

(Revise : 3-51)



Well h	۱o	A. S.	0-	6		
Farm	West V	irgin	ia I	nvestme	nt Corp) (
API #7	+7 - 08	5 - 54	50			
Date	Dece	mber	30,	1981		

STATE OF WEST VIRGINIA OFFICE OF OIL AND GAS - DEPARTMENT OF MINES

OIL AND GAS WELL PERMIT APPLICATION

WELL TYPE: Oil x / Gas x /	
	erground storage / Deep / Shallow /
OCATION: Elevation: 883.77 Watersho District: Grant County:	
	E. Cairo 7.5
Address 194-A Eastland Avenue	DESIGNATED AGENT Darus Zehrbach
Morgantown, WV 26505	Address 194-A Eastland Avenue Morgantown, WV 26505
OTE AND GAS OYALTY OWNER West Virginia Investment, Inc	
Address Philadelphia, PA	Address
Acreage 493	
SURFACE OWNER TO THE TOTAL TO THE TOTAL TO	COAL OWNER(S) WITH DECLARATION ON RECORD:
Address Philadelphia, PA	Address N/A
Acreage 493	NAME
TELD SALE (IF MADE) TO:	Address
NAME	
Address	COAL LESSEE WITH DECLARATION ON RECORD:
ALL AND CAS INSPECTOR TO BE NOTIFIED	Address
ALL AND GAS INSPECTOR TO BE NOTIFIED:	female many
Address Rt. 1, Box 65	RECEIVED
Sand Ridge, WV 25274	JAN 1 4 1982
Telephone 655-8693	
	OIL AND GAS DIVISION WV DEPARTMENT OF MINES
10 the undersigned well operator from Sto	ckade Petroleum Corporation
Model had, Tosse, or other contract has	· · · · · · · · · · · · · · · · · · ·
	139 Book at page 407 . A permit is
PROPOSED WORK: Drill X / Drill Dopper	/ Redrill/ Fracture or stimulate/
Plug off old formation Other physical change in	/ Perforate new formation /
planned as shown on the	work order on the reverse side hereof.
The drove named coal operator, coal owner(s) The tion they wish to make or are required Coartment of Mines within fifteen (15) days wies of this Permit Application and the en ailed by registered mail or delivered by ha	, and coal lessee are hereby notified that any to make by Code \$22-4-3 must be filed with the safter receipt of this Application by the Dept aclosed plat and reclamation plan have been and to the above named coal operator, coal own-ref the mailing or delivery of this Application est Virginia.
	TECHWELL, INC. Well Operator
SEST VIRGINIA OIL AND GAS SNSERVATION COMMISSION By	
113 WASHINGTON ST., E.	Darus Zehrbach
19 10 11 11 11 11 11 11 11 11 11 11 11 11	: President

(Revised 3-81)

PROPOSED WORK ORDER

THIS IS AN ESTIMATE ONLY:
ACTUAL INFORMATION MUST BE SUBMITTED ON FORM IV-35 UPON COMPLETION

	ACTUAL I	NFORMAT	ION MUST	BE S	UBMITT	TED ON FO	RM 1V-35	UPON COMPLET	ION
DRILLING	CONTRACT	OR (IF I	KNOWN)	Pan I	Easter	n Drillin	ng Corp.	TO A COLUMN TO THE REAL PROPERTY OF THE PROPER	
		Ac	ddress	Rt. 2	2, Box	44AA			
				Lowel	L1, OH	45744	(614) 373-	-6384	
Approx Approx	L TARGET ted dept imate wa imate co l being (h of con ter stra al seam	npleted ata dept depths:	well_ hs: N/A	Fresh, A	, 200	et. Rota feet;	ry <u>x</u> / Cab salt, 1,800	le tools/ feet。
CASING AN	D TUBING	PROGRAM	4						,
CASING OR		SPE	CIFICATI	ONS		FOOTAGE	INTERVALS	CEMENT FILL	1 PACKERS
TUBING TY	1		Weight					UP OR SACKS	
	Size	Grade	per ft	New	Used	ling	Well	Cubic ft.	
Conductor	10	<u> </u>		X	<u></u>		40	To surface	Kinds
Fresh wate	<u>er</u>	l							t
Coal				ļ					Sizes
Intermed.			23	X		1,900	1,900	To surface	
Productio	n 4-1/2	J-55	10.5	X		5,800	5,800	To surface	Depths set
Tubing				ļ		ļ 		·	i
Liners					 			1	Perforations:
				-	 		-		Top Bottom
	- 				 		 	·	:
cop the Regi For 822 reqi 822 pose A se where sour	ies of Form provided in IV-9, -4-12b and in IV-9, -4-8a from ed well. eparate fraction and in Code, the ing	orm IV-2 escribed 12, or a "Reclamond Regul Code 82 om the o Form IV- uring or is noted POSIED A secondance location i This p	2 must b 1 by Reg in lieu ation Pl lation 2 22-4-12a owner of -2 shall c stimul d as suc ATTHE W with Cha shereby o ermit shall 9-24-	e fil ulati there an" a 3, (i , and any not ating h on ELL SII pprove expire 782	ed wit on 11, of the pplica v) unl (v) i water be req is to	th the De (ii) a (ii) a cother s able to t less prev f applic well or quired for the part prm IV-2	epartment, bond in or security a che reclamore the check of the war filed in a check o	ne of the for llowed by Cook ation required in the same consent required within 200 features for which connection the connecti	by (i) a plat in ms prescribed by de \$22-4-2, (iii) ed by Code me well, the fee wired by Code eet of the producting a well ha permit is herewith.
or ois is The unders location harea of the	igned co as exami e well l no obje tor has	see who sued wind all operation cation to complie	has recthin fif ator s propos , the we o the wo d with a	orded teen own led we ll lo	a dec (15) d W A L ell location coposed	elaration lays of r V E R / lessee cation. n has bee d to be o	under Cooreceipt the	<pre>de \$22-4-20, ereof: the coal und map exists o the mine m is location,</pre>	any coal owner if the permit er this well which covers the ap. The under- provided the irginia Code and
Date:		, 19		•		-			The state of the s
					В	y:			V

Its:



IV-35 (Rev 8-81)

State of West Wirginia

Bepartment of Mines
Oil and Gas Pivision

Date	May 24,	1982
Operator's	3	
Well No	D-6	
Farm W.V.	Investment	Corp.
ADT No.		

WELL OPERATOR'S REPORT

OF

DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

WELL TYPE: Oil x / Gas x / Liquid Inject (If "Gas," Production / Underg	ion/ Wast	ce Disposa ge/ Dee	l/ p/ Sh	allow/)
LOCATION: Elevation: 887 Watershed	Goose Creek	of Hughes	River	
_ · · · · · · · · · · · · · · · · · · ·	Ritchie			.eum
COLORADA.				
COMPANY TECHWELL, INC.				
ADDRESS 194-A Eastland Ave. Morgantown, WV	Caşing	Used in	Left	Cement
DESIGNATED AGENT Darus Zehrbach	Tubing	Drilling	in Well	fill up Cu. ft.
ADDRESS Same	Size			
SURFACE OWNER WV Investment Corp.	20-16 Cond.			
ADDRESS Philadelphia, PA	13-10"			
MINERAL RIGHTS OWNER Same	9 5/8			
ADDRESS	8 5/8	000		
OIL AND GAS INSPECTOR FOR THIS WORK	7	800	800	To surface
Doe Mace ADDRESS Sand Ridge, WV				
PERMIT ISSUED	5 1/2			
DRILLING COMMENCED 2-11-82	4 1/2		5520	500 Sks.
DRILLING COMPLETED 3-11-82	3			
IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED ON	Liners used			
GEOLOGICAL TARGET FORMATION Marcellus Shale		7	- <i></i>	
Depth of completed well 5520 feet	Dotor	Dept		feet
Water strata depth: Fresh 60 feet;	colt		TOOLS	
Coal seam depths:		feet	•	
	_ IS COAL I	ceing mine	d in the	area?
OPEN FLOW DATA				
Producing formation Brallier Shale	Pay	zone dept	h <u>3850</u>	feet
Gas: Initial open flow show Mcf/d	Oil: Init	ial open	flow_sho	ow_Bbl/d
Final open flow (1,500) Mcf/d				
Time of open flow between ini	tial and fin	al tests_	96 hou	irs
Static rock pressure 780 psig(surfa	ce measureme	ent) after	72 hour	s shut in
(If applicable due to multiple completion				
Second producing formation diamond dist	Pay	zone depti	n3350	feet
Gas: Initial open flow show Mcf/d	·Oil: Init	ial open :	Elow show	v Bbl/d
Final open flow 500 Mcf/d	Oil: Fina	l open flo	w 20	
Time of open flow between ini-				
Static rock pressure 840 psig(surface	e measuremen	t) after	72 hour	s shut in
		i ya		

12-3-84 (Continue on reverse side)

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

Two Staged Nitrogen Foam:

39 Hole/Stage

50,000 lb. Sand/Stage

1,018,000 $\rm N_2$ /Stage 300 BBL $\rm H_2O/Stage$

WELL LOG

FORMATION COI	OR HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
Soil		0	60	Jan Garage
Maxon		1565	1600	
Big Lime		1643	1764	
Big Injun		1770	1890	
Gantz		2390	2410	-
Gordon		2700	2728	Show Gas
Chemung Shal	.e	3096	3510	Shop Oil
Brallier Sha	ale	3510	4775	Show Gas
Hamilton Sha	ale	5104	5590	Show Gas
Marcellus Sh	ale	5590	5670 ⁻	
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			5667	56 70 2390
			Smor GR199	3290
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(Attach separate sheets as necessary)

Well O	perator	
By:	The state of the state of the	
Date:		- W - See