

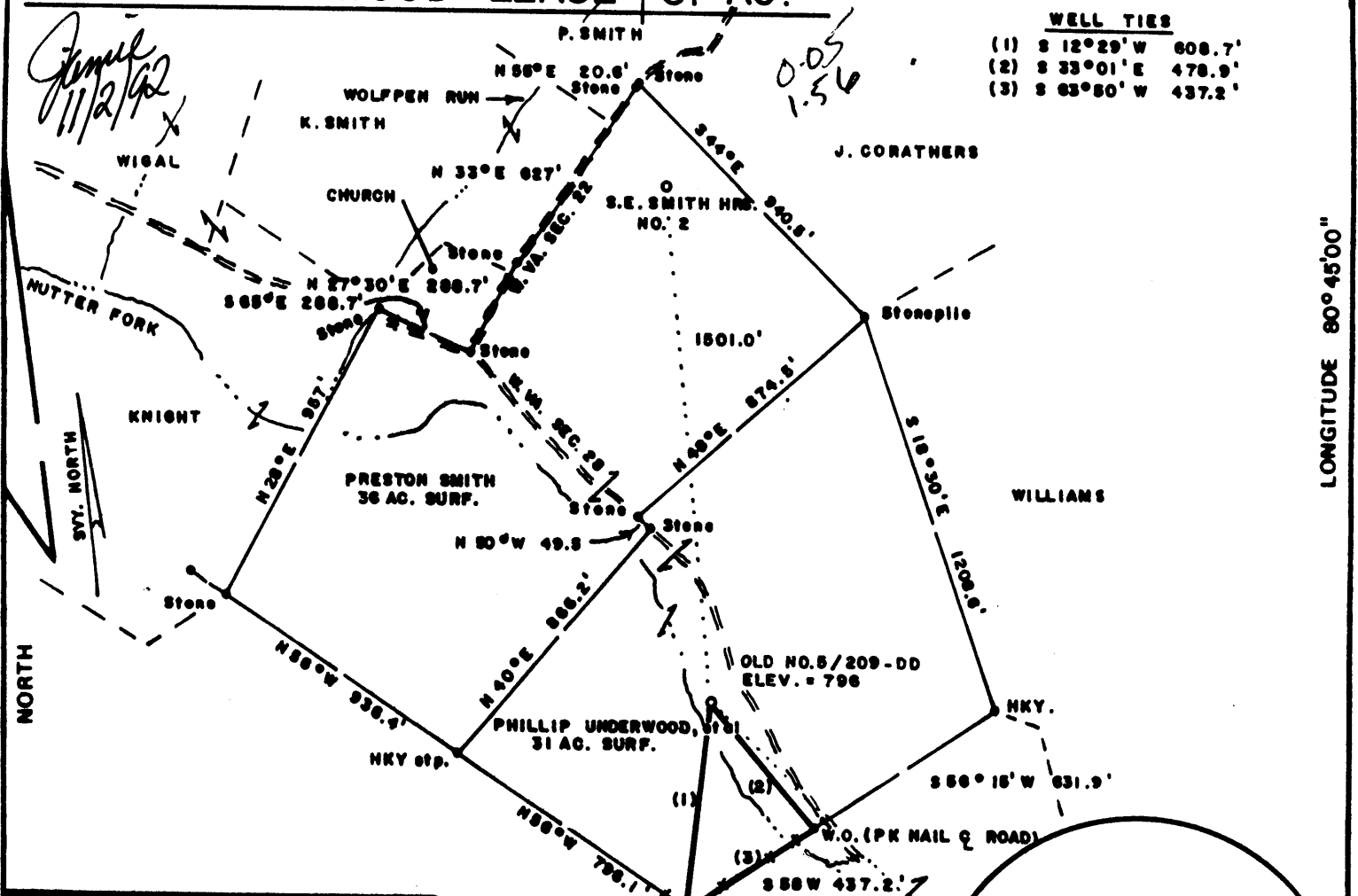
# SALLY UNDERWOOD LEASE 31 AC. ±

LATITUDE 38° 20' 00"

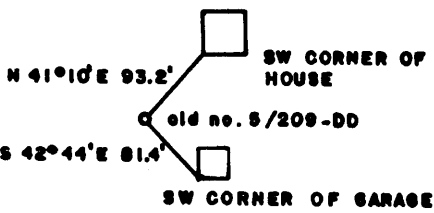
8270' W

### WELL TIES

- (1) S 12° 29' W 608.7'
- (2) S 33° 01' E 478.9'
- (3) S 63° 50' W 437.2'

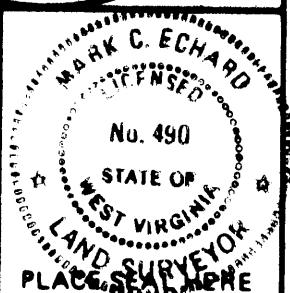


### WELL REFERENCES



FILE NO. \_\_\_\_\_  
 DRAWING NO. \_\_\_\_\_  
 SCALE 1" = 500'  
 MINIMUM DEGREE OF ACCURACY 1/200  
 PROVEN SOURCE OF ELEVATION JCT. OF ROADS  
WEST SIDE LEASE ELEV. = 801'

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 MINES.  
 (SIGNED) Mark C. Echard  
 MARK C. ECHARD  
 R.P.E. \_\_\_\_\_ L.L.S. 490



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS  
 FORM IV-6 (8-78)



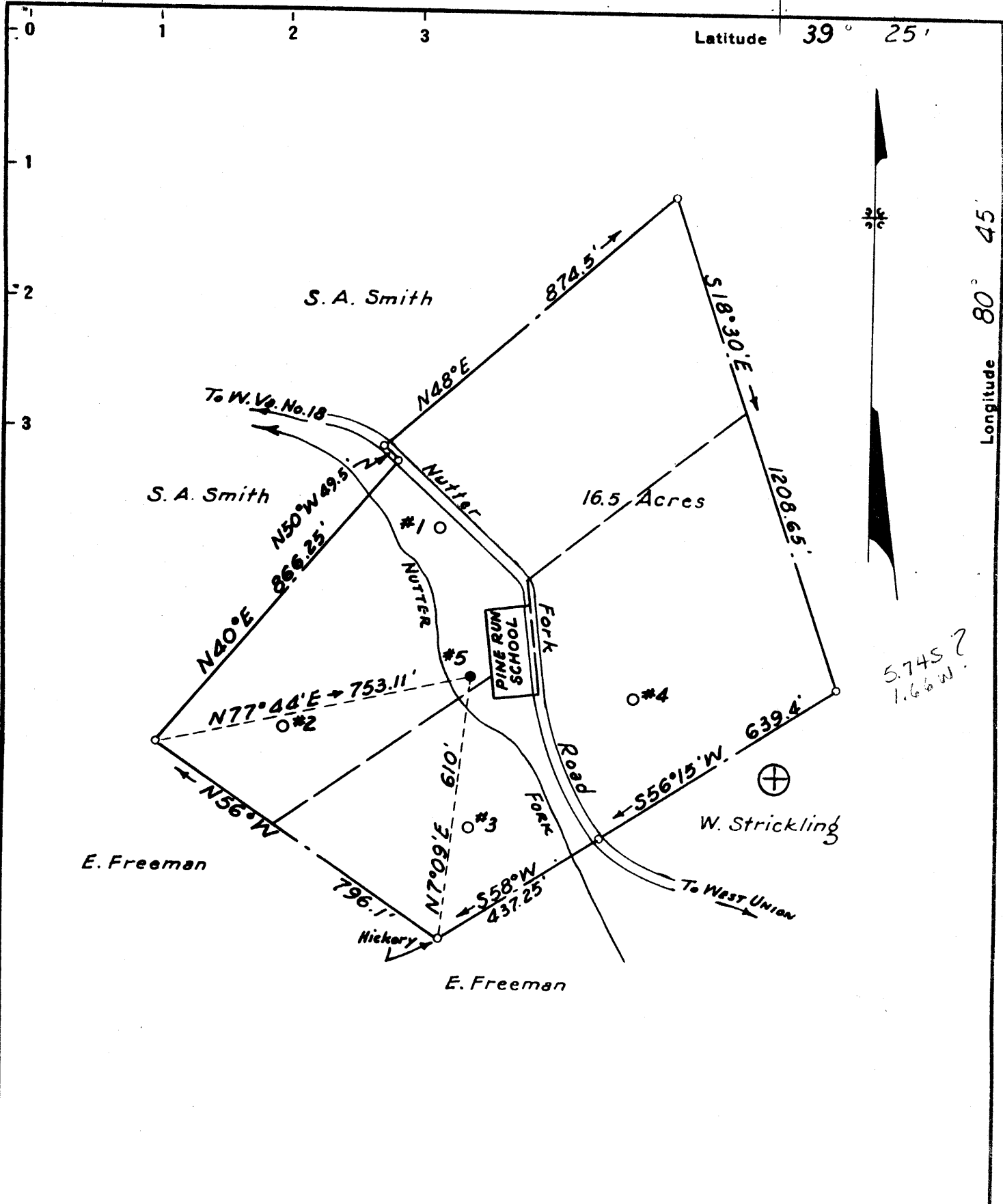
DATE OCTOBER 16, 19 92  
 OPERATOR'S WELL NO. OLD NO. 5 / 209-DD  
 API WELL NO. UNDER W 50 5  
47 - 017 - 00209D  
 STATE COUNTY PERMIT

STATE OF WEST VIRGINIA  
 DEPARTMENT OF MINES  
 OIL AND GAS DIVISION

WELL TYPE: OIL \_\_\_ GAS  LIQUID INJECTION \_\_\_ WASTE DISPOSAL \_\_\_  
 (IF "GAS.") PRODUCTION  STORAGE \_\_\_ DEEP \_\_\_ SHALLOW   
 LOCATION: ELEVATION 796' WATERSHED NUTTER FORK  
 DISTRICT WEST UNION 8 COUNTY DODDRIDGE  
 QUADRANGLE WEST UNION 7.5' 415 (SE)  
 SURFACE OWNER PHILLIP UNDERWOOD, et al ACREAGE 31  
 OIL & GAS ROYALTY OWNER BONNIE J. UNDERWOOD, et al LEASE ACREAGE 31  
 LEASE NO. \_\_\_\_\_  
 PROPOSED WORK: DRILL  CONVERT \_\_\_ DRILL DEEPER \_\_\_ REDRILL \_\_\_ FRACTURE OR STIMULATE  PLUG OFF OLD FORMATION \_\_\_ PERFORATE NEW FORMATION \_\_\_ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) \_\_\_\_\_

PLUG AND ABANDON \_\_\_ CLEAN OUT AND REPLUG \_\_\_  
 TARGET FORMATION BENSON - RILEY ESTIMATED DEPTH 5500'  
 WELL OPERATOR D.A.C. 280 DESIGNATED AGENT KENNETH MASON  
 ADDRESS P.O. BOX 99 ADDRESS P.O. BOX 99  
ALMA, W. VA. 26320 ALMA, W. VA. 26320

NOV 0 1992



New Location   
 Drill Deeper  issued 5-1-75  
 Abandonment

Gerald W. Leuderman, dba. Leuderman Oil and Gas Drilling  
 Company ~~Quaker State Oil Refining Corp.~~  
 110 Main St. ~~West Union, W. Va.~~  
 Address ~~P.O. Box 1789, Parkersburg, W. Va. 26159~~

Farm I. M. Smith  
 Tract \_\_\_\_\_ Acres 30.5 Lease No. \_\_\_\_\_  
 Well (Farm) No. 5 Serial No. \_\_\_\_\_  
 Elevation (Spirit Level) 785.0  
 Quadrangle West Union EC  
 County Doddridge District West Union  
 Engineer L. G. Merrill  
 Engineer's Registration No. 152  
 File No. \_\_\_\_\_ Drawing No. \_\_\_\_\_  
 Date Nov. 15, 1954 Scale 1"=300'

STATE OF WEST VIRGINIA  
 DEPARTMENT OF MINES  
 OIL AND GAS DIVISION  
 CHARLESTON

WELL LOCATION MAP  
 FILE NO. DOD-209-DD

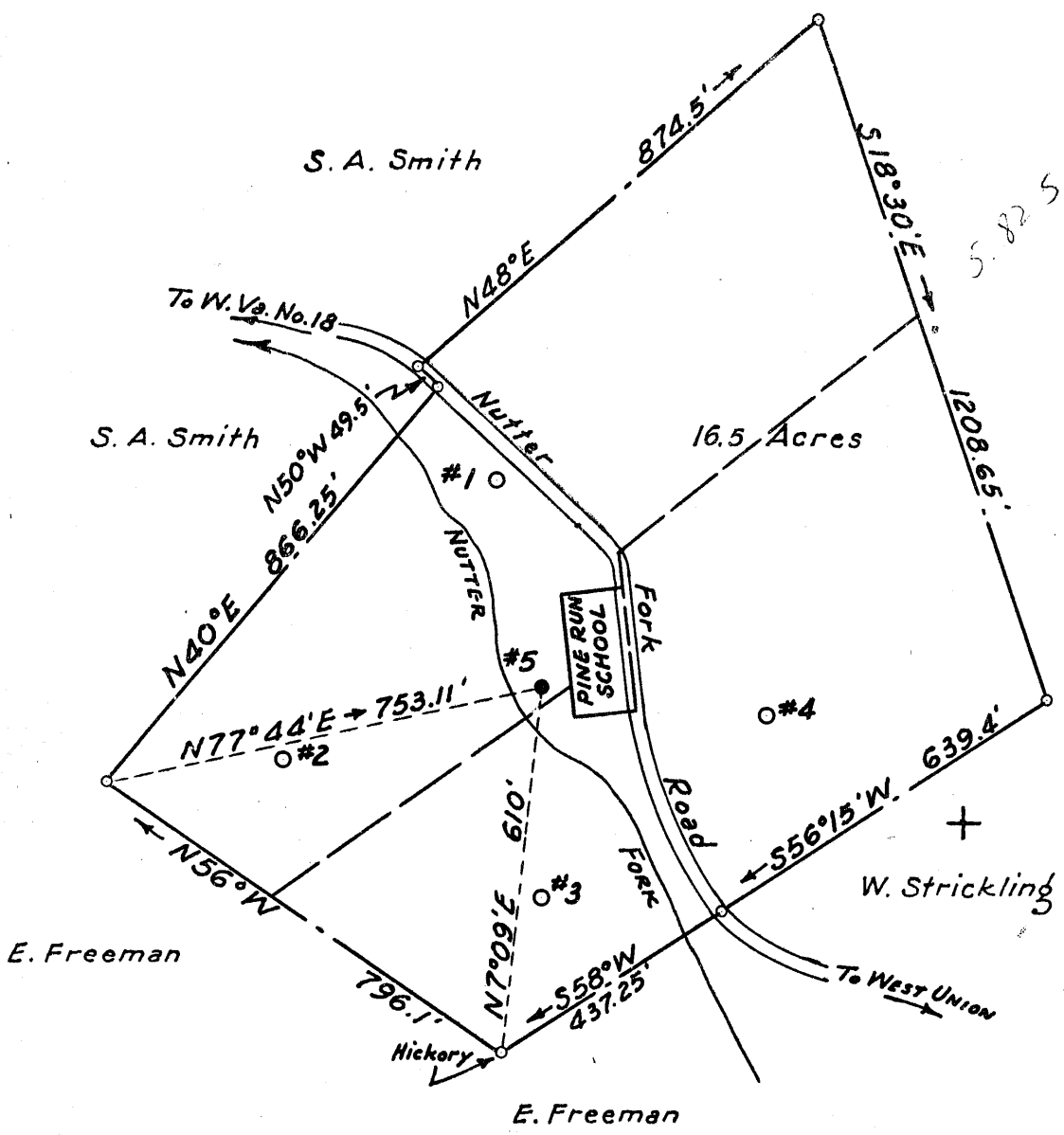
+ Denotes location of well on United States Topographic Maps, scale 1 to 62,500, latitude and longitude lines being represented by border lines as shown.

- Denotes one inch spaces on border line of original tracing.

47-017 MAY 16 1975

Latitude 39° 25'

Longitude 80° 45'



- New Location
- Drill Deeper
- Abandonment

Company Quaker State Oil Refining Corp.  
 Address P.O. Box 1789, Parkersburg, W. Va.  
 Farm I. M. Smith  
 Tract \_\_\_\_\_ Acres 30.5 Lease No. \_\_\_\_\_  
 Well (Farm) No. 5 Serial No. \_\_\_\_\_  
 Elevation (Spirit Level) 785.0  
 Quadrangle West Union  
 County Doddridge District West Union  
 Engineer L. G. Merrill  
 Engineer's Registration No. 152  
 File No. \_\_\_\_\_ Drawing No. \_\_\_\_\_  
 Date Nov. 15, 1954 Scale 1" = 300'

STATE OF WEST VIRGINIA  
 DEPARTMENT OF MINES  
 OIL AND GAS DIVISION  
 CHARLESTON

**WELL LOCATION MAP**  
 FILE NO. DOD-209

+ Denotes location of well on United States Topographic Maps, scale 1 to 62,500, latitude and longitude lines being represented by border lines as shown.

- Denotes one inch spaces on border line of original tracing.

*6-0-209*

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

Reviewed TM6

Recorded elt

Well Operator's Report of Well Work

Farm name: UNDERWOOD, PHILLIP S. Operator Well No.: UNDERWOOD #5

LOCATION: Elevation: 796.00 Quadrangle: WEST UNION

District: WEST UNION County: DODDRIDGE  
Latitude: 260 Feet South of 39 Deg. 20Min. 0 Sec.  
Longitude 8270 Feet West of 80 Deg. 45 Min. 0 Sec.

Company: DRILLING APPALACHIAN CORP  
P. O. BOX 99  
ALMA, WV 26320-0099

Agent: KENNETH R. MASON

Inspector: MIKE UNDERWOOD  
Permit Issued: 11/02/92  
Well work Commenced: 12/2/92  
Well work Completed: 12/12/92  
Verbal Plugging  
Permission granted on: N/A  
Rotary x Cable Rig  
Total Depth (feet) 4893'  
Fresh water depths (ft) 20'  
110'  
Salt water depths (ft) 1500

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
4-1/2"	2426'	2426'	packer
2/7/8"		4846'	32sks

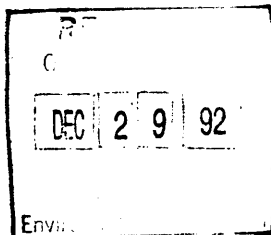
Is coal being mined in area (Y/N)? N  
Coal Depths (ft): N/A

OPEN FLOW DATA

Producing formation Benson Sand Pay zone depth (ft) 4750-54'  
Gas: Initial open flow 300 MCF/d Oil: Initial open flow 0 Bbl/d  
Final open flow 270 MCF/d Final open flow 0 Bbl/d  
Time of open flow between initial and final tests 48 Hours  
Static rock Pressure 1550 psig (surface pressure) after 96 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: DRILLING APPALACHIAN CORP.

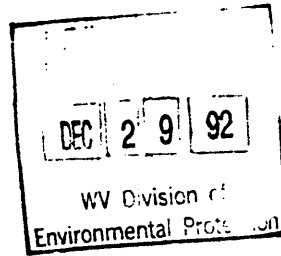
By: Kenneth R. Mason  
Date: 12-28-92

435

Perforated at a depth of 4750'-54', 16 shots.  
Fraced with 532 bbl 20# gel water nitrogen assist, 64,000 SCF nitrogen gas, 10,000# 80/100, 30,000# 20/40sand. Formation Break at 1980 psi, average treatment pressure, 3509 psi, average fluid rate, 15.24 bbl/mi Instant shut in pressure was 1750 psi.

Permian Sands/Shales	0	500	
Pennsylvanian			
Sands/Shales	500	2300	
Devonian Sands/Shales	2301	2451	
Gordon sand	2452	2488	gas
shale/siltstone	2489	3108	
Warren	3109	3163	
shale/Siltstone	3164	4294	
Riley	4295	4353	
shale/siltstone	4354	4749	
Benson	4750	4754	gas
shale/siltstone	4755	4893	
TD		4893	

4893  
 2497  
 -----  
 2396 - new ftg



DF-424

DF-435

14472



STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES

Oil and Gas Division

WELL RECORD

Rotary \_\_\_\_\_ Oil \_\_\_\_\_  
Cable XXX Gas XX  
Recycling \_\_\_\_\_ Comb. \_\_\_\_\_  
Water Flood \_\_\_\_\_ Storage \_\_\_\_\_  
Disposal \_\_\_\_\_ (Kind) \_\_\_\_\_

Quadrangle West Union

Permit No. Doddridge 209 To Deepen

Company Louderman Oil & Gas Drilling  
Address 110 Main St. Padon City, W. Va.  
Farm L. M. Smith Acres 30.5  
Location (waters) Hutters Fork  
Well No. Five Elev. 785.0  
District West Union County Doddridge  
The surface of tract is owned in fee by  
L. M. Smith RFD West Union, W. Va.  
Address \_\_\_\_\_  
Mineral rights are owned by Same  
Address \_\_\_\_\_  
Drilling Commenced Deepen May 6, 1975  
Drilling Completed May 31, 1975  
Initial open flow 711 MBF cu. ft. \_\_\_\_\_ bbls.  
Final production \_\_\_\_\_ cu. ft. per day \_\_\_\_\_ bbls.  
Well open 100 hrs. before test \_\_\_\_\_ RP.

Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Size 20-16			
Cond. 13-10"			
9 5/8	18°	18°	
8 5/8	250°	250°	
7	944°	944°	
5 1/2	1721°	1721°	
4 1/2			
3	2428°	2428	
2			
Liners Used			

Well treatment details:

Attach copy of cementing record.

Well was not treated. Set inverse packer at 2390 to 2395 and extended joint of pipe 33 feet. Bottom of pipe 2428 feet. Log attached does not show final depth of well. Well drilled to total depth with 4 1/2" hole from 2489 to 2497 T.D.

Coal was encountered at See copy of attached OG-18 By Quaker State Oil Refining Corp  
Fresh water \_\_\_\_\_ Feet \_\_\_\_\_ Salt Water \_\_\_\_\_ Feet \_\_\_\_\_  
Producing Sand 30 Feet Depth Top 2481

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Deepened From			1899	2497		
Shale	Dark Grey	Soft	1899	1905		
Shale	Grey	Soft	1905	1986		
Shale	Grey & Sandy	Med	1986	2080		
Shale	Grey & Liny	Hard	2000	2036		
Line	Grey	Hard	2036	2287		
Line	Grey & Sandy	Hard	2287	2233		
Shale	Black	Soft	2233	2241		
Shale	Grey	Soft	2241	2268		
Shale	Black	Soft	2268	2390		
Shale & Sand Shells		Med	2390	2479		
Line	Grey	Hard	2479	2481		
<u>Sand</u>	Grey	Soft	2481	2489		
Shale	Sandy	Soft	2489	2497		<u>Gas At 2481 to 2489</u>

2497  
1899  
598 newff.

(over)

\* Indicates Electric Log tops in the remarks section.



STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES  
OIL AND GAS DIVISION 5

*West Union*

WELL RECORD

Permit No. Dod-209

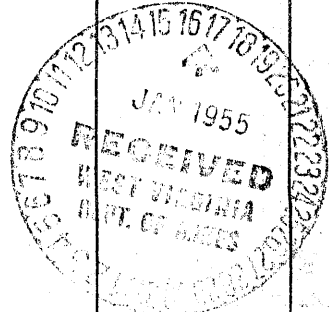
Oil or Gas Well Oil Well  
(KIND)

Company Quaker State Oil Refining Corp.  
Box 1789  
Address Parkersburg, West Virginia  
Farm I.M. SMITH Acres 30.5  
Location (waters) \_\_\_\_\_  
Well No. Five (5) Elev. 785.0  
District West Union County Doddridge  
The surface of tract is owned in fee by \_\_\_\_\_  
Address \_\_\_\_\_  
Mineral rights are owned by I.M. Smith  
Address West Union, W.Va.  
Drilling commenced November 19, 1954  
Drilling completed January 12, 1955  
Date Shot \_\_\_\_\_ From \_\_\_\_\_ To \_\_\_\_\_  
With \_\_\_\_\_  
Open Flow \_\_\_\_\_ /10ths Water in \_\_\_\_\_ Inch  
19 /10ths Merc. in One (1) Inch  
Volume 106,000 Cu. Ft.  
Rock Pressure 55 lbs. 48 hrs.  
Oil One gallon / hr. bbls., 1st 24 hrs.  
Fresh water \_\_\_\_\_ feet \_\_\_\_\_ feet  
Salt water \_\_\_\_\_ feet \_\_\_\_\_ feet

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			
16			Kind of Packer
18	18'	18'	
10	250'	250'	Size of
8 1/2	944'	944'	
6%	1721'	1721'	Depth set
53/16			
8			Perf. top
2			Perf. bottom
Liners Used			Perf. top
			Perf. bottom

CASING CEMENTED \_\_\_\_\_ SIZE \_\_\_\_\_ No. Ft. \_\_\_\_\_ Date \_\_\_\_\_  
COAL WAS ENCOUNTERED AT 444.4 FEET 36 INCHES  
\_\_\_\_\_ FEET \_\_\_\_\_ INCHES \_\_\_\_\_ FEET \_\_\_\_\_ INCHES  
\_\_\_\_\_ FEET \_\_\_\_\_ INCHES \_\_\_\_\_ FEET \_\_\_\_\_ INCHES

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth Found	Remarks
Loam				4			
Gravel			4	14			
Shale			14	18			
Red Rock			18	28			
Shale			28	36			
Red Rock			36	48			
Gray rock			48	60			
Shale			60	71			
Red Rock			71	105			
Shale			105	111			
Red Rock			111	120			
Shale			120	124			
Red Rock			124	140			
Slate			140	168			
Lime-gritty			168	200			
Red Rock			200	205			
Lime			205	224			
Red Rock			224	230			
Lime			230	241			
Red Rock			241	245			
Lime			245	320			
Red Rock			320	324			
Sand			324	336			
Lime			336	342			
Sand	White		342	387			
Red Rock			387	390			
Slate	Gray		390	431			
Slate	Dark		431	444			
Pitts. Coal			444.4	447.4			
Lime		Hard	449	470			
Lime		Soft	470	491			
Lime		Hard	491	498			
1st Cow Run			498	506			
Slate	Gray	Soft	506	507			
2nd Cow Run		Hard	507	527			
Broken Lime			527	540			
Red Rock			540	542			
Lime		Hard	542	556			



Formation	Color	Hard or Soft	Top 5	Bottom	Oil, Gas or Water	Depth Found	Remarks
Red Rock			556	562			
Lime		Hard	562	576			
Red Rock		Soft	576	587			
Lime		Hard	587	616			
Red Rock		Soft	616	628			
Lime		Hard	628	638			
Red Rock		Soft	638	650			
Lime		Hard	650	662			
Red Rock		Soft	662	670			
Lime		Hard	670	675			
Lime & Red Rock			675	682			
Lime	White	Hard	682	694			
Gray Rock			694	709			
Lime		Hard	709	722			
Slate		Soft	722	750			
Slate&Coal	Black	Soft	750	754			
Lime	Gray	Hard	754	762			
Red Rock		Soft	762	767			
Shale			767	785			
Red Rock			785	789			
Lime		Hard	789	797			
Red Rock		Soft	797	809			
Slate		Soft	809	820			
Lime		Hard	820	828			
Slate		Soft	828	840			
Red Rock			840	850			
Lime		Hard	850	876			
Gray Rock		Soft	876	897			
Lime		Hard	897	923			
Slate		Hard	923	942			
Big Dunkard		Hard	942	1068			
Lime Rotten(Dark)		Med.	1068	1125			
Slate	Black	Soft	1125	1144			
1st gas sand(White)		Soft	1144	1162			
Slate	Dark	Soft	1162	1200			
Lime	White	Med.	1200	1220			
Lime shells			1220	1237			
1st Salt sand-white		Hard	1237	1347			
Slate break in salt sand			(1336 to 1340)				
Slate	Black	Soft	1347	1372			
Salt Sand	White	Med.		1380			
Slate	Dark	Soft		1400			
Sand	White	Hard	1400	1520			
Break	Dark	Soft	1408	1411			
Slate&shells (D.)		Soft	1520	1538			
Slate	Dark	Soft		1555			
3rd salt sand-gray lime				1600			
Slate & shells (G)		Med.	(T)	1640			
Slate	Red & Gray	Soft		1670			
Lime	Gray	Hard		1684			
Slate&Shale (G)		Med.		1695			
Pencil Cave			1695	1701			
Big Lime	White	Hard	1701	1774			
Big Injun	White	Hard	1774				
Gas - 22/10 = 1/2 W			1779	1780			
Oil Show			1779	1780			
Gas - 19/10 = 1" M			1782	1786			
Oil			1786	1790			
Total Depth (Top 6-5/8)				1899			

Date January 14, 19 55

APPROVED Quaker State Oil Refn'g. Corp., Owner

By

*M. H. ...*



017-209-DD  
 Issued 11/02/92  
 Page 3 of 5  
 Expires 11/02/94

FORM WW-2B

OCT 23 92

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

- 1) Well Operator: DRILLING APPALACHIAN CORPORATION 14425 (8) 670
- 2) Operator's Well Number: Underwood #1 3) Elevation: 796'
- 4) Well type: (a) Oil X/ or Gas X/  
 (b) If Gas: Production X/ Underground Storage     /  
 Deep     / Shallow X/
- 5) Proposed Target Formation(s):
- 6) Proposed Total Depth: 5000 feet
- 7) Approximate fresh water strata depths:
- 8) Approximate salt water depths:
- 9) Approximate coal seam depths:
- 10) Does land contain coal seams tributary to active mine? Yes     / No X/
- 11) Proposed Well Work: Drill deeper, perforate, stimulate new formation
- 12) Empty Well

CASING AND TUBING PROGRAM

TYPE	SPECIFICATIONS		FOOTAGE INTERVALS		CEMENT	
	Size	Grade	Weight per ft.	For drilling	Left in well	Fill-up (cu. ft.)
Conductor	9-5/8"				250' existing	
Fresh Water	8-5/8"				944' existing	
Coal						
Intermediate	7"				1721' existing	
Production	4-1/2"				2428 existing	
Tubing	2-7/8"			5050'	5050'	38CSR18-11.1
Liners						

14472

*from second well record  
it is existing  
11/1/92*

*MAY BE SETTING ON PACKER  
MAY BE CEMENT*

PACKERS : Kind       
 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 Blanket  Agent

8464/35

OCT 23 1992  
Permitting  
Office of Oil & Gas

1) Date: October 20, 1992  
2) Operator's well number  
UNDERWOOD #5  
3) API Well No: 47 - 017 - 209DD *FE*  
State - County - Permit

*MAY BE  
1819D.D*

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:
  - (a) Name Phillip S. Underwood  
Address Rt 2, Box 312  
West Union, WV 26456
  - (b) Name \_\_\_\_\_  
Address \_\_\_\_\_
  - (c) Name \_\_\_\_\_  
Address \_\_\_\_\_
- 5) (a) Coal Operator:
  - Name ---  
Address \_\_\_\_\_
  - (b) Coal Owner(s) with Declaration  
Name ---  
Address \_\_\_\_\_
  - Name \_\_\_\_\_  
Address \_\_\_\_\_
  - (c) Coal Lessee with Declaration  
Name \_\_\_\_\_  
Address \_\_\_\_\_
- 6) Inspector Mike Underwood  
Address Rte 2, Box 135  
Salem, WV 26426  
Telephone (304)- 782-1043

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  
X Included is the information required by Chapter 22B, Article 1, Section 8(d) of the Code of West Virginia (see page 2)

I certify that as required under Chapter 22B of the West Virginia Code I have served copies of this notice and application, a location plat, and accompanying documents pages 1 through 5 on the above named parties, by:

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

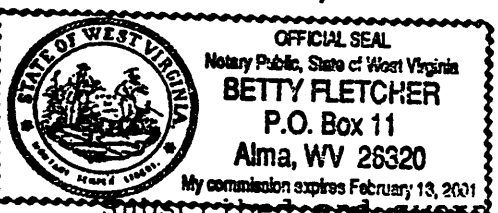
I have read and understand Chapter 22B and 38 CSR 11-18, and I agree to the terms and conditions of any permit issued under this application.

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 DRILLING APPALACHIAN CORPORATION  
By: Kenneth R. Mason  
Its: President  
Address P. O. BOX 99, Alma, WV 26320-0099  
Telephone 304/758-4638

Subscribed and sworn before me this 20th day of October, 19 92



Betty Fletcher Notary Public  
My commission expires 2-13-2001



STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES

RECEIVED

MAY 1 1975

OIL & GAS DIVISION  
DEPT. OF MINES

Oil and Gas Division

OIL AND GAS WELL PERMIT APPLICATION

TO THE DEPARTMENT OF MINES,  
Charleston, W. Va.

Surface Owner I. M. Smith  
Address West Union  
Mineral Owner I. M. Smith  
Address \_\_\_\_\_  
Coal Owner I. M. Smith  
Address \_\_\_\_\_  
Coal Operator \_\_\_\_\_  
Address \_\_\_\_\_

DATE April 30, 1975  
Gerald W. Lauderman, dba  
Company Lauderman Oil & Gas Drilling  
Address 140 Main Street, Paden City, W. Va.  
Farm I. M. Smith Acres 31 26159  
Location (waters) Nutter Fork  
Well No. 5 Elevation 785.0  
District West Union County Doddridge  
Quadrangle West Union

Original permit No 209, plat date of November 15, 1954

The information requested below is contained in Section 3 of the attached assignment

THIS PERMIT MUST BE POSTED AT THE WELL SITE

All provisions being in accordance with Chapter 22, of the W. Va. Code, the location is hereby approved for deepening. This permit shall expire if operations have not commenced by 9-1-75.

GENTLEMEN:

The undersigned well operator is entitled to drill upon the above named farm or tract of land for oil and gas, having fee title thereto, (or as the case may be) under grant or lease dated \_\_\_\_\_ 19\_\_\_\_ by \_\_\_\_\_ made to \_\_\_\_\_ and recorded on the \_\_\_\_\_ day of \_\_\_\_\_ 19\_\_\_\_, in \_\_\_\_\_ County, Book \_\_\_\_\_ Page \_\_\_\_\_

\_\_\_\_\_  
NEW WELL ~~XXXX~~ DRILL DEEPER \_\_\_\_\_ REDRILL \_\_\_\_\_ FRACTURE OR STIMULATE  
OIL AND GAS WELL ORIGINALLY DRILLED BEFORE JUNE 5, 1969.

The enclosed plat was prepared by a registered engineer or licensed land surveyor and all coal owners and/or operators have been notified as of the above date.

The above named coal owners and/or operator are hereby notified that any objection they wish to make, or are required to make by Section 3 of the Code, must be received by, or filed with the Department of Mines within ten (10) days. \*

Copies of this notice and the enclosed plat were mailed by registered mail, or delivered to the above named coal operators or coal owners at their above shown respective address \_\_\_\_\_ day \_\_\_\_\_ before, or on the same day with the mailing or delivery of this copy to the Department of Mines at Charleston, West Virginia.

PLEASE SUBMIT COPIES OF ALL GEOPHYSICAL LOGS DIRECTLY TO:

West Virginia Geological and Economic Survey  
P. O. Box 879  
Morgantown, W. Va. 26505  
AC 304-296-4461

Very truly yours,

(Sign Name) \_\_\_\_\_

Well Operator

Address of Well Operator

110 Main Street  
Street  
Paden City,  
City or Town  
West Virginia 26159  
State

INSPECTOR TO BE NOTIFIED Richard Morris  
PH: 354-7259 ADDRESS Grantsville, W. Va.

\*SECTION 3 . . . . If no objections are filed or found by the Department of mines, within said period of ten days from the receipt of notice and plat by the department of mines, to said proposed location, the department shall forthwith issue to the well operator a permit reciting the filing of such plat, that no objections have been made by the coal operators or found thereto by the department and that the same is approved and the well operator authorized to proceed.

BLANKET BOND

Dodd - 209-DD PERMIT NUMBER

47-017

*January*

**THIS IS AN ESTIMATE ONLY  
ACTUAL INFORMATION WILL BE SUBMITTED ON OG-10 UPON COMPLETION**

PROPOSED WORK ORDER TO \_\_\_\_\_ DRILL XXXX DEEPEN \_\_\_\_\_ FRACTURE-STIMULATE \_\_\_\_\_  
 DRILLING CONTRACTOR: (If Known) \_\_\_\_\_ RESPONSIBLE AGENT: Philip Morgan  
 NAME Bill Armstrong NAME Lauderman Oil & Gas Drilling  
 ADDRESS Marietta, Ohio ADDRESS 110 Main St., Paden City, W. Va. 26159  
 TELEPHONE 614-934-2841 TELEPHONE 304-337-2215  
 ESTIMATED DEPTH OF COMPLETED WELL: 3400 ROTARY \_\_\_\_\_ CABLE TOOLS XXXXX  
 PROPOSED GEOLOGICAL FORMATION: Gordon Sand  
 TYPE OF WELL: OIL XXX GAS XX COMB. XXX STORAGE \_\_\_\_\_ DISPOSAL \_\_\_\_\_  
 Possible RECYCLING \_\_\_\_\_ WATER FLOOD \_\_\_\_\_ OTHER \_\_\_\_\_

TENTATIVE CASING PROGRAM:

CASING AND TUBING SIZE	USED FOR DRILLING	LEFT IN WELL	CEMENT FILL UP OR SACKS - CUBIC FT.
20 - 16			
13 - 10	18'	18'	<i>in well</i>
9 - 5/8	250'	250'	
8 - 5/8	944'	944'	
7	1721'	1721'	
5 1/2			
4 1/2	If production is found will set 4 1/2 through sand		and fracture
3			Perf. Top
2			Perf. Bottom
Liners			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS \_\_\_\_\_ FEET SALT WATER \_\_\_\_\_ FEET  
 APPROXIMATE COAL DEPTHS 444.4 36" in depth  
 IS COAL BEING MINED IN THE AREA? No BY WHOM? \_\_\_\_\_

TO DRILL:

SUBMIT FIVE (5) COPIES OF OG - 1, \$100.00 PERMIT FEE, PERFORMANCE BOND AND PERMANENT COPY OF PLAT.

TO DRILL DEEPER OR REDRILL:

SUBMIT FIVE (5) COPIES OF OG - 1, SHOWING ORIGINAL PERMIT NUMBER AND PERFORMANCE BOND. ON WELLS DRILLED PRIOR TO 1929, A PERMANENT COPY OF THE PLAT AND THE ORIGINAL WELL RECORD MUST ALSO BE SUBMITTED.

TO FRACTURE - STIMULATE:

OIL AND/OR GAS WELL ORIGINALLY DRILLED BEFORE JUNE 5, 1929, FIVE (5) COPIES OG - 1, PERFORMANCE BOND, PERMANENT PLAT AND ORIGINAL WELL RECORD.

OIL AND/OR GAS WELL ORIGINALLY DRILLED ON AND/OR AFTER JUNE 5, 1929, FIVE COPIES OG - 1, SHOWING ORIGINAL PERMIT NUMBER, AND PERFORMANCE BOND.

Required forms must be filed within ninety (90) days of completion for bond release. Inspector to be notified twenty-four (24) hours in advance.

The information requested below now contained on file with the Oil & Gas Division of the Department of Mines, Charleston, W. Va.

The following waiver must be completed by the coal operator if the permit is to be issued within ten days of receipt thereof.

WAIVER: I the undersigned, Agent for \_\_\_\_\_ Coal Company, Owner or Operator of the coal under this lease have examined and place on our mine maps this proposed well location.

We the \_\_\_\_\_ Coal Company have no objections to said well being drilled at this location, providing operator has complied with all rules and regulations in Articles 4, 5, and 7, Chapter 22 of the West Virginia Code.

\_\_\_\_\_  
For Coal Company  
\_\_\_\_\_  
Official Title