TARGET FORMATION INSON ORISKANY ESTIMATED DEPTH 5850'
 WELL OPERATOR PRIME OPERATING CO. DESIGNATED AGENT ROBERT L. BLACK BURN

714 1/2 Lee St. E
 Chao. WV 25301

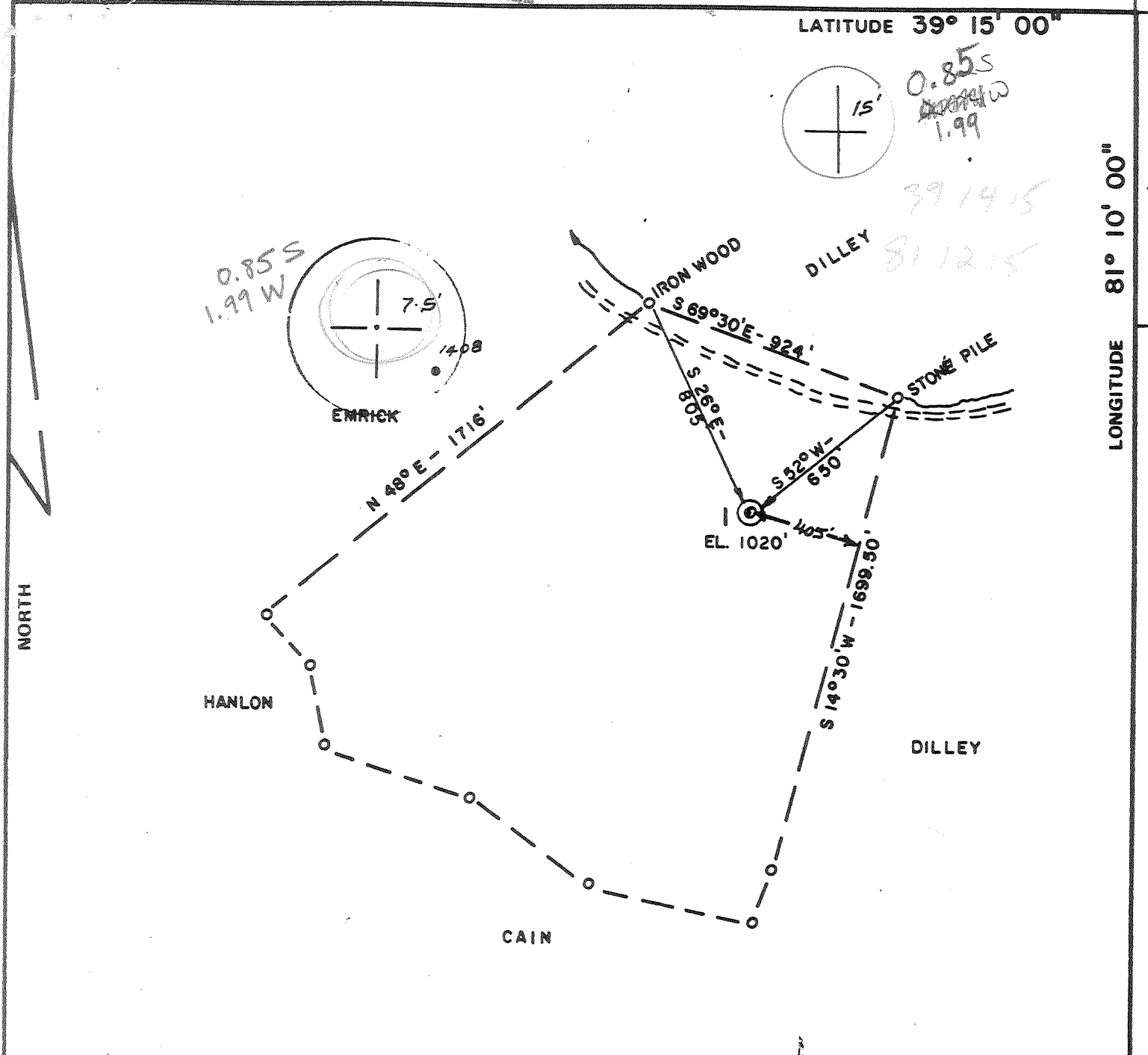
W-6-6 114

RIT 5298 F

10/5 Plot ✓ CSD. 10,500' WEST

LATITUDE 39° 15' 00"

LONGITUDE 81° 10' 00" 4370' SOUTH



FILE NO. 81-494
 DRAWING NO. _____
 SCALE 1" = 500'
 MINIMUM DEGREE OF ACCURACY 1/200'
 PROVEN SOURCE OF ELEVATION B.M. ON ROAD (834')

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) [Signature]
 R.P.E. 3788 L.L.S. _____

STATE OF WEST VIRGINIA
 No. 3788
 PLACE SEAL HERE

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



DATE 9/14, 19 81
 OPERATOR'S WELL NO. 1
 API WELL NO. 47 - 085 - 5298
 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 1020 WATER SHED NUTTER FORK
 DISTRICT GRANT COUNTY RITCHIE
 QUADRANGLE CAIRO 7.5' Harrisville 1 S NW
 SURFACE OWNER W. D. WHITE ACREAGE 64.5
 OIL & GAS ROYALTY OWNER W. D. WHITE LEASE ACREAGE 64.5
 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 ___
 TARGET FORMATION ORISKANY ESTIMATED DEPTH 5950'
 WELL OPERATOR WAYNE W. BUCKHANNON DESIGNATED AGENT JIM P. MORRIS
 ADDRESS SAN ANTONIO, TX ADDRESS CHARLESTON, WV OCT 29 1981



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

RECEIVED

OCT 5 - 1981

OIL AND GAS DIVISION
WV DEPARTMENT OF MINES

Oil and Gas Division

OIL AND GAS WELL PERMIT APPLICATION

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

DATE September 15, 1981
Company Wayman W. Buchanan
Address San Antonio, Texas
Farm White Acres 64.50
Location (waters) Big Run
Well No. #1 Elevation _____
District Grant County Ritchie
Quadrangle Cairo 7.5

Surface Owner William D. White
Address Box 44, Cairo, West Virginia
Mineral Owner William D. White
Address Box 44, Cairo, West Virginia
Coal Owner William D. White
Address Box 44, Cairo, West Virginia
Coal Operator None
Address _____

PERMIT MUST BE POSTED AT THE WELL SITE

provisions being in accordance with Chapter 22,
the W. Va. Code, the location is hereby approved
drilling. This permit shall expire if
operations have not commenced by 6-15-82
John B. Brundage
Deputy Director - Oil & Gas Division

INSPECTOR
TO BE NOTIFIED Paul K. Goodnight
ADDRESS Smithville, West Virginia 26178
PHONE 1-477-3660

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 August 10, 1981 by William D. White made to Magnum Oil Corporation and recorded on the 14th day of August 1981 in Ritchie County, Book 138 Page 19
 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, WEST VIRGINIA 26505
AC-304 - 292-6331

Very truly yours, MORRIS EXPLORATION, CO.
(Sign Name) *Jim P. Morris*
Well Operator
JAMES P. MORRIS
414 PEOPLES BUILDING
Street
CHARLESTON
City or Town
WEST VIRGINIA
State

*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.

47-085-5298 _____ PERMIT NUMBER

"I have read and understand the reclamation requirements as set forth in Chapter 22, Article 4, Section 12-b and will carry out the specified requirements."

Signed by _____

BLANKET BOND

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 Gene Stalnaker, Inc. NAME James P. Morris
 ADDRESS Glenville, West Virginia 26351 ADDRESS Charleston, West Virginia
 TELEPHONE 1-462-5701 TELEPHONE 1-345-6631
 ESTIMATED DEPTH OF COMPLETED WELL: 5950' ROTARY X CABLE TOOLS _____
 PROPOSED GEOLOGICAL FORMATION: Oriskany
 TYPE OF WELL: OIL _____ GAS _____ COMB. X 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 x 18 11 3/4, O.D.	125'	125'	Circulate
9 - 5/8			
8 - 5/8	1900'	1900'	Circulate
7			
5 1/2			
4 1/2	5950'	5950'	380 sks.
3			Perf. Top
2			Perf. Bottom
Liners			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS 65 FEET SALT WATER _____ FEET
 APPROXIMATE COAL DEPTHS None
 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

8-35
8-81

RECEIVED

AUG - 9 1982

OIL AND GAS DIVISION
WV DEPARTMENT OF MINES



State of West Virginia

Department of Mines
Oil and Gas Division

Date July 8, 1982

Operator's Well No. White #1

Farm W. D. White

API No. 47 -085 - 5298

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 / Underground Storage / Deep X / Shallow /)

LOCATION: Elevation: 1050KB Watershed Nutter Fork
District: Grant County Ritchie Quadrangle Cairo 7.5'

COMPANY Wayman W. Buchanan
ADDRESS 444 Petroleum Commerce Building
San Antonio, Texas 78205

SIGNATED AGENT Jim P. Morris
ADDRESS 401 Peoples Building
Charleston, WV 25301

SURFACE OWNER W. D. White
ADDRESS Box 44, Cairo, WV

GENERAL RIGHTS OWNER W. D. White
ADDRESS Same

ENGINEER AND GAS INSPECTOR FOR THIS WORK Paul
Goodnight ADDRESS Smithville, WV 26178

PERMIT ISSUED 9/15/81

DRILLING COMMENCED 10/16/81

DRILLING COMPLETED 11/5/81

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

Casing & Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft.
Size 20-16 Cond.			
10 5/8	71'	71'	Surface
9 5/8			
8 5/8	2003	2003	Surface
7			
5 1/2			
4 1/2	5859	5916	380 sks
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Marcellus Shale Depth 5726 feet

Depth of completed well 5859 feet Rotary X / Cable Tools

Water strata depth: Fresh feet; Salt feet

Coal seam depths: Is coal being mined in the area?

FLOW DATA

Producing formation ^{Upper} Devonian Shale to Rhinestrut & Anzok Pay zone depth 2826-5800 feet

Gas: Initial open flow N/S: Mcf/d Oil: Initial open flow 0 Bbl/d
Final open flow 165 Mcf/d Final open flow X Bbl/d

Time of open flow between initial and final tests 20 hours

Static rock pressure 790 psig (surface measurement) after 72 hours shut in
(If applicable due to multiple completion--)

Second producing formation None 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 AUG 16 1982

Static rock pressure (surface measurement) after hours shut in

... OF PERFORATED INTERVALS, ... CRISTOPOLITANS, PHYSICAL ...
 Perforated 5800 to 5384 with 25 holes. Frac w/500 gal. 15% HCl; 260 bbl.
 O; 517,500SCF N₂; 15,000 lbs. 80/100 Sand, 45,000 lbs. 20/40 sand.
 Perforated 4865 to 4312 w/22 shots. Frac w/500 gal. 15% HCl; 260 bbls.
 O; 600,000SCF N₂; 15,000 lbs. 80/100 sand, 45,000 20/40 sand. Per-
 forated 3878 to 3324 w/25 holes. Frac w/500 gal., 15% HCl, 255 bbls.
 O; 492,000SCF N₂; 15,000 lbs. 80/100 sand, 45,000 lbs. 20/40 sand.
 Perforated 3275 to 2826 w/22 holes. Frac w/1000 gal. 15% HCl; 196 bbls.
 O; 500,000SCF N₂; 15,000 lbs. 80/100 sand, 20,000 lbs. 20/40 sand.

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
and shale			Surface	410	
			410	455	
y Shale			455	1156	
ey Sand			1156	1315	
			1315	1350	
e			1350	1360	
			1360	1406	
e			1406	1442	
			1442	1508	
e			1508	1540	
			1540	1590	
e			1590	1637	
			1637	1650	
e			1650	1678	
			1678	1733	
			1733	1785	
			1785	1806	
il Cave			1806	1822	
Lime, Big			1822	1877	
injun			1877	1918	
			1918	1984	
e			1984	2341	2826 - 3275 U. Devonian
ee Shale • Sunbury			2341	2352	3324 - 3878 ^{UP} Haron
e			2352	5364	4312 - 4865 lower Haron - Java -
estreet Shale Rhinestreet			5364	5511	5384 - 5800 Rhinestreet + Sonyea
e Sonyea + Genesee			5511	5737	into Marcellus
ellus Shale Marcellus			5737	5809	
daga Onondaga			5809	5859	

5859
 -4865
 994 expl. ft.

(Attach separate sheets as necessary)

Wayman W. Buchanan
 Well Operator

By: Scott C. Butterfield (Geologist)

Date: July 8, 1982

5109
 2352
 3457

Regulation 2.09(d) provides as follows:
 "The term 'log' or 'well log' shall mean a systematic
 detailed geological record of all formations, including
 coal, encountered in the drilling of a well."

White #1191 47-085-05298

4/6/01

Plug set @ 2151.5' to squeeze
Perforated from 2130' 4 shots
Run 26 sks of neat cement,
Perforate 1938-2002'
Change out top joint of 4 1/2" casing
Dowell pumped 500 gal of 28% acid, 20/40 sand
420 bbl. of water, Breakdown 2020 Treat 1515#
Shut in 1500 after 15 minutes

See original well record for formations, etc.