



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

Well Operator's Report of Well Work

		-		*				
Farm name:	UNDERWOOD,	DONALD		Operator	Well No.: 1	D. UNDERWO)OD #1	
LOCATION:	Elevation:	1,230.00	Quadr	angle: SA	ALEM BARREL			
	Latitude:	1400 Fe	et Sout	h of 39	Dunty: DODDI Deg. 20Min Deg. 35 Min	. Sec.		
Company: PET	ROLEUM DEVE	LOPMENT C	OR -		-			
P. (O, BOX 26		1	Casing	Used in	Left	Cement	: 1
	DGEPORT, WV		026	& Tubing	Drilling	 in Well	Fill U Cu. Ft	p
Agent: ERI	C R. STEARN	5						
Tanana kara 1		202		Size	2			
	MIKE UNDERW ed:			11 0//11				
Well work Co	ommenced:	01/20/94		11 3/4"	178'	178'	1112 sks	_
Well work C		02/04/94				1	1	
Verbal Plug	ging	•		0 5/011	1928'	10001	, 77	
Permission	granted on:				1940	1928	4// SKS	
Rotary "	Cable	Rig			CONTRACT			ĺ
Total Depth	(feet)	5441'		4 1/2"	5386	53861	505 010	
	depths (ft						707 202	
200; 355;	1431 depths (ft)							
n/a	depens (10)	*****	***************************************		<u> </u>	1	<u> </u>	
Is coal bei	ng mined in	area (Y/	/N)? _N		1	1	I	
Coal Depths	(ft): _{n/a}	, ,	W					
_						· · · · · · · · · · · · · · · · · · ·	···	
OPEN FLOW D	ATA							
_								
Produc	ing formati nitial open inal open f ime of open	onE	Benson		Pay zone	depth (ft) 5263-52	267
Gas: 1	nitial open	ILOW	158 MCF,	/d O11: II	nitial open	tlow	0 Bb1	./d
, r	ime of open	flow bet	119 MCF,	/a Fi	inai open r	TOM	$\frac{1}{0}$ BD1	./a
Static	rock Press	ure 120	oneen in	illiai and	e pressure)	after -	<u>4</u> Hou	115
564616	100% 11000	120	DO P31.	y (Sarrac)	e pressure,	arcer	<u> </u>	115
Second	producing	formation	ח		Pay zone	depth (ft)	
Ģas: I	nitial open	flow	MCF,	/d Oil: I	nitial open	flow	Bbl	I/d
F	inal open f	low	MCF,	/d F	inal open f	low		l/d
T	ime of open	flow bet	tween in	nitial and	d final tes	ts		ırs
Static	rock Press	ure	psi	g (surfac	e pressure)	after	Ног	ırs
	q							
INTERVALS, LOG WHICH	CK OF THIS FRACTURING IS A SYSTE OAL ENCOUNT	OR STIME	JLATING FAILED	, PHYSIC. GEOLOGIC.	AL CHANGE,	ETC. 2).	THE WE	ELL
		For: 1	PETROLE	UM DEVELO	PMENT CORP.	Leve		<u>></u>
]	Ву:	Eric R.	Stearns			
			Date:	March 7	7 1994			
					,	····		

DONALD UNDERWOOD #1

STAGE	FORMATION	PERFS	SKS	SKS	GAL	N7 (MCF)
lst	Benson	17 (5263' - 5267')	50	480	500	67

WELLLOG

FORMATION	TOP FEET BOTTOM FEET	WATER, COAL, OIL & GAS
KB - GL sand, shale, RR Maxton	0 10 10 2030 2030 2119	1/2" water @ 200' 1/2" water @ 355'
sand, shale	2119 2205	hole damp @1431'
Big Lime	2205 2288	and object 200/1/0/10 at an in in
sand, shale	2288 2292	gas chk @ 2284' 2/10 thru 1" w/water
Big Ínjun	2292 2382	
sand, shale	2382 2532	gas chk @ 2440' 2/10 thru 1" w/water
Weir	2532 2621	gas one & 2440 2/10 child I wywater
sand, shale	2621 2713	gas chk @ 2655' 2/10 thru 1" w/water
Berea	2713 2742	8 C
sand, shale	2742 3006	gas chk @ 2938' 2/10 thru 1" w/water
Gordon	3006 3074	
sand, shale	3074 3279	gas chk @ 3121' 10/10 thru 2" w/water
5ch ,	3279 3330	
sand, shale	3330 3583	gas chk @ 3398' 10/10 thru 2" w/water
Warren	3583 3696	
sand, shale Speechley	3696 3713	
sand, shale	3713 4067	gas chk @ 3989' 20/10 thru 2" w/water
Balltown	4067 4092	
sand, shale	4092 4429	gas chk @ 4486' 8/10 thru 2" w/water
Bradford	4429 4443 4443 4619	gas chk @ 4800′ 8/10 thru 2" w/water
sand, shale		gas chk @ 5160' 8/10 thru 2" w/water
Riley	4619 5058 5058 5210	gas chk @ 5285' 10/10 thru 2" w/water
sand, shale	5210 5258	gas chk @ 5347' 10/10 thru 2" w/water
Benson	5258 5322	gas chk @ TD 14/10 thru 2" w/water
sand, shale	5322 5441	gas chk @ Collars 12/10 thru 2" w/water Driller TD
, , , , , , , , , , , , , , , , , , , ,	5426	·
	5420	Logger TD

State of West Virginia Div

DATE:	12/5/00	
API#:	47-17-4088	
	1	
	/i	

Division of Environmental Protection Section of Oil and Gas	Reviewed A
Well Operator's Report of Well Work	planter resource control of the co

Farm name: Under	wood	Ope	rator Well No.		
LOCATION: Elevation:	230	Qua	drangle: 🧲	1em 7/2	
District: M^{\leq}	PellAN Feet South of	Cou	nty: り。	da hiras	
Latitude:	Feet South of	Deg.	Min.	Sec.	
Longitude	Feet West of	Deg.	Min.	Sec.	
Company: Osra. De	u. Corp.	Casing &	Used in	Left in well	Cement fill
		Tubing	drilling		up Cu. Ft.
Address:					
Accordo		ļ			
Agent:			ļ		
Inspector: Date Permit Issued:		-	<u> </u>		
		1			
Date Well Work Commenced:		 	ļ		
Date Well Work Completed:	·	<u> </u>	ļ ģ	MECEIPEI	
Verbal Plugging:		1		Office of Cal & Ga Pormitting	3
Date Permission granted on:					
Rotary Cable	Rig		S S	JEEB 0 1 20	01
Total Depth (feet):					
Fresh Water Depth (ft.):				Vay unasion of Environmental Prote	-Van
			\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	F1144 G144 G17	A STATE OF THE PERSON NAMED IN COLUMN TO STATE OF THE PER
Salt Water Depth (ft.):					
Is and hairs wind in the Call	37.0	ļ			***************************************
Is coal being mined in area (N/		<u> </u>			
Coal Depths (ft.):	MARKET LANGUAGE	- Section - Sect			
OPEN FLOW DATA					
Producing formation		Pay 70	one depth (ft)		
Gas: Initial open flow_	MCE/A Oil.	Initial open fl	om achii (ii)	Rh1/d	
Final open flow	MCE/A D	inal open flore		501/U 51/A	
Time of ones flow b	ivici/u F.	mai open now	B	-σ <i>μ</i> α	
Time of open flow b	etween miliai and i	mai tests	Hour	TS .	
Static rock Pressure	psig (surfac	e pressure) an	erHo	urs	
Second producing form	ation	Pay zon	e denth (ft)		
Gas: Initial open flow_		Initial open fle	w F	Rb1/d	
Final open flow	MCE/d Fi	nal open flow	D	501/d 51/a	
Time of open flow b	otyroon initial and f	inal open now	Hour		
				_	
Static rock Pressure	psig (surface	e pressure) aft	erHo	ırs	
NOTE: ON BACK OF THIS INTERVALS, FRACTURING LOG WHICH IS A SYSTEM INCLUDING COAL ENCOU	G OR STIMULATIN MATIC DETAILED	G, PHYSICAL GEOLOGICAL	CHANGE, E	TC. 2). THE WEI	LL

Signed:

FEB 2 3 2000

Die frae uphale 3 eine:

1) GORDON (Parts: 3016-22(95hots)

3058-62'(35hofs)

Lot wille mouth glug @ 3100'

- 2) Franc abuse zone of 40,000 # 20/40 320 dad20,000 GABUIKING X-1iNK.
- 3) Cleanwell up, Knock aut glug and return to Graduction. Note: 35 Fractural

FORM WY- 2B 6

0/7-4088 Loqued 01/26/94 Expues, 01/26/96

STATE OF WEST VIRGINIA DEPARTMENT OF ENERGY, DIVISION OF OIL AND CO

	- ·	MELL AC	EV-SEKWII-	YSSTICATION		12
				Corporation		
o Cperator	's Well	lumber: Do	nald Under	wood #1	3) Ele	vation:1230'
% Well typ	e: (a) (or Gas	XXX/		
	(6)	£ Cas:	Production	K <u>XX</u> / Undergr	ound Storage	
Proposition			Deep		Shallow	MATERIAL PARTIES AND
			(s): <u>Bensor</u>			
			500			
· · · · · · · · · · · · · · · · · · ·					0',365',960',	1350'
				1735',17		
9) Approxim	nate coal	seam dep	ths:	445',915	5',960'	
10) Does lar	nd contain	coal se	ams tribut	ary to acti	ve mine? Ye	s/ Noxxx
	Well Wor	· k :			* *	
12)	***	4		late new wel	.1	
				NG PROGRAM		
TYPE	S	PECIFICAT	CONS	FOOTAGE IN	TERVALS	CEMENT
	Size	<u> Grade</u>	Weight per ft.	For drilling	Left in	Fill-up
Conductor	11 3/4	H-40	42#	30/175	-/175	-/surface
Fresh Water		en de la companya del la companya de			PX	Carshall-3
Coal		٤.			ME IR	Jost Muly
Intermediate	8 5/8	H-40	20/23	1230/1925	1230/1925	390R18112
Production	4 1/2	J-55	10.5	5500'	5500'	450 sks
Tubing						0 -001 111
Liners					3	85818-11-6
PACKERS : KI	AND DESCRIPTION OF THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAMED					
A V \ /	zes oths set					
	F.	27,01V150	on of Oil a	and Cas Use	0014	
nee(s)	Darida (X	4)	Vork Permit	1-A	amation Fund	
Plat i	WW-9		70	Of Physics		KA A
				X X	Type)	Agen

		. " ' '	Date: dandary 20, 1994
Form	WW2-A	2)	Operator's well number
(10-	-91)	M ₄	Operator's well number D. Underwood #1
(2 4	,	3)	
		, , , , , , , , , , , , , , , , , , ,	7.000
		V No.	State - County - Permit
		e i de de la Colonia de la	
		STATE OF WES	
	DIVISI	ON OF ENVIRONMENTAL PROT	ECTION, OFFICE OF OIL AND GAS
		- Carana Car	
		NOTICE AND APPLICATION	FOR A WELL WORK PERMIT
4)	Surface O	wher(s) to be carried.	5) (a) Coal Operations
- La y	/- / 17	wner(s) to be served: Donald L & Thelma Underwood	5) (a) Coal Operator:
	() = (Name
	Address	Rt. 2, Box 134	Address
		Salem, WV 26426	
	(D) Name		(b) Coal Owner(s) with Declaration
	Address _		Name No declaration on record
			Address
	(c) Name		
	Address		
	Address _		Name
			Address
6)	Inspector	Mike Underwood	(c) Coal Lessee with Declaration
• /			
	Hudress	Rt. 2, Box 135	Name
		Salem, WV 26426	Address
	Telephone	(304)- 782-1043	
		TO THE DEDCOMICS MANDED IN	
		TO THE PERSON(S) NAMED A	BOVE TAKE NOTICE THAT:
	Transland		
	THE THUEL	is the lease or leases o	r other continuing contract or
CODE	racte by	is the lease or leases of	r other continuing contract or
cont	racts by w	hich I hold the right to	extract oil and gas OR
XXX	racts by windled	hich I hold the right to is the information requi	extract oil and gas <u>OR</u> red by Chapter 22B. Article 1.
XXX	racts by windled	hich I hold the right to is the information requi	extract oil and gas <u>OR</u> red by Chapter 22B. Article 1.
XXX	racts by wi Included ion 8(d) o	hich I hold the right to is the information requi: f the Code of West Virgi	extract oil and gas <u>OR</u> red by Chapter 22B, Article 1, nia (see page 2)
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