

7-12-85

CODE CARD PLAT

6610'

LATITUDE 39°25'00"

LONGITUDE 81°00'00"

4,030'

NORTH

ROBERT H. MAY  
48 Ac.

JEROME M. REA  
20 Ac.

RODNEY W. CAMPBELL  
16 Ac.

Clayton & Janice Cunningham  
105 Ac.  
D.BK. 115 - Pg. 33

South East  
680'

Fence Post (FOUND)

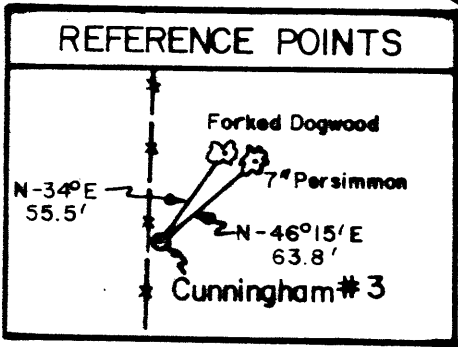
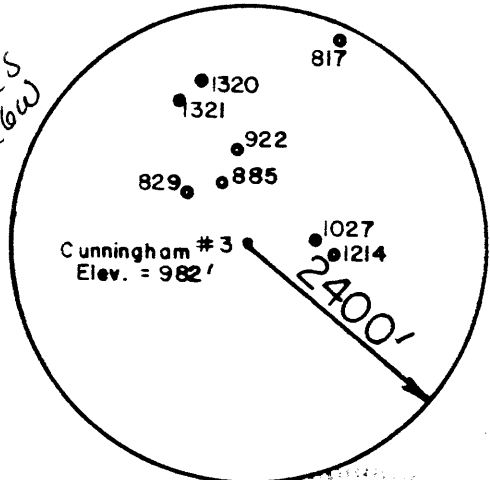
S 21-16 E 697.5'  
S 74°05' E 780.5'  
S 48°47' E 661.5'

Concrete Monument (FOUND)

#3  
Cunningham  
Elev. = 982'

WITH COUNTY ROAD  
1800'

Barn



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

FILE NO. \_\_\_\_\_  
 DRAWING NO. \_\_\_\_\_  
 SCALE 1" = 400'  
 MINIMUM DEGREE OF ACCURACY 1:200  
 PROVEN SOURCE OF ELEVATION 947'  
 ROAD INTERSECTION \_\_\_\_\_

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) Paul K. Marshall  
 R.P.E. \_\_\_\_\_ L.L.S. 580

PLACE SEAL HERE

STATE OF WEST VIRGINIA  
 DEPARTMENT OF MINES  
 OIL AND GAS DIVISION



DATE JULY 21, 19 84  
 OPERATOR'S WELL NO. CUNNINGHAM # 3  
 API WELL NO. \_\_\_\_\_

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

LOCATION: ELEVATION 982' WATERSHED MC KIM CREEK  
 DISTRICT LAFAYETTE 3 COUNTY PLEASANTS

QUADRANGLE BENS RUN 24 (7.5') 116 EC St. Marys  
 SURFACE OWNER CLAYTON CUNNINGHAM ACREAGE 105  
 OIL & GAS ROYALTY OWNER CLAYTON CUNNINGHAM LEASE ACREAGE 105

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 SQUAW ESTIMATED DEPTH 2200'

WELL OPERATOR HAUGHT INC. 373 DESIGNATED AGENT WARREN HAUGHT  
 ADDRESS 4424 EMERSON AVE. ADDRESS ROUTE 3 BOX 14  
PARKERSBURG, W.V. 26104 SMITHVILLE, W.V. 26178

AUG 19 1985

COUNTY NAME PERMIT

RECEIVED  
DEPARTMENT OF ENERGY  
OIL AND GAS



Date 01-20-86  
Operator's \_\_\_\_\_  
Well No. Cunningham #3  
Farm Clayton Cunningham  
API No. 47-073-1963

JAN 23 1986

State of West Virginia  
DEPARTMENT OF ENERGY  
Oil and Gas Division

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

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

LOCATION: Elevation: 982 Watershed McKim Creek  
District: Lafayette County Pleasants Quadrangle Bens Run 7.5 min

COMPANY Haught, Inc.

ADDRESS 4424 Emerson Ave., Parkersburg, W 26101

DESIGNATED AGENT Warren R. Haught

ADDRESS Rt. 3, Box 14, Smithville, W 26178

SURFACE OWNER Clayton Cunningham

ADDRESS Rt. 1, Hebron, W

MINERAL RIGHTS OWNER Same

ADDRESS \_\_\_\_\_

OIL AND GAS INSPECTOR FOR THIS WORK Robert

Lowther ADDRESS Gen. Del., Middlebourne, W

PERMIT ISSUED August 12-85

DRILLING COMMENCED August 14, 1985

DRILLING COMPLETED August 16, 1985

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 Cond.			
13-10"			
9 5/8			
8 5/8	379	379	72 sks.
7			
5 1/2			
4 1/2	1201	1202	200 sks
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Squaw Depth 2200 feet

Depth of completed well 1225 feet Rotary X / Cable Tools \_\_\_\_\_

Water strata depth: Fresh N/A feet; Salt N/A feet

Coal seam depths: None Is coal being mined in the area? No

OPEN FLOW DATA

Producing formation Cow Run Pay zone depth 992 feet

Gas: Initial open flow N/A Mcf/d Oil: Initial open flow 1 Bbl/d

Final open flow N/A Mcf/d Final open flow 1 Bbl/d

Time of open flow between initial and final tests 24 hours

Static rock pressure 22 psig (surface measurement) after 24 hours shut in

(If applicable due to multiple completion--)

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

(Continue on reverse side) JAN 27 1986

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

60 bbl. H<sub>2</sub>O  
 100,000 scf nitrogen  
 40T. 2040 sand  
 500 gal. 15% NCL

Perforated with 20 holes between 992' - 1018'

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, gray, med.			0	45	
R.R., red, soft			45	52	
Sand, gray, hard			52	72	
R.R., red, soft			72	86	
Shale, gray, soft			86	120	
Sand, gray, hard			120	145	
Shale, gray, soft			145	150	
R.R., red, soft			150	167	
Sand, Shale, gray, med.			167	217	
Sand, gray, hard			217	225	
Shale, gray, soft			225	235	
R.R., red, soft			235	250	
Shale, gray, soft			250	275	
R.R., red, soft			275	294	
Sand, gray, hard			294	299	
R.R., red, soft			299	309	
Shale, gray, med.			309	316	
R.R., red, soft			316	327	
Shale, gray, soft			327	345	
R.R., red, soft			345	359	
Shale, gray, soft			359	366	
R.R. red, soft			366	380	
Shale, gray, med.			380	405	
sand, gray, hard			405	410	
Shale, gray, med.			410	455	
R.R., Shale, red, gray, soft			455	472	
Sand, gray, hard			472	505	
R.R., red, soft			505	532	
Shale, gray, soft			532	564	
R.R., red, soft			564	568	
Sale, gray, soft			568	665	
Sand, gray, hard			665	675	
Shale, gray, soft			675	760	
Sand, gray, med.			760	791	
Shale, gray, med.			791	821	
Sand, gray hard			821	858	
Shale, gray, soft			858	868	
R.R., red, soft			868	877	
Shale, gray, soft			877	910	

(Attach separate sheets as necessary)

Dominic Petroleum, Inc

Well Operator

By: [Signature]

Date: 1-20-86

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."

## WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	Remarks
Sand, gray, hard			910	923	
Shale, gray, soft			923	952	
Sand, shale, gray, med.			952	969	
Shale, gray, soft			969	992	
<u>Cow Run</u> Sands			992	1018	Oil
Shale, gray, soft			1018	1056	
R.R., red, soft			1056	1072	
Shale, gray, soft			1072	1141	
Slate, gray, soft			1141	1147	
Shale, gray, med.			1147	1163	
Shale, gray, soft			1163	1179	
Sand, gray, hard			1179	1196	
Shale, Gray, soft			1196	<u>1225</u>	

JAN 27 1986

FORM WV 7/85 (Obverse) FILE COPY RECEIVED AUG 12, 1985



1) Date: August 8, 1985  
 2) Operator's Well No. Cunningham #3  
 3) API Well No. 47 -073-1963  
 State County Permit

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

- 4) WELL TYPE: A Oil XX / Gas XX  
 B (If "Gas", Production XX / Underground storage \_\_\_\_\_ / Deep \_\_\_\_\_ / Shallow XX)
- 5) LOCATION: Elevation: 982 Watershed: KK McKim Creek  
 District: Lafayette County: Pleasants Quadrangle: Bens Run
- 6) WELL OPERATOR Haight, Inc. CODE: 21500 7) DESIGNATED AGENT Warren R. Haight  
 Address 4424 Emerson Ave. Address Rt. 3 Box 14  
Parkersburg, WV 26104 Smithville, WV 26178
- 8) OIL & GAS INSPECTOR TO BE NOTIFIED Name Robert Lowther  
 Address General Delivery  
Middlebourne, WV X
- 9) DRILLING CONTRACTOR: Name Haight, Inc.  
 Address 4424 Emerson Ave.  
Parkersburg, WV 26104
- 10) PROPOSED WELL WORK: Drill XX / Drill deeper \_\_\_\_\_ / Redrill \_\_\_\_\_ / Stimulate XX  
 Plug off old formation \_\_\_\_\_ / Perforate new formation \_\_\_\_\_  
 Other physical change in well (specify) \_\_\_\_\_
- 11) GEOLOGICAL TARGET FORMATION, Squaw (383)
- 12) Estimated depth of completed well, 2500 feet
- 13) Approximate trata depths: Fresh, N/A feet; salt, N/A feet.
- 14) Approximate coal seam depths: N/A Is coal being mined in the area? Yes \_\_\_\_\_ / No XX

15) CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS						FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS	
	Size	Grade	Weight per ft.	New	Used	For drilling	Left in well	Kinds		Sizes	
Conductor											
Fresh water	8 5/8	K-55	20#	X		980	980	To Surface		by rule 15.05	
Coal											
Intermediate											
Production	4 1/2	J-55	10 1/2#	X		2500	2500	500 ft.		was required by rule 15.05	
Tubing											
Liners											

OFFICE USE ONLY  
 DRILLING PERMIT

Permit number 47-073-1963 Date August 12 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 August 12, 1987 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond: <input checked="" type="checkbox"/>	Agent: <u>A-B</u>	Plat: <u>MU</u>	Casing: <u>MU</u>	Fee: <u>1105</u>	WPCP: <input checked="" type="checkbox"/>	S&E: <input checked="" type="checkbox"/>	Other: <input type="checkbox"/>
---	-------------------	-----------------	-------------------	------------------	---	--	---------------------------------

[Signature]  
 Director, Division 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.