

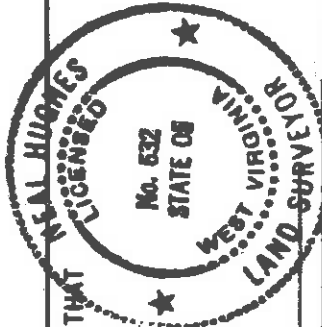
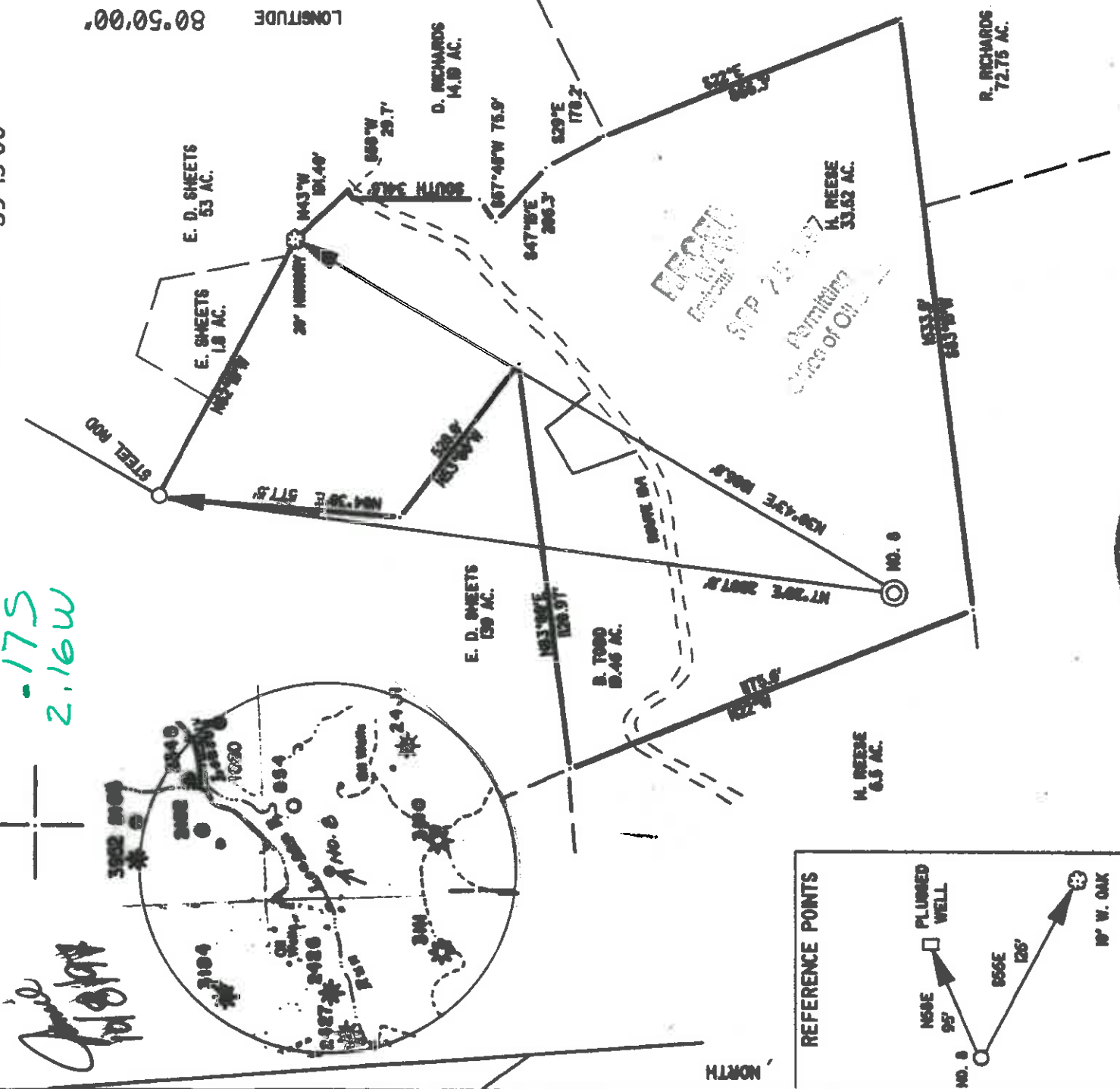
11,400'

LATITUDE 39°15'00"

LONGITUDE 80°50'00"

875'

*Handwritten:* -175  
2.16W



I THE UNDERSIGNED, DO HEREBY CERTIFY THAT THIS PLAN 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*  
632

(\*) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS  
DATE JULY 23, 19 97  
OPERATORS WELL NO. SHEETS/REUSE 0

API WELL NO. 47 -- 017-04407  
STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1/200  
PROVEN SOURCE OF ELEVATION KNOB 1332'  
WEST VIRGINIA DIVISION OF ENVIRONMENTAL PROTECTION OFFICE OF OIL AND GAS #10 McJUNKIN ROAD NITRO, WEST VIRGINIA 25143-2506

WELL TYPE: OIL X GAS X LIQUID WASTE DISPOSAL X IF 'GAS' PRODUCTION X STORAGE X DEEP X SHALLOW X  
LOCATION: ELEVATION 905' WATERSHED LEASON RUN

SURFACE OWNER HENRY REESE  
ROYALTY OWNER CASSIE REESE HEIRS  
DISTRICT CENTRAL COUNTY DODDRIDGE  
QUADRANGLE OXFORD  
ACREAGE 33.52  
LEASE ACREAGE 142

PROPOSED WORK:  
DRILL X CONVERT X DRILL DEEPER X REDRILL X FRACTURE OR STIMULATE X PLUG OFF OLD FORMATION X PERFORATE NEW FORMATION X PLUGS AND ABANDON X CLEAN OUT AND REPLUS X OTHER PHYSICAL CHANGE IN WELL (SPECIFY) TARGET FORMATION ALEXANDER  
ESTIMATED DEPTH 5600'

WELL OPERATOR KEY OIL COMPANY  
ADDRESS 22 GARTON PLAZA WESTON WV 26459  
DESIGNATED AGENT JAN CHAPMAN  
ADDRESS 22 GARTON PLAZA WESTON WV 26459  
PERMIT 017-01997

*Handwritten:* 6-1-89

WR-35

06 - Oct - 97  
API # 47 - 17 - 04407

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

Well Operator's Report of Well Work

Farm name: REESE, HENRY FORD

Operator Well No. : SHEETS / REESE #8

LOCATION: Elevation: 905.00

Quadrangle: OXFORD

District: CENTRAL

County: DODDRIDGE

Latitude: 8750 Feet South of 39 Deg. 15 Min. 0 Sec.  
Longitude: 11400 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: 10/08/97  
Well Work Commenced: 11/16/97  
Well Work Completed: 11/26/97

Verbal Plugging  
Permission granted on: \_\_\_\_\_ Rig  
Rotary X Cable \_\_\_\_\_  
Total Depth ( feet ) 5346'  
Fresh water depths ( ft ) 20' 250'  
Salt water depths ( ft ) NONE

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

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
11 3/4"	133.55'	133.55'	70 sks To Surface
8 5/8"	1903.30'	1903.30'	550 sks To Surface
4 1/2"	5243.55'	5243.55'	370 sks
2 3/8"		5117'	

OPEN FLOW DATA

Balltown  
Rileys  
Benson  
Elk

Producing formation Alexander  
Gas: Initial open flow No Show MCF / d Oil: Initial open flow 0 Bbl / d  
Final open flow 1,476 MCF / d Oil: 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

3602' - 4396'  
4421' - 4830'  
4859' - 4870'  
5058' - 5072'  
5108' - 5190

Second producing formation Commingled  
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 PERFORMED 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: 

PRESIDENT

Date: March 31, 1998

MAY 04 1998

DODD, 4407

Sheets #8 ( 47-017-04407 )  
Four Stage Foam Frac - Halliburton

1 <sup>st</sup> Stage:	Alexander ( 12 holes ) ( 5137.5' to 5176.75' ) Elk ( 2 holes ) ( 5066.75' to 5067' )	60 Quality Foam. 500 gal. 15% HCL. 60,000# 20/40 sand, 550,000 SCF N2, 810 bbis foam.
2 <sup>nd</sup> Stage:	Benson ( 6 holes ) ( 4865' to 4866.25' ) Third Riley ( 6 holes ) ( 4798.25' to 4799.50' )	60 Quality Foam. 750 gal. 15% HCL. 40,000# 20/40 sand, 417,000 SCF N2, 615 bbis foam.
3 <sup>rd</sup> Stage:	Riley ( 10 holes ) ( 4454.25' to 4491' ) Baltown ( 4 holes ) ( 4308.75' to 4375.75' )	60 Quality Foam. 1,000 gal 15% HCL. 5,000# 80/100 sand, 45,000# 20/40 sand, 502,000 SCF N2, 743 bbis foam.
4 <sup>th</sup> Stage:	Baltown ( 15 holes ) ( 3620.50' to 3888' )	60 Quality Foam. 1,000 gal 15% HCL. 5,000# 80/100 sand, 45,000# 20/40 sand, 502,000 SCF N2, 684 bbis foam.

WELL LOG

Fill and clay	0	4	
Red Rock & Sand	4	26	Hole damp @ 20'
Shell	26	38	
Sand and Shale & Red Rock	38	539	½" H <sub>2</sub> O @ 250'
Sand & Shale	539	713	
Red Rock & Shale	713	1004	
Sand & Shale	1004	1352	
Shale & Red Rock	1352	1364	
Sand & Shale	1364	1457	
Sand	1457	1511	
Sand & Shale	1511	1612	
Sand	1612	1679	
Sand & Shale	1679	1884	
Little Lime	1884	1896	
Shale & Sand	1896	1918	
Big Lime	1918	2000	
Big Injun	2000	2054	Show of oil @ 2035'
Shale	2054	2223	<u>GAS CHECKS</u>
Weir	2223	2351	2599' - No Show
Shale	2351	2404	3003' - No Show
Berea	2404	2424	3527' - No Show
Sand & Shale	2424	3278	4298' - No Show
Warren	3278	3355	4732' - No Show
Shale	3355	3370	5007' - No Show
Speechley	3370	3498	TD - No Show
Shale & Sand	3498	3602	
Baltown	3602	4396	
Shale	4396	4421	
Riley	4421	4498	
Sand & Shale	4498	4780	
Third Riley	4780	4830	
Shale	4830	4859	
Benson	4859	4870	
Sand & Shale	4870	5058	
Upper Elk	5058	5072	
Shale	5072	5108	
Alexander	5108	5190	
Shale	5190	5346	
T.D.	5346		

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

017 4407

1) Well Operator: KEY OIL COMPANY 25650 (1) 526  
 Operator's Well Number: SHEETS/REUSE #8 3) Elevation: 905'  
 Well type: (a) Oil X / or Gas X / Issued 10/08/97  
 (b) If Gas: Production X / Underground Storage / Expired 10/08/99  
Deep / Shallow X /

Proposed Target Formation(s): ALEXANDER 432

Proposed Total Depth: 5600 feet

7) Approximate fresh water strata depths: 90

8) Approximate salt water depths: N/A

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

12)

CASING AND TUBING PROGRAM

TYPE	SPECIFICATIONS	FOOTAGE INTERVALS	CEMENT		
	Size	Grade	Weight per ft. drilling	Left in well	Fill-up (cu. ft.)
Conductor					<u>205 SK. 3</u>
Fresh Water	<u>11 3/4</u>	<u>ERW</u>	<u>42</u>	<u>132</u>	<u>70 SKS. TO SURFACE</u>
Coal					<u>205 SK. 2</u>
Intermediate	<u>8 5/8</u>	<u>ERW</u>	<u>23</u>	<u>1900</u>	<u>515 SKS. TO SURFACE</u>
Production	<u>4 1/2</u>	<u>J-55</u>	<u>10.5</u>	<u>5400</u>	<u>490 SKS.</u>
Tubing	<u>1.5</u>				<u>205 SK. 1.7</u>
Liners					

PACKERS : Kind \_\_\_\_\_  
 Sizes \_\_\_\_\_  
 Depths set \_\_\_\_\_

For Office of Oil and Gas Use Only  
 Fee(s) paid:  Well Work Permit  Reclamation Fund  WPC2  
 Plat  WW-9  WW-29  Bond \_\_\_\_\_ (Type)

1) Date: SEPTEMBER 22, 1997  
2) Operator's well number 4407  
SHEETS/RESE #8  
3) API Well No: 47 - 017 - 4407  
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: NONE

(a) Name HENRY FORD REESE Name NONE  
Address RT. 1 BOX 44 Address \_\_\_\_\_  
GREENWOOD, WV 26415

(b) Name \_\_\_\_\_ (b) Coal Owner(s) with Declaration Emmett  
Address \_\_\_\_\_ Name \_\_\_\_\_ Address \_\_\_\_\_  
SEP 25 97

(c) Name \_\_\_\_\_ Name \_\_\_\_\_  
Address \_\_\_\_\_ Address \_\_\_\_\_  
Office of C

6) Inspector MIKE UNDERWOOD (c) Coal Lessee with Declaration  
Address RT. 2 BOX 135 Name \_\_\_\_\_  
SALEM, W V 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 Walt KEY OIL COMPANY  
 Name Walt  
 Title PRESIDENT  
 Address 22 GARTON PLAZA  
WESTON, WV 26452

Subscribed and sworn before me this 22ND day of SEPTEMBER 1997

My commission expires March 24, 2003

