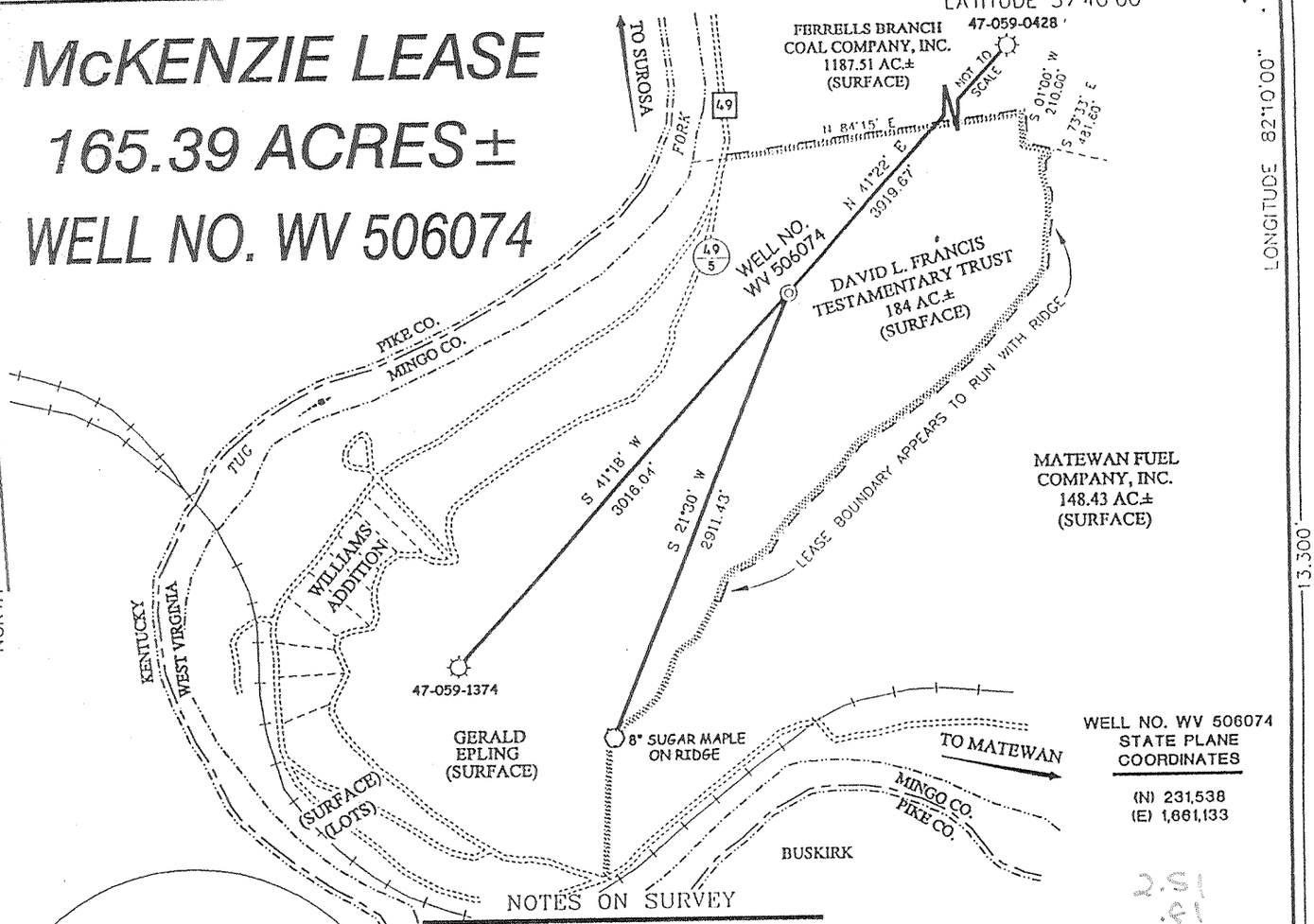
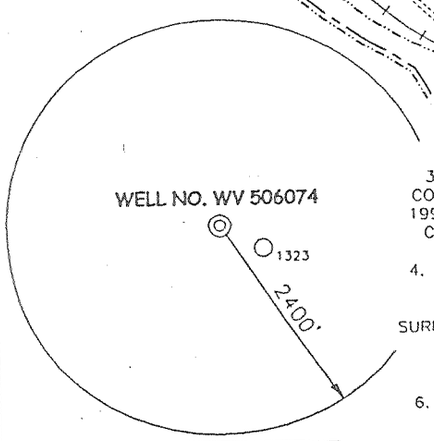
FORM IV-6

# McKENZIE LEASE
# 165.39 ACRES±
# WELL NO. WV 506074

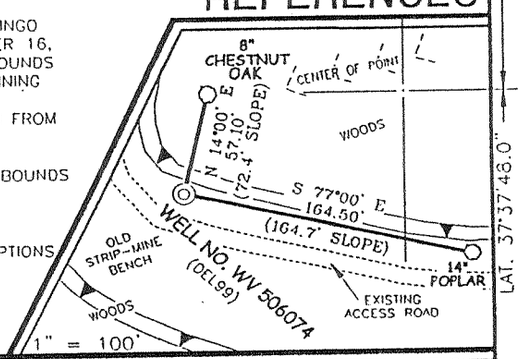



## NOTES ON SURVEY

1. TIES TO WELLS ARE BASED ON STATE PLANE GRID NORTH WV SOUTH ZONE NAD '27.
2. TIES TO REFERENCES ARE BASED ON MAGNETIC NORTH 02/21/01.
3. LEASE BOUNDARY SHOWN HEREON TAKEN FROM MINGO COUNTY LEASE BOOK 89 ON PAGE 146 DATED OCTOBER 16, 1995. LEASE DESCRIPTION CONTAINS NO METES AND BOUNDS CALLS. CALLS AS SHOWN HEREON TAKEN FROM ADJOINING DESCRIPTION IN DEED BOOK 298 PAGE 498.
4. SURFACE OWNER AND ADJOINER INFORMATION TAKEN FROM THE ASSESSOR AND COUNTY CLERK RECORDS OF MINGO COUNTY IN MAY, 2000. SURFACE TRACT DESCRIPTION CONTAINS NO METES AND BOUNDS CALLS AND CANNOT BE MAPPED.
5. WELL LAT./LONG. ESTABLISHED BY DGPS(SUBMETER MAPPING GRADE).
6. DUE TO VAGUE LEASE AND SURFACE TRACT DESCRIPTIONS SLS MAKES NO CERTIFICATION AS TO THE LOCATION OF EITHER BOUNDARIES. SURFACE OWNERSHIP BASED ON CLAIM PURPORTED BY LANDOWNER.




## REFERENCES




SLS

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.

P.S. 677 Gregory A. Smith

GREGORY A. SMITH LICENSED No. 677 STATE OF WEST VIRGINIA PROFESSIONAL SURVEYOR

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

DATE FEBRUARY 26, 20 01

OPERATORS WELL NO. WV 506074

API WELL NO. 47 (STATE) - 059 (COUNTY) - 01417 (PERMIT)

MINIMUM DEGREE OF ACCURACY 1 / 2500

PROVEN SOURCE OF ELEVATION JUNCTION OF ROADS ELEVATION 697'

FILE NO. 4194P506074 (103-26)

SCALE 1" = 1000'

STATE OF WEST VIRGINIA
DIVISION OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS

WELL TYPE : OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___ IF "GAS" PRODUCTION X STORAGE ___ DEEP ___ SHALLOW X

LOCATION :
ELEVATION 1068' WATERSHED TUG FORK
DISTRICT MAGNOLIA COUNTY MINGO QUADRANGLE DELBARTON 7.5'
SURFACE OWNER DAVID L. FRANCIS TESTAMENTARY TRUST ACREAGE 184±
ROYALTY OWNER BONDOLYN McKENZIE PAGE et al LEASE ACREAGE 165.39±
LEASE NO. 92128-(01-08)

PROPOSED WORK :
DRILL X CONVERT ___ DRILL DEEPER ___ REDRILL ___ FRACTURE OR STIMULATE X PLUG OFF OLD FORMATION ___ PERFORATE NEW FORMATION ___ PLUG AND ABANDON ___ CLEAN OUT AND REPLUG ___ OTHER ___
PHYSICAL CHANGE IN WELL (SPECIFY) ___
TARGET FORMATION DEVONIAN SHALE
ESTIMATED DEPTH 4770'

COUNTY NAME MINGO
PERMIT 1417

WELL OPERATOR EQUITABLE PRODUCTION - EASTERN STATES, INC. DESIGNATED AGENT STEPHEN G. PERDUE
ADDRESS P.O. BOX 2347 CHARLESTON, WV 25328 ADDRESS P.O. BOX 2347 CHARLESTON, WV 25328

MAR 2 6 2001

DEEP WELL 6-6 26S

WR-35

API # 47- 059-01417

State of West Virginia
Division of Environmental Protection
Section of Oil and Gas

Revised

Well Operator's Report of Well Work

Farm Name: David Francis Trust  Operator Well No.: WV-506074

LOCATION: Elevation: 1,068.00  Quadrangle: Delbarton

District: Magnolia  County: Mingo

Latitude: 13300 Feet South of Deg. 37 Minutes 40 Seconds 0
Longitude: 1000 Feet West of Deg. 81 Minutes 10 Seconds 0

Company: EQUITABLE PRODUCTION COMPANY
P.O. Box 2347, 1710 Pennsylvania Avenue
Charleston, WV 25328

Agent: Steve Perdue

Inspector: Ofie Helmick
Permit Issued: 03/28/2001
Well work commenced: 05/09/01
Well work completed: 06/04/01
Verbal Plugging
Permission granted on:
Rotary Rig X Cable Rig
Total Depth 4710 feet
Fresh water depths (ft) 380', 920'

Salt water depths (ft) 2095'

Is coal being mined in area?
Coal Depths (ft): 110', 125'-130' Open Mine, 297', 329', 477'

| Casing & Tubing Size | Used in Drilling | Left in Well | Cement Fill Up Cu. Ft. |
|---|---|---|---|
| 13-3/8 | 183' | 183' | 177 FT³ |
| 9-5/8" | 856' | 856' | 348 FT³ |
| 7" | 2272' | 2272' | 415 FT³ |
| 4-1/2" | 4710' | 4710' | 384 FT³ |
| | | | |

OPEN FLOW DATA

Producing formation L. Shale/U. Shale/Gordon/ Berea/ Big Lime/Injun  Pay Zone Depth (ft): See Attach for details
Gas: Initial open flow Odor  Bbl/d
Final open flow 1430  Final open flow:
Time of open flow between initial and final tests  Hours
Static rock pressure 750 psig (surface pressure) after  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:
Time of open flow between initial and final tests  Hours
Static rock pressure  psig (surface pressure) after  Hours

RECEIVED
Office of Oil & Gas
Permitting
AUG 24 2001
WV Department of
Environmental Protection

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.

Barbara A. Hubbard
For: BLAZER ENERGY CORPORATION

By: Dorothy Heinz
Date: 8-21-01

AUG 31 2001

MINGO 1417

**EQUITABLE PRODUCTION COMPANY**
**WR-35 COMPLETION REPORT - Attachment**
**Well Treatment Summary**

Well: WV-506074-McKenzie API# 47-059-01417

| Date | 5/30/2001 | 5/30/2001 | 5/30/2001 | 5/30/2001 | | |
|---|---|---|---|---|---|---|
| | | | | | | |
| Type Frac Acid, $N_2$, Foam, Water | $N^2$ | $N^2$ | $N^2$ | Acid/$N^2$ | | |
| Zone Treated | L. Shale | U. Shale/ Gordon | Berea | Big Lime/ Injun | | |
| # Perfs From - To: | 40 4005.5-4656 | 20 3309-3615 | 15 3167-3220 | 20 2364-2551 | | |
| BD Pressure @ psi | 2629 | 2678 | 2496 | 421 | | |
| ATP psi | 2547 | 2922 | 3317 | 2330 | | |
| Avg. Rate, B=B/M, S= SCF/M | 55206 S | 54661 S | 55033 S | 54850 S | | |
| Max. Treat Press psi | 2724 | 3710 | 4339 | 3182 | | |
| ISIP psi | 1804 Final | 1987 Final | 2500 Final | 69 | | |
| Frac Gradient | .48 | .65 | .88 | .49 | | |
| 10 min S-I Pressure | 1344 | 1139 | 1077 | 1106 | | |
| Material Volume Sand-sks | | | | | | |
| Water-bbl | 24 | 6 | 1-1/2 | 2 | | |
| SCF $N_2$ | 857,713 | 598,426 | 464,155 | 442,468 | | |
| Acid-gal | 672 gal 7.5% | 400 gal 7.5% | 250 gal 15.2% | 2500 gal 15.5% | | |
| NOTES: | | | | | | |

| TOP | BASE | FORMATION | REMARKS* |
|---|---|---|---|
| 0 | 5 | Fill | |
| 5 | 10 | Fill | |
| 10 | 20 | Shale | |
| 20 | 30 | Sand | |
| 30 | 50 | Sandy Shale | |
| 50 | 110 | Sand | |
| 110 | 120 | Coal | |
| 120 | 125 | Sand | |
| 125 | 130 | Open Mine | Open Mine |
| 130 | 182 | Sand | |
| 182 | 210 | Shale | |
| 210 | 223 | Sand | |
| 223 | 230 | Shale | |
| 230 | 297 | Sand | |
| 297 | 307 | Coal | |
| 307 | 308 | Shale | |
| 308 | 320 | Sand | |
| 320 | 329 | Shale | |
| 329 | 335 | Coal | |
| 335 | 350 | Shale | |
| 350 | 477 | Sand | Damp 380-390' |
| 477 | 482 | Coal | |
| 482 | 530 | Sandy Shale | |
| 530 | 565 | Sand | |
| 565 | 612 | Black Shale | |
| 612 | 617 | Sandy Shale | |
| 617 | 683 | Sand | |
| 683 | 712 | Sandy Shale | |
| 712 | 760 | Sand | |
| 760 | 765 | Sandy Shale | |
| 765 | 783 | Shale | |

| | | | |
|---|---|---|---|
| 783 | 1680 | Salt Sand | Damp @ 920' |
| 2020 | 2107 | Maxton | |
| 2234 | 2293 | L Lime | |
| 2293 | 2488 | Big Lime | GT @ 2400'=NS |
| 2493 | 2556 | Big Injun | |
| 2697 | 2750 | L Weir | GT @ 2600', 3000'=NS |
| 3132 | 3166 | Sunbury | GT @ 3135'=odor |
| 3166 | 3232 | Berea | |
| 3316 | 3328 | Gordon | |
| 4026 | 4301 | L Huron | GT @ 3960' & 4110'=odor |
| 4301 | 4417 | Java | |
| 4417 | 4594 | Angola | |
| 4594 | 4719 | Rhinestreet | |
| 4719 | | Onondaga | |
| 4732 | | TD | |