

W.W. McDONALD LAND CO. LEASE

GEORGE P., JR. & LYDIA ALDERSON, TRS. ET. AL.

LATITUDE 37°42'30"

8890.505 ACRES± WELL #A-49

W.W. McDONALD LAND CO.
5990.47 AC.±
(SURFACE)

WELL NO. A-49
STATE PLANE COORDINATES
N: 257,921
E: 1,741,994

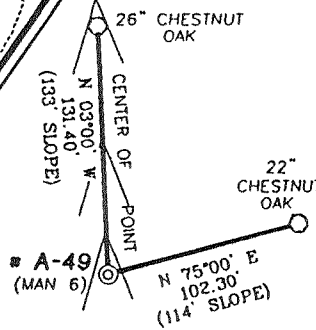
NOTES ON SURVEY

1. TIES TO WELLS AND CORNERS ARE BASED ON STATE PLANE GRID NORTH WV SOUTH ZONE NAD '27.
2. TIES TO REFERENCES ARE BASED ON MAGNETIC NORTH 3/12/99.
3. LEASE BOUNDARY SHOWN HEREON TAKEN FROM DEED BOOK 39/143.
4. SURFACE OWNERS AND ADJOINER INFORMATION OBTAINED FROM THE ASSESSOR AND COUNTY CLERK RECORDS OF LOGAN COUNTY IN AUGUST, 1998.
5. WELL LAT./LONG. ESTABLISHED BY DGPS (SUBMETER MAPPING GRADE).
6. ALL KNOWN PERMITTED WELLS WITHIN 2400' ARE SHOWN HEREON.



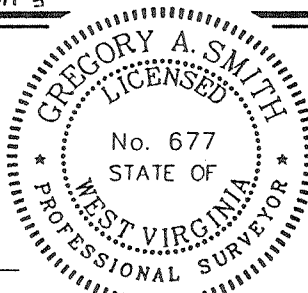
POINT AT MOUTH OF DRAIN
BEECH AT MOUTH OF DRAIN CALLED FOR

REFERENCES



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



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.
 DATE MARCH 26 19 99
 OPERATORS WELL NO. # A-49
 API WELL NO. 47-045-01318
 STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 2500 FILE NO. 3850PA49 (76-31)
 PROVEN SOURCE OF ELEVATION JUNCTION OF ROADS ELEVATION 873' SCALE 1" = 2000'

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



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

LOCATION : ELEVATION 1974' WATERSHED OLDHOUSE BRANCH OF ROCKHOUSE CREEK OF GUYANDOTTE RIVER
 DISTRICT TRIADELPHIA COUNTY LOGAN QUADRANGLE MAN 7.5'

SURFACE OWNER W.W. McDONALD LAND COMPANY ACREAGE 5990.47
 ROYALTY OWNER W.W. McDONALD LAND COMPANY LEASE ACREAGE 8890.505

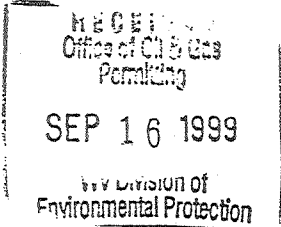
PROPOSED WORK : LEASE NO. _____
 DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE PLUG OFF OLD FORMATION
 PERFORATE NEW FORMATION PLUG AND ABANDON CLEAN OUT AND REPLUG OTHER _____
 PHYSICAL CHANGE IN WELL (SPECIFY) _____ TARGET FORMATION DEVONIAN SHALE
 ESTIMATED DEPTH 6500'

WELL OPERATOR BLAZER ENERGY CORPORATION DESIGNATED AGENT RICHARD SMELTZER
 ADDRESS P.O. BOX 2347 CHARLESTON, WV 25328 ADDRESS P.O. BOX 2347 CHARLESTON, WV 25328

DEEP WELL 6-6-2006

COUNTY NAME
LOGAN
PERMIT
1318

WR-35



20-Apr-99
API # 47-045-01318

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

Reviewed VFD

Well Operator's Report of Well Work

Farm Name: McDonald Land Co.

Operator Well No.: A-49

LOCATION: Elevation: 1,974.00 Quadrangle: Man
District: Triadelphia County: Logan
Latitude: 1210 Feet South of 37 Deg. 42 Min. 30 Sec.
Longitude: 4850 Feet West of 81 Deg. 52 Min. 30 Sec.

Company: BLAZER ENERGY CORPORATION
P.O. BOX 2347
CHARLESTON, WV 25328

Agent: Richard Smeltzer

Inspector: Ofie Helmick
Permit Issued: 4/23/99

Well work commenced: 6/7/99
Well work completed: 7/17/99

Verbal Plugging

Permission granted on: _____

Rotary Rig X Cable Rig _____

Total Depth 6120 feet

Fresh water depths (ft) 226

Salt water depths (ft) 2077, 2370

Is coal being mined in area? _____

Coal Depths (ft): 5, 12

| Casing & Tubing Size | Used in Drilling | Left in Well | Cement Fill Up Cu. Ft. |
|----------------------|------------------|--------------|------------------------|
| 13 3/8" | 42' | 42' | Grt'd |
| 9 5/8" | 996' | 996' | 120 Ft ³ |
| 7" | 3252' | 3252' | 637 Ft ³ |
| 4 1/2" | 6115' | 6115' | 372 Ft ³ |
| | | | |

OPEN FLOW DATA

Producing formation L Dev Shale, U Dev Shale, Berea, Big Lime/Weir Pay Zone Depth (ft): See Attached

Gas: Initial open flow 103 MCF/d Oil: Initial open flow _____ Bbl/d

Final open flow: 1080 MCF/d Final open flow: _____

Time of open flow between initial and final tests _____ Hours

Static rock pressure 725 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

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 WELLBOF

For: BLAZER ENERGY CORPORATION

By: Donna A. Hubbard / Dale
Date: 9-15-99

LOG 1318

SEP 20 1999

EASTERN STATES OIL & GAS, INC.
WR-35 COMPLETION REPORT - Attachment
Well Treatment Summary

Well: McDonald A-49

API# 47-045-01318

| Date | 7-1-99 | 7-1-99 | 7-1-99 | 7-13-99 | | |
|------------------------------------|----------------|----------------|----------------|---------------------|--|--|
| Type Frac | | | | | | |
| Acid, N ₂ , Foam, Water | N ² | N ² | N ² | Acid/N ² | | |
| Zone Treated | L Dev Shale | U Dev Shale | Berea | Big Lime/Weir | | |
| # Perfs | 17 | 34 | 19 | 25 | | |
| From - To: | 5775-6052 | 4442-5527 | 4083-4092 | 3421-3619 | | |
| BD Pressure @ psi | 3402 | 3030 | 2579 | 1026 | | |
| ATP psi | 2980 | 2149 | 1869 | 2250 | | |
| Avg. Rate, B=B/M, S= SCF/M | 48,650 S | 49,761 S | 50,883 S | 50,000 S | | |
| Max. Treat Press psi | 3895 | 3030 | 2579 | 2275 | | |
| ISIP psi | 2800 | 1500 | 1500 | 881 | | |
| Frac Gradient | .50 | .34 | .40 | .72 | | |
| 10 min S-I Pressure | 1590 | 1318 | 1164 | 1181 | | |
| Material Volume | | | | | | |
| Sand-sks | | | | | | |
| Water-bbl | | | | | | |
| SCF N ₂ | 417,000 | 1,216,229 | 380,496 | 449,600 | | |
| Acid-gal | 500 gal 7½% | 1000 gal 8.4% | 500 gal 8.2% | 3000 gal 15.6% | | |
| NOTES: | | | | | | |

Formation Record

| TOP | BOTTOM | FORMATION | Remarks |
|------|--------|--------------|---|
| 0 | 5 | Fill | |
| 5 | 8 | Coal | |
| 8 | 12 | Shale | |
| 12 | 15 | Coal | |
| 15 | 30 | Sand & Shale | |
| 30 | 180 | W. Sand | |
| 180 | 280 | Sand & Shale | ¼" strm wtr @ 226' |
| 280 | 385 | Sand | |
| 385 | 593 | Sand & Shale | |
| 593 | 596 | Open Mine | |
| 596 | 890 | Sand & Shale | |
| 890 | 895 | Open Mine | |
| 895 | 970 | Sand | |
| 970 | 1030 | Shale | |
| 130 | 1400 | Sand & Shale | |
| 1400 | 1465 | Shale | |
| 1460 | 1550 | Sand & Shale | |
| 1550 | 2400 | Salt Sand | 1" strm wtr @ 2077', ¾" strm wtr @ 2370', GT @ 2458' - NS |
| 2683 | 2780 | Upper Maxton | GT @ 2834' - NS |
| 3092 | 3127 | Lower Maxton | GT @ 3114' - NS |
| 3157 | 3222 | Little Lime | |
| 3222 | 3470 | Big Lime | GT @ 3261', 3303' - All NS, GT @ 3501' - 103 mcf |
| 3593 | 3719 | Weir | GT @ 3805' - 188 mcf |
| 4046 | 4075 | Sunbury | |
| 4075 | 4100 | Berea | |
| 4100 | 5120 | Upper Huron | GT @ 4146' - 103 mcf, GT @ 5094' - 84 mcf |

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SEP 16 1999

WV Division of
 Environmental Protection

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| | | | |
|------|------|---------------|------------------------|
| 4426 | 4463 | Gordon | |
| 5120 | 5538 | Lower Huron | GT @ 5252' - 84 mcf |
| 5538 | 5674 | Java | |
| 5674 | 5888 | Angola | |
| 5888 | 6125 | Rhinestreet | |
| 6120 | | Onondaga | |
| 6120 | | TD (Drillers) | GT @ TD & DC - 103 mcf |

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