

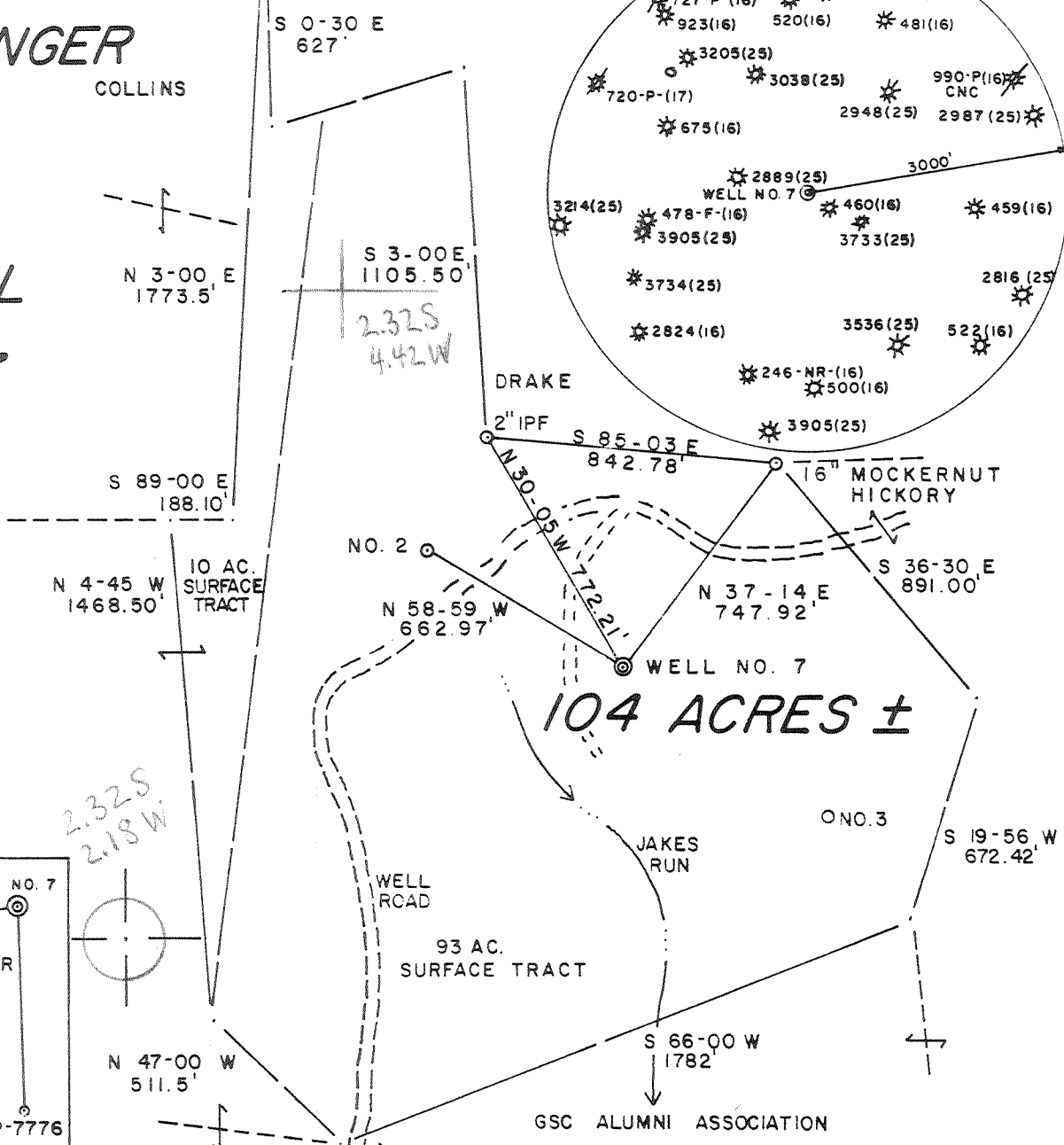
B.S. CODE LYON CARD PLOT BLACK
MESSENGER
 COLLINS

LATITUDE 39° 00' 00"

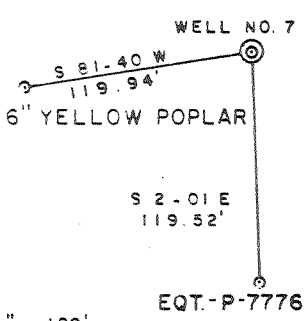
LONGITUDE 80° 42' 30" 80° 40'

WELL NO. 7

NORTH



REFERENCES



FILE NO. 14 - 73
 DRAWING NO. _____
 SCALE 1" = 500'
 MINIMUM DEGREE OF ACCURACY 1 / 200
 PROVEN SOURCE OF ELEVATION TOP OF KNOB
ELEV. 1242'

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) Gregory A. Smith
 R.P.E. _____ L.L.S. 677

PLACE SEAL HERE

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



DATE JULY 22, 1984
 OPERATOR'S WELL NO. WVGIL002607
 API WELL NO. 47 - 021 - 4247
 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 977' WATERSHED JAKES RUN - STEWARTS CREEK
 DISTRICT GLENVILLE COUNTY GILMER
 QUADRANGLE GILMER 7.5' Burnsville NW
 SURFACE OWNER GSC ALUMNI ASSOCIATION ACREAGE 93
 OIL & GAS ROYALTY OWNER B.S. MESSENGER LEASE ACREAGE 104
 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 ORISKANY ESTIMATED DEPTH 6800'
 WELL OPERATOR EASTERN AMERICAN ENERGY CORDESIGNATED AGENT DONALD SUPCOE
 ADDRESS P.O. BOX N ADDRESS P.O. BOX N
GLENVILLE, WV. 26351 GLENVILLE, WV. 26351

OCT 15 1984

66 Glenville North (182) Deep Well



IV-35
(Rev 8-81)

Date January 30, 1986
Operator's
Well No. 7
Farm B.S. MESSENGER
API No. 47 - 021 - 4247

State of West Virginia
DEPARTMENT OF ENERGY
Oil and Gas Division

WELL OPERATOR'S REPORT
OF
DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

WELL TYPE: Oil ___ / Gas x / Liquid Injection ___ / Waste Disposal ___ /
(If "Gas," Production x / Underground Storage ___ / Deep x / Shallow ___ /)

LOCATION: Elevation: 977' Watershed Jakes Run of Stewarts Creek
District: Glenville County Gilmer Quadrangle Glenville 7.5

COMPANY Eastern American Energy Corporation
ADDRESS P.O. Box N, Glenville, WV 26351
DESIGNATED AGENT Donald C. Supcoe
ADDRESS P.O. Box N, Glenville, WV 26351
SURFACE OWNER GSC Alumni Association
ADDRESS Glenville State College, Glenville, WV
MINERAL RIGHTS OWNER Darrell F. Messenger et al.
ADDRESS 1350 Leslie Drive, Merritt Island, PA
OIL AND GAS INSPECTOR FOR THIS WORK _____
Deo Mace ADDRESS Rt.1, Box 65, Sand Ridge, WV
PERMIT ISSUED 10/10/84
DRILLING COMMENCED 8/9/85
DRILLING COMPLETED 8/16/85
IF APPLICABLE: PLUGGING OF DRY HOLE ON
CONTINUOUS PROGRESSION FROM DRILLING OR
REWORKING. VERBAL PERMISSION OBTAINED
ON _____

Casing & Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft.
Size 20-16 Cond.			
13-10"	32'	---	---
9 5/8			
8 5/8	404.40'	404.40'	Surface
7			
5 1/2			
4 1/2	6950.85'	6950.85'	672.6'
3			
XX 1 1/2"	---	4440'	---
Liners used			

GEOLOGICAL TARGET FORMATION Oriskany commingled Benson-Elk Depth 7,000 feet
Depth of completed well 7026 feet Rotary X / Cable Tools _____
Water strata depth: Fresh 440 feet; Salt 550 feet
Coal seam depths: Unknown Is coal being mined in the area? No

OPEN FLOW DATA

Producing formation Benson/Elk Pay zone depth 4473'-4477 feet
Gas: Initial open flow 10 Mcf/d Oil: Initial open flow N/A Bbl/d
Final open flow 60 Mcf/d Final open flow N/A Bbl/d
Time of open flow between initial and final tests 8 hours
Static rock pressure 360 psig (surface measurement) after 24 hours shut in
(If applicable due to multiple completion--)
Second producing formation _____ Pay zone depth _____ feet
Gas: Initial open flow _____ Mcf/d Oil: Initial open flow _____ Bbl/d
Final open flow _____ Mcf/d Oil: Final open flow _____ Bbl/d
Time of open flow between initial and final tests _____ hours
Static rock pressure _____ psig (surface measurement) after _____ hours shut in

(Continued on reverse side)

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

Lower Elk 15 - 0.41 holes 6419' to 6055.5' CO₂ FRAC
 (Plugged back @ 4960') ← not a pay
 Elk 12 - 0.41 holes 4907.5' to 4802' 30,000 lbs. 20/40 sand.
 Benson 8 - 0.41 holes 4477' to 4473' 50,000 lbs. 20/40 sand.
 pay

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
					Including indication of all fresh and salt water, coal, oil and gas
K.B. G.L.			0	10	
Clay		Soft	10	14	
Shale	Gray	Soft	14	35	
Sandy Shale	L. Gray	Med.	35	54	
Sand	L. Gray	Hard	54	65	
Sandy Shale	Gray	Med.	65	86	
Sand	L. Gray	Hard	86	120	
Shale	Gray	Med.	120	175	
Sand	Gray	Hard	175	225	
Red Rock & Shale	Red/Gray	Soft	225	640	
Sand & Shale	L. Gray	Med.	640	1140	
Sand	White	Hard	1140	1253	
Sandy Shale	L. Gray	Med.	1253	1355	
Sand	L. Gray	Med.	1355	1367	
Sand & Shale	L. Gray	Med.	1367	1632	
Big Lime	L. Gray	Hard	1632	1717	
Injun	Gray	Hard	1717	1805	
Sand & Shale	Gray	Med.	1805	2035	
Sandy Shale	L. Gray	Med.	2035	2620	
Sand	Gray	Med.	2620	2725	
Sand & Shale	L. Gray	Med.	2725	3652	
Sand	Brown	Med.	3652	3685	
Sand & Shale	Gray	Med.	3685	4462	
Benson Sand	Brown	Med.	4462	4485	
Sand & Shale	L. Gray	Med.	4485	5220	
Sand	L. Gray	Med.	5220	5560	
Sandy Shale	Gray	Soft	5560	6516	
Lime & Sand	L. Gray	Hard	6516	7026	
		T.D.	7026		

461 6516
 475 6716
 485 6791

(Attach separate sheets as necessary)

EASTERN AMERICAN ENERGY CORPORATION

Well Operator

By: R. E. Hoffecker District Operations Mgr.

Date: January 30, 1986

Note: Regulation 2.02(i) provides as follows:
 "The term 'log' or 'well log' shall mean a systematic detailed geological record of all formations, including ... encountered in the drilling of a well."



1) Date: August 21, 19 84
 2) Operator's Well No. B.S. MESSENGER #7
 3) API Well No. 47 - 021 - 4247
 State County Permit

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES, 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: 977' / Watershed: Jakes Run of Stewarts Creek LK 79
 District: Glenville / County: Gilmer / Quadrangle: Gilmer 7.5'
- 6) WELL OPERATOR Eastern American Energy Corp. / 7) DESIGNATED AGENT Donald C. Supcoe
 Address P.O. Box N, Glenville, WV 26351 / Address P.O. Box N, Glenville, WV 26351
(304) 462-5781 / (304) 462-5781
- 8) OIL & GAS INSPECTOR TO BE NOTIFIED / 9) DRILLING CONTRACTOR:
 Name Deo Mace 655-8693 / Name Unknown
 Address Rt. 1, Box 65 / Address _____
Sand Ridge, WV 25274
- 10) PROPOSED WELL WORK: Drill / Drill deeper / Redrill / Stimulate
 Plug off old formation / Perforate new formation /
 Other physical change in well (specify) _____
- 11) GEOLOGICAL TARGET FORMATION, Oriskany
- 12) Estimated depth of completed well, 6400 feet
- 13) Approximate strata depths: Fresh, 200 feet; salt, None feet.
- 14) Approximate coal seam depths: Unknown Is coal being mined in the area? Yes / No

RECEIVED
 AUG 27 1984

OIL & GAS DIVISION
 DEPT. OF MINES

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.	New	Used	For drilling	Left in well		
Conductor	10 3/4	F-25	32.7		X	25	-0-		Kinds
Fresh water	8 5/8	CW	20	X		400	400	CTS 50/50	Poz
Coal									WOC Size 60 HR.
Intermediate									
Production	4 1/2	J-55	10.5	X		6400	6400	375 Ft. ³	Depths set
Tubing	1 1/2	H-40	2.7	X			6250		
Liners									Perforations: Top Bottom

OFFICE USE ONLY
 DRILLING PERMIT

Permit number 47-021-4247 / Date October 10, 19 84

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.
 Permit expires October 10, 1986 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond: <u>57</u> BLANKET	Agent: <u>LS</u>	Plat: <u>MW</u>	Casing: <u>MW</u>	Fee: <u>238</u>
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Margaret J. Hass
 Administrator, Office 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