

IV-35 (Rev 8-81)



## State of Mest Airginia Well No. W.F. SMITH #4

Bepartment of Mines Gil und Cas Zivision

Date OCTOBER 15, 1984 Operator's Farm W.F. SMITH, et al API No. 47 - 017 - 3344

WELL OPERATOR'S REPORT

## OF DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

WELL TYPE: Oil/ Gas_xx/ Liquid Inject:  (If "Gas," Production/ Undergo	round Stora	ge/ Dee	p/Sh	
LOCATION: Elevation: 827' Watershed G	ORBY RUN OF	NUTTER FOR	RK OF MID	DLE ISLAND CR
District: WEST UNION County DOI	DDRIDGE	Quadrangl	e WEST	UNION
YMDANIV.				
COMPANY OUAKER STATE OIL REFINING CORP.	<u> </u>			
ADDRESS P.O. BOX 1327; PARKERSBURG, WV 26101	Casing	Used in	Left	Cement
ESIGNATED AGENT CARL J. CARLSON	Tubing	Drilling	in Well	fill up Cu. ft.
DDRESS P.O. BOX 1327: PARKERSBURG, WV 26101	Size			
URFACE OWNER KERMIT & NEILIE BENSON, RT. 2	20-16 Cond.			
DDRESS WEST UNION, WV 26456	13-10"		30 '	
INERAL RIGHTS OWNER W.F. SHITH, et al	9 5/8			
DDRESS C/O UNION NAT'L BANK; P.O. BOX 1450		926'	926 '	120 00
IL AND GAS INSPECTOR FOR THIS WORKW VA 2630	2' 7	740	926	130 SX
IKE UNDERWOOD ADDRESS RT 2, BOX 114; SALEM, WV	5 1/2			
1200031 13, 1704	4 1/2	4920'	49201	430 SX
RILLING COMMENCED SEPTEMBER 12, 1984	3	4320	4520	430 84
RILLING COMPLETED SEPTEMBER 18, 1984	2			
F APPLICABLE: PLUGGING OF DRY HOLE ON	- 2			
ONTINUOUS PROGRESSION FROM DRILLING OR EWORKING. VERBAL PERMISSION OBTAINED				
N	used			
POLOGICAL TARGET FORMATION ALEXANDER		Dent	h	
D-11 d	Rotary XX			095 feet
Water strata depth: Fresh N/A feet;	Salt w/	/ Cable	10015	
Coal seam depths: N/A	Ts coal	heing mine	d in the	0 1 2
EN FLOW DATA	_ == +	chy whe	a mi me	area? NO
Producing formation BENSON/RILEY	Dave	zono donti	h	
Gas: Initial open flow 500 Mcf/d	Oile Toid	zone depo	4758/	4308 feet
Final open flow 100 Mcf/d	Cit.	al esem 5	ETOM N	/A BbL/d
Time of open flow between init	enta -ial and fi:	ar obeu in	N	/A Bbl/d
Static rock pressure 2100 psig(surface	Tal all III	MI TESTS	8 hou	irs
(If applicable due to multiple completion	e neasurene . I	ant, after	72 hour	es shut in
				-
Second producing formation	Oil. Tay	zone depti	1	feet
ACCOUNT TITLETET CICION INC.	orr: Init	nar oben i	TOM	Bbl/d
Gas: Initial open flow Mcf/d Final open flow Mcf/d	O-1	il open fla	<b>Tu</b> 2	Ph1 /4
Final open flow Mcf/d	Oil: Fina	- open m		BDI/d
Final open flow Mcf/d  Time of open flow between init  Static rock pressure psig(surface	ial and fir	al tests	hou	rs

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

PERFORATED BENSON FROM 4758 - 4764' WITH 18 SHOTS. FRACTURED WITH

484 BBLS, 25# GEL + N2, 400 SX 20/40 SAND. BREAKDOWN @ 2100#. TREATED

@ 2500#. AVG. RATE 21 BPM. ISIP 1600#. 5 MIN. 1425#.

PERFORATED RILEY FROM 4308 - 4346' WITH 50 SHOTS. FRACTURED W/ 300 BBLS. 15% HCl & N2, 100 SX 20/40 SAND. BREAKDOWN @ 2400#. TREATED @ 2600#. AVG. RATE 30 BPM. ISIP 3550#.

## WEIL LOG

FORMATION COLOR HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
SHALE SAND SHALE AND SILT SAND SHALE AND SILT SAND SILT AND SHALE SAND SHALE SAND SILT AND SHALE LITTLE LIME BIG LIME BIG INJUN SHALE WEIR SHALE BEREA SHALE GORDON SHALE 5th SAND SHALE WARREN SHALE SPEECHLEY SHALE RILEY SHALE RILEY SHALE BENSON SHALE ALEXANDER SHALE ALEXANDER	0 245 265 362 400 1007 1025 1267 1370 1433 1551 1679 1699 1792 1891 2046 2142 2253 2257 2446 2501 2669 2676 3125 3180 3699 3704 4308 4353 4757 4762 5095	245 265 362 400 1007 1025 1267 1370 1433 1551 1679 1699 1792 1891 2046 2142 2253 2257 2446 2501 2669 2676 3125 3180 3699 3704 4308 4353 4757 4762 5095 5311	BROKEN

(Attach separate sheets as necessary)

OUAKER STATE OIL REFINING CORPORATION
Well Operator
By: MICHAEL C. BRANNOCK

Date: OCTOBER 15, 1984

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 wal, encountered in the drilling of a well."

FORM IV-2(B) (Ohverse) 7-83





l)	Date:	July	23,	. 19 84
	Operator's Well No	W.F.	SMITH	# 4
3)	API Well No.	47 -	-017-	3344
		State	County	Permit

## STATE OF WEST VIRGINIA OIL & GAS DIVISIONEPARTMENT OF MINES, OIL AND GAS DIVISION DEPT. OF MINESELICATION FOR A WELL WORK PERMIT

4) WELLTY									
	В	(If "Gas",	Production	on	<u> </u>	/ Underground	storage	/ Deep	/ Shallow/)
5) LOCATIO	ON: E	levation: .		82	4-1-	Watershed: [	orby Run of	Nutter Fork	of Middle Island C
			West		on	County:	Doddridge	Quadrangle:	West Union 7.5
6) WELL OF					HL RE	F. CORP.	7) DESIGNATE	DAGENTCar	rl J. Carlson
Addres	is		_ Box				Address		D. Box 1327
					WV	26101			rkersburg, WV 26
8) OIL & GA							9) DRILLING C	ONTRACTOR:	
Name						<u>ood</u>		Smith Dr	illing
Addres			2, Bo				Address	P.O. Box	
	"Sa	lem.	WV	<u> 2642</u>	6	<del></del>			ville, IL 62439
10) PROPOSE	ED WELL	WORK:	Drill	X	_/ Drill	deeper	/ Redrill	/ Stimulate	
			Plug o	ff old	formation	Perfor	ate new formation		
			Other p	hysical	change is	n well (specify)			
II) GEOLOGI	ICAL TAR	GET FOR	RMATION	·	Alexa	ander			
12) Estima	ated depth	of comple	ted well,		5200	feet			
13) Appro	ximate tra	ta depths:	Fresh, _		30	feet; salt,	175 ?	fcet.	
14) Appro	ximate coa	ıl seam der	oths:		360		al being mined in the		/ NoX/
15) CASING	AND TUB	ING PRO	GRAM					- u.cu. 165	
CASING OR	N	SPEC	IFICATION	5	ľ	FOOTAGE 1	NTERVALS	CEMENT FILLUP	ft Browns
TUBING TYPE	Size	Grade	Weight per ft.	New	Used	For drilling	1	OR SACKS	PACKERS
Conductor				1.0	0000	Tot dettaing	Left in well	(Cubic feet)	
resh water	8 5/8	H40	24	¥		390	200	<del> </del>	Kinds
oal	1	1130	1				390	C.t.s.	NEAT
ntermediate			<del> </del>					-	Sizes
roduction	4 1/2	J55	9.5	X		5200	E300	250	
ubing	2	.T	4.5	X		3200	5200	250 sx cmt.	Depths set
iners			7.5				5200	or as	required by
						· · · · · · · · · · · · · · · · · · ·		<del> </del>	Personatorelle 15.01
						· · · · ·	12.6		Top Bottom
								-	
			<u> </u>		11				
				-		OFFICE USE O	NIT W		
		· · · · · ·				DRILLING PER			
						DRILLING PER	CMIT		
rmit number_	4	7-017-	3344					August	15, 19 84
								Dat	e
us permit cover	ring the we	ll operato	r and well	locatio	n shown	below is evidence of	f permission grante	d to drill in accordan	ice with the pertinent legal re-
			CTIPMETTICON I	TOT OFFI CT	nd An Hic	TEACTOR HELGOT - MUUT	STREAM PAGE No. of	incom to the District A Cat	1 10 1 -
						any permitted work.  Ork has commenced.		ell operator or his con	tractor shall notify the proper
verse hereof.					ppucation	, piat, and reclamat	ion plan, subject to	any modifications a	nd conditions specified on the
rmit expires _	Αt	igust :	15, 19	86		unless well u	Ork is commenced	meion to that data and	
							OIR IS COMMENCED	prior to that date and	prosecuted with due diligence.
Bond:/23	Anant	. –	lat.	Carlo					** **
מליים	Agent	·   P	lat:	Casing	4	Fee			/
Blanket	m	)   <i>Y</i>	ו עת	m	1 17	225	2/1	- / 0 /	1/
			/		1771		1 laran	not IN	600
						=	/ Louis		
OTE: Keep on	e copy of	this permi	t posted at	the dri	lling loca	tion.	/ / / mir	nistrator, Office of O	ii and Gas
									File
		See t	he reverse	side of	the APP	LICANT'S COPY f	or instructions to t	ha 10 4	- Int