

4300

Note:

Location is at least 400' from all outside lease lines

There are no wells within 3000' of the Location.

LATITUDE 39-32-30 N

39° 35' 00"

7 1/2'

0.055
0-80W

Jamie
7/24/97

W. Fortney
34.276 ac.

W. Auston
63 ac.

Location
2072

A. McDonald
10 ac.

S. Nething
2 ac.

R. McDonald
2.44 ac.

N89-30E
203.00'

D. Mahaffey
1.293 ac.

D. Mahaffey
1.837 ac.

LONGITUDE 79-52-30 W

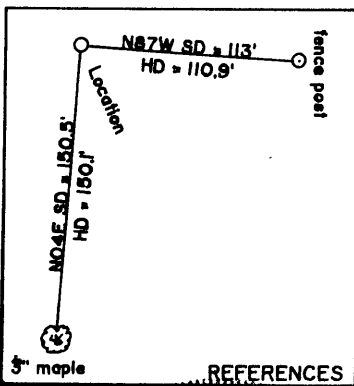
NORTH

Legend

- Unit lines
- Lines of a tract that lies within the unit.

(1/2" iron rod)

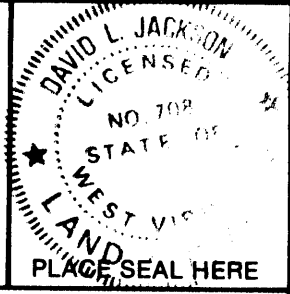
McMillen
Subdivision



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

FILE NO. _____
 DRAWING NO. 1
 SCALE 1" = 200'
 MINIMUM DEGREE OF ACCURACY 1 in 200
 PROVEN SOURCE OF ELEVATION Road junction 3300'
South of Location; elev. 1888'

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 REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF ENERGY.
 (SIGNED) David L Jackson
 R.P.E. _____ L.I.S. 708



STATE OF WEST VIRGINIA
 Division of Environmental Protection
 OFFICE OF OIL AND GAS

DATE February 13, 19 97
 OPERATOR'S WELL NO. 2072
 API WELL NO. 47-001-01279
 STATE COUNTY PERMIT

WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___
 (IF "GAS,") PRODUCTION X STORAGE ___ DEEP X SHALLOW ___

LOCATION: ELEVATION 1891 WATER SHED Beulah Hollow
 DISTRICT Morgan COUNTY Monongalia
 QUADRANGLE Morgantown South 7 1/2'

SURFACE OWNER Gary L. and Nora J. McMillen ACREAGE 8
 OIL & GAS ROYALTY OWNER Gary L. and Nora J. McMillen LEASE ACREAGE 8
 LEASE NO. 5308

PROPOSED WORK: DRILL X CONVERT ___ DRILL DEEPER ___ REDRILL ___ FRACTURE OR STIMULATE ___ PLUG OFF OLD FORMATION ___ PERFORATE NEW FORMATION X OTHER PHYSICAL CHANGE IN WELL (SPECIFY) New drill

PLUG AND ABANDON ___ CLEAN OUT AND REPLUG ___
 TARGET FORMATION Helderberg ESTIMATED DEPTH 8400
 WELL OPERATOR Alamco Inc. DESIGNATED AGENT Marly Perri
 ADDRESS P.O. Box 1740, Clarksburg, WV 26302-1740 ADDRESS P.O. Box 1740, Clarksburg, WV 26302-1740

FORM WVW-6

COUNTY NAME

PERMIT

DEEP WELL

6-6 313

JUL 25 1997

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

Well Operator's Report of Well Work

Farm name: McMILLEN, GARY & NORA Operator Well No.: 2072

LOCATION: Elevation: 1,891.00 Quadrangle: MORGANTOWN SOUTH

District: MORGAN County: MONONGALIA
Latitude: 350 Feet South of 39 Deg. 35Min. 0 Sec.
Longitude 4300 Feet West of 79 Deg. 52 Min. 30 Sec.

Company: ALAMCO, INC.
P. O. BOX 1740
CLARKSBURG, WV 26302-1740

Agent: MARTY L. PERRI

Inspector: RANDAL MICK
Permit Issued: 07/24/97
Well work Commenced: 08/05/97
Well work Completed: 08/29/97
Verbal Plugging _____
Permission granted on: _____
Rotary Cable _____ Rig _____
Total Depth (feet) 7891'
Fresh water depths (ft) 115'
Salt water depths (ft) _____

Is coal being mined in area (Y/N)? N
Coal Depths (ft): 45 - 49, 65 - 69

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
11 3/4"	325'	325'	To Surface 188 cu. ft.
8 5/8"	3019'	3019'	To Surface 1280 cu. ft.
4 1/2"	7892'	7892'	232 cu. ft.

OPEN FLOW DATA

Producing formation Huntersville Chert Pay zone depth (ft) 7440-7564
Gas: Initial open flow 471 MCF/d Oil: Initial open flow 0 Bbl/d
Final open flow 6,700 MCF/d Final open flow 0 Bbl/d
Time of open flow between initial and final tests _____ Hours
Static rock Pressure 3,290 psig (surface pressure) after _____ Hours

Second producing formation _____ Pay zone depth (ft) _____
Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
Final open flow _____ MCF/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests _____ Hours
Static rock Pressure _____ psig (surface pressure) after _____ Hours

NOTE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE.

For: ALAMCO, INC.

By: R. Mark Halseth
Date: 10/2/97

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WV Division of Environmental Protection
OCT 06 1997
Office of Oil & Gas Permitting

Formations: 0-733' from Drillers Log Book; 733' to TD from Gamma Ray Log

<u>Top</u>	<u>Bottom</u>	<u>Type</u>	<u>Water, Coal, Gas</u>	
0	4	Fill	<u>Water:</u> 1 1/2" @ 115'	
4	45	SD & SH		
45	49	Coal	<u>Coal:</u> 45' - 49'	
49	65	SD & SH	65' - 69'	
65	69	Coal		
69	340	SD & SH	<u>Oil:</u> None	
340	543	SD		
543	594	White SD	<u>Gas Checks:</u>	
594	620	SD & SH	884'	N/S
620	640	Red Rock	1833'	N/S
640	733	SH	1977'	N/S
733	748	Little Lime	2009'	N/S
748	784	SH	2102'	N/S
784	851	Big Lime	2718'	Odor
851	870	Keener	2906'	N/S
870	897	SH	3050'	N/S
897	1034	Big Injun	5578'	N/S
1034	1125	SH	6060'	N/S
1125	1215	Weir	6665'	N/S
1215	1333	SD & SH	7339'	N/S
1333	1398	Gantz/50'	7678'	421 MCFD
1398	1685	SD & SH	7709'	471 MCFD
1685	1694	Gordon	7770'	452 MCFD
1694	1933	SD & SH	7894'	377 MCFD
1933	1945	4th Sand		
1945	1987	SH		
1987	1996	5th Sand		
1996	2040	SD & SH		
2040	2099	Bayard		
2099	2707	SH		
2707	2734	Speechnrey	<u>Treatment and Perforations:</u>	
2734	2904	SH	Stimulation: 08/29/97	
2904	2919	Balltown	Perforations: (7440' - 7564')	
2919	7155	SH	30 Holes	
7155	7254	Tully		
7254	7454	SH	Frac: Huntersville Chert	
7454	7555	Marcellus	WF-30# gel system with	
7555	7568	Onondaga	15,000# 80/100 Sand and 60,000# 20/40	
7568	7709	Hntrsvl Chrt	Sand w/ 5% HCl throughout	
7709	7752	Needmore		
7752	7813	Oriskany		
7813	7891	Helderberg		
	7891	Drlg. T. D.		
	7930	Log T. D.		

RECEIVED
WV Division of
Environmental Protection
JUL 2 1997

Permitting
Office of Oil & Gas

1) Date: June 4, 1997
2) Operator's well number 2072
3) API Well No: 47 - 061 - 1279
State County Permit

STATE OF WEST VIRGINIA - BUREAU OF ENVIRONMENT
DIVISION OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS

NOTICE AND APPLICATION FOR A WELL WORK PERMIT

- 4) Surface Owner(s) to be served:
- (a) Name Gary L. McMillen & Nora McMillen
 - Address Route 3, Box 143-EE
Morgantown, WV 26505
 - (b) Name _____
 - Address _____
 - (c) Name _____
 - Address _____
- 5) (a) Coal Operator:
Name NO DECLARATION OF RECORD
Address _____
- (b) Coal Owner(s) with Declaration
Name Gary & Nora McMillen
Address Route 3, Box 143-EE
Morgantown, WV 26505
 - Name _____
 - Address _____
- 6) Inspector Randal Mick
Address 111 Blackshere Drive
Mannington, WV 26582
Telephone (304) - 288-4600
- (c) Coal Lessee with Declaration
Name NO DECLARATION OF RECORD
Address _____

TO THE PERSON(S) NAMED ABOVE TAKE NOTICE THAT:

Included is the lease or leases or other continuing contract or contracts by which I hold the right to extract oil and gas OR

Included is the information required by Chapter 22, Article 6, Section 8(d) of the Code of West Virginia (see page 2)

I certify that as required under Chapter 22 of the West Virginia Code I have served copies of this notice and application, a location plat, and accompanying documents pages 1 through ___ on the above named parties, by:

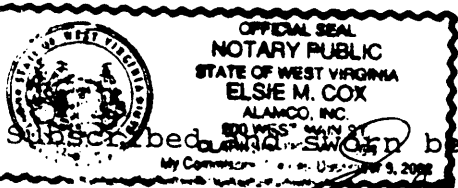
- Personal Service (Affidavit attached)
- Certified Mail (Postmarked postal receipt attached)
- Publication (Notice of Publication attached)

I have read and understand Chapter 22-6 and 38 CSR 11-18, and I agree to the terms and conditions of any permit issued under this application.

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete.

I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Well Operator ALAMCO INC.
By: Marty Bern
Its: Nice President - Land
Address P. O. Box 1740
Clarksburg, WV 26302-1740
Telephone 304 623-6671



Subscribed and sworn before me this 10th day of July, 1997

Elsie M. Cox Notary Public
My commission expires December 9, 2002

061-1279

STATE OF WEST VIRGINIA
DEPARTMENT OF ENERGY, DIVISION OF OIL AND GAS
WELL WORK PERMIT APPLICATION

Issued 07/24/97
Expires 07/24/99

24041

Well Operator: ALAMCO, INC. 010 975 (6) 485

Operator's Well Number 2072 3) Elevation: 1,891'

type: (a) OIL / or GAS XX/
(b) If Gas: Production XX/ Underground Storage /
Deep XX/ Shallow /

Proposed Target Formation(s): 463 Huntersville Chert

5) Proposed Total Depth: 8,400 feet

7) Approximate fresh water strata depths: 260'

8) Approximate salt water depths: 1,120'

9) Approximate coal seam depths: 160'

10) Does land contain coal seams tributary to active mine? Yes / No XX/

11) Proposed Well Work: SEE ATTACHED

12) CASING AND TUBING PROGRAM

TYPE SPECIFICATIONS FOOTAGE INTERVALS CEMENT

TYPE	SIZE	GRADE	WEIGHT PER FT	FOR DRILLING	LEFT IN WELL	Fill-Up (Cu. Ft.)
CONDUCTOR	16"	LS	32#	40'	-0-	NONE
FRESH WATER						
COAL						
SURFACE CSG	11-3/4"	J-55	32#	300'	300'	As required by 38 CSR 18-11-3 38 CSR 18-11-2
INTERMEDIATE	8-5/8"	J-55	24#	3,080'	3,080'	As required by 38 CSR 18-11-3 38 CSR 18-11-2
PRODUCTION	4-1/2"	M-75	11.60#	8,000'	8,000'	As required by 38 CSR 38-11-1

PACKERS: Kind NONE
Sizes
Depths Set

For Division of Oil and Gas Use Only

Fee(s) paid: Well Work Permit Reclamation Fund WPCP

Plat WW-9 WW-2B Bond Agent

RECEIVED
Division of Environmental Protection
JUL 23 1997
Office of Oil & Gas Permitting

WELL OPERATOR ALAMCO, INC.
OPERATOR WELL NO: 2072
FILE NUMBER 47-061- 1274

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WV Division of
Environmental Protection
JUL 23 1997
Permitting
Office of Oil & Gas

11. Proposed Well Work:

Well 2072 will be drilled to approximately 300' KB. The 11-3/4" casing will be set at approximately 300' KB and then cemented to surface. The 8-5/8" casing will be set at approximately 3,080' KB and then cemented as required by regs. The well will then be drilled to 8,000' KB and the 4-1/2" casing set at approximately 8,000' KB. The 4-1/2" casing will be cemented to 7,000' KB. The well will then be hydraulically fractured in the Huntersville Chert Formation.

12. Plan for partial abandonment:



STATE OF WEST VIRGINIA
OIL AND GAS CONSERVATION COMMISSION
#10 McJUNKIN ROAD
NITRO, WEST VIRGINIA 25143-2506

July 24, 1997

Division of Environmental Protection
Office of Oil and Gas
Nitro, West Virginia

Re: Application for Permit #47-061-01279 to drill deep well.

COMPANY: Alamco, Incorporated

FARM: McMillen #2072

COUNTY: Monongalia DISTRICT: Morgan QUAD: Morgantown South

The application of the above company is Approved for Huntersville Chert
(Approved or Disapproved)

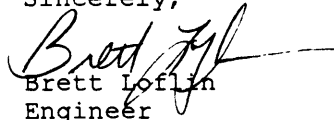
Applicant has complied with the provisions of Chapter twenty-two, eight (22-8), of the Code of West Virginia, nineteen hundred and thirty-one (1931), as amended, Oil and Gas Conservation Commission as follows:

1.) Provided a certified copy of duly acknowledged and recorded consent and easement form from all surface owner; **yes**

2.) Provided a tabulation of all deep wells within one mile of the proposed location, including the Api number of the deep well, well name, and the name and address of operator and; ***yes**

3.) Provided a plat showing that the proposed location is a distance of **600** feet from the nearest unit boundary and showing the following wells drilled to or capable of producing from the objective formation within 3,000 feet of the proposed location.

Sincerely,


Brett Loflin
Engineer

*3624 feet to 47-061-00336
3,730 feet to 47-061-01258
5,000 feet to 47-099-00321