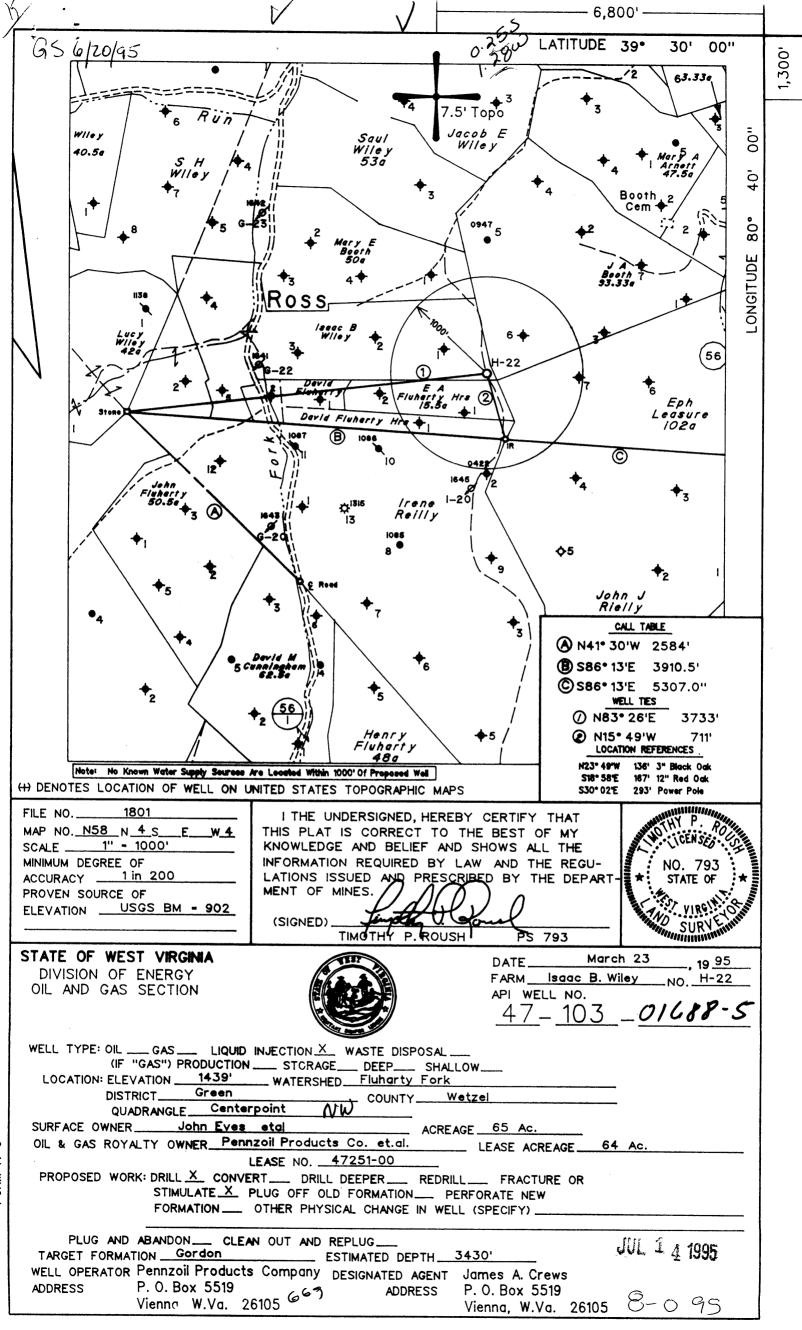


OWWO 8-0 Jacksonburg (Strontown) (095) **张系统统**



80

Longitude

Latitude

Topo Location

7.5' Loc.______ 15' Loc._____ (calc.)

Company East Resources

Form John Knight

15' Quad

7.5' Oues Centerpoint

District Green

WELL LOCATION PLAT

County 103 Permit 1688

(JACKSONEIRE STREET, 95)

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

		Well Operat	tor's Repor	t of Well	Work			
Farm name:	KNIGHT, JO	HN	Oper	ator Well	No.: IBW	TLEY H-22	CONCEOUS	Gas
LOCATION:	Elevation:	1,439.00	Qua	drangle:	CENTERP	OINT 7.5'\\	are all on of	9 500r
	District: Latitude: Longitude:	GREEN 13,000 Feet sou 6,800 Feet wes	th of 39	nty: WE Deg 30 Deg 40	Min 0	Sec.	1000	Dartment of Pental Protection
Company:	P.O. BOX 55	URCES, INC. 519 V 26105-5519		Casing & Tubing	Used in Drilling	Left in Well	Fil	ment ll Up 1. Ft.
Agent:	MICHAEL N	MCCOWN		Size		1		
Inspector: Permit Issued: Well work Co		ERWOOD 01/05/04 01/07/04						
Well work Co. Verbal pluggin	mpleted:	01/12/04		8 5/8"	704.00'	704.00'	250	sks
permission gra Rotary X Total Depth (f	anted on: Cable eet)	Rig 3422 NA		4 1/2"	3384.46'	3384.46'	170	sks
Salt water dep Is coal being to Coal Depths (mined in area (Y	NA NA (/N) NA						
OPEN FLOW	DATA	Water Injection W	/ell					
Prod Gas:	ucing formation Initial open Final open	flow *	MCF/	d Fi	Pay zone itial open flo	w	3272'- * * rs	3340'
Stati	c rock pressure	*	psig (surface p	ressure)	after		_Hours
Seco Gas:	Final open:	flow	MCF/	d Fi inal tests	Pay zone itial open flo	w Hou	urs	Bbl/d Bbl/d
	c rock pressure			(surface p		after	ACTI IR INC	Hours
OR STIMULA	TING, PHYSICAL	M, PUT THE FOLLOW CHANGE, ETC. 2) TH L FORMATIONS, INCL	E WELL LOG	WHICH IS	A SYSTEMA	TIC DETAILED		,

For: EAST RESOURCES, INC.

By: Ser Colde

Date:

FEB 13 287,

Treatment:

Treated perforations 3310' -3318' w/ 250 gals 15% HCL, 314 Bbls cross linked gel and 21,000 # 20/40 sand

Well Log:

See original well record

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

		Well Operator	's Repor	t of Well \	Work	 -	en e	PER PROPERTY OF THE PROPERTY O
Farm name:	EVANS, JO	HN ETAL	Oper	ator Well	No.: I.B. W	VILEY H-22		
LOCATION:	Elevation:	1,439.00	Quad	drangle:	CENTERPO	TNIC		
	District: Latitude: Longitude:	GREEN 13,000 Feet south of 6,800 Feet west of 6,800		nty: WE Deg 30 Deg 40	_	Sec. Sec.		
Company:	P.O. BOX 5	OURCES, INC. 519 VV 26105-5519		Casing & Tubing	Used in Drilling	Left in Well	Cen Fill Cu.	Up
Agent:	MICHAEL !	MCCOWN		Size				
Inspector: Permit Issued: Well work Con	RANDAL M	/IICK 05/01/00 05/10/00						
Well work Con Verbal pluggin	mpleted:	05/11/00		8-5/8"	704.00	704.00	250	Sacks
permission gra Rotary X Total Depth (f	nted on: Cable	Rig 3,422		4 ½"	3384.46'	3384.46'	170	Sacks
Fresh water de		NA NA				Office of	VED Cil & Gas niting	
Is coal being r Coal Depths (nined in area (Y/N) NA NA			·	JUL 2 WV Dep Environmen	2 2001 artment of tal Protectio	n
OPEN FLOW	DATA							
Prod	ucing formation	n GORI			Pay zone d		3272-33	
Gas:	Initial open	flow *	MCF/c		tial open flow		*	Bbl/d Bbl/d
		pen flow between initial	MCF/cland fin	al tests	al open flow	Hour		Hours
Statio	c rock pressure *Comingle	. <u>*</u> d	psig (surface pr		after		- Hours
Seco	nd producing f				Pay zone o			D1.1/4
Gas:	Initial open	flow	MCF/c		tial open flow			Bbl/d Bbl/d
	Final open	flow	MCF/o		nal open flow	Hour		- BONG \$
Stati	Time of o	pen flow between initia	l and fir psig (nal tests surface pr	ressure)	after	S	Hours 1
OR STIMULAT	ING, PHYSICAL	RM, PUT THE FOLLOWING L CHANGE, ETC. 2) THE W LL FORMATIONS, INCLUD	ELL LOG	WHICH IS	ASYSTEMA	TIC DETAILED		i 6

For: EAST RESOURCES, INC.

By:

Date: #9/9/01

Treatment:

Perforated: Existing perforations 3310'-3318' - 4 holes/ft. (32 holes)

Treatment: Treated via 4.5" casing with 300 bbls. of cross linked gell water and 10,000 lbs. of 20/40 sand.

Well Log:

TD = 3422'

0	1998 sand and shale
1998	2029 sand
2029	2060 sand and shale
2060	2211 shale
2211	2242 sand and shale
2242	2273 sand
2273	2394 shale
2394	2519 sand
2519	2611 sand & shale
2611	2643 shale
2643	2673 sand
2673	2736 sand and shale
2736	3272 shale
3272	3340 Gordon
3340	3422 -TD

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

MP

Well Operator's Report of Well Work

Farm name:	EVANS, JOH	IN ETAL	Oper	ator Well	No.: I.A. V	WILEY HE	Office of Oil &	C
LOCATION:	Elevation:	1,439'	Quad	drangle:	CENTER	TNIO	Office of Chi	er
	District: Latitude: Longitude:	GREEN 13,000 Feet south of 6,800' Feet west of		nty: WE Deg 30 Deg 40		Sec.	NOV 18 20 wv Departme Environmental P	ent of
Company:	P.O. BOX 55	PRODUCTS COMPANY 19 V 26105-5519		Casing & Tubing	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.	
Agent:	PHILIP S. O	NDRUSEK		Size				
Inspector: Permit Issued: Well work Com Well work Com Verbal plugging	pleted:	7/12/95 7/14/95 11/13/95		8-5/8	704'	704'	250 SKS	
permission gran Rotary X Total Depth (fee Fresh water dep	ted on: _Cable et)	Rig 3,422' NA		4 1/2"	3384.46'	3384.46'	170 SKS	
Salt water depth	ns (ft)	NA						
Is coal being mi		N) N						
Coal Depths (ft)	•	NA NA						
OPEN FLOW I	DATA	*Waterflood Injection We	ell					÷
Gas: Static r Second Gas:	ock pressure I producing for Initial open fl Final open flo	GORDON ow * Now * Now n flow between initial and * p mation ow Now Now n flow between initial and * Now	N ICF/d ICF/d d fina sig (so ICF/d ICF/d d fina	Final tests urface pre	Pay zone of ial open flow	* Hou after lepth (ft)	* Hours Bbl/d Bbl/d	-
INTERVALS, I LOG WHICH I	FRACTURING S A SYSTEM	FORM, PUT THE FOLLO GOR STIMULATING, PH ATIC DETAILED GEOLO INTEREDBY THE WELL	YSIC OGICA	AL CHAN	NGE, ETC.	2) THE W	ELL	/ET /6
		For: PENNZ By: Date:	OIL P	RODUCT fimal 4/8	SCOMPAN 196	NY N	gw 2 g 2060	5-88

Treatment: Perforated Gordon 3310-3318 (32 Holes) Treated via 4 1/2" Casing w/300 gal. 15% HCl Acid, 210 BBL gelled water & 10,000 LB 20/40 Sand.

Well Log:

Sand & Shale	0	_	1998'	
Sand	1998'	-	2029'	
Sand & Shale	2029'	-	2060'	
Shale	2060'	_	2211'	
Sand & Shale	2211'	-	2242'	
Sand	2242'	-	2273'	Drillers Log
Shale	2273'	-	2394'	J
Sand	2394'	-	2519'	
Sand & Shale	2519'	_	2611'	
Shale	2611'	-	2643'	
Sand	2643'	-	2673'	
Sand & Shale	2673'	-	2736'	
Shale	2736'	-	3272'	
Gordon	3272'	-	3340'	Electric Log
T.D.	3422'			



APR 1 0 1996

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

	550						
Permitting		Well Operator'	s Report of	Well Wor	k		
Farm name:	Gas EVANS, JOH	N ETAL	Ope	rator Well	No.: I.A. V	VILEY H-2	2
LOCATION:	Elevation:	1,439'	Qua	drangle:	CENTERP	OINT	
	District: Latitude: Longitude:	GREEN 13,000 Feet sou 6,800' Feet we		nty: WE Deg 30 Deg 40		Sec.	:
Company:	P.O. BOX 55	PRODUCTS COMP. 19 V 26105-5519	ANY	Casing & Tubing	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
Agent:	PHILIP S. ON	IDRUSEK		Size			·
Inspector: Permit Issued: Well work Comi	RANDAL MI	CK 7/12/95 7/14/95					
Well work Comp Verbal plugging permission grant	pleted:	11/13/95		8-5/8	704'	704'	250 SKS
Rotary X Total Depth (fee Fresh water depth	Cable3	Rig ,422' NA		4 1/2"	3384.46'	3384.46'	170 SKS
Salt water depth	s (ft)	NA					
Is coal being mir Coal Depths (ft)		N) NA					
OPEN FLOW D	ATA	*Waterflood Injecti	ion Well				
Gas:	ng formation Initial open flow Final open flow Time of oper ock pressure	w *		Fina	Pay zone de al open flow soure)	Hour	3272-3340 * Bbl/d * Bbl/d s Hours
Gas:	producing form Initial open flow Final open flow Time of open ock pressure	w		Oil: Initia Fina	Pay zone de al open flow lopen flow ssure)		Bbl/d Bbl/d s Hours
NTERVALS, F LOG WHICH IS	RACTURING S A SYSTEMA	ORM, PUT THE FOOR STIMULATING TIC DETAILED GO NTEREDBY THE V	G, PHYSICA EOLOGICA	AL CHAN L RECOR	GE, ETC. 2	2) THE WE	LI.

By: Date: Treatment: Perforated Gordon 3310-3318 (32 Holes) Treated via 4 1/2" Casing w/300 gal. 15% HCl Acid, 210 BBL gelled water & 10,000 LB 20/40 Sand.

STATE OF STA

and the first statement and the continues?

Well Log:

Sand & Shale	0		1998'	
Sand	1998'	-	2029'	W.
Sand & Shale	2029'	-	2060'	in the second
Shale	2060'	-	2211'	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Sand & Shale	2211'	-	2242'	n en gran de kommen.
Sand	2242'	-	2273'	Drillers Log
Shale	2273'	-	2394'	7.14
Sand	2394'	-	2519'	Alexander
Sand & Shale	2519'	-	2611'	77 C
Shale	2611'	-	2643'	
Sand	2643'	-	2673'	
Sand & Shale	2673'	-	2736'	
Shale	2736'	-	3272'	
Gordon	3272'	- ~	3340'	Electric Log
T.D.	3422'			

FORM WW-3(B) (Obverse)	FILE COPY
10/91	

ſ	RECEIVED Office of Oil & Gas
A-11-41-511-511-511-511-511-511-511-511-5	MAR 28
1	WV Division of The Charles of The Ch

1) Date:		Ma	arc	h 24	, 1995		
2) Operator's Well No	Is	aac	В.	Wiley			
3) SIC Code							
4 API Well N	Ο.	47 Su	ate	- 103 Count	y -	1688-LI Permit	

5. UIC Permit No.

ω
0
9
0

STATE OF WEST VIRGINIA
NOTICE OF LIQUID INJECTION OR WASTE DISPOSAL WELL WORK PERMIT APPLICATION • for the DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS

) WELL TYP			14201	ינוון משל	ecuon (ot storage)			~ 1
) LOCATION	N: Elevati	ion:	1439'			Waters	Watzal	ty Fork	
	Distric		Green II Prod	ncts	Co	37450 County	·	Quadrangle:	
8) WELL OPE	KAIOK _		3ox 551			<u> </u>	9) DESIGNAT	D (es A. Crews
Ad	aress	ienna		6105		010	Add		D. Box 5519
								vier	na, WV 26105
10) OIL & GAS	SINSPECT Mike Un			ED			11) DRILLING	CONTRACTOR:	
Address	Route	2, Bc	x 135						
	Salem	ı, WV	26426						
12) PROPOSE	n weii u	OPK.	Drill	X	/ Drill	deeper		/ Stimulate X	,
12) PROPOSE	D WELL W	ORK.	D			on_/ Perforale n			
			•			n well (specify)	tw Tormation	Convert_/	
13) GEOLOGI	CAL TARC	ET FOR	•	_	ordo		r	Septh 3319 feet	(top) to 3334 feet (bottom)
14) Estimated of			•		th of ex	isting well) 343		жриітеес	(top) toteet(bottom)
- ,	ite water str	•	, ,	619		Tacing weny	646 feet.		
• •	ite water str ite coal seam	-	125	1					
• •	ng mined in	-		/ No	<u>X</u> ,				
•	rvoir pressur			1	<u>40</u> 0	_psig. Source	Estimated		
, •	eservoir fra	•	2	500		_paig. Source	psig (BHFP)		
•		•		FRAT	IONS:	Volume per hour: _	25	Bottom hole press	2332
21) DETAILE	n inentie	ICATION	OF MAT	EDIAL	S TO RE	INIECTED INCL	LIDING ADDITIVI	Produced w	ater, fresh water
bacter	icides	and ot	her ch	emic	als	as needed to	maintain wa	ter quality a	ind improve oil
22) PILTERS (lbed filters			recovery.
,						ND OTHER CORRO			
24) CASING A	AND TURI	NG PROC	RAM						
,									
CASING OR	112 1021.	SPEC	IFICATIONS			FOOTAGE I	NTERVALS	CEMENT FILLUP	PACKERS
		SPEC Grade	IFICATIONS Weight	New	Used		1	CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS
CASING OR	Size	1	IFICATIONS	New	Used	FOOTAGE I	NTERVALS Left in well		
CASING OR TUBING TYPE		1	IFICATIONS Weight	New X	Used	For drilling	1	OR SACKS (Cubic feet)	PACKERS Kinds
CASING OR TUBING TYPE	Size	Grade	IFICATIONS Weight per ft.		Used		Left in well	OR SACKS (Cubic feet) Cement to	
CASING OR TUBING TYPE Conductor Fresh water	Size	Grade	IFICATIONS Weight per ft.		Used	For drilling	Left in well	OR SACKS (Cubic feet)	Kinds
CASING OR TUBING TYPE Conductor Fresh water Coel	Size	Grade L.S.	IFICATIONS Weight per ft.		Used	For drilling	Left in well	OR SACKS (Cubic feet) Cement to surface	Kinds
CASING OR TUBING TYPE Conductor Fresh water Coal Intermediate	Star 8-5/8	Grade L.S.	FICATIONS Weight per ft.	Х	Used	For drilling	Left in well	Cement to surface Cement over	Kinds Sizes Depths set
CASING OR TUBING TYPE Conductor Fresh water Coal Intermediate Production	Star 8-5/8	Grade L.S.	FICATIONS Weight per ft.	Х	Used	For drilling	Left in well	OR SACKS (Cubic feet) Cement to surface	Kinds Sizes Depths set
CASING OR TUBING TYPE Conductor Fresh water Coal Intermediate Production Tubing	Star 8-5/8	Grade L.S.	FICATIONS Weight per ft.	Х	Used	For drilling	Left in well	Cement to surface Cement over	Kinds Sizes Depths set
CASING OR TUBING TYPE Conductor Fresh water Coal Intermediate Production Tubing	Star 8-5/8	Grade L.S.	FICATIONS Weight per ft.	Х	Used	For drilling	Left in well	Cement to surface Cement over	Kinds Sizes Depths set Perforations:
CASING OR TUBING TYPE Conductor Fresh water Coal Intermediate Production Tubing	Star 8-5/8	Grade L.S.	FICATIONS Weight per ft.	Х	Used	For drilling	Left in well	Cement to surface Cement over	Kinds Sizes Depths set Perforations:
CASING OR TUBING TYPE Conductor Fresh water Coal Intermediate Production Tubing	8-5/8 4-1/2	L.S.	Weight per ft. 20	X		689 3430	Left in well	Cement to surface Cement over salt sand	Kinds Sizes Depths set Perforations:
CASING OR TUBING TYPE Conductor Fresh water Coal Intermediate Production Tubing Liners	8-5/8 4-1/2 NT'S OPEI	L.S.	Weight per ft. 20	X X	uired fro	For drilling 689 3430 m. Made	689 3430	Cement to surface Cement over salt sand	Kinds Sizes Depths set Perforations: Top Bottom

FORM WW-3(A)
Obverse

RECEIVED
Office of Oil & Gas
UIC Section

MAR 2 8 1995

WV Division of Environmental Protection Date March 24, 1995 Operator's

2) Well No. Isaac B. Wiley No. H-22

3) SIC Code

State County Permit

STATE OF WEST VIRGINIA

NOTICE OF LIQUID INJECTION OR WASTE DISPOSAL WELL WORK PERMIT APPLICATION for the

	for the
division of oil A	ND GAS, DEPARTMENT OF ENERGY
S) SURFACE OWNER(S) OF RECORD TO BE SERVED	7 (i) COAL OPERATOR N/A Address
(i) Name John Eves	Addicoo
Address 2929 Linden St. N.W.	7 (ii) COAL OWNER(S) WITH DECLARATION ON RECORD
Uniontown, OH 44685	Name Name
(ii) Name John & Stanley Pittman	Address
Address P. O. Box 10	
Reader, WV 26167	7 (iii) COAL LESSEE WITH DECLARATION ON RECORD:
(iii) Name	Name
Address	Address
Addiess	
	to debit Born and the following documents:
TO THE PERSON(S) NAMED ABOVE: You should na	ave received this Form and the following documents:
 (2) The plat (surveyor's map) showing to the construction and Reclamation Plato plug a well), which sets out the reclamation for the site and access 	lan on Form WW-9 (unless the well work is only e plan for erosion and sediment control and for
WHICH ARE SUMMARIZED IN THE "INSTRUCTIONS" (THAT YOU HAVE RIGHTS REGARDING THE APPLICATION ON THE REVERSE SIDE OF THE COPY OF THE APPLICATION, YOU ARE NOT REQUIRED TO TAKE ANY ACTION AT ALL.
proposes to file or has filed this Notice at Well Work Permit with the Director of the Director of the Director of the Director, with respect to a well at the local depicted on attached Form WW-6. Copies of Construction and Reclamation Plan have been	est Virginia Code, the undersigned well operator and Application and accompanying documents for a ivision of Oil and Gas, West Virginia Department cation described on the attached Application and this Notice, the Application, the plat, and the mailed by registered or certified mail or delivor by publication in certain circumstances) on or e Director.
The person signing this document shall make following certification:	the
"I certify under penalty of law that I	
personally examined and am familiar wiinformation submitted in this document attachments and that, based on my inquithose individuals immediately responsible obtaining the information, I believe the second	and all iry of ble for By Timothy P. Roush
information is true, accurate, and com	
am aware that there are significant pe	- (0.0.)

submitting false information, including the

possibility of fine and imprisonment.