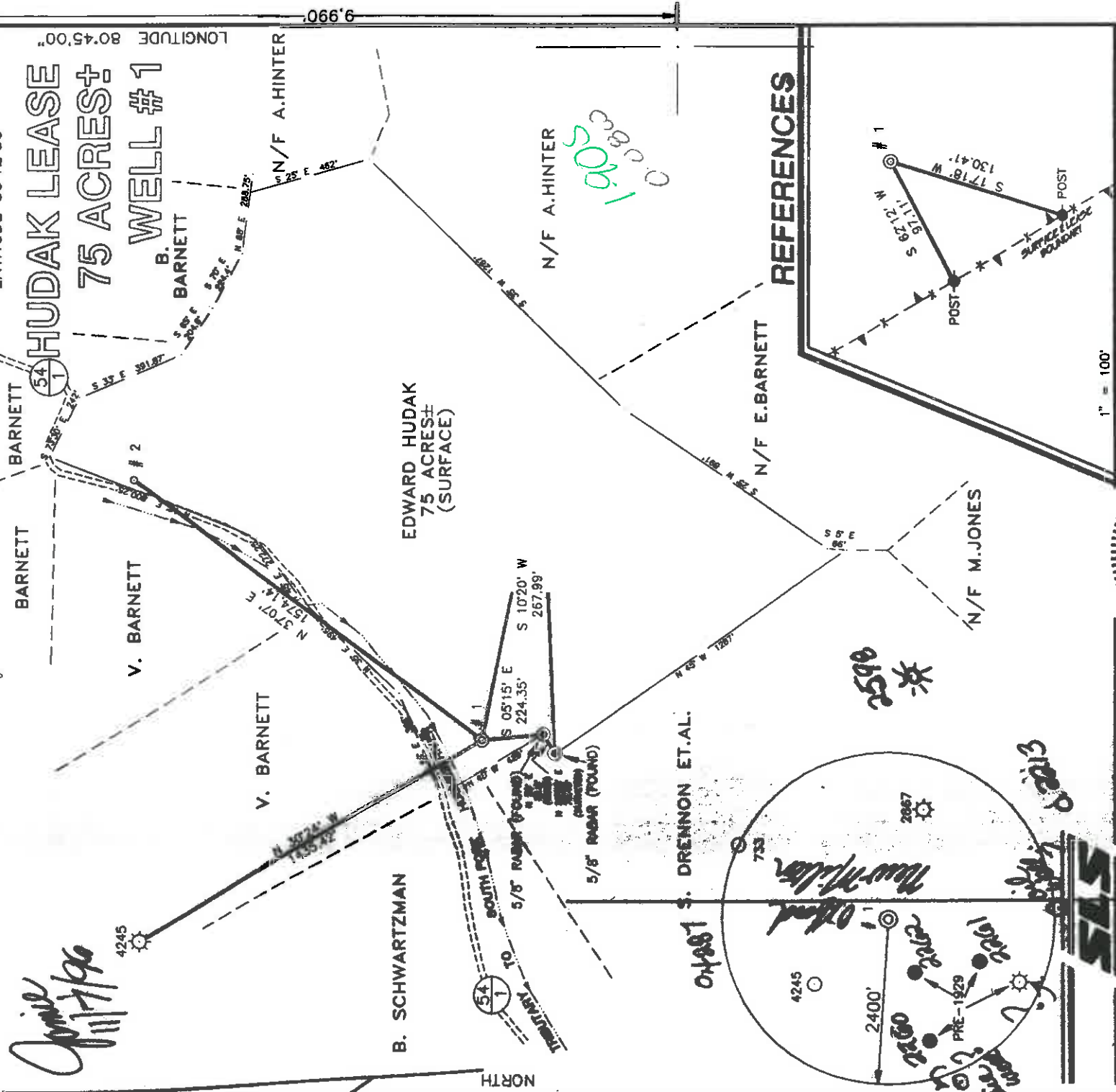
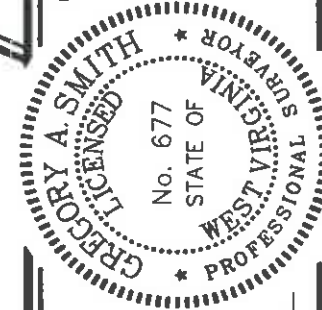
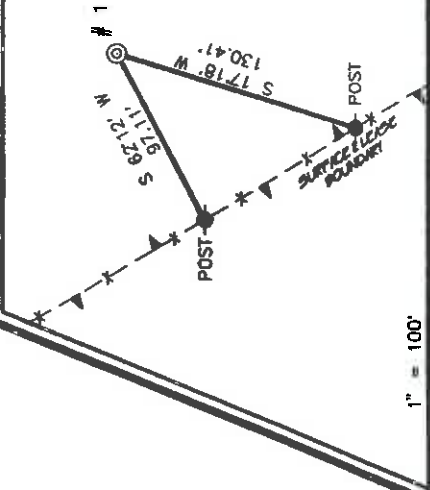


LATITUDE 39°12'30" LONGITUDE 80°45'00"



REFERENCES



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 ENERGY.

P.S. *Gregory A. Smith*
677

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.
DATE OCTOBER 25, 19 96
OPERATORS WELL NO. HUDAK # 1
API WELL NO. 47-017-04319 STATE WV COUNTY OXFORD PERMIT 4995

MINIMUM DEGREE OF ACCURACY 1 / 200 FILE NO. 3609P1 (58-53)

PROVEN SOURCE OF ELEVATION JUNCTION OF ROADS ELEVATION 1003' SCALE 1" = 500'

WELL TYPE : OIL GAS INJECTION WASTE DISPOSAL "GAS" PRODUCTION STORAGE DEEP SHALLOW

LOCATION : ELEVATION 989' WATERSHED SOUTH FORK HUGHES RIVER

DISTRICT SOUTHWEST COUNTY DODDRIDGE QUADRANGLE OXFORD 7.5'

SURFACE OWNER EDWARD HUDAK ACREAGE 75

ROYALTY OWNER EDWARD HUDAK ET.AL. LEASE ACREAGE 75

PROPOSED WORK : LEASE NO. _____

DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE PLUG OFF 4995

FORMATION PERFORATE NEW FORMATION PLUG AND ABANDON CLEAN OUT AND REPLUG NOV 8 1996 OTHER _____

PHYSICAL CHANGE IN WELL (SPECIFY) _____ TARGET FORMATION DEVONIAN SHALE

ESTIMATED DEPTH 5900'

WELL OPERATOR KEY OIL COMPANY DESIGNATED AGENT JAN CHAPMAN

ADDRESS 22 GARTON PLAZA WESTON, WV 26452 ADDRESS 22 GARTON PLAZA WESTON, WV 26452



STATE OF WEST VIRGINIA
DEPARTMENT OF ENERGY
OIL AND GAS DIVISION

COUNTY NAME _____ PERMIT _____

State of West Virginia
Division of Environmental Protection
Section of Oil and Gas

Well Operator's Report of Well Work

RECEIVED

Farm name: HUDAK, ED Operator Well No. : HUDAK #1

LOCATION: Elevation: 989.00

Quadrangle: OXFORD

District: SOUTHWEST
Latitude: 9990 Feet South of 39 Deg. 12 Min. 30 Sec.
Longitude: 330 Feet West of 80 Deg. 45 Min. 0 Sec.

County: DODDRIDGE

Permitting
Office of Oil & Gas

Company: KEY OIL COMPANY
22 Garton Plaza
WESTON, WV 26452-0000

Agent: JAN E. CHAPMAN

Inspector: MIKE UNDERWOOD
Permit Issued: 11/07/96
Well Work Commenced: 12/5/96
Well Work Completed: 12/17/96

Verbal Plugging
Permission granted on: _____
Rotary X Cable _____ Rig
Total Depth (feet) 5495'
Fresh water depths (ft) None
Salt water depths (ft) 662', 1729'

Is coal being mined in area (Y / N)? N

Coal Depths (ft) : None Reported

OPEN FLOW DATA


Warren
Speechley
Balltown
Riley
Benson
Alexander
3190' - 3246'
3258' - 3482'
3512' - 4300'
4364' - 4448'
4840' - 4853'

Producing formation Alexander Pay zone depth (ft) 5088' - 5211'
Gas: Initial open flow 60 MCF / d Oil: Initial open flow 0 Bbl / d
Final open flow 1,492 MCF / d Oil: Final open flow show Bbl / d
Time of open flow between initial and final tests N/A Hours
Static rock pressure 1600 psig (surface pressure) after 96 Hours

Second producing formation Commingled Pay zone depth (ft) _____
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 pressure) after _____ Hours

NOTE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE.

For: KEY OIL COMPANY

By: 
Date: 4-22-97

PRESIDENT

MAY 23 1997

Casing & Tubing Size	Used in Drilling	Left In Well	Cement Fill Up Cu. Ft.
11 3/4"	123	123	70 sks To Surface
8 5/8"	1505.5	1505.5	440 sks To Surface
4 1/2"	5288	5288	460 sks
2 3/8"		5115	

Hudak #1 (47-017-04319)
Four Stage Foam Frac - Halliburton

1st Stage:	Alexander (11 holes) (5135.5' - 5184.5')	60 Quality Foam, 500 gal, 15% HCL, 60,000# 20/40 sand, 550,000 SCF N2, 810 bbis foam.
2nd Stage:	Benson (10 holes) (4837.5' - 4846')	60 Quality Foam, 750 gal 15% HCL, 40,000# 20/40 sand, 417,000 SCF N2, 615 bbis foam.
3rd Stage:	Riley (6 holes) (4416' - 4417.25') Balltown (4 holes) (3976.75' - 3977.5')	60 Quality Foam, 1000 gal 15% HCL, 5,000# 80/100 sand, 35,000# 20/40 sand, 438,000 SCF N2, 645 bbis foam.
4th Stage:	Speechley (10 holes) (3264' - 3351') Warren (2 holes) (3234.25' - 3234.5')	60 Quality Foam, 750 gal 15% HCL, 5,000# 80/100 sand, 35,000# 20/40 sand, 390,000 SCF N2, 589 bbis foam.

WELL LOG

Mud	0	18	
Sand & Shale	18	150	
Red Rock	150	158	
Sand & Shale & Red Rock	158	215	
Sand	215	249	
Sand & Red Rock & Shale	249	626	
Lime	626	643	
Red Rock & Shale & Sand	643	834	Damp @ 662'
Lime	834	842	
Sand & Shale & Red Rock	842	1330	
Write Sand	1330	1417	
Sand & Shale	1417	1579	
Sand & Shale	1579	1735	
Sand & Shale	1735	1825	
Little Lime	1825	1849	
Big Lime	1849	1928	
Big Injun	1928	2010	
Shale	2010	2140	
Weir	2140	2244	
Shale	2244	2344	
Berea	2344	2354	
Sand & Shale	2354	2549	
Gordon	2549	2578	
Shale	2578	3190	
Warren	3190	3246	
Shale	3246	3258	
Speechley	3258	3482	
Shale	3482	3512	
Balltown	3512	4300	
Shale	4300	4364	
Riley	4364	4448	
Shale	4448	4716	
3rd Riley	4716	4774	
Shale	4774	4840	
Benson	4840	4853	
Shale	4853	5088	
Alexander	5088	5211	
Shale	5211	5495	
T.D.	5495		

1/2 H²O @ 1729'

Gas Checks

2501 No Show
3027 6/10ths 1" w/H²O
3463 10/10ths 1" w/H²O
4017 20/10ths 2" w/H²O
4511 18/10ths 2" w/H²O
4913 20/10ths 2" w/H²O
TD 2/10ths 2" w/H²O
Collars 2/10ths 2" w/H²O

STATE OF WEST VIRGINIA
 DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
 WELL WORK PERMIT APPLICATION

Well Operator: KEY OIL COMPANY ⁴⁷⁵ 25658 D 526
 Operator's Well Number: HUDAK #1 3) Elevation: 989'

Well type: (a) Oil X / or Gas X / Issued 11/07/96
 (b) If Gas: Production X / Underground Storage / Expires 11/07/98
 Deep / Shallow X /

Proposed Target Formation(s): ALEXANDER ⁴³⁹
 Proposed Total Depth: 5500 feet
 7) Approximate fresh water strata depths: 75'
 8) Approximate salt water depths: 1349'
 9) Approximate coal seam depths: N/A
 10) Does land contain coal seams tributary to active mine? Yes / No X /
 11) Proposed Well Work: DRILL, STIMULATE, PRODUCE Paul Miller
 12)

CASING AND TUBING PROGRAM

TYPE	SIZE	GRADE	WEIGHT PER FT.	FOOTAGE	LEFT IN WELL	FILL-UP (cu. ft.)
Conductor						
Fresh Water	11 3/4	ERW	42	132	132	70 SKS. TO SURFACE <u>39CSB/11/3</u>
Coal						
Intermediate	8 5/8	ERW	23	1500	1500	405 SKS. TO SURFACE
Production	4 1/2	J-55	10.5	5400	5400	500 SKS. <u>39CSB/11/1</u>
Tubing	1.5					
Liners						

PACKERS : Kind _____
 Sizes _____
 Depths set _____

5/13/98
 Fee(s) Paid: Well Work Permit Reclamation Fund WPCP
 Plat WW-9 Bond (Type) Agent

1) Date: NOVEMBER 1, 1996
2) Operator's well number HUDAK #1
3) API Well No: 47 - 017 - 4319
State County Permit

STATE OF WEST VIRGINIA - BUREAU OF ENVIRONMENT
DIVISION OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS

NOTICE AND APPLICATION FOR A WELL WORK PERMIT

- 4) Surface Owner(s) to be served: 5) (a) Coal Operator:
 (a) Name ED HUDAK Name NONE
 Address P. O. BOX 338 Address _____
WEST UNION, WV 26456
 (b) Name _____ (b) Coal Owner(s) with Declaration
 Address _____ Name _____
 Address _____
 (c) Name _____ Name _____
 Address _____ Address _____
- 6) Inspector MIKE UNDERWOOD (c) Coal Lessee with Declaration
 Address RT. 2 BOX 135 Name _____
SALEM, WV 26426 Address _____
 Telephone (304) - 782-1043

TO THE PERSON(S) NAMED ABOVE TAKE NOTICE THAT:

Included is the lease or leases or other continuing contract or contracts by which I hold the right to extract oil and gas OR Included is the information required by Chapter 22, Article 6, Section 8(d) of the Code of West Virginia (see page 2)

I certify that as required under Chapter 22 of the West Virginia Code I have served copies of this notice and application, a location plat, and accompanying documents pages 1 through ___ on the above named parties, by:

- Personal Service (Affidavit attached)
- Certified Mail (Postmarked postal receipt attached)
- Publication (Notice of Publication attached)

I have read and understand Chapter 22-6 and 38 CSR 11-18, and I agree to the terms and conditions of any permit issued under this application.

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete.

I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Well Operator KET OIL COMPANY
 BY: [Signature]
 I.S. PRESIDENT
 Address 22 GARTON PLAZA
WESTON, WV 26452
 Telephone 304-269-7102

Subscribed and sworn before me this 1ST day of NOVEMBER, 1996

My commission expires MARCH 24, 2003 [Signature] Notary Public