

8175

DB 88 PZ04 UNION LAND MANAGMENT CO. DB 95 P 518 JOHN A. SMITH HEIRS DB 8 P 284 'CLEO HAWK 300 AC TR1 DB 41 P 389 DB 95 P518 LOCATION UNION LAND Stone. MANAGMENT CO Pile DB 103 P47 stone pile in fen. cor. whiteoak, 2 chestnut oak Stone pile in fen. Twin chest oak & Maple UNION LAND MANAGMENT CO DB 95 P 518 WALTER D GUTHRIE R.P DB 42 P 204 16" Redoak Set stone in fan cor Redoak 2-chestnut Oak 4 pine R.P. **(3**) 16" leaning Redoak

BILLIE HALT

FILE NO. BK 93 PG 4 DRAWING NO ... SCALE 1"= 1000 MINIMUM DEGREE OF ACCURACY 1: 200 PROVEN SOURCE OF ELEVATION USGS UE POINT 5162 N.E. of location El 2517

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 THE REGU-LATIONS ISSUED AND PRESCRIBED BY THE DEPART-MENT OF MINES.

(SIGNED)_

PLACE SEAL HERE

LOC.

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

FORM IV-6 (8-78)



R.P.E.

STATE OF WEST VIRGINIA DEPARTMENT OF MINES

DATE APRIL 20 OPERATOR'S WELL NO. 2178 API WELL NO. BISMARCK PROSPECT

023 0011-STATE COUNTY PERMIT

Fracture Cancelled

OIL AND GAS DIVISION WELL TYPE: OIL. _GAS.≱_LIQUID INJECTION_ . WASTE DISPOSAL

(IF "GAS,") PRODUCTION & STORAGE ___ DEEP & SHALLOW.

LOCATION: ELEVATION 2885.68 WATER SHED HEADWATERS ELKLICK RUN DISTRICT UNION COUNTY GRANT

QUADRANGLE GREENLAND GAP

ACREAGE 1001.70

1).Us 92

SURFACE OWNER UNION LAND MANAGMENT CO OIL & GAS ROYALTY OWNER UNION LAND MANAGMENT CO

LEASE NO. 178680

PROPOSED WORK: DRILLX_CONVERT___DRILL DEEPER_ __REDRILL___FRACTURE OR

_PLUG OFF OLD FORMATION___PERFORATE NEW STIMULATE_

FORMATION.__OTHER PHYSICAL CHANGE IN WELL (SPECIFY)_

PLUG AND ABANDON. **CLEAN OUT AND REPLUG**

TARGET FORMATION ORISKANY ESTIMATED DEPTH 9100' DESIGNATED AGENT JOSEPH VANZANT P.O. DRAWER 40 PO DRAWER 40 ADDRESS_

BUCKHANNON WY 26201

BUCKHANNON WY 26201

BUCKHANNON WV 26201 BLAS BLUEPRINT INC. Huntington

SCALE 1"= 1000 MINIMUM DEGREE OF ACCURACY __ 1: 200 PROVEN SOURCE OF ELEVATION USGS UE POINT 5162' N.E. of localion El 2517

FILE NO. BK 93 PG A

(+) DENOTES LOCATION OF

WELL ON UNITED STATES

TOPOGRAPHIC MAPS

WELL TYPE: OIL _

FORM IV-6

(8-78)

DRAWING NO ..

DB 8 P 284

CLEO HAWK

DB 41 P 389

Stone Pile

UNION LAND MANAGMENT CO DB 95 P 518

(IF "GAS,") PRODUCTION ___STORAGE_

LOCATION: ELEVATION 2885.68

DISTRICT UNION

SURFACE OWNER UNION LAND MANAGMENT CO

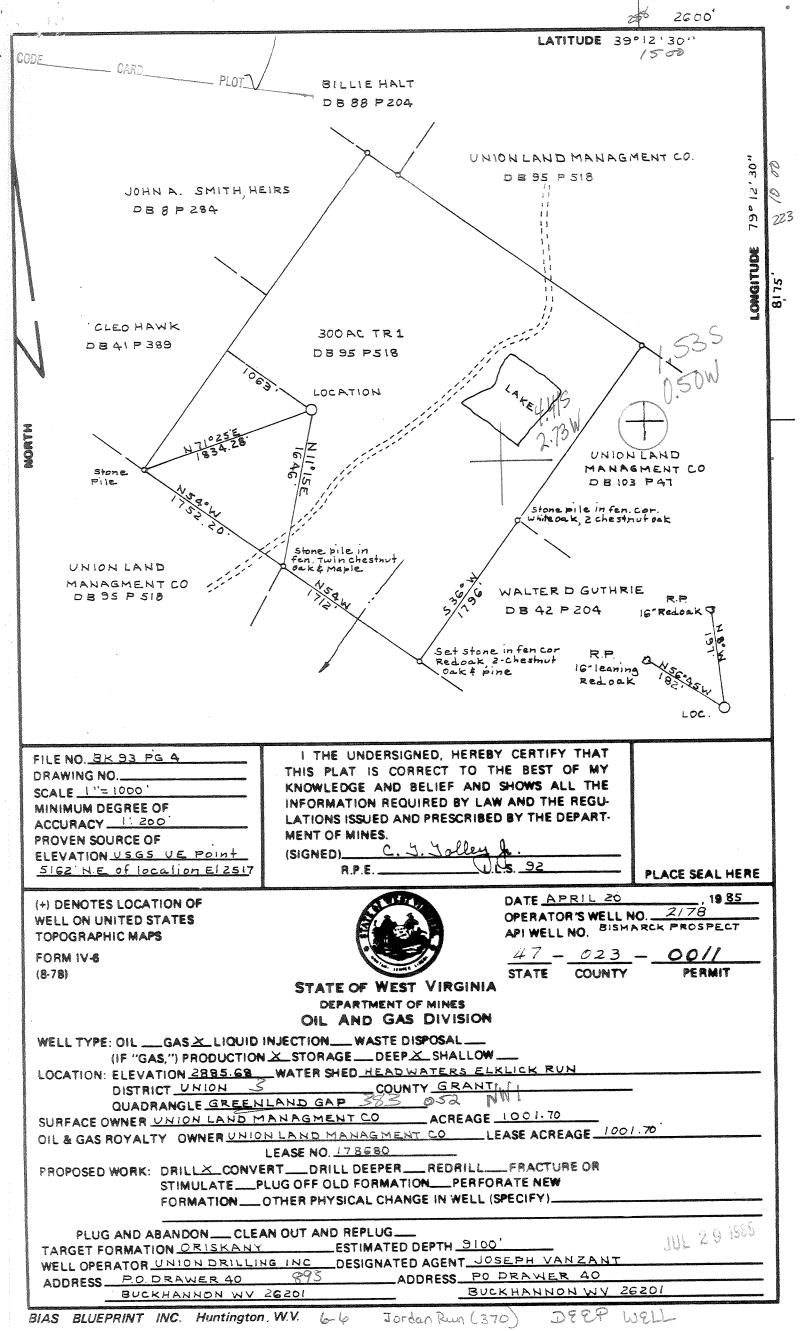
OIL & GAS ROYALTY OWNER UNION LAND MANAGMENT CO

LEASE NO. 178680

PROPOSED WORK: DRILLX_CONVERT___DRILL_DEEPER.

PLUG AND ABANDON_ _CLEAN OUT AND REPLUG.

P.O. DRAWER 40



IV-35 (Rev 8-81)

RECEIVED DEC 1 0 1986

DIVISION OF OIL & GAS DEPARTMENT OF ENERGY

State of West Firginia

Pepartment of Mines Oil und Cas Nivision

Date	pec	ember	4, 19	86				
Operator's Well No. 1 - 2178								
Well No. 1 - 21/8								
Farm Union Land Management #								
API No. 47 - 023 - 0011								
(CONFIDENTIAL WELL)√								

WELL OPERATOR'S REPORT

OF

DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

WEIL TYPE: Oil / (If "Gas,"	Gas <u>x</u> / Liqui Production	id Injection _/ Undergro	on/Wast	e Disposal re/ Deer	L/ DXX_/ Shal	llow/)
LOCATION: Elevation:	2885 ° Wa	atershed 1	Headwaters 1	Elklick Rur	1	
	nion Co					nd Gap
				-		
COMPANY Union Drilling	, Inc.					
ADDRESS P.O. Drawer 40	, Buckhannon,	WV 26201	Caşing	Used in	Left	Cerent fill up
DESIGNATED AGENT Jose	ph C. Pettey		Tubing	Drilling	in Well	• 1
ADDRESS P.O. Drawer 40	, Buckhannon,	WV 26201	Size			-
SURFACE CWNER Union La	nd Management	Company	20-16 Cord.			Rought/9599-9-
ADDRESS Box 466, Hernd	on, VA 22070)	13-10"	40.00	40.00	
MINERAL RIGHIS OWNER_	same		9 5/8	2446.70		1121 cf
ADDRESS		· · · · · · · · · · · · · · · · · · ·	8 5/8			
OIL AND GAS INSPECTOR I	FOR THIS WORK		8 3/0			
Donald Ellis ADDRESS 2	604 Crab Apple	Lane, Fai	rm brit,		024	
PERMIT ISSUED		WV 20	3343 1/2		9343.52	' 1074 cf
DRILLING COMMENCED			4 1/2	•		
DRILLING COMPLETED			3		0040 704	
IF APPLICABLE: PLUGGI			2.375		8942.79'	
CONTINUOUS PROGRESSION	FROM DRILLIN	G OR	Liners			
REWORKING. VERBAL PER ON_	MISSION OBTAL	NED 	used			:
GEOLOGICAL TARGET FORM	ATION	riskany		Dep	th 9100'	feet
Depth of complete	d well 9349'	feet	Rotary xx	x_/ Cabl	e T∞ls	
Water strata dept	h: Fresh 17,	97' feet;	Salt	feet		
Coal seam depths:	none		_ Is coal	being min	ed in the	area?
OPEN FLOW DATA .						
Producing formati	on Orisi	kany	Pay	y zone dep	th 9078	' feet
Gas: Initial oper Final open	flow N/A?	Mcf/d	- 12/12/04 - Kir Fii	nal open f	low	Bbl/d
	of open flow b					
Static rock press				•		
(If applicable du	ie to multiple	completio	n)			
Second producing		_		y zone dep	th	feet
Gas: Initial ope						
	flow					
-	of open flow b					-
Static rock press					-	
		J	انت المالية المالية المالية		D.	EC 1 5 1906
				'(Conti	rue on re	verŝe side

DETAILS OF PERFORATED INTERVALS, FRACTURING OR STITULATING, PHYSICAL CHANGE, ETC.

Halliburton - 1 stage Foam Frac - 12/20/85

8934/42, 8955/59, 9032/38, 9047/51, 9061/9068, 9077/78

Oriskany - 95,000# sand, 1717 bbls water and 167,000 scf nitrogen

WELL LOG

				REMARKS
FORMATION	COLOR HARD OR SOFT	TOP FEET	BOTTOM FEET	
			187	1/2" stream fresh water @17'
	Sand & Shale	0	705	3/4" stream fresh water @97'
	Big Lime	187 712	742	3/4 Stream Tresh water 497
	Injun	712	1588	
	Pocona©	1589	2831	
	Hampshire	2832	2940	
	Fore Knobs (Chemung)	2941	3144	
	Pound Sandstone	3454	3661	
	Brien Gap Sandstone	4650	6793	
	Scherr	6794	7908	
	Brallier Harrell Shale	7909	8076	
		8077	8093	-
	Tully Horizon	8094	8513	
•	Mahantango Upper Marcellus	8514	8640	
	Lower Marcellus	8709	8766	
	Needmore Shale	8782	8911	•
	Oriskany	8912	9141	
	Helderberg	9151	9349' T.1	
\$6P	neiderperd	7231	11 orthography orthography and date of participation of agreement of a	
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		2000 CT		
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(Attach separate sheets as necessary)

Union Drilling, Inc.

Well Operator

By:

Date: Joseph C. Pettey, Vice President of Production

12/4/86

Note: Regulation 2.02(i) provides as follows:

"The term 'log' or 'well log' shall mean a systematic detailed geological record of all formations, including end, encountered in the drilling of a well."

Dasuel 6/28/88 Expires 6/28/9
Page 2 of 6

FORM WW-2B

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

			WELL WOL	6070		1/0155	9 989				
1)	Well Oper	ator:I	<u>Equitable I</u>	Resources Ex	ploration, Inc	<u>: 10155 .</u>	1 300				
2)	Well Operator: Equitable Resources Exploration. Inc. 16155 3, 383 Operator's Well Number: WVGO2178 3) Elevation: _2885_										
4)	Well type	e: (a) 0	i1/	or Gas	<u> </u>		÷				
	(b) If Gas: Production_x/ Underground Storage/ Deepx_/ Shallow/										
5)	Proposed Target Formation(s): Shriver Chert 486										
6)	Proposed Total Depth: 9349 feet										
7)	Approxima	ate fresh	water s	trata dept	hs: 17; 97		·				
8)	Approxima	ate salt	water de	pths: nor	ie						
9)	Approxima	ate coal	seam dep	ths: none	· · · · · · · · · · · · · · · · · · ·		-				
10)	Does land	d contain	coal se	ams tribut	ary to acti	ve mine? Ye	s/ No_x/				
11)	Proposed	Well Wor	k: Clea	n-out to ori	ginal TD, Frac	Shriver Chert	•				
12)				C AND THE	NG PROGRAM						
					FOOTAGE IN	TERVALS	CEMENT				
TYPE		<u> </u>	ECIFICAT	1003	i oomoo ii						
		Size	Grade	Weight per ft.	For drilling	Left in well	Fill-up (cu. ft.)				
Cond	uctor	13 3/8			40	40 /	To surface				
	h Water					AM					
Coal						GIMP					
	rmediate	9 5/8			2446.70	2446.70	To surface				
	uction	5 1/2"			9343.52	9343.52	As required				
Tubi		2.375			8943	8943	2000				
Line						DIEC	EUV [5]				
	ERS : Kin	đ				JUN JUN	06 1988				
.10	Siz	ths set .					OF OIL & GAS				
49	.57	F	or Diviso	on of Oil	and Gas Use	Only	NT OF ENERGY				
古	Fee(s) paid: Well Work Permit Reclamation Fund WPCF										
	Plat	Ww-9	WW.	-2B	Bond 503les	mfolt Tune 1	Agent				
110			V	U		(Type)	_				

Page 1 of Form WW2-A (09/87) File Copy



DIVISION OF OIL & GAS DEPARTMENT OF ENERGY

4)	4	na:	t e		Carlos	May	25,	1988
- 1	ě		1:/ CX	•••	•		1		

2) Operator's well number

) API Well No: 47 - 023 - 0011 -FRAC. State - County - Permit

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

NOTICE AND APPLICATION FOR A WELL WORK PERMIT

4) Surface Owner(s) to be served:	5) (a) Coal Operator:
(a) Name Union Land Management CO.	Name
Address Box 466	Address
Herndon, VA 22070	(b) Coal Owner(s) with Declaration
(b) Name	Name Union Land Management Company
Address	Address Box 466
	Herndon, VA 22070
(c) Name	Name
Address	Name
	Address
and the state of t	(c) Coal Lessee with Declaration
6) Inspector Phillip Tracy	
Address P. O. Box 2536	Name
Elkins, WV 26241	Address
Telephone (304)- 636-8798	The second secon
	The state of the s
TO THE PERSON(S) NAMED A	BOVE TAKE NUTICE THAT:
Included is the lease or leases o	r other continuing contract or
tien that the right to	AYTYACT DII ANU YOS OK
the intormation recui	red by chapter zzb/
_	roanter //n of the west via grant
	nd application, a focación pros/ on-
and a second provided the	1 9 Ou fue above named barrios/57
n Corrigo (AttidaVIII.	arracheoi
Y cortified Mail (Postmarked D	ostal receipt attached,
Publication (Notice of Publi	ication attached)
I have read and understand Chapte	er 22B and 38 CSR 11-18, and I agree
	cwir iggned nuder chira appricación.
- 1 · C - tr Ot - W T	Jar. Uand Dergondria evamine and am
a see the factor and the first seems to be a seem to be a	ad on this application form and are
	11 PV OF THOSE HULLVILLES INC.
responsible for obtaining the information	tion, I believe that the information
T am aware that there are signif	icant penalties for submitting false
information including the possibility	y or line and imprisonment.
Well Operato	r Equitable Resources Exploration, Inc.
By: Louds	DOUGLAS P. TERRY
Its: ber	ations Manager - North
Address P. O	
	hannon, WV 26201
	304) 472-4610
Subscribed and sworn before me this 2	5th day of May , 19 88
. / > / /	
Turk D. Car	Notary Public
My commission expires Wesenkler	1 23.1997
try Commission Caption	The second secon
	The state of the s
	· 新南京中鄉中華中華的北京新鄉中華中國大學 · · · · · · · · · · · · · · · · · · ·

FORM IV-2(B) (Obverse)



1)	Date: May	8,	, 19	85
2)	Operator's Well No.	2178		
3)	API Well No.	47	023-0011	
-,		State	County	Permit

OIL & GAS DIVISIONATE OF WEST VIRGINIA DEPARTMENT OF MINES, OIL AND GAS DIVISION DEPT. OF AMELICATION FOR AWELL WORK PERMIT

4) WELL TY						/ TTm d.m.m.m.d.ob.m		/ Dan VV	(Shallan ()
5) LOCATIO							eadwaters El	_/ Deep <u>XX</u> klick Run	_/ Shallow/)
) LOCATIO		trict: Un	_			County: Gran			reenland Gap
6) WELL OP				nσ.	Inc. 80	3 7			C. Pettey
Address			ce Dra						Drawer 40
Address	***************************************	khanno	***************************************		201			Buckhannon,	
8) OIL & GA			······································		<u> </u>		DRILLING CO	· · · · · · · · · · · · · · · · · · ·	
,	Donald 1		DE NOTH	لانقة		,		Drilling. I	nc
Address			Apple	Lan	۵	- Commission - Com	Address	Post Office	
Addies		rmont,	* *	2655		-	22001033	Buckhannon,	
10) PROPOSE		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			_/ Drill	deener	/ Dadrill	/ StimulateX	
10) FROFOSE	.D WELL V	VOKK.					e new formation_		/
			-						
11) GEOLOGI	וראז דאסו	SET EAD							
						feet		\	
•	-	-						feet	
								area? Yes	/ No XX /
15) CASING		-			***************************************	Es COan	being minee in the	arca: 103	
CASING OR	il		IFICATIONS		åi.	FOOTAGE IN	TEDVAIS	CEMENT FILL-UP	PACKERS
TUBING TYPE	G		Weight	ı				OR SACKS	
-	Size	Grade	per ft.	New	Used	For drilling	Left in well XNXX 30'	(Cubic feet)	Maria di
Conductor	13-3/8			<u>X</u>		400	400	CTS by	7 ele 15.05
Fresh water						700	700	C/3 M	
Coal	h F/0			v	 	75001	75001	to aux.	Sizes
Intermediate	9-5/8 5-1/2			X		3500'	3500' 9100'	to surface	644 04 84 15
Production	p-1/2		-	<u>X</u>	1	9100'	<u> </u>	as required	Bookspee Mile 10-
Tubing				 					P-C
Liners					1				Perforations:
				ļ		-			Top Bottom
	1				1				
A	<u>ii</u>	L	1	<u> </u>	1		The state of the s	<u> </u>	11
				<u></u>		FFICE USE O	NI V		
		······································				RILLING PER			
•	,						*******		- 1 10
Permit number	47	-023-0	0011						July 19 19 85
								Da	
									nce with the pertinent legal re-
No. 8) Prior to	the construc	onamons tion of ro	comamed ads. locat	ione an	and on the l d nits for ar	reverse hereor. Not iv permitted work.	If ication must be gi	ell operator or his cor	l and Gas Inspector, (Refer to atractor shall notify the proper
district oil and	gas inspecto	r 24 hour	s before a	ctual p	ermitted wo	rk has commenced	.)	•	, , ,
The permitted v	work is as de	escribed in	the Notic	ce and .	Application,	plat, and reclamat	tion plan, subject to	o any modifications a	and conditions specified on the
reverse hereof.					••	•			
Permit expires	Ju	ly 19	, 1987			unless well v	work is commenced	prior to that date and	prosecuted with due diligence.
<i></i>									
Bond:	Agen	it:	Plat:	Casi	ng I	Fee			
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			MAT		11 00	100	16)	The line	
							1	Juine	
NOTE T					2_1111 1 -	.:	Admi Director OD	Evision of A	Dil and Gas il. & Gas
NOTE: Keep	one copy of	this pern	nit posted	at the	arilling loca	tion.	DITECTOR OF	ECTOIL DE DE	File