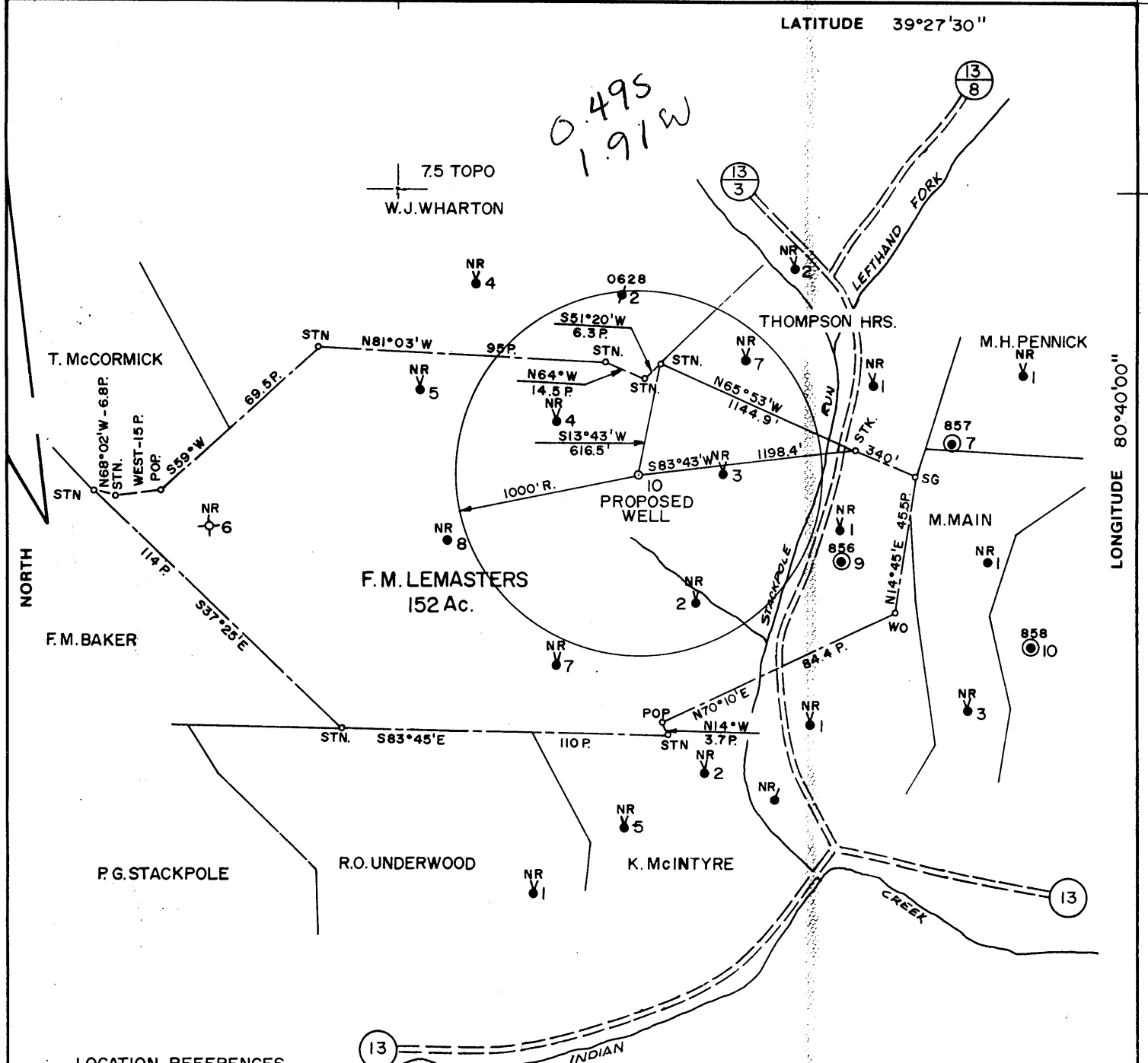


28 6-21-90

10100'

LATITUDE 39°27'30"

LONGITUDE 80°40'00"



LOCATION REFERENCES

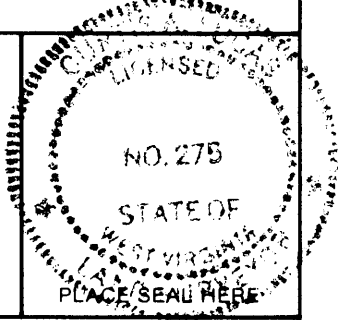
N60°12'W 143.8' (H.D.=143.4') 10" W.O.
 N16°07'E 154.1' (H.D.=146.6') 8" MAP.
 N49°52'E 158.1' (H.D.=153.4') 12" W.O.

NOTE: NO WATER SUPPLY WITHIN 1000'R.

3.375
 1.91 W
 Centered NW

FILE NO. 949
 MAP N47 SQS W5 NI
 SCALE 1"=800'
 MINIMUM DEGREE OF ACCURACY 1 IN 200
 PROVEN SOURCE OF ELEVATION F.M. LEMASTERS NO. 9
ELEV. = 927.52'

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) Curtis A. Lucas
 CURTIS A. LUCAS LLS 275



STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION



DATE MAY 29, 1986
 FARM F.M. LEMASTERS NO. 10
 API WELL NO.

47 - 095 - 1412-21
 STATE COUNTY PERMIT

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS
 WELL TYPE: OIL ___ GAS ___ LIQUID INJECTION ___ WASTE DISPOSAL ___
 (IF "GAS,") PRODUCTION ___ STORAGE ___ DEEP ___ SHALLOW ___
 LOCATION: ELEVATION 996' WATER SHED STACKPOLE RUN
 DISTRICT McELROY 5 COUNTY TYLER
 QUADRANGLE CENTER POINT 7.5'

SURFACE OWNER YVONNE WADSWORTH ACREAGE 152 AC.
 OIL & GAS ROYALTY OWNER GRACE L. TETERS LEASE ACREAGE 152 AC.
 LEASE NO. 47221-00

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 GORDON ESTIMATED DEPTH 2928

WELL OPERATOR PENNZOIL COMPANY DESIGNATED AGENT JAMES A. CREWS
 ADDRESS P.O. BOX 1588 ADDRESS P.O. BOX 1588
PARKERSBURG, W.V. 26101 PARKERSBURG, W.V. 26101

was + year 1142

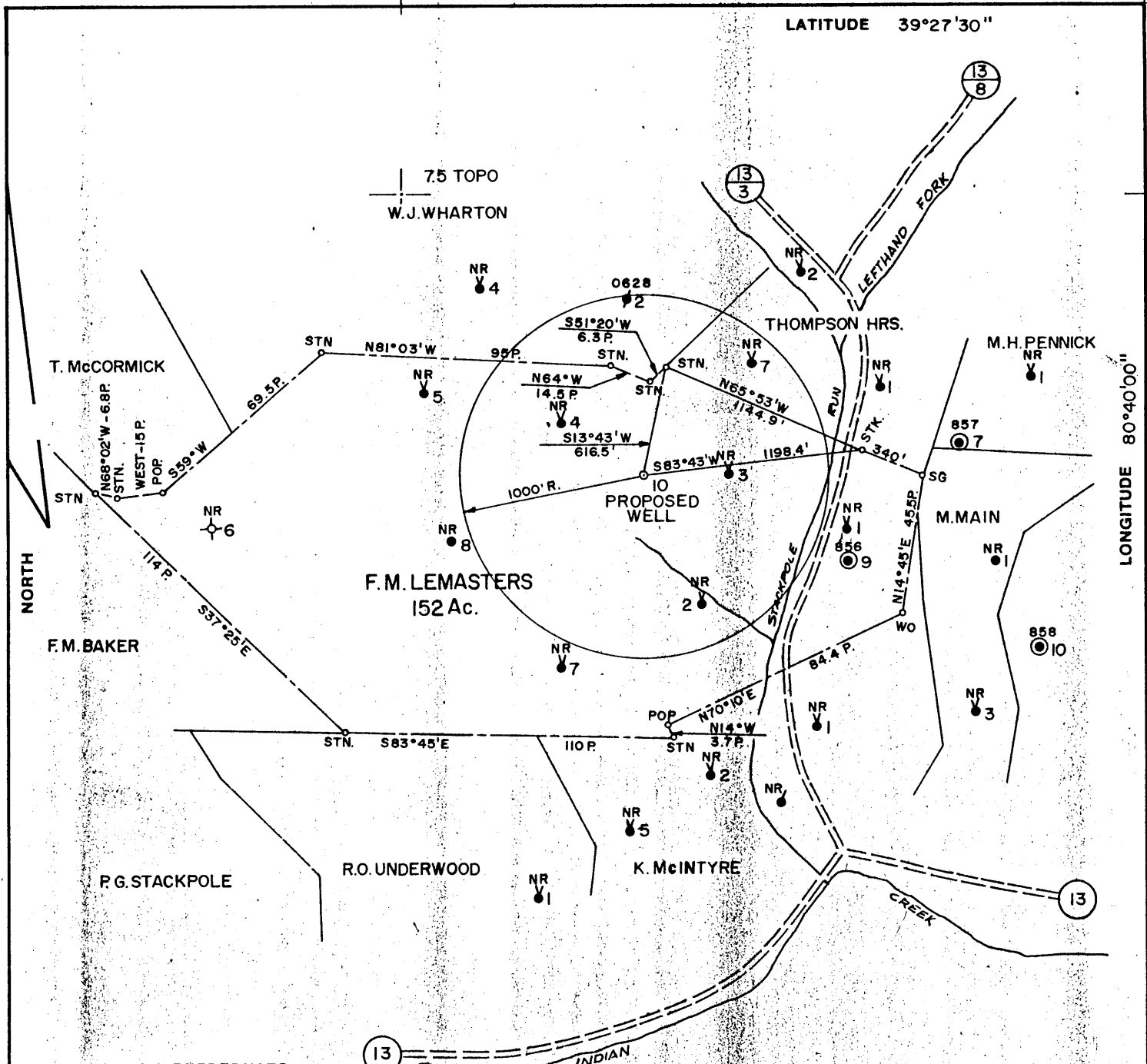
TYLER - 1412

8-0 Jacksonburg - stringtown (Coas)

JUL 27 1990

FORM IV-6 (8-78)

H. T. HALL



LOCATION REFERENCES

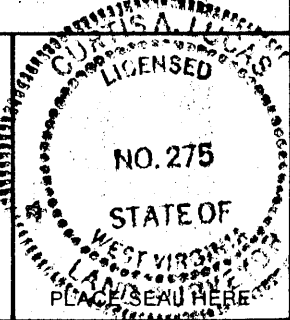
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 N16°07'E 154.1' (H.D.=146.6') 8" MAP.
 N49°52'E 158.1' (H.D.=153.4') 12" W.O.

NOTE: NO WATER SUPPLY WITHIN 1000'R.

FILE NO. 949
 MAP N47 SQS W5 N1
 SCALE 1"=800'
 MINIMUM DEGREE OF ACCURACY 1 IN 200
 PROVEN SOURCE OF ELEVATION F.M. LEMASTERS NO. 9
 ELEV. = 927.52'

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) Curtis A. Lucas
 CURTIS A. LUCAS LLS 275



**STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION**



DATE MAY 29, 1986
 FARM F.M. LEMASTERS NO. 10
 API WELL NO.

47 - 095 - 1142-LI
 STATE COUNTY PERMIT

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS
 WELL TYPE: OIL ___ GAS ___ LIQUID INJECTION X WASTE DISPOSAL ___
 (IF "GAS,") PRODUCTION ___ STORAGE ___ DEEP ___ SHALLOW ___
 LOCATION: ELEVATION 996' WATER SHED STACKPOLE RUN
 DISTRICT McELROY COUNTY TYLER
 QUADRANGLE CENTER POINT 7.5'

CANCELLED

SURFACE OWNER YVONNE WADSWORTH ACREAGE 152 AC.
 OIL & GAS ROYALTY OWNER GRACE L. TETERS LEASE ACREAGE 152 AC.

now Tyler 1412

LEASE NO. 47221-00
 PROPOSED WORK: DRILL X CONVERT ___ DRILL DEEPER ___ REDRILL ___ FRACTURE OR STIMULATE ___ PLUG OFF OLD FORMATION ___ PERFORATE NEW FORMATION ___ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) ___

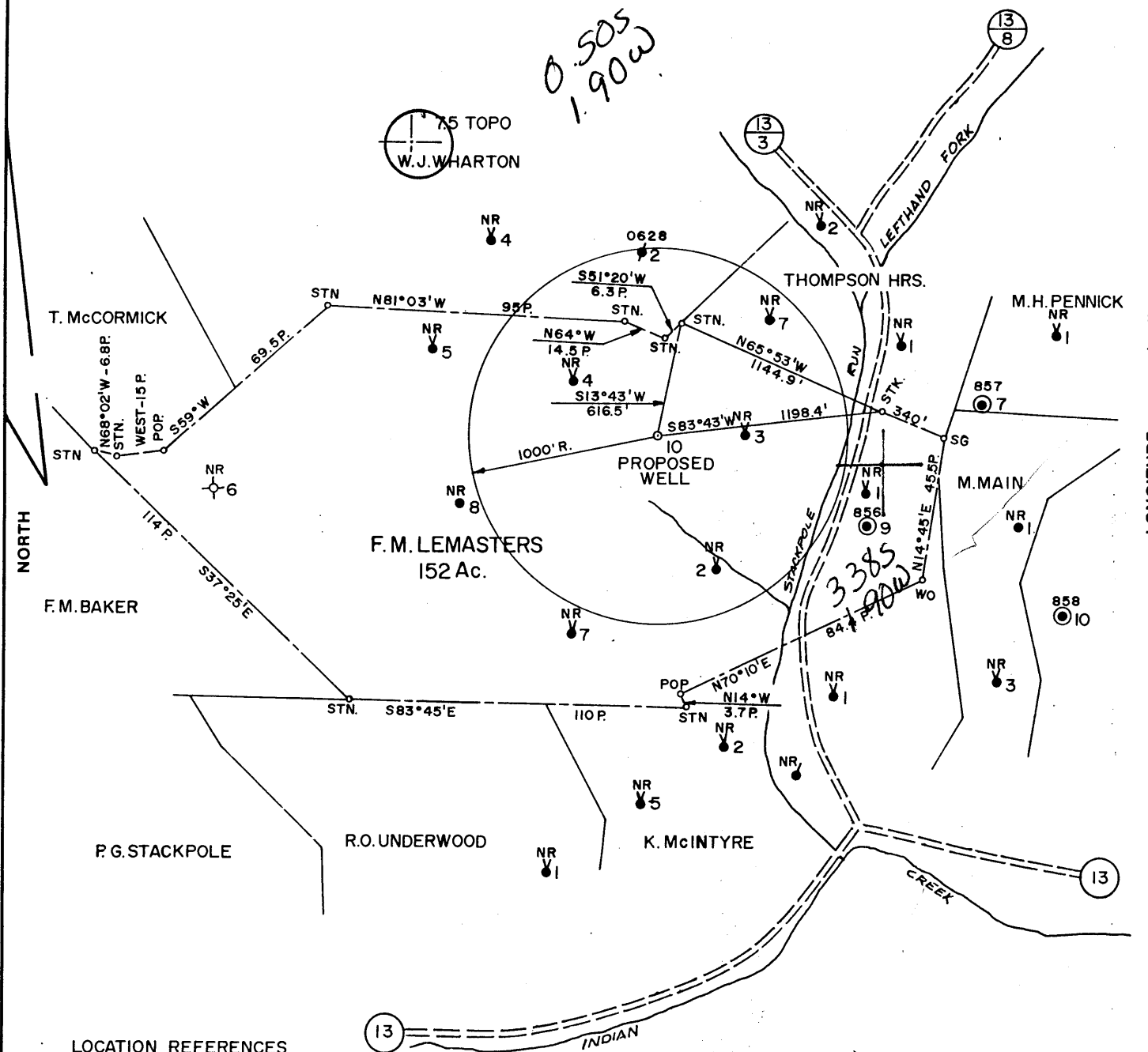
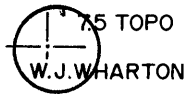
PLUG AND ABANDON ___ CLEAN OUT AND REPLUG ___
 TARGET FORMATION GORDON ESTIMATED DEPTH 2928'
 WELL OPERATOR PENNZOIL COMPANY DESIGNATED AGENT JAMES A. CREWS
 ADDRESS P.O. BOX 1588 ADDRESS P.O. BOX 1588
PARKERSBURG W.V. 26101 673 PARKERSBURG W.V. 26101

AUG 01 1988

FORM IV-C (8-7-80)

TYLER 1142-LI

0.505
1.90W



3385
1.90W

LOCATION REFERENCES

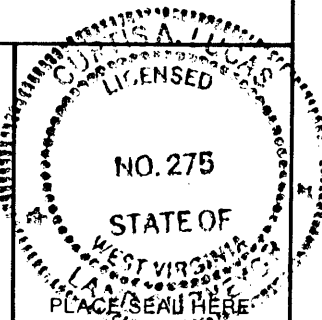
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N16°07'E 154.1' (H.D.=146.6') 8" MAP.
N49°52'E 158.1' (H.D.=153.4') 12" W.O.

NOTE: NO WATER SUPPLY WITHIN 1000'R.

FILE NO. 949
MAP N47 SQS W5 NI
SCALE 1"=800'
MINIMUM DEGREE OF ACCURACY 1 IN 200
PROVEN SOURCE OF ELEVATION F.M. LEMASTERS NO. 9
ELEV. = 927.52'

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) Curtis A. Lucas
CURTIS A. LUCAS LLS 275



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION



DATE MAY 29, 1986
FARM F.M. LEMASTERS NO. 10
API WELL NO.

47 - 095 - 1142-11
STATE COUNTY PERMIT

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS
WELL TYPE: OIL ___ GAS ___ LIQUID INJECTION X WASTE DISPOSAL ___
(IF "GAS,") PRODUCTION ___ STORAGE ___ DEEP ___ SHALLOW ___

LOCATION: ELEVATION 996' WATER SHED STACKPOLE RUN
DISTRICT McELROY 5 COUNTY TYLER

QUADRANGLE CENTER POINT 7.5' 286 022 NW1

SURFACE OWNER YVONNE WADSWORTH ACREAGE 152 AC.
OIL & GAS ROYALTY OWNER GRACE L. TETERS LEASE ACREAGE 152 AC.

LEASE NO. 47221-00

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 GORDON ESTIMATED DEPTH 2928'

WELL OPERATOR PENNZOIL COMPANY DESIGNATED AGENT JAMES A. CREWS

ADDRESS P.O. BOX 1588 ADDRESS P.O. BOX 1588

PARKERSBURG, W.V. 26101 673 PARKERSBURG, W.V. 26101

JUL 14 1986

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

RECEIVED
Division of Energy
APR 15 91
Mining
Gas Sector

Well Operator's Report of Well Work

Farm name: WEEDON, JUANITA L. Operator Well No.: F.M.LEMASTERS10

LOCATION: Elevation: 996.00 Quadrangle: CENTER POINT

District: MCELROY County: TYLER
Latitude: 2550 Feet South of 39 Deg. 27Min. 30 Sec.
Longitude 10100 Feet West of 80 Deg. 40 Min. 0 Sec.

Company: PENNZOIL PRODUCTS COMPANY
P. O. BOX 5519
VIENNA, WV 26105-5519

Agent: JAMES A. CREWS

Inspector: GLEN P. ROBINSON
Permit Issued: 07/24/90
Well work Commenced: 9-14-90
Well work Completed: 10-27-90

Verbal Plugging
Permission granted on: _____
Rotary Cable _____ Rig
Total Depth (feet) 3000
Fresh water depths (ft) _____

Salt water depths (ft) _____

Is coal being mined in area (Y/N)? N
Coal Depths (ft): N/A

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft. To surface
8-5/8	314	314	240 sks.
4-1/2	2979	2979	300 sks.

OPEN FLOW DATA

Producing formation Gordon Pay zone depth (ft) 2900-2919
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

Second producing formation N/A 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

* Not tested, liquid injection well.

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: PENNZOIL PRODUCTS COMPANY

By: Timothy P. Roush
Date: April 11, 1991

APR 18 1991

Stimulation

Perforated: Gordon 2906-2916 - 10 holes

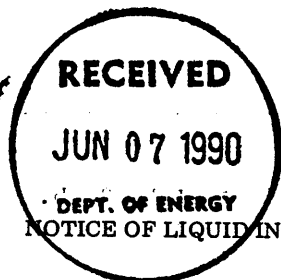
Treated w/250 gal. reg. HF acid, 293 Bbls. gelled water and 1500# 80/100 and 3500# 20/40 sand.

Well Log

Sand and Shale	00-436
Sand	436-470
Shale	470-790
Sand	790-820
Shale	820-860
Sand	860-888
Shale	888-1210
Sand	1210-1248
Shale	1248-1302
Sand	1302-1332
Shale	1332-1424
Sand	1424-1464
Shale	1464-1542
Sand	1542-1555
Shale	1555-1608
Sand	1608-1619
Shale	1619-1645
Sand	1645-1671
Shale	1671-1719
Sand	1719-1756
Shale	1756-1837
Sand	1837-1860
Shale	1860-2033
Little Lime	2033-2050
Shale	2050-2066
Big Lime	2066-2166
Big Injun	2166-2310
Shale	2310-2900
Gordon	2900-2919
Shale	2919-3000
T.D.	3000'

10760

Issued 2/24/90
Expires 7/24/92
May 29, 1990



- 1) Date: May 29, 19 90
- 2) Operator's Well No. F. M. LEMASTERS NO. 10
- 3) SIC Code _____
- 4) API Well NO. 47 - 095 - 1412-LI
State County Permit
- 5) UIC Permit No. UIC2R09501AP

STATE OF WEST VIRGINIA IJ-5141-20-70
DEPT. OF ENERGY
NOTICE OF LIQUID INJECTION OR WASTE DISPOSAL WELL WORK PERMIT APPLICATION
for the
DEPARTMENT OF ENERGY, OIL AND GAS DIVISION

- 6) WELL TYPE: Liquid injection / Gas injection (not storage) _____ / Waste disposal _____
- 7) LOCATION: Elevation: 996' Watershed: Stackpole Run District: McElroy County: Tyler Quadrangle: Center Point 7.5'
- 8) WELL OPERATOR Pennzoil Products Company Address P.O. Box 5519
Vienna, W. Va. 26105-5519
- 9) DESIGNATED AGENT James A. Crews Address P.O. Box 5519
Vienna, W. Va. 26105-5519
- 10) OIL & GAS INSPECTOR TO BE NOTIFIED? Name Glen P. Robinson Address Rt. 1, #6 Mt. Pleasant Est.
Mineral Wells, W. Va. 26150
- 11) DRILLING CONTRACTOR: Name _____ Address _____
- 12) PROPOSED WELL WORK: Drill / Drill deeper _____ / Redrill _____ / Stimulate / Plug off old formation _____ / Perforate new formation _____ / Convert _____ / Other physical change in well (specify) _____
- 13) GEOLOGICAL TARGET FORMATION, Gordon Depth 2853 feet(top) to 2873 feet(bottom)
- 14) Estimated depth of completed well, (or actual depth of existing well) 2928 ft.
- 15) Approximate water strata depths: Fresh, 221 feet; salt, 1596 feet.
- 16) Approximate coal seam depths: 796
- 17) Is coal being mined in the area? Yes _____ / No /
- 18) Virgin reservoir pressure in target formation 1260 psig. Source Estimated
- 19) Estimated reservoir fracture pressure 3500 psig (BHFP)
- 20) MAXIMUM PROPOSED INJECTION OPERATIONS: Volume per hour: 25 Bbl/hr Bottom hole pressure 2332 psi
- 21) DETAILED IDENTIFICATION OF MATERIALS TO BE INJECTED, INCLUDING ADDITIVES: Fresh/produced water treated with bactericides and other chemicals as is necessary to maintain water quality.
- 22) FILTERS (IF ANY): cartridge and/or coal bed filters
- 23) SPECIFICATIONS FOR CATHODIC PROTECTION AND OTHER CORROSION CONTROL: _____

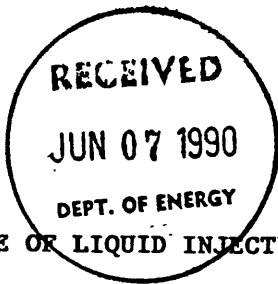
24) CASING AND TUBING PROGRAM

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									Kinds
Fresh water	8-5/8	H-40	24	X		251'	251'	Cmt to surface	Per 38CSR-18-11.3
Coal									Sizes
Intermediate									
Production	4-1/2	J-55	9.5	X		2920'	2920'	300 sks.	Depths set Per 38CSR-18-11.1
Tubing									
Liners									Perforations: Top Bottom

- 25) APPLICANT'S OPERATING RIGHTS were acquired from Grace I. Teters by deed _____ / lease / other contract _____ / dated August 21, 19 78, of record in the Tyler County Clerk's office in Deed Book 216 at page 717

See the reverse side of the APPLICANT'S COPY for instructions to the well operator.

10760



1) Date May 29, 1990
Operator's
2) Well No. F. M. LEMASTERS #10
3) SIC Code _____
4) API Well No. 47 - 095 - 1412
State County Permit

STATE OF WEST VIRGINIA

NOTICE OF LIQUID INJECTION OR WASTE DISPOSAL WELL WORK PERMIT APPLICATION
for the

DIVISION OF OIL AND GAS, DEPARTMENT OF ENERGY

- | | |
|--|--|
| 6) SURFACE OWNER(S) OF RECORD TO BE SERVED | 7 (i) COAL OPERATOR |
| (i) Name <u>Juanita L. Weedon</u> | Address _____ |
| Address <u>536 Elizabeth Lane</u> | 7 (ii) COAL OWNER(S) WITH DECLARATION ON RECORD: |
| <u>Glen Burnie, Maryland 21061</u> | Name _____ |
| (ii) Name _____ | Address _____ |
| Address _____ | 7 (iii) COAL LESSEE WITH DECLARATION ON RECORD: |
| (iii) Name _____ | Name _____ |
| Address _____ | Address _____ |

TO THE PERSON(S) NAMED ABOVE: You should have received this Form and the following documents:

- (1) The Application for a Liquid Injection or Waste Disposal Well Work Permit on Form WW-3(B), which sets out the parties involved in the drilling or other work, and
- (2) The plat (surveyor's map) showing the well location on Form WW-6; and
- (3) The Construction and Reclamation Plan on Form WW-9 (unless the well work is only to plug a well), which sets out the plan for erosion and sediment control and for reclamation for the site and access road.

The date proposed for the first injection or waste disposal is _____, 19____.

THE REASON YOU RECEIVED THESE DOCUMENTS IS THAT YOU HAVE RIGHTS REGARDING THE APPLICATION WHICH ARE SUMMARIZED IN THE "INSTRUCTIONS" ON THE REVERSE SIDE OF THE COPY OF THE APPLICATION (FORM WW-3(B)) DESIGNATED FOR YOU. HOWEVER, YOU ARE NOT REQUIRED TO TAKE ANY ACTION AT ALL.

Take notice that under Chapter 22B of the West Virginia Code, the undersigned well operator proposes to file or has filed this Notice and Application and accompanying documents for a Well Work Permit with the Director of the Division of Oil and Gas, West Virginia Department of Energy, with respect to a well at the location described on the attached Application and depicted on attached Form WW-6. Copies of this Notice, the Application, the plat, and the Construction and Reclamation Plan have been mailed by registered or certified mail or delivered by hand to the person(s) named above (or by publication in certain circumstances) on or before the day of mailing or delivery to the Director.

The person signing this document shall make the following certification:

"I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document 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.

Pennzoil Products Company
Well Operator
By Timothy P. Roush
Its Supervisor, Surveying/Mapping
Telephone 304-422-6565

