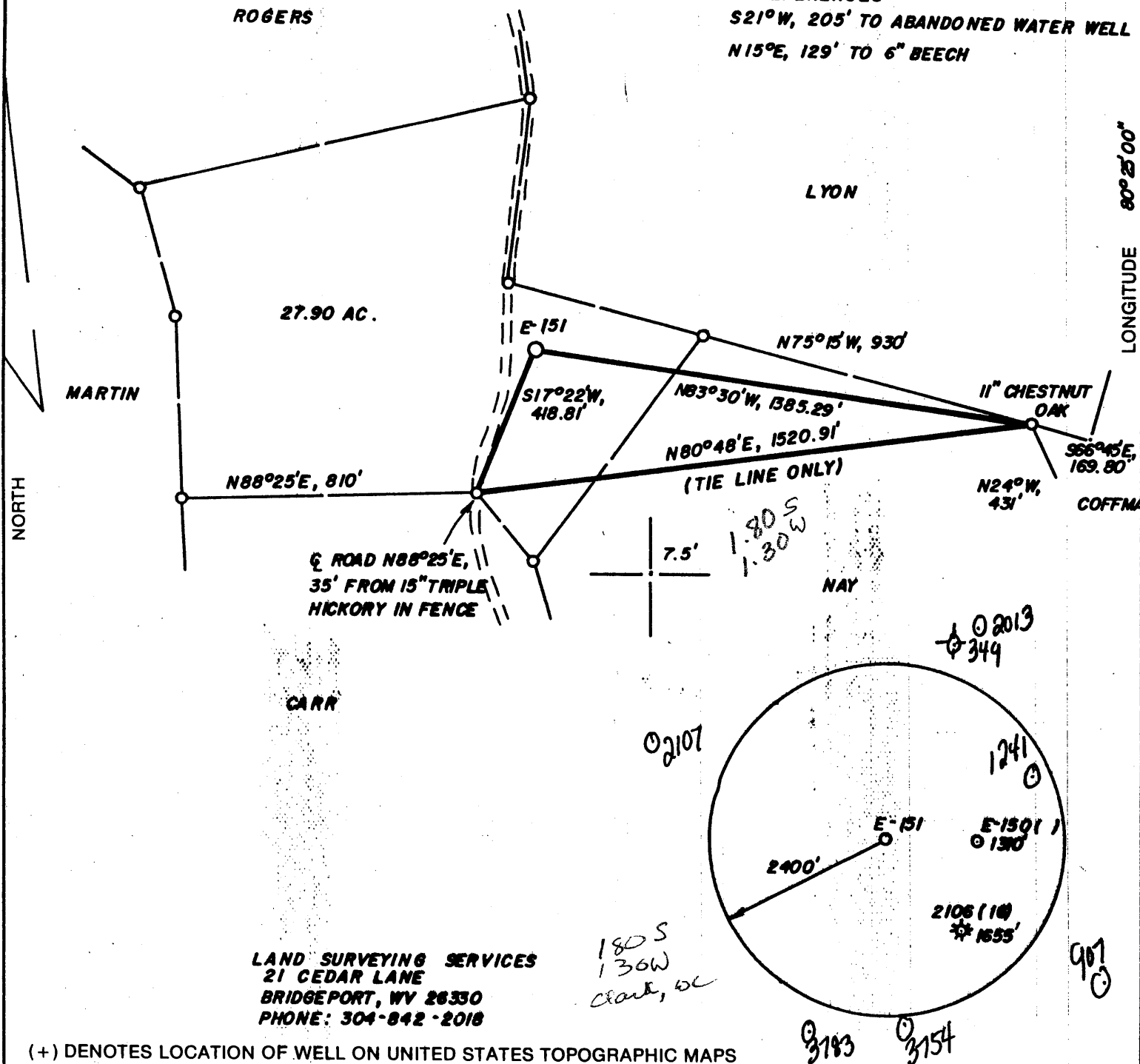


Jamie
3/1/91

WELL REFERENCES:
S21°W, 205' TO ABANDONED WATER WELL
N15°E, 129' TO 6" BEECH

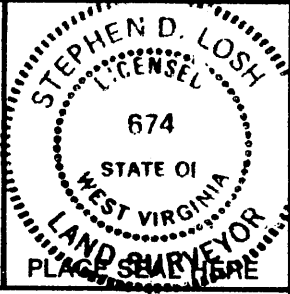


LAND SURVEYING SERVICES
21 CEDAR LANE
BRIDGEPORT, WV 26330
PHONE: 304-842-2018

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS

FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 400'
 MINIMUM DEGREE OF ACCURACY 1 IN 200
 PROVEN SOURCE OF ELEVATION ROAD INT. 2300' SE. OF LOC. AT ELEV. 997'

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.
 (SIGNED) _____
 R.P.E. _____ L.L.S. NO. 674
STEPHEN D. LOSH



STATE OF WEST VIRGINIA
 DEPARTMENT OF ENERGY
OIL AND GAS DIVISION



DATE NOV. 18, 19 90
 OPERATOR'S WELL NO. M. J. ROGERS I
 API WELL NO. E-151
47 - 033 - 3804
 STATE COUNTY PERMIT

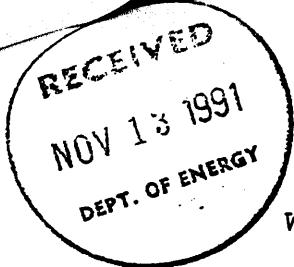
WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___
 (IF "GAS,") PRODUCTION X STORAGE ___ DEEP ___ SHALLOW X
 LOCATION: ELEVATION 1178' WATER SHED CALDWELL RUN
 DISTRICT SARDIS 7 COUNTY HARRISON
 QUADRANGLE WALLACE

SURFACE OWNER HAROLD McCORMICK ACREAGE 27.90
 OIL & GAS ROYALTY OWNER M. J. ROGERS HRS. LEASE ACREAGE 205.

PROPOSED WORK: DRILL X 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 BENSON ESTIMATED DEPTH _____
 WELL OPERATOR EXCEL ENERGY, INC. DESIGNATED AGENT HARRY BARNETT
 ADDRESS P. O. BOX 1020 ADDRESS P. O. BOX 1020
BRIDGEPORT, WV 26330 BRIDGEPORT, WV 26330

66 Brown-Lumberport (104)



01-Mar-91
API # 47- 33-03804

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

Reviewed TMG
Recorded _____

Well Operator's Report of Well Work

Farm name: MCCORMICK, HAROLD ESTATE Operator Well No.: ROGERS #1-E-151

LOCATION: Elevation: 1178.00 Quadrangle: WALLACE

District: SARDIS County: HARRISON
Latitude: 9485 Feet South of 39 Deg. 25Min. 0 Sec.
Longitude 6830 Feet West of 80 Deg. 25 Min. 0 Sec.

Company: EXCEL ENERGY, INC
P. O. BOX 1020
BRIDGEPORT, WV 26330-1020

Agent: HARRY L. BARNETT

Inspector: STEVE CASEY
Permit Issued: 03/01/91
Well work Commenced: 10-24-91
Well work Completed: 11-1-91
Verbal Plugging _____
Permission granted on: _____
Rotary x Cable _____ Rig _____
Total Depth (feet) 3838
Fresh water depths (ft) _____
22,603,623
Salt water depths (ft) _____
996
Is coal being mined in area (Y/N)? _____
Coal Depths (ft): 50-51; 264-65; 327-29;
460-75; (Open)

Casing & Tubing	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
Size			
13 3/8	Conductor	-	-
9 5/8	532	532	CTS
4 1/2	3702	3702	650 SKS

OPEN FLOW DATA

Producing formation Balltown, Speechley, Elizabeth Pay zone depth (ft) 2947-36
 Gas: Initial open flow show MCF/d Oil: Initial open flow n/a Bbl/
 Final open flow 961 MCF/d Final open flow n/a Bbl/
 Time of open flow between initial and final tests 5 Hour
 Static rock Pressure 369 psig (surface pressure) after 24 Hour

Second producing formation Big Injun, 50', Gordon, 4th Pay zone depth (ft) 1691-25
 Gas: Initial open flow show MCF/d Oil: Initial open flow show Bbl/
 Final open flow commingled MCF/d Final open flow show Bbl/
 Time of open flow between initial and final tests commingled Hour
 Static rock Pressure commingled psig (surface pressure) after commingled Hour

NOTE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1). DETAILS OF PERFORATE 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: EXCEL ENERGY, INC

By: H. L. Barnett H. L. BARNETT, P
Date: November 11, 1991

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

- I (2947-3647) 15 holes, 350 sks. sand, 315 BBL H₂O, 500 gal. 15% HCL
- II (2253-2535) 16 holes, 350 sks. sand, 352 BBL 75Q Foam, 750 gal. 15% HCL
- III (1691-1829) 15 hoels, 350 sks. sand, 323 BBL H₂O, 250 gal. 15% HCL

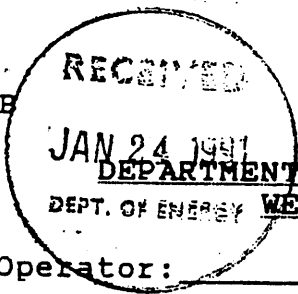
WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
FILL			0	10	
SAND & SHALE			10	50	1/4" H ₂ O @ 22'
COAL			50	51	
SAND & SHALE			51	264	
COAL			264	265	
SAND & SHALE			265	327	
COAL			327	329	
SAND & SHALE			329	460(0)	
SHALE & COAL			460	475	(open coal mine)
SAND & SHALE			475	830	1/4" H ₂ O @ 603, 1/2" H ₂ O @
SAND			830	1047	1/2" H ₂ O @ 996
SAND & SHALE			1047	1544	
SAND			1544	1644	
BIG LIME			1644	1679	
BIG INJUN			1679	1768	Gas Show
SHALE			1768	2255	
50' SAND			2255	2312	
SAND & SHALE			2312	2526	
SHALE			2526	3265	
SPEECHLEY			3265	3295	Gas Show
SHALE			3295	3594	
BALLTOWN			3594	3642	Gas Show
SHALE			3642	3838	DTD

056L

033-3804
Issued 3/1/91

FORM WW-2B



Page ___ of ___

Expires 3/1/93

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

- 1) Well Operator: Excel Energy, Inc. 1628 14570 (7) 654
- 2) Operator's Well Number: E-151 3) Elevation: 1178'
- 4) Well type: (a) Oil ___ / or Gas X /
(b) If Gas: Production X / Underground Storage ___ /
Deep ___ / Shallow X /
- 5) Proposed Target Formation(s): Balltown 433
- 6) Proposed Total Depth: 4,000 feet
- 7) Approximate fresh water strata depths: 30', 125' & 350' 85
- 8) Approximate salt water depths: N/A 1115'
- 9) Approximate coal seam depths: 289', 327' & 359' 370'-375'
- 10) Does land contain coal seams tributary to active mine? Yes ___ / No X /
- 11) Proposed Well Work: Drill and stimulate a 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 3/4"		42#	30'	-----	-----
Fresh Water						
Coal						
Intermediate	8 5/8"		20#	1100'	1100'	275 sks
Production	4 1/2"	J-55	10.50#	3950'	3950'	500 sks
Tubing						
Liners						

PACKERS : Kind _____
 Sizes _____
 Depths set _____

For Division of Oil and Gas Use Only

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