

LATITUDE

39°17'30"

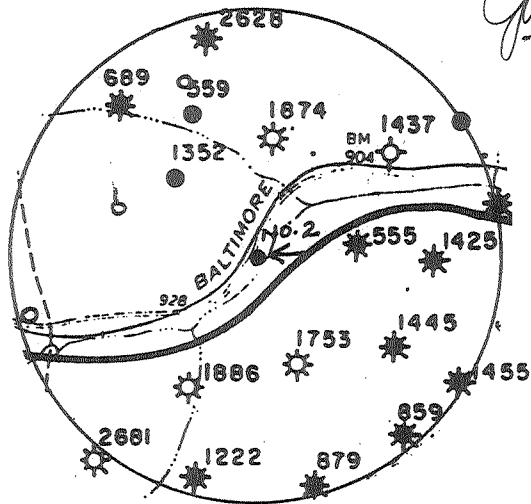
LONGITUDE

80°50'00"

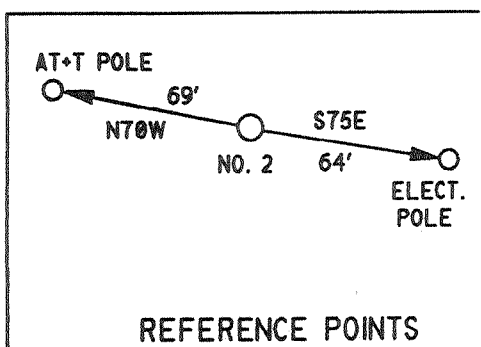
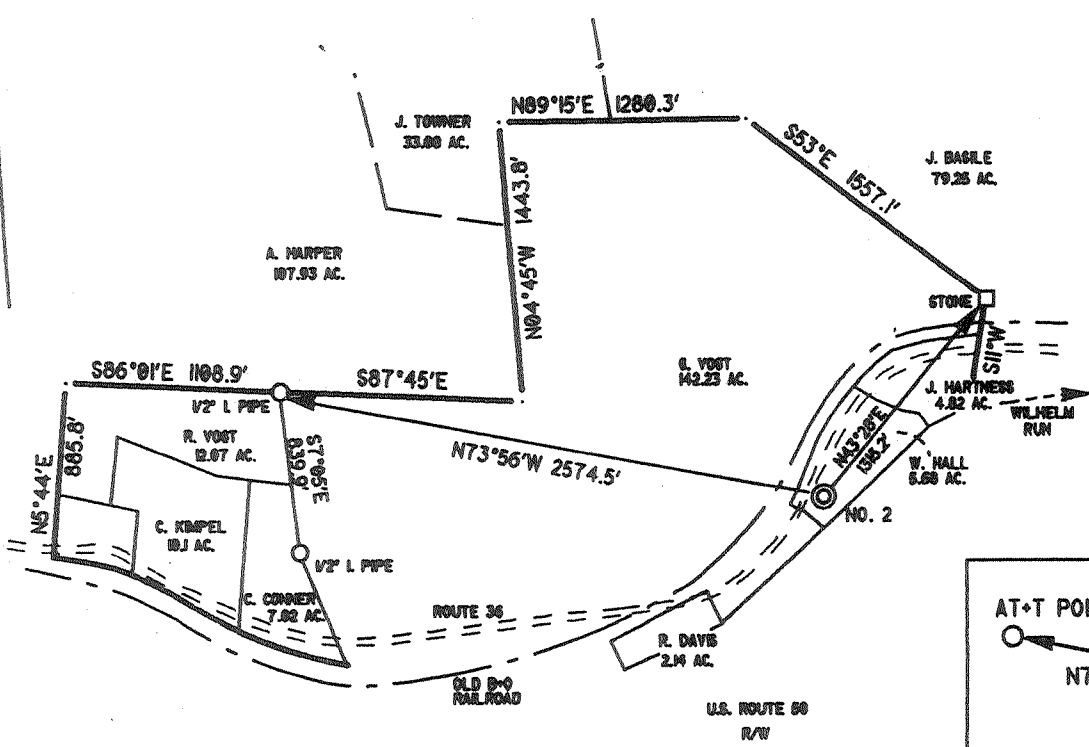
5,400'

*James
7/2/97*

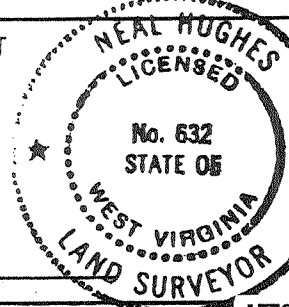
*1-035
1-050*



NORTH



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.



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

DATE FEBRUARY 19, 19 97
 OPERATORS WELL NO. P. WRIGHT 2
 API WELL NO. 47 - 017-04383
 STATE _____ COUNTY _____ PERMIT _____

MINIMUM DEGREE OF ACCURACY 1/200 FILE NO. 97-08
 PROVEN SOURCE OF ELEVATION ROAD-RR INTER. 928' SCALE 1" = 1000'

WEST VIRGINIA
 DIVISION OF ENVIRONMENTAL PROTECTION
 OFFICE OF OIL AND GAS
 #10 McJUNKIN ROAD
 NITRO, WEST VIRGINIA 25143-2506

WELL TYPE: OIL GAS LIQUID INJECTION _____ WASTE DISPOSAL _____ IF "GAS" PRODUCTION STORAGE _____ DEEP _____ SHALLOW _____
 LOCATION: ELEVATION 382' WATERSHED WILHELM RUN
 DISTRICT CENTRAL COUNTY DODDRIDGE QUADRANGLE WEST UNION
 SURFACE OWNER WILLIAM HALL ACREAGE 5.68
 ROYALTY OWNER PATRICK WRIGHT LEASE ACREAGE 208

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 5600'

WELL OPERATOR KEY OIL COMPANY DESIGNATED AGENT JAN CHAPMAN
 ADDRESS 22 GARTON PLAZA ADDRESS 22 GARTON PLAZA
WESTON, WV 26452 6-6 89 WESTON, WV 26452

COUNTY NAME
 PERMIT

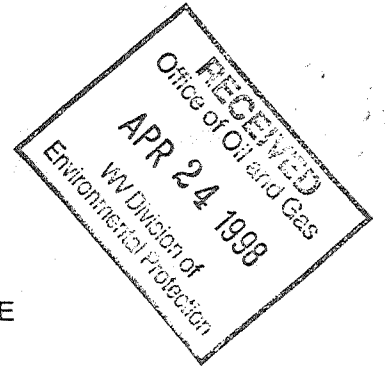
JUL 3 1997

WR-35

30 - Jun - 97
API # 47 - 17 - 04383

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

Well Operator's Report of Well Work



Farm name: HALL, WILLIAM C.

Operator Well No. : P. WRIGHT #2

LOCATION: Elevation: 882.00

Quadrangle: WEST UNION

District: CENTRAL County: DODDRIDGE
Latitude: 5400 Feet South of 39 Deg. 17 Min. 30 Sec.
Longitude: 5525 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: 07/02/97
Well Work Commenced: 09/09/97
Well Work Completed: 09/13/97
Verbal Plugging
Permission granted on: _____
Rotary X Cable _____ Rig
Total Depth (feet) 5364'
Fresh water depths (ft) 55'
Salt water depths (ft) 1445'

Casing & Tubing Size	Used in Drilling	Left In Well	Cement Fill Up Cu. Ft.
8 5/8"	889.05'	889.05'	235 sks To Surface
4 1/2"	5232'	5232'	425 sks
2 3/8"		5032'	

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

OPEN FLOW DATA

Balltown 3617' - 4340'
Rileys 4364' - 4752'
Benson 4802' - 4813'
Producing formation Alexander Pay zone depth (ft) 5051' - 5134'
Gas: Initial open flow No Show MCF / d Oil: Initial open flow 0 Bbl / d
Final open flow 1,508 MCF / d Oil: Final open flow show Bbl / d
Time of open flow between initial and final tests N/A Hours
Static rock pressure 1850 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: Jan Chapman

PRESIDENT

Date: April 18, 1998

Dodd 4383

MA: 5-1-1998

P. Wright #2 (47-017-04383)
Four Stage Foam Frac - Halliburton

1 st Stage:	Alexander (12 holes) (5111' to 5141.75')	60 Quality Foam. 500 gal. 15% HCL. 60,000# 20/40 sand, 550,000 SCF N2, 811 bbls foam.
2 nd Stage:	Benson (7 holes) (4823.75' to 4825') Third Riley (4 holes) (4770' to 4771')	60 Quality Foam. 750 gal 15% HCL. 50,000# 20/40 sand, 481,000 SCF N2, 712 bbls foam.
3 rd Stage:	Riley (9 holes) (4408.5' to 4423.5') Balltown (3 holes) (4208.75' to 4209.25')	60 Quality Foam. 1,000 gal 15% HCL. 5,000# 80/100 sand, 45,000# 20/40 sand, 502,000 SCF N2, 742 bbls foam.
4 th Stage:	Balltown (12 holes) (3826' to 3980')	60 Quality Foam. 1,000 gal 15% HCL. 5,000# 80/100 sand, 45,000# 20/40 sand, 502,000 SCF N2, 684 bbls foam.

WELL LOG

Fill and Clay	0	10	
Sand & Shale	10	86	Damp @ 55'
Sand & Shale & Red Rock	86	190	
Shale & Sand	190	212	
Red Rock & Shale	212	414	
Red Rock	414	472	
Sand & Shale	472	721	
Sand & Shale & Red Rock	721	1394	
Sand & Shale	1394	1832	Damp @ 1445'
Little Lime	1832	1850	
Shale	1850	1867	
Big Lime	1867	1924	Gas Checks
Big Injun	1924	1995	2018' - No Show
Shale	1995	2154	2517' - No Show
Weir	2154	2288	3629' - No Show
Sand & Shale	2288	3238	4002' - No Show
Warren	3238	3288	TD - No Show
Shale	3288	3298	
Speechley	3298	3413	
Shale	3413	3617	
Balltown	3617	4340	
Shale	4340	4364	
Riley	4364	4436	
Sand & Shale	4436	4608	
Second Riley	4608	4670	
Shale	4670	4724	
Third Riley	4724	4752	
Shale	4752	4802	
Benson	4802	4813	
Shale	4813	5051	
Alexander	5051	5134	
Sand & Shale	5134	5364	
T.D.	5364		

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

- 1) Well Operator: KEY OIL COMPANY ⁴⁷⁵ 2565 ① 671
- 2) Operator's Well Number: P. WRIGHT #2 3) Elevation: 882'
- Well type: (a) Oil X / or Gas X /
- (b) If Gas: Production X / Underground Storage /
Deep / Shallow X /
- Proposed Target Formation(s): ALEXANDER ⁴³⁹
- Proposed Total Depth: 5600 feet
- Approximate fresh water strata depths: 80'
- 8) Approximate salt water depths: -0-
- 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 *Spur Well*
- 12)

23859

Issued 07/02/97
Expires 07/02/99

RECEIVED
Environmental Protection
Division
JUN 1 1997
Office of Oil & Gas
Permitting

CASING AND TUBING PROGRAM

TYPE	SPECIFICATIONS		FOOTAGE INTERVALS			CEMENT
	Size	Grade	Weight per ft.	For drilling	Left in well	
Conductor	11 3/4	ERW	42	30	0	<i>ork nibe</i>
Fresh Water	8 5/8	ERW	23	882	882	240 SKS. TO SURFACE
Coal						<i>38CSPI 11.3</i>
Intermediate						<i>38CSPI 11.22</i>
Production	4 1/2	J-55	10.5		5400	490 SKS.
Tubing	1.5					<i>38CSPI 11.1</i>
Liners						

PACKERS : Kind
 Sizes
 Depths set

For Office of Oil and Gas Use Only

- Fee(s) paid: Well Work Permit Reclamation Fund WPCP
- Plat WW-9 WW-2B Bond Agent
- (Type)

06458/18

