



west virginia department of environmental protection

Office of Oil and Gas
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Earl Ray Tomblin, Governor
Randy C. Huffman, Cabinet Secretary
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March 07, 2016

FINAL INSPECTION REPORT

Horizontal Well Permit Cancelled

HARD ROCK EXPLORATION, INC.,

The FINAL INSPECTION REPORT for the CANCELLED permit, API Well Number: 47-3502987, issued to HARD ROCK EXPLORATION, INC., and listed below has been received in this office. The permit has been cancelled as of 3/1/2016.

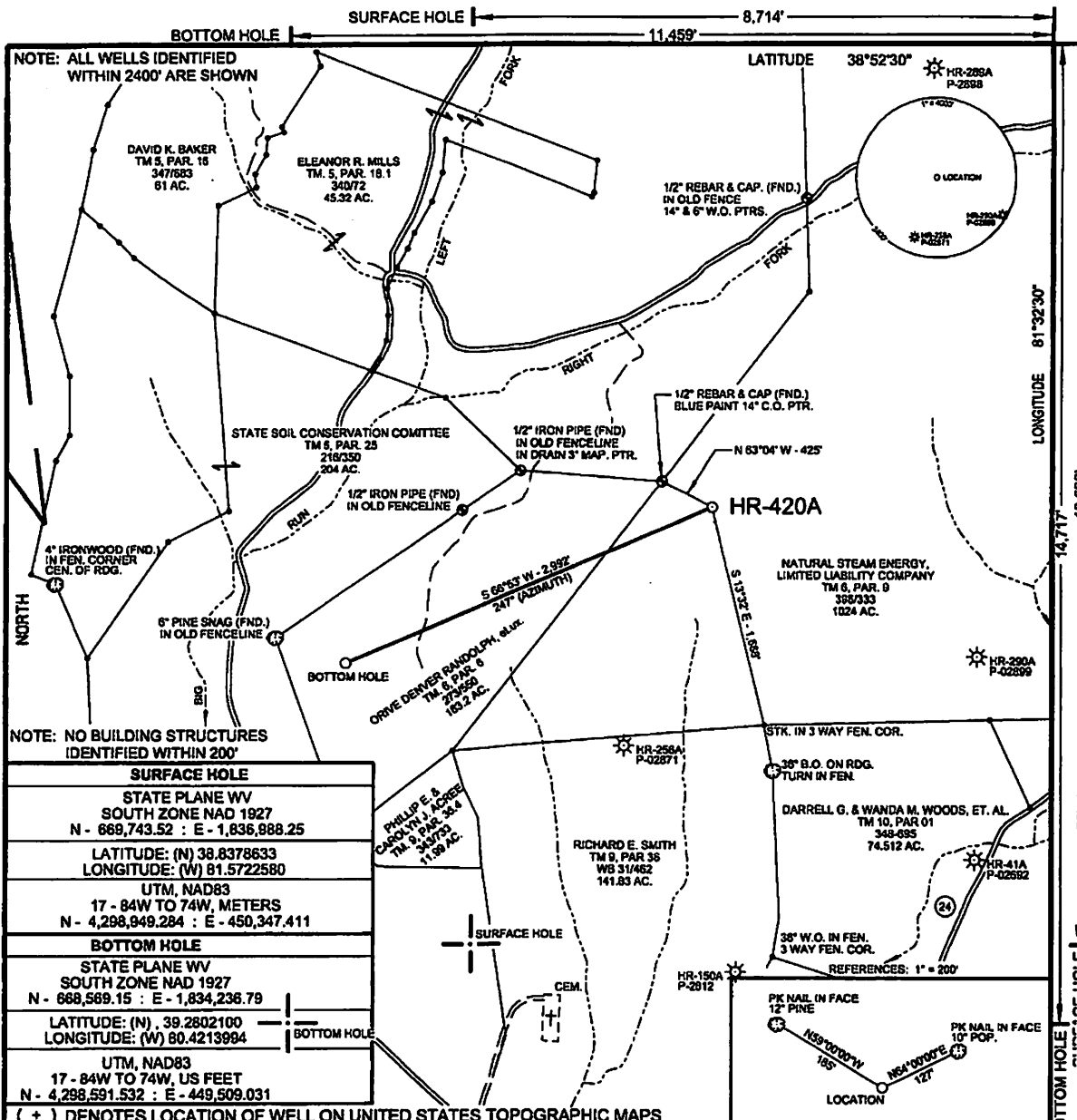
James Martin
Chief

Operator: HARD ROCK EXPLORATION, INC.
Operator's Well No: HR-420
Farm Name: NATURAL STEAM ENERGY, LLC
API Well Number: 47-3502987
Date Issued: 09/02/2010

Date Cancelled: 03/01/2016

Promoting a healthy environment.

03/11/2016



SURFACE HOLE	
STATE PLANE WV SOUTH ZONE NAD 1927 N - 689,743.52 : E - 1,836,988.25	
LATITUDE: (N) 38.8378633 LONGITUDE: (W) 81.5722580	
UTM, NAD83 17 - 84W TO 74W, METERS N - 4,298,949.284 : E - 450,347.411	
BOTTOM HOLE	
STATE PLANE WV SOUTH ZONE NAD 1927 N - 688,569.15 : E - 1,834,236.79	
LATITUDE: (N) .39.2802100 LONGITUDE: (W) 80.4213994	
UTM, NAD83 17 - 84W TO 74W, US FEET N - 4,298,591.532 : E - 449,509.031	

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS

FILE NO. HR-420A.DGN

DRAWING NO. HR-420A

SCALE 1" = 1000'

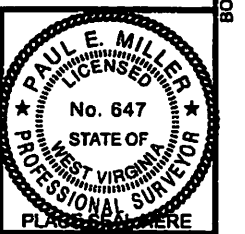
MINIMUM DEGREE OF ACCURACY 1 : 200

PROVEN SOURCE OF ELEVATION MAPPING GRADE GPS

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 ENVIRONMENTAL PROTECTION.

(SIGNED) Paul E. Miller

R.P.E. _____ L.L.S. 647



STATE OF WEST VIRGINIA
DIVISION OF ENVIRONMENTAL PROTECTION
OIL AND GAS DIVISION

DATE MAY 24, 20 10

OPERATOR'S WELL NO. HR-420A

API WELL NO. 47 035 02987H

WELL TYPE: OIL GAS X LIQUID INJECTION WASTE DISPOSAL
(IF "GAS,") PRODUCTION X STORAGE DEEP SHALLOW X

LOCATION: ELEVATION 975 WATER SHED RIGHT FORK OF BIG RUN

DISTRICT WASHINGTON COUNTY JACKSON

QUADRANGLE GAY, WV 7.5'

SURFACE OWNER NATURAL STEAM ENERGY, LIMITED LIABILITY COMPANY ACREAGE 1,024

OIL & GAS ROYALTY OWNER Natural Steam Energy, LLC, et al. LEASE ACREAGE 2,048

LEASE NO. _____

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 DEVONIAN SHALE ESTIMATED DEPTH _____

WELL OPERATOR HARD ROCK EXPLORATION, INC. DESIGNATED AGENT JAMES L. STEPHENS

ADDRESS 2034 MARTINS BR. RD., CHARLESTON, WV 25312 ADDRESS SAME

FORM WV-6

COUNTY NAME

PERMIT

03/11/2016

INSPECTORS PERMIT SUMMARY FORM

GPS YES [] NO []

DATE STARTED/LOCATION: Never Drilled OPERATOR: HARD ROCK EXPLORATION, INC.
 DRILLING COMMENCED: _____ FARM: NATURAL STEAM ENERGY, LLC
 TO DATE: _____ DEPTHS: _____ Well No: HR-420
 WATER DEPTHS: _____ COAL DEPTHS _____

QUESTIONS FOR THIS REPORT ARE IN ACCORDANCE OF WV CODE 22-6-30 AND REGULATIONS 35CSR 4-12.1 AND 35CSR 4-16 AND THE GENERAL WATER POLLUTION CONTROL PERMIT.

POINTS ARE TO BE GIVEN UP TO MAXIMUM AS SHOWN BASED ON PERFORMANCE.

1. DID OPERATOR GIVE PROPER NOTICE TO INSPECTOR BEFORE THE FOLLOWING:
 - A. CONSTRUCTION YES [] NO [] (2_PTS) (4_PTS) _____
 - B. DRILLING YES [] NO [] (2_PTS)
2. WAS THE TIMBER CUT, STACKED, AND BRUSH USED FOR SEDIMENT BARRIERS BEFORE DIRT WORK STARTED? YES [] NO [] (2_PTS) (4_PTS) _____
3. ARE ALL LOCATION AND/OR ROAD BANKS BEING SLOPED? YES [] NO [] (4_PTS) (4_PTS) _____
4. CONSTRUCTIONS:
WERE THE FOLLOWING SEDIMENT CONTROL STRUCTURES PROPERLY INSTALLED/MAINTAINED?
 - A. ROAD DITCHES (1)_ (2)_ (3)_ (4)_ (PTS) B. CROSS DRAINS (1)_ (2)_ (3)_ (4)_ (5)_ (PTS)
 - C. CULVERTS (1)_ (2)_ (3)_ (4)_ (5)_ (PTS) D. CREEK CROSSINGS (1)_ (2)_ (3)_ (PTS)
 - E. DIVERSION DITCHES (1)_ (2)_ (3)_ (PTS) F. BARRIERS (1)_ (2)_ (3)_ (PTS)
 - G. TEMPORARY SEEDING YES [] NO [] (10_PTS)

POINTS AVAILABLE FOR QUESTION 4: (33_PTS) _____

5. HAS TOP SOIL (IF ANY) BEEN STOCKED PILED? YES [] NO [] (2_PTS) (2_PTS) _____
6. IS THE PIT PROPERLY INSTALLED AND MAINTAINED? YES [] NO [] (9_PTS) (9_PTS) _____
7. RECLAMATION:
 - A. ROADWAY (1)_ (2)_ (3)_ (PTS) B. LOCATION (1)_ (2)_ (3)_ (PTS)
 - C. PITS (1)_ (2)_ (3)_ (PTS) D. PIPELINES (1)_ (2)_ (3)_ (PTS)
 - E. TANK DIKES (1)_ (2)_ (3)_ (PTS) F. API INSTALLED YES [] NO [] (3_PTS)
 - G. ADEQUATE SEEDING MATERIALS (1)_ (2)_ (3)_ (PTS)
 - H. WAS SEED BED ADEQUATE (1)_ (2)_ (3)_ (PTS)

POINTS AVAILABLE FOR QUESTION 7: (24_PTS) _____

8. WAS RECLAMATION COMPLETED WITHIN:
6 MTHS OF TD 6_PTS ONLY; 4 MTHS OF TD 12_PTS ONLY; 2 MTHS OF TD 19_PTS ONLY;

POINTS AVAILABLE FOR QUESTION 8: (19_PTS) _____

TOTAL MAXIMUM POSSIBLE SCORE OF 99.

TOTAL RECLAMATION SCORE: _____

3/1/2016
DATE RELEASED CANCELLED

Jacqueline Thornton
INSPECTOR'S SIGNATURE