

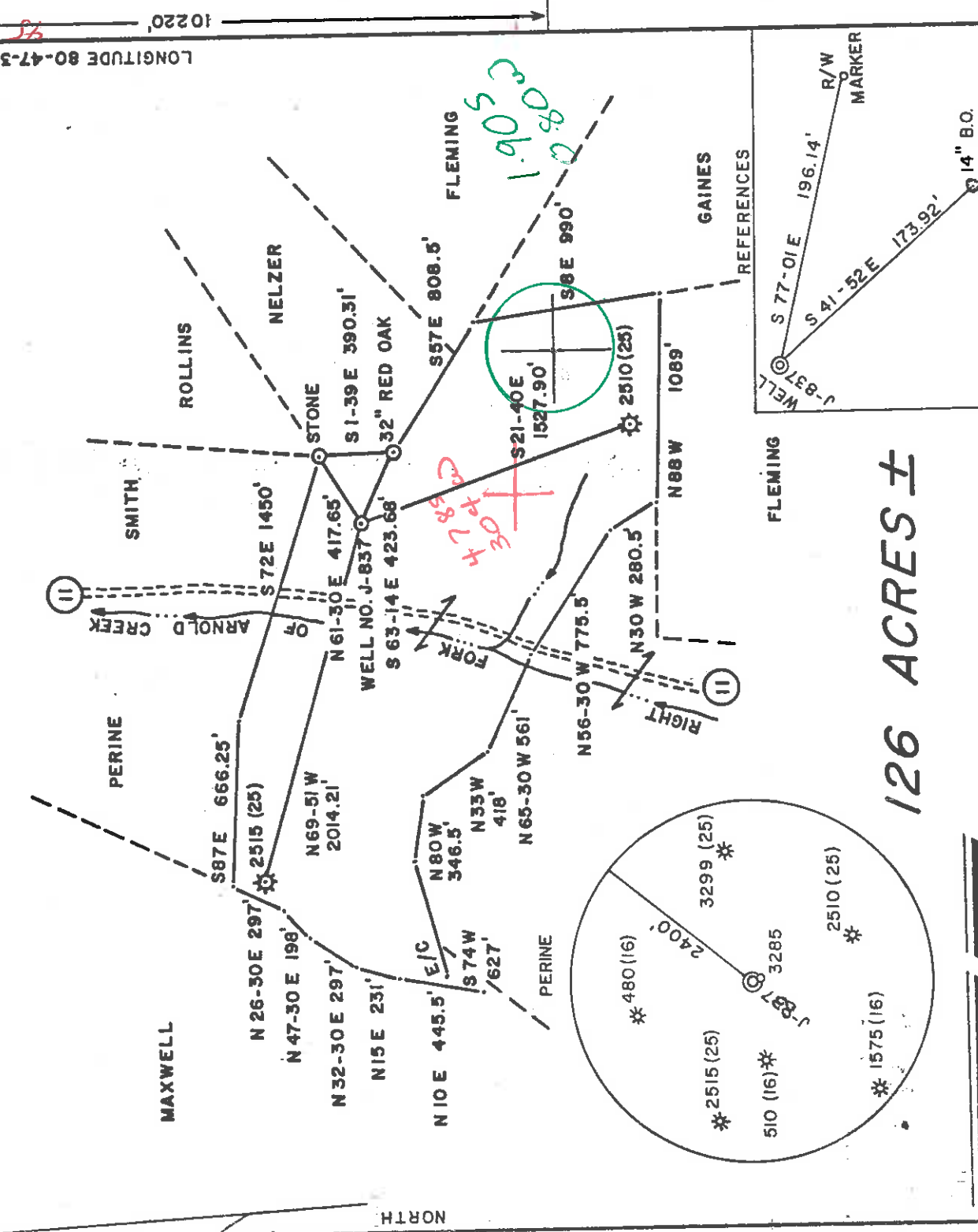
8/18/87

COONTZ LEASE

WELL NO. J-837

LONGITUDE 80-47-30

LATITUDE 39-17-30



126 ACRES ±



SMITH LAND SURVEYING



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 PERMIT

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS
DATE MAY 6, 19 87
OPERATORS WELL NO. J-837
API WELL NO. 47-017 - 3581 PERMIT

STATE OF WEST VIRGINIA
DEPARTMENT OF ENERGY
OIL AND GAS DIVISION

STATE FILE NO. 12-39 838
SCALE 1" = 800'
TOP OF KNOB ELEV. 1233'

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

LOCATION: ELEVATION 1186' WATERSHED RIGHT FORK OF ARNOLD CREEK
DISTRICT WEST UNION COUNTY DODDRIDGE QUADRANGLE WEST UNION 7.5' 671
SURFACE OWNER PAULINE BRITTON ACREAGE 22 of 62.5 133
OIL & GAS ROYALTY OWNER PAULINE BRITTON et.al. LEASE ACREAGE 126 869
LEASE NO. K-19

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 5700'

WELL OPERATOR J&J ENTERPRISES, INC. 427 DESIGNATED AGENT PAT HAWKINS
ADDRESS P.O. BOX 48 BUCKHANNON, WV. 26201 ADDRESS P.O. BOX 48 BUCKHANNON, WV 26201

ALR 2-A 1097
6-6 Straight Fork - Blue Stone Creek (133)

017 3581

RECORDED
Department of Energy

JUN 27 89

Office of Director
Herbert Spawne Britton

API # 47-017 -3581

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

Well Operator's Report of Well Work

Operator Well No.: COONTZ #3

LOCATION: Elevation: 1186' Quadrangle: WEST UNION 7.5'

District: WEST UNION County: DODDRIDGE
Latitude: 10,220 Feet SOUTH OF 39 Des. 17 Min. 30 Sec.
Longitude: 4,220 Feet WEST OF 80 Des. 47 Min. 30 Sec.

Company: EASTERN AMERICAN ENERGY CORP.

P. O. BOX N
GLENNVILLE, WV

Asent: DONALD C. SUPCOE

Inspector: MIKE UNDERWOOD

Permit Issued: 8/19/87

Well work Commenced: 05/03/89

Well work Completed: 05/22/89

Verbal Plussings

Permission granted on:

Rotary Cable Ris

Total Depth (feet) 5500'

Fresh water depths (ft) Damp @ 60'

Salt water depths (ft) None

Is coal beins mined in area (Y/N)? N

Coal Depths (ft): None

OPEN FLOW DATA

(Commingled)
Alexander-Benson/2nd,3rd Riley,

Producing formation Riley-Balltown-Speechley/Waxey zone depth (ft) 3413.5'~
Gas: Initial open flow .750 MCF/d Oil: Initial open flow 0 Bbl/d
Final open flow .500 MCF/d Final open flow 0 Bbl/d
Time of open flow between initial and final tests 24 Hours
Static rock Pressure 1550 Psis (surface pressure) after 15 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 Psis (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.

Rich Heffelfinger
For: EASTERN AMERICAN ENERGY CORP.

Ry: Rich Heffelfinger - Vice President - Regional Operations
Date: June 16, 1989

JUN 30 1989

(REVERSE)

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

5-Stage Foam Frac:

- Stage 1: 14 holes (5335'-5291') Breakdown @ 1510 psi, 60 Quality Foam, 50,000 lbs. of 20/40 sand, 539,000 scf of N₂
- Stage 2: 11 holes (5015'-4865') Breakdown @ 2800 psi, 60 Quality Foam, 25,000 lbs. of 20/40 sand, 405,000 scf of N₂
- Stage 3: 9 holes (4611'-4579.5') Breakdown @ 1500 psi, 75 Quality Foam, 25,000 lbs. of 20/40 sand, 560,000 scf of N₂
- Stage 4: 10 holes (4019.5'-3960') Breakdown @ 3800 psi, 75 Quality Foam, 25,000 lbs. of 20/40 sand, 619,000 scf of N₂
- Stage 5: 12 holes (3550'-3413.5') Breakdown @ 1500 psi, 75 Quality Foam, 25,000 lbs. of 20/40 sand, 578,000 scf of N₂ WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
Clay & Red Rock			0	20	Including indication of all fresh and salt water, coal, oil and gas Hole Damp @ 60' Gas Checks: 2191' - No show 2498' - 8/10 thru 1/2" w/water 3299' - No show 4099' - No show 4499' - 20/10 thru 1/2" w/water 4653' - 30/10 thru 1/2" w/water 4837' - 52/10 thru 1/2" w/water 5020' - 24/10 thru 1" w/water 5142' - 14/10 thru 1" w/water 5264' - 14/10 thru 1" w/water 5421' - 14/10 thru 1" w/water T.D. - 18/10 thru 1" w/water Collars - 10/10 thru 1" w/water
Sand & Shale			20	110	
Shale & Red Rock			110	170	
Sand & Shale			170	305	
Sand, Shale & Red Rock			305	705	
Sand & Shale			705	1025	
White Sand			1025	1130	
Green Sand			1130	1210	
Sand & Shale			1210	1870	
Sand			1870	1910	
Sand & Shale			1910	2023	
Big Lime			2023	2106	
Big Injun			2106	2166	
Shale			2166	2320	
Weir			2320	2432	
Shale			2432	2518	
Berea			2518	2526	
Sand & Shale			2526	3383	
Warren			3383	3442	
Shale			3442	3456	
Speechley			3456	3600	
Sand & Shale			3600	3920	
Balltown			3920	4024	
Sand & Shale			4024	4570	
Upper Riley			4570	4632	
Sand & Shale			4632	4798	
Rileys			4798	4962	
Shale			4962	5010	
Benson			4962	5020	
Sand & Shale			5010	5020	
Alexander			5020	5250	
Sand & Shale			5250	5340	
T.D.			5340	5500	

(Attach separate sheets as necessary)

FOR ANY RECEIVED
AUG 17 1987



1) Date: April 28, 1987
 2) Operator's Well No. J-837
 3) API Well No. 47 017 -3581
 State County Permit

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

4) WELL TYPE: A Oil Gas B (If "Gas", Production Underground storage Deep Shallow
 5) LOCATION: Elevation: 1186' Watershed: Right Fork of Arnold Creek
 District: West Union 8 County: Doddridge 017 Quadrangle: West Union 7.5' 670
 6) WELL OPERATOR J & J Enterprises, CODE: 24150 7) DESIGNATED AGENT ~~XXXXXXXXXXXX~~ P.O. Box 48
 Address: P.O. Box 48 Buckhannon, WV 26201
 8) OIL & GAS INSPECTOR TO BE NOTIFIED Name: Mike Underwood
 Address: Rt. 2, Box 135 Salfers, WV 26426
 9) DRILLING CONTRACTOR: Name: S.W. Jack Drilling Co.
 Address: P.O. Box 48 Buckhannon, WV 26201

10) PROPOSED WELL WORK: Drill deeper Plug off old formation Perforate new formation Redrill Stimulate
 Other physical change in well (specify) _____

11) GEOLOGICAL TARGET FORMATION, Alexander
 12) Estimated depth of completed well, 5700 feet
 13) Approximate trata depths: Fresh, 120 feet; salt, N/A feet.
 14) Approximate coal seam depths: N/A is coal being mined in the area? Yes No

15) CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS			FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS
	Size	Grade	Weight per ft.	For drilling	Left in well		
Conductor	11 3/4	H-40	42	250'	250'	To surface by rule	Rule 15.05
Fresh water	8 5/8	ERW	23	1336'	1336'	To Surface by Rule	15.05
Coal	8 5/8	ERW	23	1336'	1336'	To Surface by Rule	15.05
Intermediate	4 1/2	J-55	10 1/2	5700'	5600'	By Rule 15.05	15.05
Production							
Tubing							
Liners							

OFFICE USE ONLY
 DRILLING PERMIT
 Permit number 47-017-3581 Date August 19 19 87

This permit covering the well operator and well location shown below is evidence of permission granted to drill in accordance with the pertinent legal requirements subject to the conditions contained herein and on the reverse hereof. Notification must be given to the District Oil and Gas Inspector. (Refer to No. 8) Prior to the construction of roads, locations and pits for any permitted work. In addition, the well operator or his contractor shall notify the proper district oil and gas inspector 24 hours before actual permitted work has commenced.)

The permitted work is as described in the Notice and Application, plat, and reclamation plan, subject to any modifications and conditions specified on the reverse hereof. August 19, 1989 unless well work is commenced prior to that date and prosecuted with due diligence. Permit expires

Bond:	Agent:	Fee:	Other:
		2193	

Special Inspector by Permit 2 Area
 Director, Division of Oil and Gas

NOTE: Keep one copy of this permit posted at the drilling location. See the reverse side of the APPLICANT'S COPY for instructions to the well operator. File

