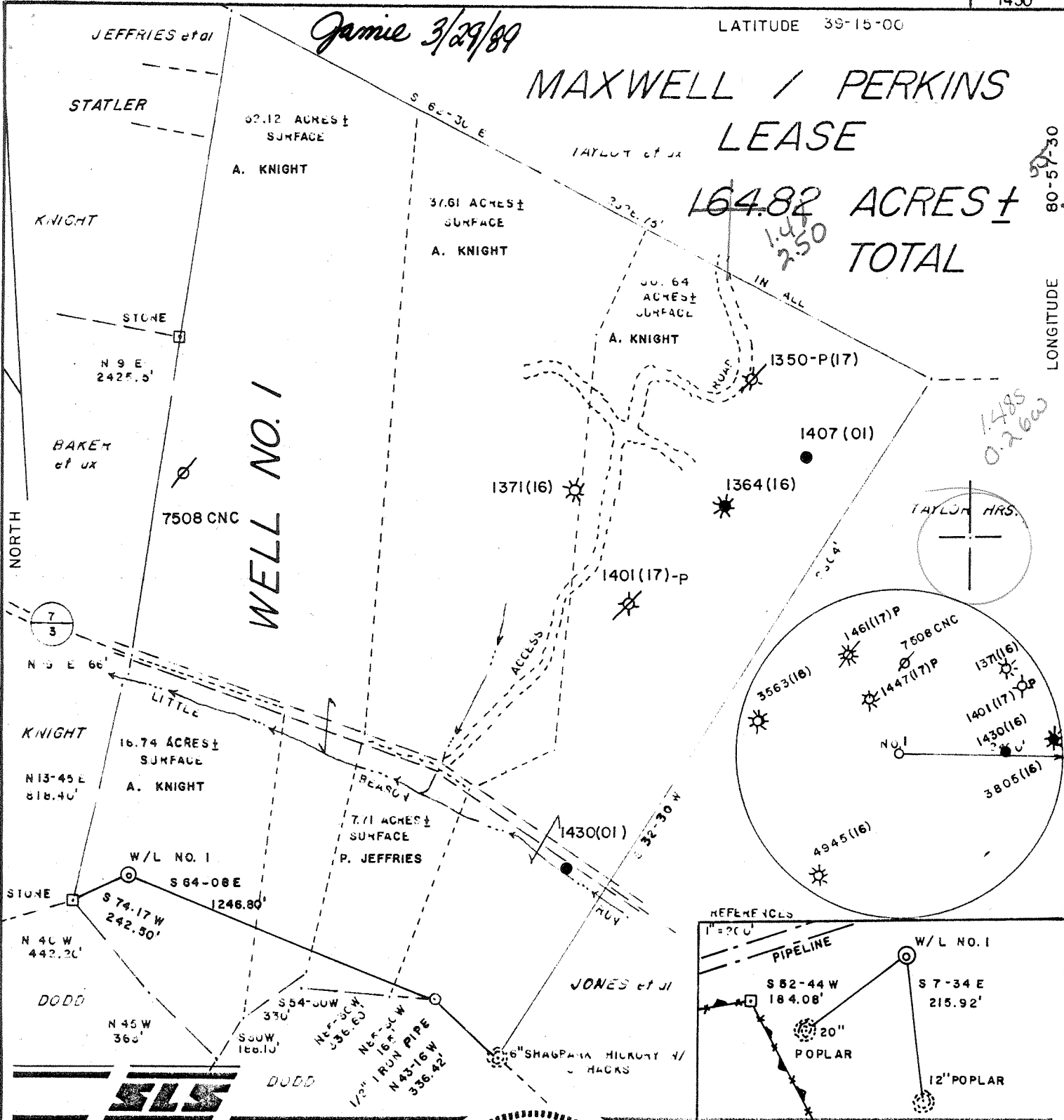


Jamie 3/29/89

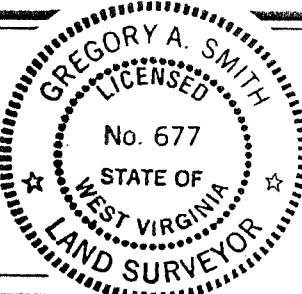
MAXWELL / PERKINS LEASE

164.82 ACRES ± TOTAL



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. 677 *Gregory A. Smith*



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.
 DATE FEBRUARY 16, 19 89
 OPERATORS WELL NO. M/P NO. 1
 WVRIT002901
 API WELL NO. 47-085-7839
 STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 200 FILE NO. 2007 (26, 48-50)
 PROVEN SOURCE OF ELEVATION TOP OF KNOB SCALE 1" = 500'
 ELEV. 1157'

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 1042' WATERSHED LITTLE REASON RUN DISTRICT CLAY COUNTY RITCHIE QUADRANGLE PULLMAN 7.5' 562
 SURFACE OWNER H.L. JONES et al ACREAGE 16.74 OF 164.82
 ROYALTY OWNER Porter M. Jarvis et al LEASE ACREAGE OF 164.82
 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 5350'

WELL OPERATOR EASTERN AMERICAN ENERGY CORP. DESIGNATED AGENT JOHN PALETTI
 ADDRESS P.O. BOX N GLENVILLE, WV 26031 ADDRESS P.O. BOX N GLENVILLE, WV 26031

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

Well Operator's Report of Well Work

Farm name: KNIGHT, ALPHA H. Operator Well No.: M/P 1

LOCATION: Elevation: 1042.00 Quadrangle: PULLMAN

District: CLAY County: RITCHIE
Latitude: 7850 Feet South of 39 Deg. 15Min. 0 Sec.
Longitude 1450 Feet West of 80 Deg. 57 Min. 30 Sec.

Company: EASTERN AMERICAN ENERGY C
501 56TH ST.
CHARLESTON, WV 25304-0000

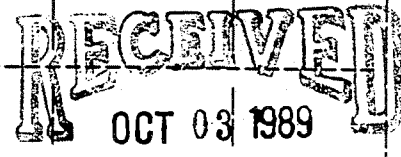
Agent: DONALD C. SUPCOE

Inspector: SAMUEL HERSMAN
Permit Issued: 03/29/89
Well work Commenced: 07/25/89
Well work Completed: 08/13/89
Verbal Plugging _____
Permission granted on: _____
Rotary X Cable _____ Rig
Total Depth (feet) 4,671'
Fresh water depths (ft) 140'

Salt water depths (ft) 1,465'

Is coal being mined in area (Y/N)? N
Coal Depths (ft): None

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
8-5/8"	1153'	1153'	C.T.C.
4-1/2"	4572.65'	4572.65'	839
1-1/2"	---	4453'	---



DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

OPEN FLOW DATA

Producing formation Riley, Warren (Commingled) Pay zone depth (ft) 4466.5' - 3332'
Gas: Initial open flow 411 MCF/d Oil: Initial open flow N/A Bbl/d
Final open flow 277 MCF/d Final open flow N/A Bbl/d
Time of open flow between initial and final tests 15 Hours
Static rock Pressure 1080 psig (surface pressure) after 24 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: Rich Heffelfinger
EASTERN AMERICAN ENERGY CORP.
Rich Heffelfinger
By: Vice President - Regional Operations
Date: September 27, 1989

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

2-STAGE FOAM FRAC

STAGE 1: Riley - 11 holes (4466.5'-4445.5') - Breakdown 2300 psi, 75 Quality Foam, 30 lbs/1000 gals Gel, 30,000 lbs 20/40 sand, 500 gals 15% HCl, 625,188 scf of N

STAGE 2: Warren - 12 holes (3364.5'-3332') Breakdown 2350 psi, 75 Quality Foam, 30 lbs/1000 gals Gel, 25,000 lbs 20/40 sand, 650 gals 28% HCl, 500,492 scf of N

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
					Including indication of all fresh and salt water, coal, oil and gas
Soil			0	10	1/4" Stream water @ 140'
Shale			10	25	1/4" stream water @ 1465'
Sand			25	40	
Shale and Red Rock			40	80	
Sand, Shale and Red Rock			80	260	Soap hole @ 1480'
Sand and Shale			260	529	
Shale and Red Rock			529	625	Oil Odor @ 1850'
Sand and Shale			625	710	
Sand			710	740	
Shale and Red Rock			740	970	
Sand and Shale			970	1449	<u>GAS CHECKS:</u>
Sand			1449	1520	2051' - No show
Sand and Shale			1520	1600	2250' - Oil Odor
Sand and Shale			1600	1830	2302' - No show
Little Lime			1830	1840	2554' - No show
Sand and Shale			1840	1865	3345' - No show
Big Lime			1865	1919	3754' - 10/10 thru 1/2" w/water
Sand and Shale			1919	2200	4133' - 4/10 thru 1/2" w/water
Siltstone			2200	2250	4385' - 4/10 thru 1/2" w/water
Weir			2250	2344	4512' - 10/10 thru 1/2" w/water
Shale, Siltstone and Sand			2344	3324	D.C. - 10/10 thru 1/2" w/water
Warren			3324	3389	
Shale, Siltstone, Tr. Sand			3389	4438	
Riley			4438	4485	
Shale			4485	4671 T.D.	

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OCT 03 1989

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

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085-7839
Issued 3/29/89 Expire 3/29/91
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FORM WW-2B

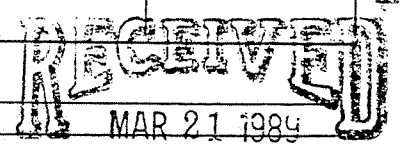
STATE OF WEST VIRGINIA
DEPARTMENT OF ENERGY, DIVISION OF OIL AND GAS
WELL WORK PERMIT APPLICATION

- 1) Well Operator: Eastern American Energy Corporation *14980, 1, 561*
- 2) Operator's Well Number: Maxwell/Perkins #1 WWRIT002901 3) Elevation: 1,042'
- 4) Well type: (a) Oil / or Gas XX /
(b) If Gas: Production XX / Underground Storage /
Deep / Shallow XX /
- 5) Proposed Target Formation(s): Alexander
- 6) Proposed Total Depth: 5350' feet
- 7) Approximate fresh water strata depths: 60, 372
- 8) Approximate salt water depths: None
- 9) Approximate coal seam depths: None
- 10) Does land contain coal seams tributary to active mine? Yes / No XX /
- 11) Proposed Well Work: Drill and complete new well.
- 12)

CASING AND TUBING PROGRAM

TYPE	SPECIFICATIONS			FOOTAGE INTERVALS		CEMENT
	Size	Grade	Weight per ft.	For drilling	Left in well	Fill-up (cu. ft.)
Conductor	11"	F-25	37.5		-----	
Fresh Water	8 5/8"	J-55	20.0	1,142	1, 142	C.T.S. 38CSR18-11.3
Coal						38CSR18-11.2.2
Intermediate						
Production	4 1/2"	J-55	10.5	5,225	5,225	38CSR18-11.1
Tubing	1 1/2"	H-40	2.75	3,500'	3,500'	
Liners						

PACKERS : Kind
Sizes
Depths set



2543

For Division of Oil and Gas Use Only

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

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

 Plat WW-9 WW-2B Bond Blanket Agent

(Type)

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MAR 21 1989

DIVISION OF OIL & GAS ³⁾
DEPARTMENT OF ENERGY

Date: March 10, 1989
Operator's well number
Maxwell/Perkins #1 WVRIT002901
API Well No: 47 - 085 - 7839
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:</p> <p>(a) Name <u>Alpha H. Knight</u>
Address <u>Rt. 1</u>
<u>Pennsboro, WV 26415</u></p> <p>(b) Name _____
Address _____</p> <p>(c) Name _____
Address _____</p> | <p>5) (a) Coal Operator:</p> <p>Name <u>N/A</u>
Address _____</p> <p>(b) Coal Owner(s) with Declaration</p> <p>Name _____
Address _____</p> <p>(c) Coal Lessee with Declaration</p> <p>Name _____
Address _____</p> |
| <p>6) Inspector <u>Samuel Hersman</u>
Address <u>Rt. 1, Box 240</u>
<u>Harrisville, WV 26362</u>
Telephone (304)- <u>628-3185</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

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 _____ on the above named parties, by:

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

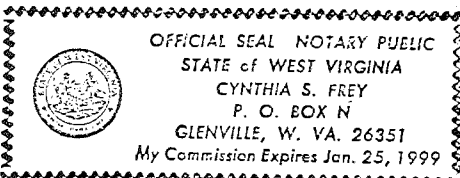
I have read and understand Chapter 22B and 38 CSR 11-18, and I agree to the terms and conditions of any permit issued under this application.

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 Eastern Energy Corporation
By: John M. Paletti *John M. Paletti*
Its: Designated Agent
Address P. O. Box N
Glenville, WV 26351
Telephone 304/462-5781

Subscribed and sworn before me this 17th day of March, 1989



Cynthia S. Frey
Notary Public
My commission expires January 25, 1999