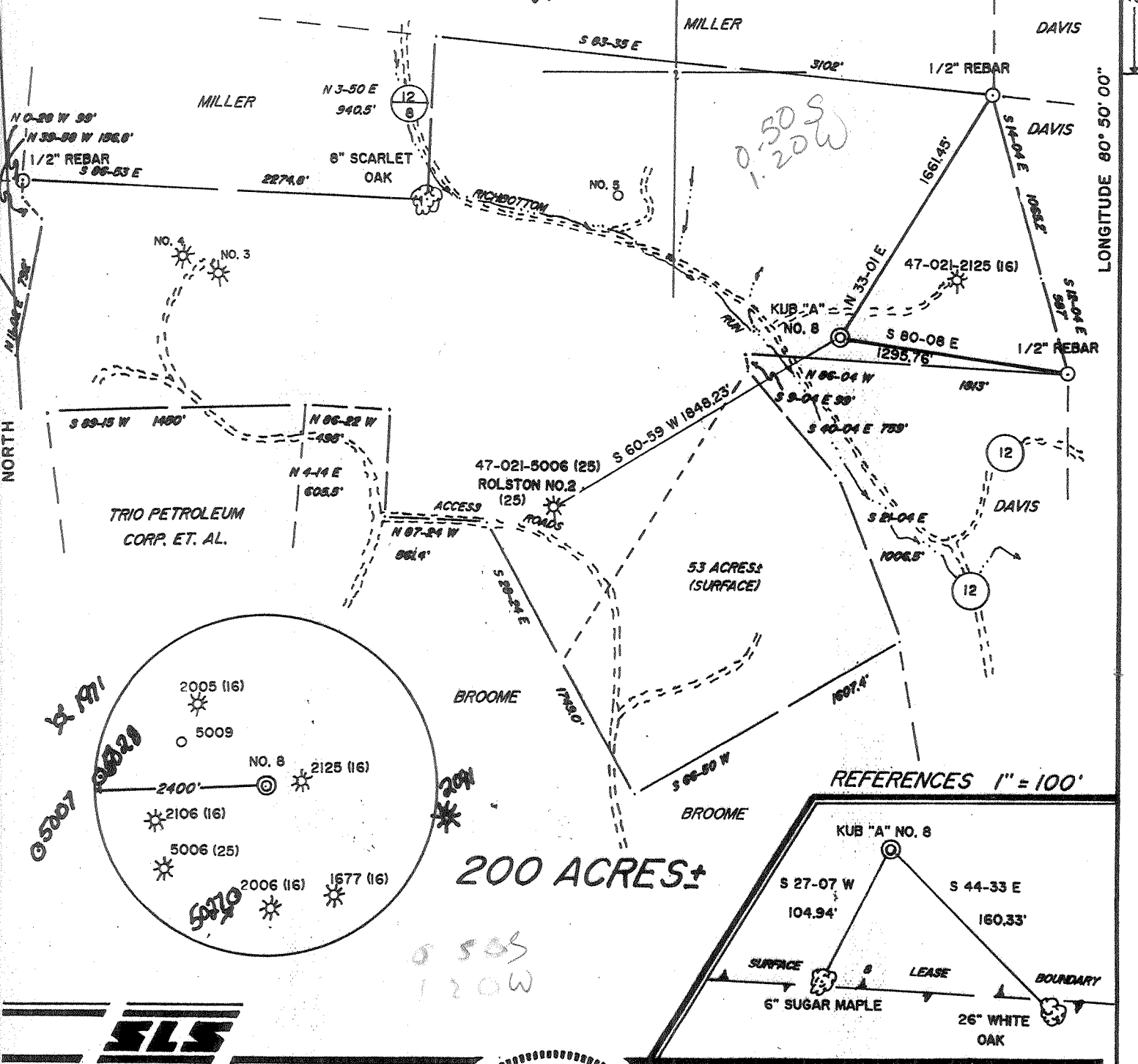


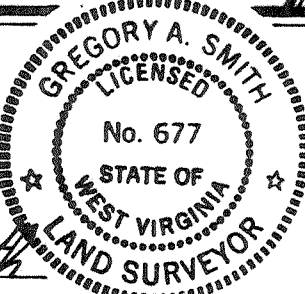
# KUB "A" LEASE <sup>Janice</sup> <sub>2/19/92</sub> WELL NO. 8



REFERENCES 1" = 100'

200 ACRES±

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.



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.  
 DATE JANUARY 27, 19 92  
 OPERATORS WELL NO. KUB "A" WELL NO. 8  
 API WELL NO. 47 - 021 - 5029  
 STATE COUNTY PERMIT

L.L.S. Gregory A. Smith  
 677

MINIMUM DEGREE OF ACCURACY 1 / 200 FILE NO. 2700 (36-68)  
 PROVEN SOURCE OF ELEVATION TOP OF KNOB ELEVATION 1336' SCALE 1" = 800'

STATE OF WEST VIRGINIA  
 DEPARTMENT OF ENERGY  
 OIL AND GAS DIVISION



WELL TYPE: OIL  GAS  LIQUID INJECTION  WASTE DISPOSAL  IF "GAS" PRODUCTION  STORAGE  DEEP  SHALLOW

LOCATION: ELEVATION 924' WATERSHED RICHBOTTOM RUN  
 DISTRICT DEKALB 2 COUNTY GILMER QUADRANGLE GLENNVILLE 7.5' DC

SURFACE OWNER TRIO PETROLEUM CORP. ET. AL. ACREAGE 200  
 ROYALTY OWNER TRIO PETROLEUM CORP. ET. AL. LEASE ACREAGE 200

PROPOSED WORK: DRILL  CONVERT  DRILL DEEPER  REDRILL  FRACTURE OR STIMULATE  PLUG OFF OLD FORMATION  PERFORATE NEW FORMATION  PLUG AND ABANDON  CLEAN OUT AND REPLUG  OTHER   
 PHYSICAL CHANGE IN WELL (SPECIFY) \_\_\_\_\_ TARGET FORMATION MARCELLUS SHALE  
 ESTIMATED DEPTH 6100'

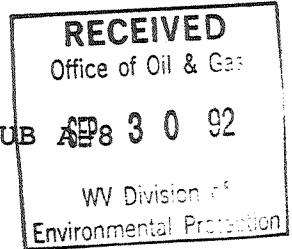
WELL OPERATOR ANGERMAN ASSOCIATES Inc. <sup>89</sup> DESIGNATED AGENT WILLIS J. MAXWELL  
 ADDRESS 109 ZETA DR., PITTSBURGH, PA. 15238 ADDRESS RT. 65, BOX 7, GLENNVILLE, WV. 26351

DEEP WELL

COUNTY NAME PERMIT

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

Well Operator's Report of Well Work



Farm name: TRIO PETROLEUM CORP. Operator Well No.: KUB 2983092  
LOCATION: Elevation: 924.00 Quadrangle: GLENVILLE  
District: DEKALB County: GILMER  
Latitude: 2600 Feet South of 39 Deg. 0 Min. 0 Sec.  
Longitude 6290 Feet West of 80 Deg. 50 Min. 0 Sec.

Company: ANGERMAN ASSOC., INC.  
109 ZETA DRIVE  
PITTSBURGH, PA 15238-0000

Agent: WILLIS J. MAXWELL

Inspector: CRAIG DUCKWORTH  
Permit Issued: 02/20/92  
Well work Commenced: 7/20/92  
Well work Completed: 7/25/92

Verbal Plugging  
Permission granted on: \_\_\_\_\_  
Rotary x Cable Rig  
Total Depth (feet) 6350' LTD  
Fresh water depths (ft) 1/2" @ 85'

Salt water depths (ft) 1/2" @ 1262'  
Salinity not recorded  
Is coal being mined in area (Y/N)? N  
Coal Depths (ft): \_\_\_\_\_

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
11-3/4"	30.0	0.0	
8-5/8"	1327.30	1327.30	To surface w/320 sks. Class A 927 ft. w/Poz/Gils.
4-1/2"	6311.00	6311.00	
1-1/2"	6053.00	6053.00	

OPEN FLOW DATA

2998' KB to 6244' KB  
 Producing formation Speechley through Black Shale Pay zone depth (ft) \_\_\_\_\_  
 Gas: Initial open flow 84 MCF/d Oil: Initial open flow \_\_\_\_\_ Bbl/d  
 Final open flow 839 MCF/d Final open flow \_\_\_\_\_ Bbl/d  
 Time of open flow between initial and final tests \_\_\_\_\_ Hours  
 Static rock Pressure 1550 psig (surface pressure) after 72 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: ANGERMAN ASSOC., INC.

By: [Signature]  
Date: September 22, 1992

Reviewed TM6  
Recorded \_\_\_\_\_

SEP 20 1992

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

Well Operator's Report of Well Work

Farm Name: Trio Petroleum Corp.  
 Permit No.: 47-21-05029

Operator Well No.: KUB "A" #8

Details of Perforated Intervals, fracturing or stimulating, physical change, etc.

Formation	Perforations	Treatment		Slurry Rate bpm	Whd Pressure psig
		20/40 Sand Pounds	Volume Foam Bbl. 20# gel		
Deep Shales	5262-6244 (18)	28,500	479	10.69	3276
Alexander	4786-4850 (11)	18,000	243	9.32	2023
Riley-Benson	4172-4550 (11)	35,000	408	11.76	2598
		5,000	(80/100)		
Balltown	3494-3800 (11)	20,000	259	11.16	2766
Speechley	2998-3052 (12)	20,000	249	12.26	2031

Well Log

Formation Coal Hard or Soft	Top Feet	Bottom Feet	Remarks (Including indication of all fresh and salt water, coal, oil and gas)
KB-GL	0	10	
Sandy Shale	10	175	1/2" stream @ 85'
Sand	175	295	
Red Rock	295	315	
Sandy Shale	315	540	
Shale	540	650	
Sand & Shale	650	970	
Sand	970	1104	
Shale & Red Rock	1104	1199	
Sand	1199	1210	
Sand & Shale	1210	1683	1/2" stream @ 1262'
Lime	1683	1723	Ck. gas @ 1611'-no show
Injun Sand	1723	1842	Oil odor-1762'
Sand & Shale	1842	1947	Ck. gas @ 1769' 40/10 2" w/w
Weir	1947	2018	
Sand & Shale	2018	2218	
Sandy Shale	2218	2645	
Sand	2645	2680	
Sandy Shale	2680	2993	Ck. gas @ 1990' 40/10 2" w/w
Sand	2993	3006	
Sand & Shale	3006	3360	Ck. gas @ 3067' 20/10 2" w/w
Sand & Shale	3360	3724	
Balltown	3724	3764	Ck. gas @ 3732' 16/10 2" w/w

OCT 20 1978

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

Well Operator's Report of Well Work

Farm Name: Trio Petroleum Corp.  
Permit No.: 47-21-05029

Operator Well No.: KUB "A" #8

Sand & Shale	3764	4450	
Sand	4450	4475	
Sandy Shale	4475	4540	Ck. gas @ 4486' 10/10 2" w/w
Sand	4540	4552	
Sandy Shale	4552	4805	Ck. gas @ 4579' 10/10 2" w/w
Alex	4805	4840	
Sand & Shale	4840	5260	Ck. gas @ 5022' 10/10 2" w/w
B. Shale	5260	5969	
Sand & Shale	5969	6140	
Sand Black	6140	6160	
Shale Brown	6160	6270	
Lime	6270	6280	
Black Shale	6280	6314	Ck. gas @ T.D. 4/10 2" w/w
Lime <i>average?</i>	6314	6330	DTD

(Attach separate sheets as necessary)

ANGERMAN ASSOCIATES, INC.

Well Operator

By: 

Date: September 22, 1992

OCT 20 1992

RECEIVED  
FFR 1<sup>st</sup> REC'D  
DEPT. OF ENERGY

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

Issued 2/20/92  
Expires 2/20/94  
2200 (2) 372

- 1) Well Operator: 34  
ANGERMAN ASSOCIATES, INC.
- 2) Operator's Well Number: KUB "A" WELL NO. 8 3) Elevation: 924'
- 4) Well Type: (a) Oil  or Gas   
(b) If Gas: Production  / Underground Storage   
Deep  / Shallow
- 5) Proposed Target Formation: Marcellus Shale 437
- 6) Proposed Total Depth: 6100 feet
- 7) Approximate fresh water strata depths: 80'
- 8) Approximate salt water depths: N/A
- 9) Approximate coal seam depths: N/A
- 10) Does land contain coal seams tributary to active mine? Yes  / No
- 11) Proposed Well Work: Drill & Stimulate New Well
- 12)

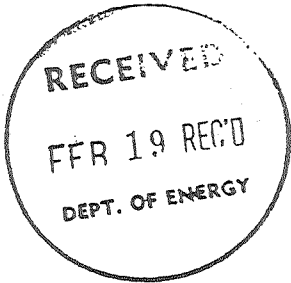
CASING AND TUBING PROGRAM

TYPE	SPECIFICATIONS			FOOTAGE INTERVALS		CEMENT
	Size	Grade	Weight per ft.	For drilling	Left in well	
Conductor	11-3/4"			40'	0'	0 Sacks
Fresh Water	8-5/8"			800'	800'	} CTS <del>38</del> CSR 18-11.3 <u>38059811.2.2</u>
Coal						
Intermediate						
Production	4-1/2"			6100'	6100'	CTS or 38 CSR 18-11.1
Tubing						
Liners						

ACKERS : Kind \_\_\_\_\_  
Sizes \_\_\_\_\_  
Depths set \_\_\_\_\_

709 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  
(Type) letter



1) Date: February 5th, 1992  
2) Operator's well number  
KUB "A" WELL NO. 8  
3) API Well No: 47 - 021 - 5029  
State - County - Permit

STATE OF WEST VIRGINIA  
DEPARTMENT OF ENERGY, DIVISION OF OIL AND GAS

NOTICE AND APPLICATION FOR A WELL WORK PERMIT

<p>4) Surface Owner(s) to be served:          (a) Name <u>Trio Petroleum Corp. et.al.</u>          Address <u>Rt. 76, Box 35-E</u>  <u>Glenville, WV 26351</u>          (b) Name _____          Address _____          (c) Name _____          Address _____</p>	<p>5) (a) Coal Operator:          Name <u>N/A</u>          Address _____          (b) Coal Owner(s) with Declaration          Name <u>N/A</u>          Address _____          Name _____          Address _____          (c) Coal Lessee with Declaration          Name <u>N/A</u>          Address _____</p>
<p>6) Inspector <u>Craig Duckworth</u>          Address <u>Box 107, Davisson Route</u>  <u>Gassaway, WV 26624</u>          Telephone (304)- <u>364 - 5942</u></p>	

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 XXX 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 7 on the above named parties, by:  
XXX 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 ANGERMAN ASSOCIATES, INC.  
By: \_\_\_\_\_  
Its: Samuel L. Kimmel - President  
Address 109 Zeta Drive  
Pittsburgh, PA. 15238  
Telephone (412) 963 - 0550

Subscribed and sworn before me this 5th day of February, 1992

Gregory A. Smith Notary Public  
My commission expires 12-07-92