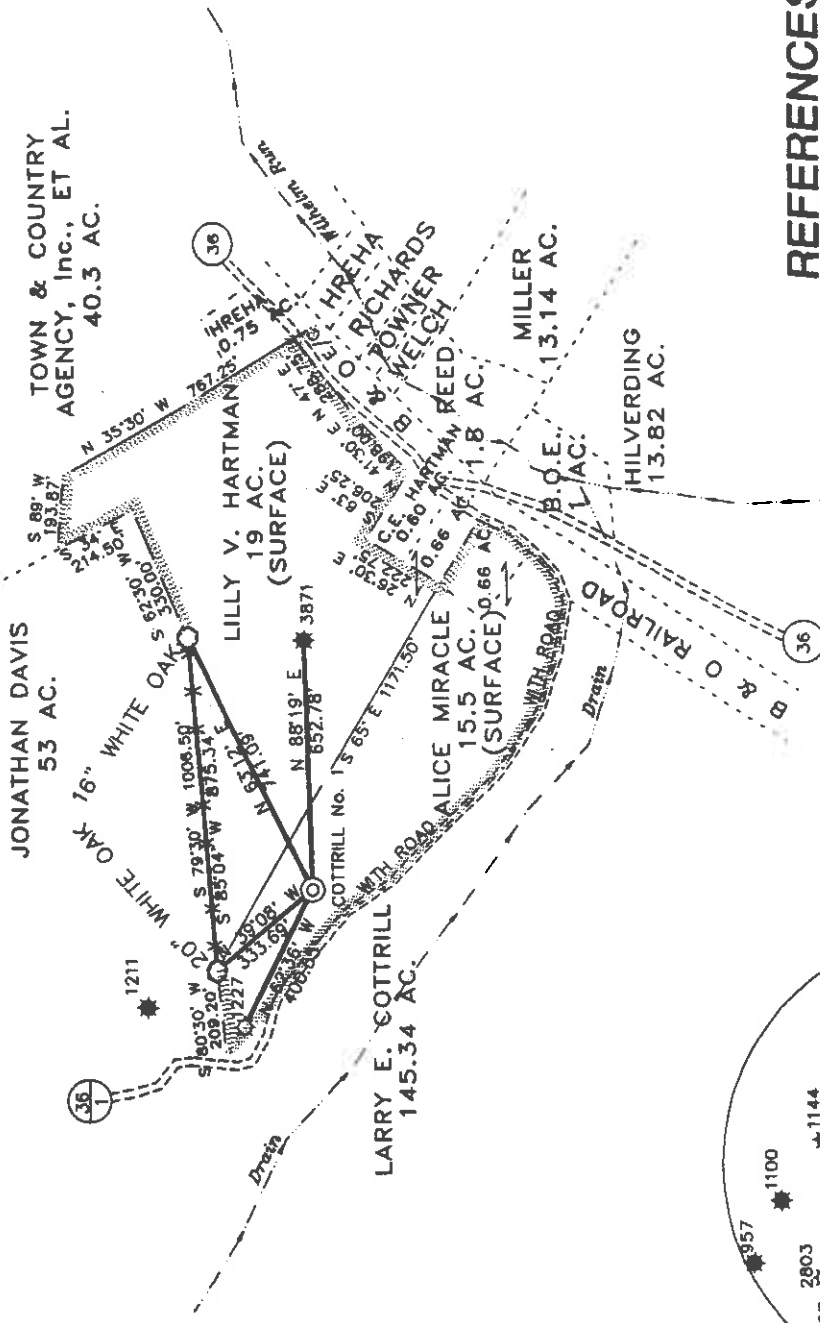


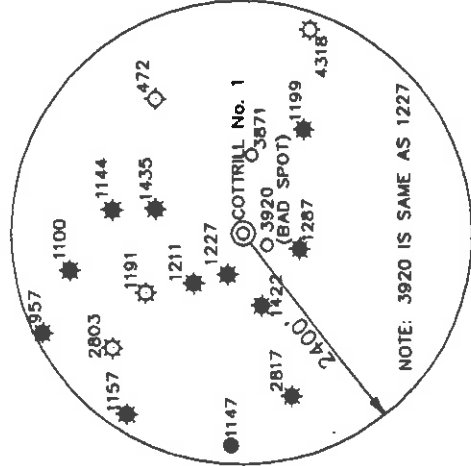
KEY OIL COMPANY FLANAGAN / NESLER & COTTRILL LEASES

COTTRILL WELL No. 1 34.5 ACRES± TOTAL

JONATHAN DAVIS
53 AC.
TOWN & COUNTRY
AGENCY, Inc., ET AL.
40.3 AC.



NORTH

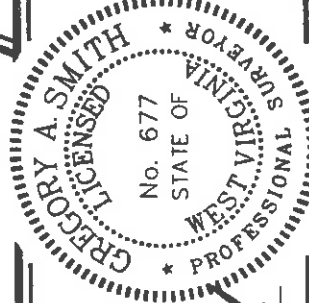


NOTE: 3920 IS SAME AS 1227



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 BY THE REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF ENERGY.

P.S. 677 *Gregory A. Smith*



MINIMUM DEGREE OF ACCURACY 1 / 200 FILE NO. 3694P1(61-23)
PROVEN SOURCE OF ELEVATION SCALE 1" = 500'
BENCH MARK ELEVATION 816'

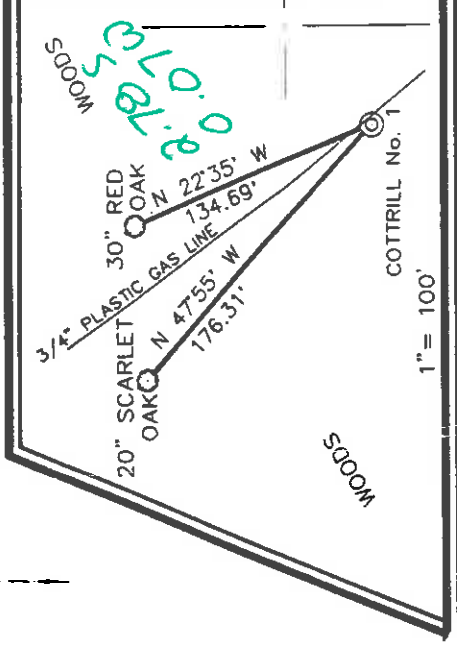
WELL TYPE : OIL GAS INJECTION WASTE LIQUID DISPOSAL IF "GAS" PRODUCTION STORAGE DEEP SHALLOW

LOCATION : ELEVATION 1050' WATERSHED WILHELM RUN DISTRICT CENTRAL COUNTY DODDRIDGE QUADRANGLE WEST UNION SURFACE OWNER ALICE MIRACLE ACREAGE 15.5 ROYALTY OWNER COTTRILL HEIRS LEASE ACREAGE 15.5 OF 34.5 LEASE NO. _____

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 BIG INJUN ESTIMATED DEPTH 3000'

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

REFERENCES



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.
DATE APRIL 29 19 1997
OPERATORS WELL NO. COTTRILL No. 1
API WELL NO. 47-017-04364
STATE COUNTY PERMIT

STATE OF WEST VIRGINIA
DEPARTMENT OF ENERGY
OIL AND GAS DIVISION



6-6-89 MAY 8 - 1997

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

Permitting
Section of Oil & Gas

Well Operator's Report of Well Work

Farm name: MIRACLE, CHARLES L.

Operator Well No. : COTTRILL #1

LOCATION: Elevation: 1,050.00

Quadrangle: WEST UNION

District: CENTRAL
Latitude: 14700 Feet South of 39 Deg. 20 Min. 0 Sec.
Longitude: 360 Feet West of 80 Deg. 50 Min. 0 Sec.

County: DODDRIDGE

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

Agent: JAN E. CHAPMAN

Inspector: MIKE UNDERWOOD
Permit Issued: 05/08/97
Well Work Commenced: 05/22/97
Well Work Completed: 06/03/97
Verbal Plugging
Permission granted on: _____
Rotary X Cable _____ Rig
Total Depth (feet) 5470'
Fresh water depths (ft) None
Salt water depths (ft) 420'

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

OPEN FLOW DATA

Producing formation Balltown
Gas: Initial open flow 0 MCF / d
Final open flow 1,409 MCF / d
Time of open flow between initial and final tests _____
Static rock pressure 1660 psig (surface pressure) after 96 Hours

Riley
Benson
Alexander

3666' - 4390'
4508' - 4578'
4954' - 4970'
5204' - 5291'

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

Pay zone depth (ft) _____
Oil: Initial open flow _____ Bbl / d
Oil: Final open flow show Bbl / d
N/A
Hours _____
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: *Jan Chapman*

PRESIDENT

Date: OCTOBER 13, 1997

OCT 17 1997

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
11 3/4"			
8 5/8"	1063.60	1063.60	280 sks To Surface
4 1/2"	5360	5360	390 sks
2 3/8"		5224'	

Coltrill #1 (47-017-04364)
Four Stage Foam Frac - Halliburton

1st Stage:	Alexander (13 holes) (5243.75' - 5276.25')	60 Quality Foam. 500 gal. 15% HCL. 60,000# 20/40 sand, 550,000 SCF N2, 811 bbls foam.
2nd Stage:	Benson (10 holes) (4959' - 4961.25')	60 Quality Foam. 750 gal 15% HCL. 40,000# 20/40 sand, 417,000 SCF N2, 616 bbls foam.
3rd Stage:	Riley (10 holes) (4553.25' - 4624.25')	60 Quality Foam. 1000 gal 15% HCL. 5,000# 80/100 sand, 35,000# 20/40 sand, 438,000 SCF N2, 647 bbls foam.
4th Stage:	Balltown (12 holes) (3816' - 3990')	60 Quality Foam, 750 gal 15% HCL. 5,000# 80/100 sand, 35,000# 20/40 sand, 390,000 SCF N2, 644 bbls foam.

WELL LOG

Fill & clay	0	12	
Shale & Red Rock	12	57	
Sand	57	91	
Sand & Shale & Red Rock	91	334	
Sand	334	339	
Sand & Shale & Red Rock	339	647	1/2" H ² O & 420'
Sand & Shale	647	864	
Red Rock & Shale	864	1141	
Sand & Shale	1141	1967	
Little Lime	1967	1996	
Shale	1996	2003	
Big Lime	2003	2059	
Big Injun	2059	2118	
Shale	2118	2130	
Squaw	2130	2158	
Shale	2158	2292	
Weir	2292	2414	
Sand & Shale	2414	3355	
Warren	3355	3428	
Shale	3428	3438	
Spechley	3438	3558	
Shale	3558	3666	
Balltown	3666	4390	
Shale & Sand	4390	4508	
Riley	4508	4578	
Shale	4578	4859	
3 rd Riley	4859	4913	
Shale	4913	4954	
Benson	4954	4970	
Sand & Shale	4970	5204	
Alexander	5204	5291	
Sand & Shale	5291	5470	
T.D.	5470		

Gas Checks

1920	No Show
2035	No Show
2513	No Show
3008	No Show
3691	No Show
4314	No Show
4808	No Show
5211	No Show
TD	No Show

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

1) Well Operator: KEY OIL COMPANY ⁴⁻⁵ 28655 (1) 671
 Operator's Well Number: COTTRILL #1 3) Elevation: 1050'

Well type: (a) Oil X / or Gas X / *Issued 05/08/97*
 (b) If Gas: Production X / Underground Storage / *Expired 05/08/99*
 Deep / Shallow X /

Proposed Target Formation(s): ALEXANDER ⁴³⁹

6) Proposed Total Depth: 5600 feet
 7) Approximate fresh water strata depths: 100'
 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

12)

RECEIVED
 WV Division of
 Environmental Protection
 MAY 15 1997
 Permitting
 Office of Oil & Gas

CASING AND TUBING PROGRAM

TYPE	SIZE	GRADE	WEIGHT PER FT. DRILLING	FOOTAGE INTERVALS	CEMENT
				Left in well	Fill-up (cu. ft.)
Conductor	11 3/4	ERW	42	30	0
Fresh Water	8 5/8	ERW	23	1050	1050
Coal					285 SKS. TO SURFACE
Intermediate					
Production	4 1/2	J-55	10.5	5500	460 SKS.
Tubing	1.5				
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 (Type)

RECEIVED
MAY 21 1997
BUREAU OF ENVIRONMENTAL PROTECTION
DIVISION OF OIL & GAS

1) Date: MAY 2, 1997
2) Operator's well number
3) API Well No: 47 - 017 - 4364
COTRILL #1
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 CHARLES L. MIRACLE
Address RT. 1 BOX #2 WAKEFIELD ADDL WASHINGTON, WV 26181

(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

X 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:

- X 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 11-1-18, 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: _____
Its: PRESIDENT

Address 22 GARTON PLAZA

WESTON, WV 26452

Telephone 304-269-7102

Subscribed and sworn before me this 2ND day of MAY 1997

My commission expires MARCH 24, 2003
Karen Cook
Notary Public

