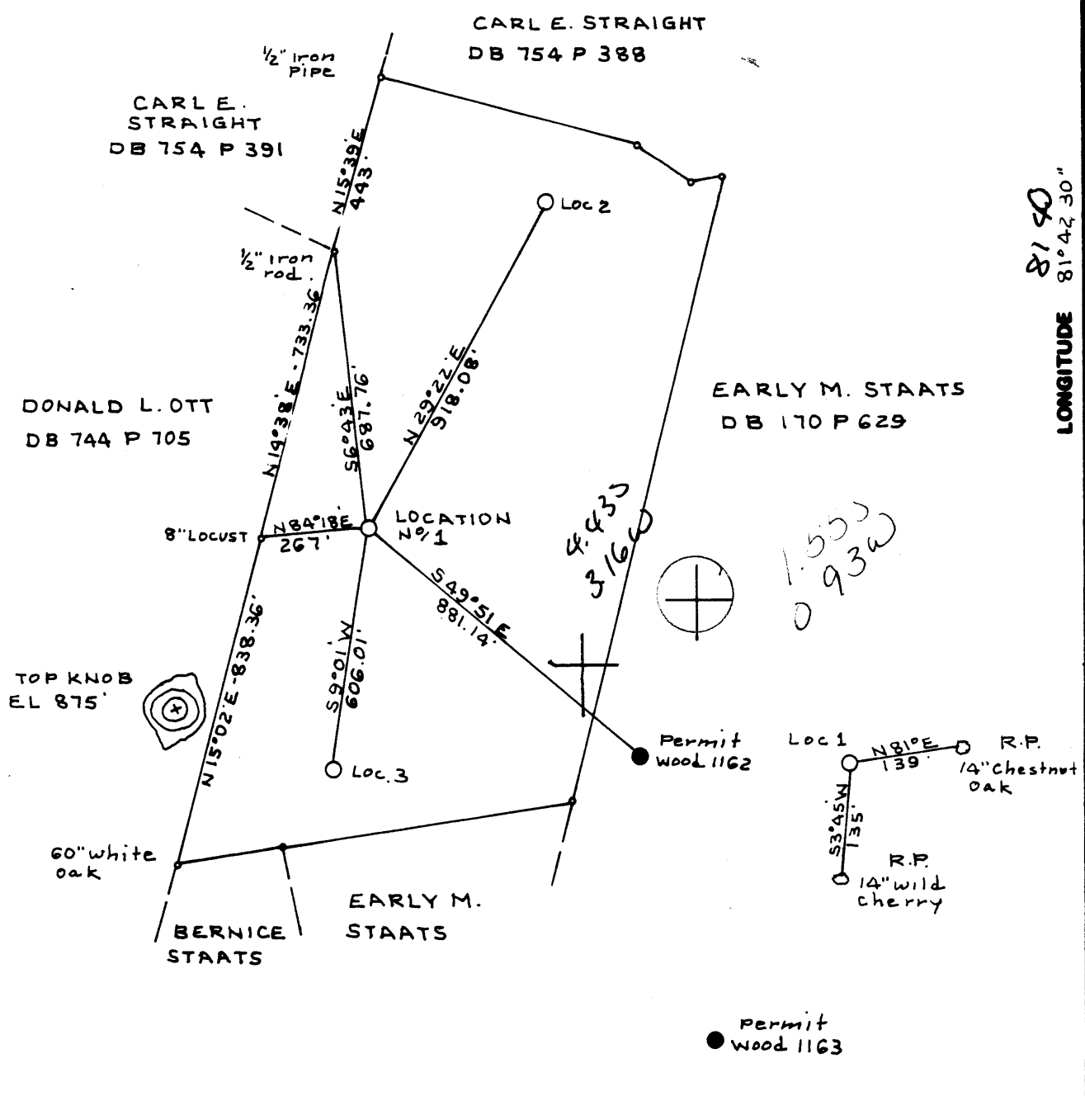


NORTH



FILE NO. BK 90 PG 85
 DRAWING NO. _____
 SCALE 1" = 400'
 MINIMUM DEGREE OF ACCURACY 1:200'
 PROVEN SOURCE OF ELEVATION USGS TOP KNOB AS SHOWN EL 875'

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) C. S. Volney Jr.
 R.P.E. A.S. 92

PLACE SEAL HERE

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



DATE DEC 5, 1984
 OPERATOR'S WELL NO. STAATS N° 1
 API WELL NO. _____
47 - 107 - 1348
 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 781.41 WATERSHED SHORT RUN OF POND CREEK
 DISTRICT HARRIS 2 COUNTY WOOD
 QUADRANGLE POND CREEK WV-OHIO Bellville 15' WC 4
 SURFACE OWNER BERNICE IRENE STAATS ACREAGE 70
 OIL & GAS ROYALTY OWNER BERNICE IRENE STAATS LEASE ACREAGE 70
 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 BEREA ESTIMATED DEPTH 2100
 WELL OPERATOR TXO PRODUCTION COREDESIGNATED AGENT KENNETH TATARYZN
 ADDRESS 900 CHARLESTON NATIONAL PLAZA ADDRESS 900 CHARLESTON NATIONAL PLAZA
CHARLESTON WV, 25301 CHARLESTON WV, 25301

FEB 11 1985

RECEIVED

JUN 24 1985



IV-35 (Rev 8)

RECEIVED DEPT. OF MINES

OIL & GAS DIVISION DEPT. OF MINES

State of West Virginia Department of Mines Oil and Gas Division

Date May 3, 1985 Operator's Well No. Staats #1 Farm API No. 47 - 107 - 1348

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

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

LOCATION: Elevation: 781.41' Watershed Short Run of Pond Creek District: Harris County Wood Quadrangle Pond Creek

COMPANY TXO Production Corp. ADDRESS 900 Charleston National Plaza DESIGNATED AGENT Kenneth W. Tatarzyn ADDRESS 900 Chas. Nat. Plaza, Chas., WV 25301 SURFACE OWNER Percy A. Staats 119 Manchester Road ADDRESS Oakridge, TN 37830 MINERAL RIGHTS OWNER Same ADDRESS OIL AND GAS INSPECTOR FOR THIS WORK Glen P. Robinson ADDRESS Mineral Wells, WV PERMIT ISSUED 2-7-85 DRILLING COMMENCED 4-16-85 DRILLING COMPLETED 5-2-85 IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED ON

Table with 4 columns: Casing & Tubing, Used in Drilling, Left in Well, Cement fill up Cu. ft. Rows include sizes 20-16 Cond., 13-10", 9 5/8, 8 5/8 (342'), 7, 5 1/2, 4 1/2 (2180'), 3, 2, and Liners used.

GEOLOGICAL TARGET FORMATION Berea Depth 2100' feet Depth of completed well 2088' PBD feet Rotary x / Cable Tools Water strata depth: Fresh feet; Salt feet Coal seam depths: Is coal being mined in the area? x

OPEN FLOW DATA

Producing formation Berea Pay zone depth 2075-78' feet Gas: Initial open flow 25 Mcf/d Oil: Initial open flow 20 Bbl/d Final open flow 25 Mcf/d Final open flow 20 Bbl/d Time of open flow between initial and final tests 24 hours Static rock pressure 350 psig (surface measurement) after 72 hours shut in (If applicable due to multiple completion--)

(Continue on reverse side)

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

Perf Berea w/3-1/8" csg gun, 8 SPF @ 2075-78'. Total 26 shots.

Frac Berea w/39M gal 75% Q foam + 34M # sand.

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
Shale & Sand			0	987	Drilled on water.
1st Salt Sand			987	1135	Coal: 525-527, 544-551, 841-845,
2nd Salt Sand			1135	1267	922-923, 1130-1132, 1221-1224,
3rd Salt Sand			1267	1390	1230-1233, 1249-1251, 1304-1306,
Maxton			1390	1609	1317-1319, 1322-1324, 1326-1329,
Big Lime			1609	1645	1333-1335, 1336-1338, 1372-1374,
Shale & Siltstone			1645	2056	1520-1523, 1576-1579'.
Sunbury Shale			2056	2074	
Berea			2074	2077	Show of oil in Berea.
Bedford Shale			2077	2188 TD	

(Attach separate sheets as necessary)

TXO Production Corp.
Well Operator

By: K. Tatarzyn Kenneth W. Tatarzyn

Date: May 3, 1985

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 coal, encountered in the drilling of a well."



1) Date: December 10, 19 84
 2) Operator's Well No. Staats #1
 3) API Well No. 47 - 107 - 1348
 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: 781.41 Watershed: Short Run of Pond Creek
 District: Harris County: Wood Quadrangle: Pond Creek
 6) WELL OPERATOR TXO Production Corp. 50375 7) DESIGNATED AGENT Kenneth Tatarzyn
 Address 900 Charleston National Plaza Address 900 Charleston National Plaza
Charleston, WV 25301 Charleston, WV 25301
 8) OIL & GAS INSPECTOR TO BE NOTIFIED 9) DRILLING CONTRACTOR:
 Name Glen P. Robinson Name _____
 Address Rt. 1, #6 Address _____
Mineralwells, WV 26150
 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, Berea
 12) Estimated depth of completed well, 2100' feet
 13) Approximate strata depths: Fresh, _____ feet; salt, _____ feet.
 14) Approximate coal seam depths: _____ 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.	New	Used	For drilling	Left in well		
Conductor	13-3/8			X		20	20		Kinds
Fresh water	7	J55	20	X		1350	1350	By reg. 15.05	
Coal									Sizes
Intermediate									
Production	4-1/2	J55	10.5	X		2100	2100	By Reg. 15.01	Depths set
Tubing									
Liners									Perforations: Top Bottom

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JAN 23 1985

OIL & GAS DIV.
 DEPT. OF MINES

OFFICE USE ONLY
 DRILLING PERMIT

Permit number 47-107-1348

February 7, 19 85
 Date

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 February 7, 1987 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond:	Agent:	Plat:	Casing	Fee
154	MU	MU	MU	50401

Margaret J. Hesse
 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