

IV-35 (Rev 8-81)





## STATE OF WEST VIRGINIA DEPARTMENT OF MINES

Date August 15, 1984

Operator's

Well No. A-1365

Farm Maxson

API No. 47 - 085 - 6858

OIL 4 LAS DIVISION DEPT. OF MINES

## OIL and GAS DIVISION

WELL OPERATOR'S REPORT

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

21222307 1127 011 2 2					
WELL TYPE: OIL / GAS X / LIQUID INJECTION / (If "Gas", Production / Undergroun	WASTE DI d Storage	SPOSAL/ / Deep/	Shallow	<u>xx</u> _/)	
COCATION: Elevation: 1188'	Wate	rshed Otte	erslide C	reek	
LOCATION: Elevation: 1188' District: Union County	: Ritchi	e Qua	drangle:	Oxford 7.	.5'
				-	
COMPANY ALAMCO, INC 200 West Main Street					•
ADDRESS Clarksburg, West Virginia 26301	Casing &		Left	Cement fill up	
DESIGNATED AGENT ALAMCO, INC	Tubing	Drilling	in Well	Cu. Ft.	
200 West Main Street	Size				
ADDRESS <u>Clarksburg, West Virginia 26301</u> Elva Maxson Heirs	20-16 Cond.				
SURFACE OWNER Gertrude Howell, Agent	win.				-
SORPACE OFFICE GETCLE IDWCITY 194.15	11-3/4"				
ADDRESS Rt. 1, Box 145, Mt. Clare, WV 26408 Elva Maxson Heirs	9 5/8"				
MINERAL RIGHTS OWNERGertrude Howell, Agent	8 5/8"	1205'	1205'	to surfac	
ADDRESS Rt. 1, Box 145, Mt. Clare, WV 26408		1203	1203	w surra	
OIL AND GAS INSPECTOR FOR THIS WORK Samuel_	7"				$\dashv$
	5 1/2"			/2.60	
Hersman ADDRESS P.O. Box 66, Smithville, WV	4 1/2"	5288'	5288 <b>'</b>	w/760 sks 1600'	
PERMIT ISSUED February 2, 1984	3	3200			
DRILLING COMMENCED June 21, 1984	2		-		
DRILLING COMPLETED June 27, 1984					
IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED ON	Liners used				
GEOLOGICAL TARGET FORMATION Alexander		DEPTH	5500		FEET
Depth of completed well 5500 fe	et Rotar	v x /	Cable	Tool <b>s</b>	
Water Strata depth: Fresh 40	300 100	2		Salt	
Coal seam depth: None listed		Is coal bei			
OPEN FLOW DATA					
Producing formation Alexander, Benson, 1					
Gas: Initial open flow 2 Mcf/d	oil:	Initial ope	n flow		_Bb1/
Final open flow 1710 Mcf/d					_Bb1/0
Time of open flow between in					
Static rock pressure 1600 psig (surface) (If applicable due to multiple completion		nt after	<u>48</u> h	purs shut-i	n
/rr abbitcapte and m materiale combinerion.		Dat <i>t 1</i> 00	ne denth		foot
Second producing formationMcf/d		Initial ~~	n flow		/ 
Gas: micrat open flowFCI/d	mr:	mircial Ope	flow 		/ /
Final open flow Mcf/d					/\
Time of open flow between ini					
Static rock pressure psig (surface me	asurement.				
		(CONTINU	e on reve	erse side)	

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

Well was fractured

July 10, 1984

Perforations:

4379 - 4382 5175 - 5177 5192 - 5200 Alexander

4384 - 4385 4501 - 4506 Riley

4808 - 4811

4818 - 4820 4850 - 4856

4888 - 4890 Benson

WELL LOG

FORMATION COLOR HARD OR SOFT	TOP FEET	BOTIOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
Red Rock Sand & Shale Iittle Lime Sand & Shale Big Lime Injun Sand & Shale	6 18 40 83 93 333 352 392 468 479 508 760 797 820 885 1965 1992 2005 2110 2120	18 40 83 93 333 352 392 468 479 508 760 797 820 885 1965 1992 2005 2110 2120 5500 T.D.	Gas check @ 2020' No show Gas check @ 2357' 6 MCF/D Gas check @ 2972' 4 MCF/D Gas check @ 3439' 7 MCF/D Gas check @ 3532' 9 MCF/D Gas check @ 4242' 6 MCF/D Gas check @ 4714' 8 MCF/D Gas check @ 5196' 7 MCF/D Gas check @ 5500' 2 MCF/D  GaMMA RAY LOG TOPS  Weir 2287' Gordon Stray 2671' Gordon 2775' Speechley 3348' Balltown 3753' Riley 4364' Benson 4804' Alexander 5048'

(Attach separate sheets as necessary)

Date: August 15, 1984

ALAMO	O, INC.	
Well Operator		
By: Spane St.	mervello/dk	
-	0	

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 coal, encountered in the drilling of a well.



)	Date:	January	3,	19_84
	_			

2) Operator's Well No. A-1365

State

3) API Well No.

A-1365 Maxson 47 - 085 - 6858

County

Permit

## STATE OF WEST VIRGINIA DEPARTMENT OF MINES, OIL AND GAS DIVISION APPLICATION FOR A WELL WORK PERMIT

B (if "Gas") Production	5) LOCATION: Elevation: 1188! Watershed: Otterslide Creek District: Union County: Ritchie Quadrangle: Oxford 7.5 mi  6) WELL OPERATOR Alamco, Inc. 7) DESIGNATED AGENT D. I. Wheeler Address P. O. Box 1740 Address P. O. Box 1740 Clarksburg, WV 26301  8) OIL & GAS INSPECTOR TO BE NOTIFIED 9) DRILLING CONTRACTOR: Name Samuel N. Hersman Name Development Drilling Address P. O. Box 66 Address P. O. Box 1740 Clarksburg, WV 26301  0) PROPOSED WELL WORK: Drill deeper Redrill Stimulate Plug off old formation Perforate new formation Other physical change in well (specify)  1) GEOLOGICAL TARGET FORMATION, Alexander 12) Estimated depth of completed well, 5500 feet	<u> </u>
District: Union   County: Bitchie   Quadrangle: Oxford 7.5 min.	District: Union County: Ritchie Quadrangle: Oxford 7.5 mi  6) WELL OPERATOR Alamco, Inc. 7) DESIGNATED AGENT D. I. Wheeler Address P. O. Box 1740 Address P. O. Box 1740 Clarksburg, WV 26301 Clarksburg, WV 26301  8) OIL & GAS INSPECTOR TO BE NOTIFIED 9) DRILLING CONTRACTOR: Name Samuel N. Hersman Name Development Drilling Address P. O. Box 66 Address P. O. Box 1740 Clarksburg, WV 26301  0) PROPOSED WELL WORK: Drill Drill deeper Redrill Stimulate Plug off old formation Perforate new formation Other physical change in well (specify)  1) GEOLOGICAL TARGET FORMATION, Alexander 12) Estimated depth of completed well, 5500 feet	
6) WELL OPERATOR Alamco, Inc. Address P. O. Box 1740 Clarksburg, WV 26301  8) OIL & GAS INSPECTOR TO BE NOTIFIED Name Samuel N. Hersman Address P. O. Box 66  Drill deeper Redrill Stimulate Plug off old formation Perforate new formation OPEROPOSED WELL WORK: Drill Alexander  10) PROPOSED WELL WORK: Drill Alexander 11) GEOLOGICAL TARGET FORMATION, Alexander 12) Estimated depth of completed well, 5500 feet 13) Approximate trata depths: - Is coal being mined in the area? Yes OPERATION OF SACKES  CASING AND TUBING PROGRAM CASING OR SPECIFICATIONS Size Grade Per II. New Used For drilling Left in well Casing Or Sackes Casing Red. Size Grade Per II. New Used For drilling Left in well Conductor 16'' Y 20' 20' Cement to Size Fince NEAT Intermediate  No Perforations: Top Bottom  OFFICE USE ONLY	6) WELL OPERATOR Alamco, Inc.  Address P. O. Box 1740  Clarksburg, WV 26301  8) OIL & GAS INSPECTOR TO BE NOTIFIED  Name Samuel N. Hersman  Address P. O. Box 66  P. O. Box 66  Address P. O. Box 1740  Clarksburg, WV 26301  PROPOSED WELL WORK: Drill Drill deeper Redrill Stimulate  Plug off old formation Perforate new formation  Other physical change in well (specify)  1) GEOLOGICAL TARGET FORMATION, Alexander  12) Estimated depth of completed well, 5500 feet	
Address P. O. Box 1740  Clarkshurg, W 26301  8) OIL & GAS INSPECTOR TO BE NOTIFIED  Name Samuel N. Hersman  Address P. O. Box 66  Address P. O. Box 1740  Clarkshurg, W 26301  9) DRILLING CONTRACTOR:  Name Development Drilling  Address P. O. Box 1740  Clarkshurg, W 26301  0) PROPOSED WELL WORK: Drill Well (specify)  Plug off old formation Perforate new formation  Other physical change in well (specify)  1) GEOLOGICAL TARGET FORMATION, Alexander  12) Estimated depth of completed well, 5500 feet  13) Approximate trata depths: Fresh, feet; salt, feet, alt, well (specify)  14) Approximate coal seam depths: Is coal being mined in the area? Yes DRACKES  15) CASING AND TUBING PROGRAM  CASING OR SPECIFICATIONS  TUBING TIPP Size Grade Well, Weight New Used Per drilling Latt in well (Cable feet)  Onductor 16'' X 20' 20' Cement to Strength For drilling Latt in well (Cable feet)  One and 3-5/8'' 20# X 700' 700' Cement to Strength For drilling Latt in well (Cable feet)  Troubling Intervals  Troubling Perforations:  Top Bottom  OFFICE USE ONLY	Address P. O. Box 1740 Clarksburg, WV 26301 Clarksburg, WV 26301 Clarksburg, WV 26301 Clarksburg, WV 26301  8) OIL & GAS INSPECTOR TO BE NOTIFIED Name Samuel N. Hersman Address P. O. Box 66 Name Development Drilling Address P. O. Box 1740 Clarksburg, WV 26301  O) PROPOSED WELL WORK: Drill deeper Redrill Stimulate Plug off old formation Perforate new formation Other physical change in well (specify)  1) GEOLOGICAL TARGET FORMATION, Alexander 12) Estimated depth of completed well, 5500 feet	
Clarksburg, WV 26301  Clarksburg, WV 26301  Clarksburg, WV 26301  Samuel N. Hersman  Address P. O. Box 66  PROPOSED WELL WORK:  Drill W/ Drill deeper  Other physical change in well (specify).  GEOLOGICAL TARGET FORMATION,  Alexander  12) Estimated depth of completed well,  Approximate trata depths: Fresh,  Cashing AND TUBING PROGRAM  CASHING OR  CASHING OR  CASHING OR  SPECIFICATIONS  TUBING TYPE  Size Grade per ft.  Name Development Drilling  Address P. O. Box 17th O.  Clarksburg, WV 26301  Stimulate  Clarksburg, WV 26301  Stimulate  Feet salt,  — feet.  13) Approximate trata depths: Fresh,  — feet; salt,  — feet.  14) Approximate coal seam depths:  DIPT. OF IN  CASHING OR  CASHING OR  CASHING OR  SPECIFICATIONS  TUBING TYPE  Size Grade per ft.  New Weight New Used  For drilling  FOOTAGE INTERVALS  OR SACKS  (Cable feet)  OR SACKS  (	Clarksburg, WV 26301  8) OIL & GAS INSPECTOR TO BE NOTIFIED  Name Samuel N. Hersman  Address P. O. Box 66  PROPOSED WELL WORK: Drill Plug off old formation  Other physical change in well (specify)  1) GEOLOGICAL TARGET FORMATION, Alexander  12) Estimated depth of completed well, 5500 feet  Clarksburg, WV 26301  PRILLING CONTRACTOR:  Name Development Drilling  Address P. O. Box 1740  Clarksburg, WV 26301  Proposed WELL WORK: Drill deeper Redrill Stimulate  Plug off old formation Perforate new formation  Other physical change in well (specify)	
8) OIL & GAS INSPECTOR TO BE NOTIFIED Name Samuel N. Hersman Address P. O. Box 66 Address P. O. Box 1740  Clarksburg, WV 26301  PROPOSED WELL WORK: Drill Plug off old formation Perforate new formation Other physical change in well (specify)  OFFICE USE ONLY  Drill deeper Redrill Stimulate  Plug off old formation Perforate new formation  Clarksburg, WV 26301  Stimulate Plug off old formation Perforate new formation  Clarksburg, WV 26301  Stimulate Plug off old formation Perforate new formation  Clarksburg, WV 26301  Stimulate Plug off old formation Perforate new formation  Other physical change in well (specify)  10) GEOLOGICAL TARGET FORMATION, Alexander  12) Estimated depth of completed well, 5500 feet  13) Approximate trata depths: Fresh,	8) OIL & GAS INSPECTOR TO BE NOTIFIED  Name Samuel N. Hersman  Address P. O. Box 66  PROPOSED WELL WORK: Drill Drill deeper Redrill Stimulate  Plug off old formation Perforate new formation  Other physical change in well (specify)  OGEOLOGICAL TARGET FORMATION, Alexander  12) Estimated depth of completed well, 5500 feet	
Name Samuel N. Hersman Address P. O. Box 66  Address P. O. Box 66  Address P. O. Box 17h0 Clarksburg, WV 26301  Proposed Well Work: Drill Address P. O. Box 17h0 Clarksburg, WV 26301  Other physical change in well (specify)  Other physical change in well (specify)  Other physical change in well (specify)  Dill Address P. O. Box 17h0 Clarksburg, WV 26301  Stimulate X  Plug off old formation Perforate new formation Other physical change in well (specify)  Other physical change in well (specify)  Other physical change in well (specify)  Dill GEOLOGICAL TARGET FORMATION, Alexander  12) Estimated depth of completed well, 5500 feet  13) Approximate trata depths: Fresh, — feet; salt, — feet.  14) Approximate coal seam depths: — Is coal being mined in the area? Yes OR SACKS  OTHER SECTION OR SACKS  Clarksburg, WV 26301  DILL GEOLOGICAL TARGET FORMATION, Alexander  12) Estimated depth of completed well, 5500 or feet  13) Approximate coal seam depths: Fresh, — feet; salt, — feet.  14) Approximate coal seam depths: Fresh, — feet; salt, — feet.  15) CASING AND TUBING PROGRAM  CASING OR TUBING PROGRAM  CASING OR SACKS  COMBINETIFICATIONS  CEMENT FILLUP  OR SACKS  COMBINETIFICATIONS  COMBINETIFICATIONS  CEMENT FILLUP  OR SACKS  COMBINETIFICATIONS  COMBINETIFICATIONS  COMBINETIFICATIONS  CEMENT FILLUP  OR SACKS  COMBINET	Name Samuel N. Hersman  Address P. O. Box 66  Address P. O. Box 1740  Clarksburg, WV 26301  PROPOSED WELL WORK: Drill deeper Redrill Stimulate  Plug off old formation Perforate new formation  Other physical change in well (specify)  1) GEOLOGICAL TARGET FORMATION, Alexander  12) Estimated depth of completed well, 5500 feet	
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Clarksburg   W   26301	D) PROPOSED WELL WORK: Drill   Drill   deeper   Redrill   Stimulate   Plug off old formation   Perforate new formation   Other physical change in well (specify)    1) GEOLOGICAL TARGET FORMATION,   Alexander   12) Estimated depth of completed well,   5500   feet	7.7
PROPOSED WELL WORK:   Drill   Drill   deeper   Redrill   Stimulate   Stimula	Drill deeper Redrill Stimulate  Plug off old formation Perforate new formation  Other physical change in well (specify)  1) GEOLOGICAL TARGET FORMATION, Alexander  12) Estimated depth of completed well, 5500 feet	7.7
Plug off old formation	Plug off old formation/ Perforate new formation/ Other physical change in well (specify)  1) GEOLOGICAL TARGET FORMATION,Alexander  12) Estimated depth of completed well,5500feet	$\langle \nabla A \rangle$
Other physical change in well (specify)  12) GEOLOGICAL TARGET FORMATION, Alexander  12) Estimated depth of completed well, 5500 feet  13) Approximate trata depths: Fresh, - feet; salt, - feet.  14) Approximate coal seam depths: - Is coal being mined in the area? Yes ONG & XAS DISCOMMENT OF ACKERS  15) CASING AND TUBING PROGRAM  CASING OR SPECIFICATIONS Weight Per ft. New Used For drilling Left in well (Cubic feet)  Tresh water 3-5/8! X 20! 20! Cement to St Proceduction 1-1/2! X 20# X 700! 700! Cement to St Proceduction 1-1/2! X 550# X 5500! 5500! Req. by Rule Dright et al. Approximate Coal State of the Ackers of Top Bottom  OFFICE USE ONLY	Other physical change in well (specify)	
Alexander  12) Estimated depth of completed well, 5500 feet  13) Approximate trata depths: Fresh, - feet; salt, - feet.  14) Approximate coal seam depths: - Is coal being mined in the area? Yes ON & XAS DI  5) CASING AND TUBING PROGRAM  TUBING TYPE Size Grade Weight Per II. New Used For drilling Left in well Cable (rect)  Total Response of the completed well, 5500 Temper II. New Used For drilling Left in well Cable (rect)  Total Response of the complete well, 5500 Temper II. New Used For drilling Left in well Cable (rect)  Total Response of the complete well, 5500 Temper II. New Used For drilling Left in well Cable (rect)  Total Response of the complete well, 5500 Temper II. New Used For drilling Left in well Cable (rect)  Total Response of the complete well, 5500 Temper II. New Used For drilling Left in well Cable (rect)  Total Response of the complete well, 5500 Temper II. New Used For drilling Left in well Cable (rect)  Total Response of the complete well, 5500 Temper II. New Used For drilling Left in well Cable (rect)  Total Response of the complete well, 5500 Temper II. New Used For drilling Left in well Cable (rect)  Total Response of the complete well, 5500 Temper II. New Used For drilling Left in well Cable (rect)  Total Response of the complete well and the complete we	1) GEOLOGICAL TARGET FORMATION, Alexander 12) Estimated depth of completed well, 5500 feet	ا المعلى ال
12) Estimated depth of completed well,	12) Estimated depth of completed well, 5500 feet JAN 1	
13) Approximate trata depths: Fresh, feet; salt, feet.  14) Approximate coal seam depths: Is coal being mined in the area? Yes ONO & XAS DI  5) CASING AND TUBING PROGRAM  CASING OR TUBING TYPE  Size Grade Verit. New Used For drilling Left in well (Cubic feet)  Ordinator 16"		<del>7 198</del> 4
14) Approximate coal seam depths:		
CASING AND TUBING PROGRAM  CASING OR TUBING TYPE  Size Grade Perft. New Used For drilling Left in well (Cubic feet)  Conductor 16"  Tesh water 8-5/8"  Conda 8-5/8"  Condition 14-1/2"	14) Approximate coal seam depths: Is coal being mined in the area? Yes	DIVIS
CASING OR TUBING TYPE  Size Grade per ft. New Used For drilling Left in well  Conductor 16"  New Used For drilling Left in well  Conductor 16"  X 20' 20' Cement to Si respect or service and service		
TUBING TYPE  Size  Grade  per ft. New Used  For drilling  Left in well  Conductor  16''  Sees water  8-5/8''  Coal  8-5/8''  Coal  10-1/2''  10-50 # X  10	CASING OR SPECIFICATIONS FOOTAGE INTERVALS CEMENT FILLUP PACKERS	
Conductor   16"	OK SACKS	
S = 5 / 8	7(1)	
ntermediate roduction 4-1/2" 40 <sup>5</sup> 50 * X 5500 * 5500 * Req. by Rule Depths 191 ubing iners  Perforations: Top Bottom  OFFICE USE ONLY		
ntermediate roduction 4-1/2" 10530# X 5500	oal 8-5/8" 20# X 700' 700' Cement to Sir see NEAT	
ubing iners Perforations:  Top Bottom  OFFICE USE ONLY		
obing Perforations:  Top Bottom  OFFICE USE ONLY	roduction 4-1/2' 10 <sup>5</sup> 50# X 5500' 5500' Reg. by Rul   Deputs ser	
OFFICE USE ONLY		
OFFICE USE ONLY	iners Perforations:	
	Top Botto	m
DRILLING PERMIT		
ermit number 47-085-6858 February 2, 19 84	ermit number 47-085-6858 February 2, 19	84
Date	Date	