

Game 2/14/91

BLAUSER/COULEHAN LEASE

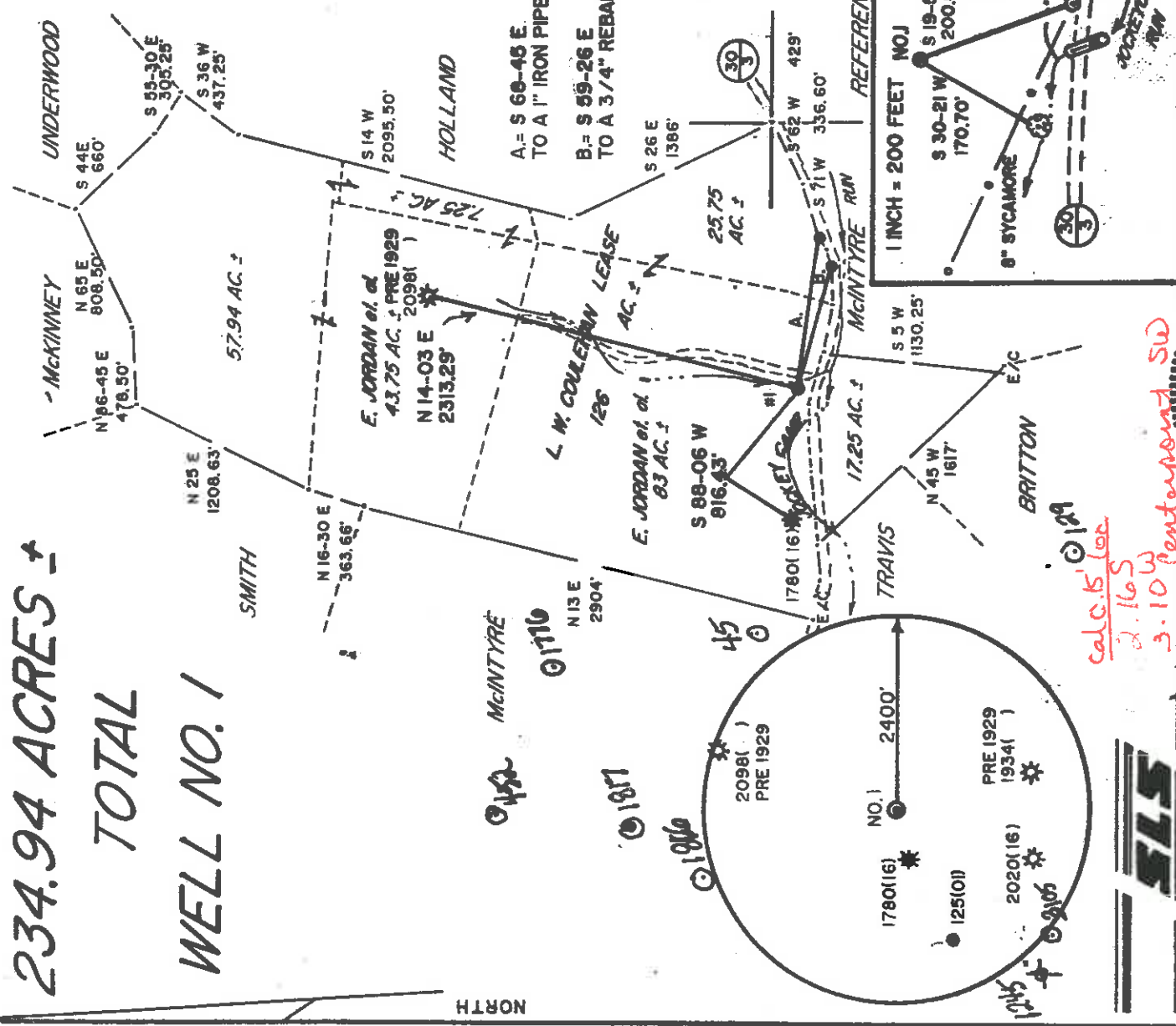
234.94 ACRES ±

TOTAL

WELL NO. 1

LATITUDE 39°20'00"

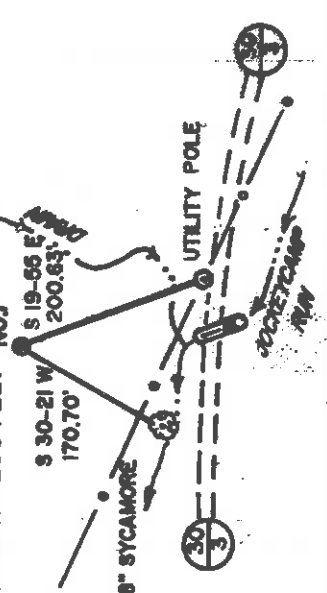
LONGITUDE 80°42'30" 11 300



A = S 68-45 E 936.90'
TO A 1" IRON PIPE FOUND

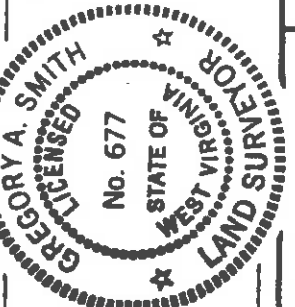
B = S 59-26 E 809.36'
TO A 3/4" REBAR FOUND

REFERENCES
1 INCH = 200 FEET NOJ



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.

L.L.S. *Gregory A. Smith*
677



MINIMUM DEGREE OF ACCURACY 1/200 FILE NO. 2534 (30-58)
PROVEN SOURCE OF ELEVATION TOP OF KNOB ELEV. 1341' SCALE 1" = 1000'

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

LOCATION: ELEVATION 887' WATERSHED JOCKEY CAMP RUN

DISTRICT WEST UNION COUNTY DODDRIDGE

SURFACE OWNER ELIZABETH JORDAN et al

ROYALTY OWNER SALEM SEVENTH DAY BAPTIST CHURCH TRUSTEES LEASE ACREAGE 126 ACREAGE 83 OF 234.94

LEASE NO. WV02031 - +

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 ALEXANDER ESTIMATED DEPTH 5200'

COUNTY NAME _____ PERMIT _____

DESIGNATED AGENT JOHN M. PALETTI

ADDRESS BOX N GLENVILLE, WV 26351 ADDRESS 501 56th ST. CHARLESTON, WV 25304

H.T. HALL 066995 6-6 Smithton-Flint-Sedalia (699)

calc. 1.018
2.165
3.10 W Pentapond SW

State of West Virginia
DEPARTMENT OF ENERGY
Division of Oil and Gas

APR 08 1991

Well Operator's Report of Well Work

Farm name: HARDIN, JANE

Operator Well No.: BLAUS/COULEHA 1

LOCATION: Elevation: 887.00

Quadrangle: SMITHBURG

District: WESTUNION
Latitude: 11300 Feet South of 39 Deg. 20Min. 0 Sec.
Longitude 4670 Feet West of 80 Deg. 42 Min. 30 Sec.

County: DODDRIDGE

Company: EASTERN AMERICAN ENERGY C

P. O. BOX N
GLENVILLE, WV 26351-0000

Agent: DONALD C. SUPCOE

Inspector: MIKE UNDERWOOD
Permit Issued: 02/26/91
Well work Commenced: 04/01/91
Well work Completed: 04/17/91
Verbal Plugging
Permission granted on: _____ Rig
Rotary Cable _____ 5302'
Total Depth (feet) _____
Fresh water depths (ft) 28', 51', 180'
Salt water depths (ft) 1080'
Is coal being mined in area (Y/N)? N
Coal depths (ft): 946' - 949'

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
8-5/8"	1026.85'	1026.85'	C.T.S.
4-1/2"	5148.55'	5148.55'	1012
1-1/2"	---	4963'	---

OPEN FLOW DATA

Riley (Commingle)

Producing formation Alexander, Benson/3rd Riley Pay zone depth (ft) 5053'-4996'
Gas: Initial open flow 634 MCF/d Oil: Initial open flow N/A Bbl/d
Final open flow 267 MCF/d Final open flow N/A Bbl/d
Time of open flow between initial and final tests 15 Hours
Static rock Pressure 1040 psig (surface pressure) after 24 Hours

Second producing formation _____

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: EASTERN AMERICAN ENERGY CORP.

By: Ronald L. Rech, Regional Drilling Manager
Date: April 24, 1991

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

3-STAGE FOM FRAC

- Stage 1: Alexander - 13 holes (5053'-4996') Breakdown 2180 psi, 65 Quality foam, 45,000 lbs 20/40 sand, 20 lbs/1000 gals Gel, 500 gals 15% HCl, 563,100 scf of N₂
- Stage 2: Benson/3rd Riley - 12 holes (4724'-4656') Breakdown 2060 psi, 70 Quality foam, 50,000 lbs 20/40 sand, 20 lbs/1000 gals Gel, 500 gals 15% HCl, 657,400 scf of N₂
- Stage 3: Riley - 13 holes (4268'-4241') Breakdown 1800 psi, 70 Quality foam, 9,000 lbs 20/40 sand, 20 lbs/1000 gals Gel, 500 gals 15% HCl, 584,100 scf of N₂

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
Soil & Shale			0	15	Including indication of all fresh and salt water, coal, oil and gas
Sand			15	30	
Sand and Shale			30	51	
Red Rock			51	60	1/2" stream water @ 28'
Sand and Shale			60	101	1/2" stream water @ 51'
Red Rock			101	105	1/2" stream water @ 180'
Sand and Shale			105	480	
Red Rock			480	530	
Sand and Shale			530	650	
Red Rock			650	946	
Shale and Red Rock			650	949	Coal
Sand and Shale			946	1030	
Coal			949	1030	
Sand and Shale			1030	1085	1/2" stream water @ 1080'
Shale			1085	1160	
1st Salt Sand			1085	1160	
Shale			1160	1180	
2nd Salt Sand			1160	1180	
Shale and Sand			1180	1250	
3rd Salt Sand			1250	1320	
Sand and Shale			1320	1420	
Little Lime			1420	1578	
Shale			1578	1592	
Blue Monday			1592	1604	
Big Lime			1604	1632	
Big Injun			1632	1686	
Shale			1686	1820	
Weir			1820	1962	
Shale			1820	1962	
Berea			1962	2106	
Shale			2106	2166	
Gordon			2106	2166	
Sand and Shale			2166	2187	
Warren			2187	2354	
Shale			2354	2416	
Sand and Shale			2416	3038	
Shale			3038	3082	
Speechley			3082	3102	
Sand and Shale			3102	3334	
Riley			3334	4252	
Sand and Shale			4252	4276	
			4276	4650	

(CONTINUED)

(Attach separate sheets as necessary)

REMARKS

Including indication of all fresh and salt water, coal, oil and gas

1/2" stream water @ 28'

1/2" stream water @ 51'

1/2" stream water @ 180'

Coal

1/2" stream water @ 1080'

Oil odor @ 1210'

GAS CHECKS:

1920' - No show

2266' - 10/10 thru 2" w/water

2520' - 10/10 thru 2" w/water

2928' - 10/10 thru 2" w/water

3560' - 10/10 thru 2" w/water

4164' - 22/10 thru 2" w/water

4417' - 80/10 thru 2" w/water

4608' - 60/10 thru 2" w/water

4861' - 20/10 thru 2" w/water

5302' - 8/10 thru 2" w/water

D.C. - 6/10 thru 2" w/water

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

Blauser/Couichean #1
 API No. 47-017-3879

(Continued)

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 8 21

WELL LOG

FORMATION COLOR HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
3rd Riley Shale	4650 4668	4668 4716	
Benson Sand and Shale	4716 4726	4726 4964	
Alexander Shale	4964 5060	5060 5302 T.D.	

MS

(Attach separate sheets as necessary)

RECEIVED
Division of Energy

FORM WW-2B FEB 08 91

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

47-017-3879
Issued 2/26/91
Expires 2/26/93
Page 3 of 8

- 1) Well Operator: Eastern American Energy Corporation 14980 (8) 610
- 2) Operator's Well Number: Blauser/Coulehan #1 WVDOD002301 3) Elevation: 887'
- 4) Well type: (a) Oil or Gas Deep 425'
- (b) If Gas: Production / Underground Storage / Shallow
- 5) Proposed Target Formation(s): Alexander
- 6) Proposed Total Depth: 5200 feet
- 7) Approximate fresh water strata depths: None
- 8) Approximate salt water depths: None
- 9) Approximate coal seam depths: 310'-313'
- 10) Does land contain coal seams tributary to active mine? Yes No
- 11) Proposed Well Work: Drill and complete new well.
- 12)

CASING AND TUBING PROGRAM

TYPE	SPECIFICATIONS			FOOTAGE INTERVALS		CEMENT Fill-up (Cu. ft.)
	Size	Grade	Weight per ft.	For drilling	Left in well	
Conductor	11"	F-25	37.5	30'	61'-----	
Fresh Water	8-5/8"	J-55	20.0	1035'	1035' - 425'	C.T.S. 38CSR18-11.3 38CSR18-11.2,2
Coal						
Intermediate						
Production	4-1/2"	J-55	10.5	5140'	5140'	38CSR18-11.1
Tubing	1-1/2"	H-40	2.75			
Liners						

PACKERS : Kind _____
 Sizes _____
 Depths set _____

16542
#5

Fee(s) paid: Well Work Permit Reclamation Fund WPCP
 Plat WW-9 WW-2B Bond (Type) _____ Agent

1) Date: December 28, 1990
2) Operator's well number
Blauser/Coulehan #1 - WVD0002301
3) API Well No: 47 - 017 - 3879
State - County - Permit

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

PERMITTING
Division of Energy

NOTICE AND APPLICATION FOR A WELL WORK PERMIT

FEB 0 8 91

4) Surface Owner(s) to be served:

(a) Name	Jane Hardin	5) (a) Coal Operator: Oil and Gas Section	Name	None
Address	225 Watchung Fort	Address		
(b) Name	West Field, NJ 07090	(b) Coal Owner(s) with Declaration	Name	None
Address	Rizabeth Jordan	Address		
	308 Church Street			
(c) Name	West Union, WV 26456	Name	None	
Address	William Stinespring	Address		
	38 Park Street			
	Shinnston, WV 26431			
Inspector	Mike Underwood	(c) Coal Lessee with Declaration	Name	None
Address	Rt. 2, Box 135	Address		
	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

XX 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 8 on the above named parties, by:

XX Personal Service (Affidavit attached)
XX Certified Mail (Postmarked postal receipt attached)
XX 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 Eastern American Energy Corporation
By: John M. Paletti *John M. Paletti*
Its: Designated Agent
Address P.O. Box M
Glenville, WV 26351
Telephone (304) 462-5781

Subscribed and sworn before me this 6th day of February, 1991

Edward Marie Strupp
My commission expires August 2, 1993 Notary Public