



(+) 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 #4
 API WELL NO. _____

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

LOCATION: ELEVATION 993' WATER SHED MCKIM CREEK
 DISTRICT LAFAYETTE 3 COUNTY PLEASANTS
 QUADRANGLE BENS RUN 241 (7.5') ST. MARYS 116 EC. 6

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. PARKERSBURG, W.VA. 26104 ADDRESS ROUTE 3 BOX 14 SMITHVILLE, W.VA. 26178

AUG 13 1984

FORM IV-6 (8-78)

COUNTY NAME PERMIT



IV-35
(Rev 8-81)

JAN 23 1986

State of West Virginia

Department of Mines
Oil and Gas Division

Date 01-20-86

Operator's

Well No. Cunningham #4

Farm Clayton Cunningham

API No. 47 - 073 - 1867

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: 893 Watershed McKim Creek
District: Lafayette County Pleasants Quadrangle Bens Run 7.5 min

COMPANY Haight, Inc.

ADDRESS 4424 Emerson Ave., Parkersburg, WV 26101

DESIGNATED AGENT Warren R. Haight

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

SURFACE OWNER Clayton Cunningham

ADDRESS Rt. 1, Hebron, WV

MINERAL RIGHTS OWNER Same

ADDRESS

OIL AND GAS INSPECTOR FOR THIS WORK Robert

Lowther ADDRESS Gen. Del., Middlebourne, WV

PERMIT ISSUED August 10, 1984

DRILLING COMMENCED August 20, 1984

DRILLING COMPLETED August 22, 1984

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	796.25	796.25	143 sks.
7			
5 1/2			
4 1/2			
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Squaw Depth 2200 feet

Depth of completed well 1075 feet Rotary X / Cable Tools

Water strata depth: Fresh 41 feet; Salt N/A feet

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

OPEN FLOW DATA

Producing formation Cow Run Sands Pay zone depth 898-917 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 26 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

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

No physical change

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
R.R., red, soft			0	25	Water 41'
Slate, gray, soft			25	44	
R.R., red, soft			44	74	
Sand, gray, med.			74	99	
R.R., red, soft			99	113	
Sand, Slate, gray, med. & soft			113	165	
R.R., red, soft			165	171	
Slate, gray, soft			171	192	
Sand, gray, med.			192	200	
R.R., red, soft			200	217	
Slate, gray, soft			217	245	
R.R., Red, soft			245	296	
Sand, gray, med.			296	315	
R.R., Red, soft			315	328	
Slate, gray, soft			328	359	
Sand, gray, hard			359	385	
R.R., Slate, gray, red, soft			385	392	
Sand, gray, hard			392	410	
Lime, gray, hard			410	420	
Slate, gray, soft			420	430	
R.R., red, soft			430	455	
Sand, gray, med.			455	494	
R.R., red, soft			494	503	
Sand, gray, med.			503	558	
Lime, gray, hard			558	580	
R.R., Slate, red, gray, soft			580	590	
Sand, gray, med.			590	621	
Slate, gray, soft			621	635	
Sand, gray, med.			635	659	
Lime, gray, hard			659	669	
Slate, gray, soft			669	685	
Sand, gray, hard			685	690	
Slate, gray, soft			690	720	
Sand, gray, med.			720	747	
Slate, gray, soft			747	759	
Sand, Slate, gray, soft			759	780	
Slate, gray, soft			780	795	
Sand, gray, med.			795	822	

(Attach separate sheets as necessary)

Dominic Petroleum, Inc.

Well Operator

By: 

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

WELL LOG

Pg 2, 073 1867

FORMATION COLOR HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
Slate, gray, soft	822	845	
Slate, black, soft	845	860	
Slate, gray, soft	860	898	Oil
Sand, gray, soft	898	917	Oil
Cow Run Sands	917	946	
R.R., red, soft	946	954	
Sand, gray, med.	954	965	
Slate, R.R., gray, red, soft	965	975	
Slate, gray, soft	975	<u>1075</u>	

JAN 27 1986

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 AUG 10 1984



1) Date: August 7, 19 84
 2) Operator's Well No. Cunningham #4
 3) API Well No. 47 073 1867
 State County Permit

**OIL & GAS DIVISION
 DEPT. OF MINES**

**STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES, 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: 993 / Watershed: Mckim Creek (COMI4)
 District: LaFayette / County: Pleasants / Quadrangle: M Ben's Run 7.5min
- 6) WELL OPERATOR Haught, Inc. / 7) DESIGNATED AGENT Warren R. Haught
 Address 4424 Emerson Ave. / Address Rt. 3 Box 14
Parkersburg, WV 26104 / Smithville, WV 26178
- 8) OIL & GAS INSPECTOR TO BE NOTIFIED / 9) DRILLING CONTRACTOR:
 Name Robert Lowther / Name Haught, Inc.
 Address General Delivery / Address 4424 Emerson Ave.
Middlebourne, WV 26149 / 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
- 12) Estimated depth of completed well, 2200 feet
- 13) Approximate strata depths: Fresh, N/A feet; salt, N/A feet.
- 14) Approximate coal seam depths: None 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		
Conductor									Kinds
Fresh water	8 5/8	K-55	20#	XX		1093	1093	Cement to surf	by rule 15.05
Coal									Sizes
Intermediate									
Production	4 1/2	J-55	10 1/2#	XX			2200	500 feet	Depths set
Tubing									as required by
Liners									perforations: rule 15.01
									Top Bottom

**OFFICE USE ONLY
 DRILLING PERMIT**

Permit number 47-073-1867 / Date August 10 1984

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 10, 1986 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond: <u>74</u>	Agent: <u>✓</u>	Plat: <u> </u>	Casing: <u> </u>	Fee: <u>515</u>
<u>Blanket</u>	<u>MH</u>	<u>MH</u>	<u>MH</u>	

Margaret J. Hass
 Administrator, Office of Oil and Gas