

LATITUDE 39°15'00"

LONGITUDE 80°50'00"

Neal Hughes

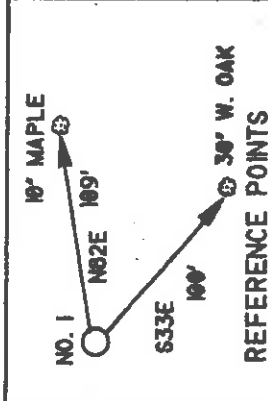
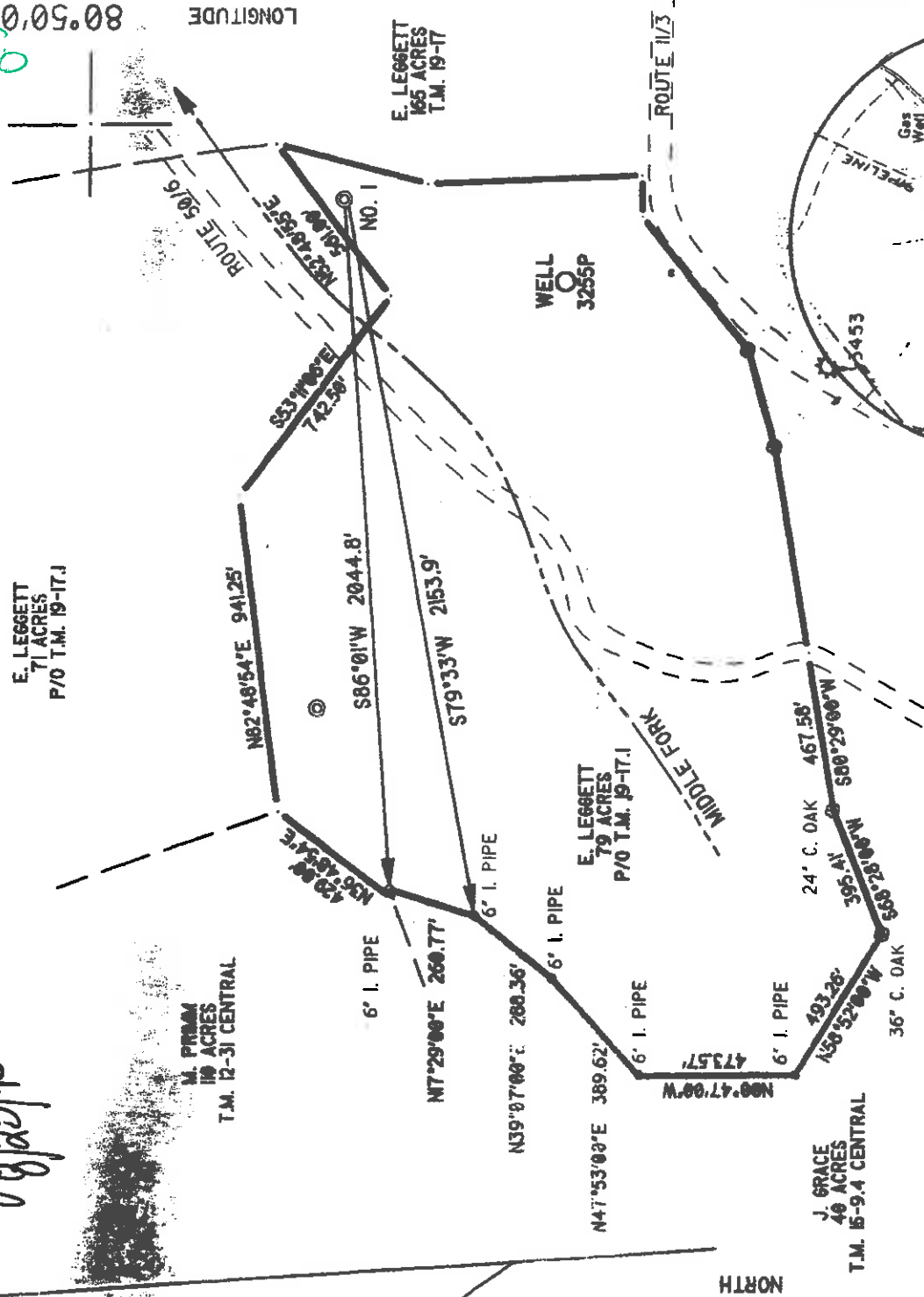
E. LEGGETT
71 ACRES
P/O T.M. 19-17.J

M. PRIMA
110 ACRES
T.M. 12-31 CENTRAL

E. LEGGETT
165 ACRES
T.M. 19-17

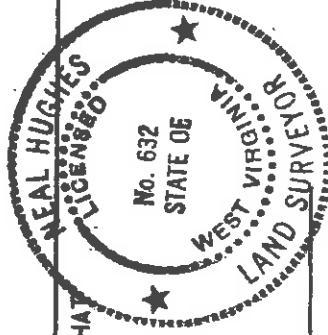
E. LEGGETT
79 ACRES
P/O T.M. 19-17.J

J. GRACE
46 ACRES
T.M. 15-9.4 CENTRAL



I THE UNDERSIGNED, DO 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.

L.L.S. *Neal Hughes*
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(*) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS

DATE JULY 28, 19 95
OPERATORS WELL NO. LEGGETT 1

API WELL NO. 47 -- 017 -- 04211
STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1/200 FILE NO. 95-74
PROVEN SOURCE OF ELEVATION WELL 3255P - 1118' SCALE 1" = 500'

STATE OF WEST VIRGINIA
DEPARTMENT OF ENERGY
OIL AND GAS DIVISION

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL IF 'GAS' PRODUCTION STORAGE DEEP SHALLOW
LOCATION: ELEVATION 1060' WATERSHED MIDDLE RUN
DISTRICT WEST UNION MAG. COUNTY DODDRIDGE QUADRANGLE OXFORD
SURFACE OWNER ERNEST ELWIN LEGGETT ACREAGE 79
ROYALTY OWNER HAYDEN HEIRS LEASE ACREAGE 79

PROPOSED WORK:
DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE PLUG OFF OLD FORMATION PERFORATE NEW FORMATION PLUG AND ABANDON CLEAN OUT AND REPLUG OTHER
PHYSICAL CHANGE IN WELL (SPECIFY) TARGET FORMATION ALEXANDER ESTIMATED DEPTH 5400' PERMIT 1172A

WELL OPERATOR KEY OIL CO. DESIGNATED AGENT JAN CHAPMAN
ADDRESS 22 GARTON PLAZA WESTON WV 26453 ADDRESS 22 GARTON PLAZA WESTON WV 26453

SEP 27 1995

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

API # 47- 17-04211
 23-AUG-95

Permitting
 Office of Oil & Gas

Well Operator's Report of Well Work

Farm name: LEGGETT, ELWIN E. Operator Well No.: LEGGETT #1

LOCATION: Elevation: 1,060.00 Quadrangle: OXFORD

District: WEST UNION County: DODDRIDGE
 Latitude: 2800 Feet South of 39 Deg. 15Min. 0 Sec.
 Longitude 1600 Feet West of 80 Deg. 50 Min. 0 Sec.

Company: KEY OIL COMPANY

22 GARTON PLAZA
 WESTON, WV 26452-0000

Agent: JAN E. CHAPMAN

Inspector: MIKE UNDERWOOD
 Permit Issued: 08/23/95
 Well work Commenced: 08/31/95
 Well work Completed: 09/06/95
 Verbal Plugging
 Permission granted on: Rig
 Rotary X Cable 5470'
 Total Depth (feet) 5470'
 Fresh water depths (ft) -0-

Salt water depths (ft) 764', 1900'

Is coal being mined in area (Y/N)? N
 Coal Depths (ft): NONE REPORTED

OPEN FLOW DATA

Upper Balltown
 Lower Balltown
 Riley

Producing formation Benson
 Gas: Initial open flow Alexander 21 MCF/d Oil: Initial open flow (ft) 4969-4973
 Final open flow 1,391 MCF/d Final open flow Show Bbl/d
 Time of open flow between initial and final tests N/A Hours
 Static rock pressure 1750 psig (surface pressure) after 96 Hours

Second producing formation
 Gas: Initial open flow MCF/d Oil: Initial open flow Bbl/d
 Final open flow MCF/d Final open flow Bbl/d
 Time of open flow between initial and final tests Hours
 Static rock pressure psig (surface pressure) after Hours

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
11 3/4"	132'	132'	70 sks. to surface
8 5/8"	1632'	1632'	435 sks. to surface
4 1/2"	5375'	5375'	475 sks.
1.5"	5238'	5238'	

3820-3826
 4156-4352
 4560-4584

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: *Jan Chapman* President
 Date: September 18, 1995

SEP 20 1995

Leggett #1 (47-017-4211) 5 Stage Foam Frac - Halliburton

1st. Stage: Alexander (12 holes) (5258.75'-5291')	60 Quality Foam, 750 gal. 15% HCl, 60,000 lbs. 20-40 sand, 550,000 SCF N ₂ , 810 bbls. foamed fluid.
2nd. Stage: Benson (10 holes) (4970'-4972.25')	75 Quality Foam, 750 gal. 15% HCl, 30,000 lbs. 20-40 sand, 423,000 SCF N ₂ , 520 bbls. foamed fluid.
3rd. Stage: Riley (8 holes) (4455.25'-4564.75')	60 Quality Foam, 750 gal. 15% HCl, 10,000 lbs. 80-100 sand, 30,000 lbs. 20-40 sand, 508,000 SCF N ₂ , 616 bbls. foamed fluid.
4th Stage: Lower Balltown (8 holes) (4159.50'-4349.75')	60 Quality Foam, 750 gal. 15% HCl, 10,000 lbs. 80-100 sand, 30,000 lbs. 20-40 sand, 508,000 SCF N ₂ , 606 bbls. foamed fluid.
5th Stage: Upper Balltown (14 holes) (3823.50'-3948')	60 Quality Foam, 750 gal. 15% HCl, 10,000 lbs. 80-100 sand, 40,000 lbs. 20-40 sand, 558,000 SCF N ₂ , 742 bbls. foamed fluid.

WELL LOG

FORMATION	TOP FEET	BOTTOM FEET	REMARKS
Fill	0	10	
Sand and shale	10	270	
Shale and Red Rock	270	888	1/4" stream H ₂ O at 764'
Sand and Shale	888	1510	Hole damp at 1900'
Salt Sand	1510	1590	
Shale	1590	1958	
Little Lime	1958	1977	
Pencil Cave	1977	1997	
Big Lime	1997	2064	1900' N/S
Big Injun	2064	2140	2050' N/S
Shale	2140	2300	2502' N/S
Weir Sand	2300	2420	2997'
Sand and Shale	2420	3390	2/10 thru 1" w/water
Warren	3390	3534	3525'
Speechley	3534	3542	4113'
Sand and Shale	3542	3820	4800'
Balltown Sands & Shale	3820	4352	5113'
Sand and Shale	4352	4560	5470'
Riley Sands & Shale	4560	4584	
Sand and Shale	4584	4959	4/10 thru 1" w/water
Benson	4959	4965	
Sand and Shale	4965	5240	
Alexander	5240	5292	
Shale	5292	5470	
T.D.	5470		

Gas Checks:

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

Well Operator: 475 Key Oil Company 25655 (E) 520
Operator's Well Number: Leggett #1 1060'
Elevation: 1060'

Well type: (a) OIL X / or Gas X /
(b) If Gas: Production X / Underground Storage /
Deep X / Shallow X /

Proposed Target Formation(s): Alexander
Proposed Total Depth: 5500 feet
Approximate fresh water strata depths: 80'
Approximate salt water depths: -0-
Approximate coal seam depths: None

Does land contain coal seams tributary to active mine? Yes / No X
Proposed Well Work: Drill, Stimulate, Produce
New Well

CASING AND TUBING PROGRAM

TYPE	SIZE	GRADE	WEIGHT PER FT.	FOOTAGE INTERVALS	FOOTAGE FOR DRILLING	LEFT IN WELL	FILL-UP (CU. FT.)
Conductor	16"	Used			20'	-0-	90K-Mu
Fresh Water	11 3/4"	ERW	32		132'	132'	70 SKS. to surface
Coal							<i>2000-10-12</i>
Intermediate	8 5/8"	ERW	23		1600'	1600'	435 SKS. to surface
Production	4 1/2"	J-55	10.50			5350'	400 SKS.
Tubing	1.5"						
Linings							

PACKERS: KIND _____ SIZES _____ DEPTHS SET _____

Fee(s) Paid: [Signature] Well Work Permit [Signature] Reclamation Fund [Signature]
Date: [Signature] State [Signature]

PROCESSED
Environmental Protection
Aug 23 1995

1) Date: August 14, 1995
2) Operator's well number Leggett #1
3) API Well No: 47 - 017 - 4211
State - County - Permit

Permitting
Office of Oil & Gas
STATE OF WEST VIRGINIA
DEPARTMENT OF ENERGY, DIVISION OF OIL AND GAS

NOTICE AND APPLICATION FOR A WELL WORK PERMIT

4) Surface Owner(s) to be served:

(a) Name Elwin E. Leggett
Address Rt. 1 Box 227
West Union, WV 26456

(b) Name _____
Address _____

(c) Name _____
Address _____

(a) Name None
Address _____

(b) Coal Owner(s) with Declaration
Name _____
Address _____

Name _____
Address _____

(c) Coal Lessee with Declaration
Name _____
Address _____

6) Inspector Mike Underwood
Address Rt. 2 Box 135
Sallem, WV 26426
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 22B, Article 1, section 8(d) of the Code of West Virginia (see page 2)

I certify that as required under Chapter 22B 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 22B 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 Key Oil Company
By: [Signature]
Its: President
Address 22 Garton Plaza
Weston, WV 26452
Telephone 304-269-7102

subscribed and sworn before me this 14th day of August, 1995

My commission expires March 24, 2003

[Signature]
Karen Cook

OFFICIAL SEAL NOTARY PUBLIC
KAREN COOK
ROUTE 2, BOX 1
JANE TOWN, WV 26078

My Commission Expires April 24, 2003