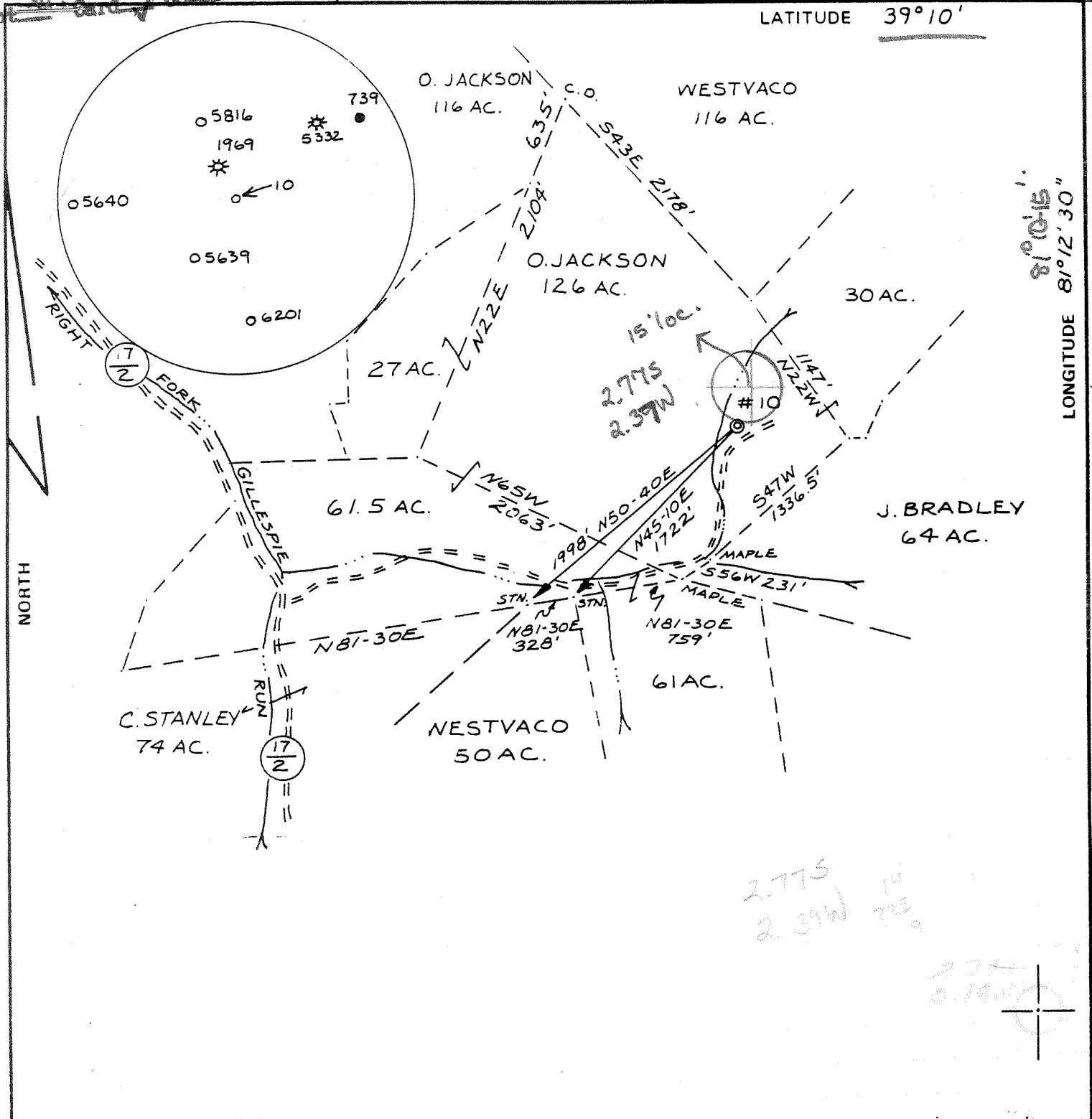


LATITUDE 39°10'

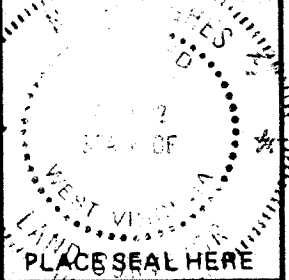
750'

LONGITUDE 81°12'30"



FILE NO. \_\_\_\_\_  
 DRAWING NO. \_\_\_\_\_  
 SCALE 1" = 1000'  
 MINIMUM DEGREE OF ACCURACY 1/200  
 PROVEN SOURCE OF ELEVATION B.M. RACY BRIDGE 668'

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) Neal Hughes  
 R.P.E. \_\_\_\_\_ L.L.S. 632



STATE OF WEST VIRGINIA  
 DEPARTMENT OF MINES  
 OIL AND GAS DIVISION



DATE FEB. 1, 19 83  
 OPERATOR'S WELL NO. JACKSON 10(R)  
 API WELL NO. \_\_\_\_\_  
47 - 085 - 6569  
 STATE COUNTY PERMIT

JUL 11 1983

(+) 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 815' WATER SHED RIGHT FORK GILLESPIE RUN  
 DISTRICT GRANT COUNTY RITCHIE  
 QUADRANGLE CAIRO 7.5' Norrisville 15' WC  
 SURFACE OWNER OREN JACKSON ACREAGE 153  
 OIL & GAS ROYALTY OWNER OREN JACKSON, OLIN JACKSON, LEASE ACREAGE 126  
 LEASE NO. NEVA MACE  
 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 MARCELLUS ESTIMATED DEPTH 5700'  
 WELL OPERATOR A. GABLE OIL DEVELOPMENT DESIGNATED AGENT RONALD KUDELLA  
 ADDRESS P.O. BOX 165 ADDRESS P.O. BOX 165  
DAVISVILLE, W.VA. 26142 DAVISVILLE, W.VA. 26142

RECEIVED

OCT 21 1983



IV-35 (REV 8-81)

OIL & GAS DIVISION DEPT. OF MINES

RECEIVED

SEP 1 - 1983

State of West Virginia Department of Mines Oil and Gas Division

Date Aug. 10, 1983 Operator's Well No. Jackson # 10 Farm Oren Jackson API No. 47-085-6569

OCT 31 1983

WELL OPERATOR'S REPORT OF DEPT. OF MINES AND/OR STIMULATING, OR PHYSICAL CHANGE

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

LOCATION: Elevation: 815' Watershed Right Fork Gillespie Run District: Grant County Ritchie Quadrangle Cairo

COMPANY Alan Gable Oil Development Co. ADDRESS P O Box 166, Davisville, WV 26142 DESIGNATED AGENT Ronald Kudella ADDRESS same SURFACE OWNER Oren Jackson ADDRESS Petroleum, WV MINERAL RIGHTS OWNER Oren, Olin, Neva Maze Jackson ADDRESS Petroleum, WV OIL AND GAS INSPECTOR FOR THIS WORK Sam Hersman ADDRESS Smithville, WV PERMIT ISSUED # 6569 DRILLING COMMENCED 7/17/83 DRILLING COMPLETED 7/23/83 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, 13-10, 9 5/8, 8 5/8, 7, 5 1/2, 4 1/2, 3, 2 and Liners used.

GEOLOGICAL TARGET FORMATION Marcellus Depth 5700 feet Depth of completed well 4122' feet Rotary xx / Cable Tools Water strata depth: Fresh 100 feet; Salt 215 feet Coal seam depths: n/a Is coal being mined in the area? no

OPEN FLOW DATA

Producing formation Balltown Beechley Pay zone depth 3493-3890 feet Gas: Initial open flow 720 Mcf/d Oil: Initial open flow 0 Bbl/d Final open flow 611 Mcf/d Oil: Final open flow 5 Bbl/d Time of open flow between initial and final tests hours Static rock pressure 1010 psi (surface measurement) after 8 hours shut in (If applicable due to multiple completion--)

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

- 3880-90 - 6
- 3781-84 - 3
- 3662-64 - 3
- 3674-76 - 3
- 3694-96 - 3
- 3600-02 - 3
- 3569-74 - 6
- 3528-30 - 3
- 3493-94 - 2

Huron  
1 MMCF N2

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
		0 to 1308	n/a		
1st Salt			1308	1374	
2nd Salt			1398	1410	
3rd Salt			1540	1590	
Maxon			1618	1674	
Big Lime			1678	1758	
Keener			1762	1802	
Big Injun			1807	1852	
Squaw			1866	1886	
Berea			2248	2252	
Gantz			2360	2375	
Gordon			2646	2656	
Upper Speechley			3094	3184	
Lower Speechley			3455	3580	
Balltown			3615	3703	
Bradford			4000	----	
TD			4122		Huron @ TD. 4122 2252 1870

(Attach separate sheets as necessary)

ALAN GABLE OIL DEVELOPMENT CO.

Well Operator

By: JUBAL S. TERRY

Date: AUG. 10, 1983

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: FEB. 1, 1984  
2) Operator's Well No. JACKSON # 20  
3) API Well No. 47 State County Permit

DRILLING CONTRACTOR:

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

OIL AND GAS WELL PERMIT APPLICATION

- 4) WELL TYPE: A Oil / Gas / B (If "Gas", Production / Underground storage / Deep / Shallow)
5) LOCATION: Elevation: 213' Watershed: Right Fork Alleghenia Run
6) WELL OPERATOR: OREN & OLGA JACKSON OIL DEVELOPMENT CO. 11) DESIGNATED AGENT: RON KENNEDY
7) OIL & GAS ROYALTY OWNER: Oren & Olga Jackson and Mary Marie Jackson 12) COAL OPERATOR:
8) SURFACE OWNER: OREN JACKSON 13) COAL OWNER(S) WITH DECLARATION ON RECORD:
9) FIELD SALE (IF MADE) TO:
10) OIL & GAS INSPECTOR TO BE NOTIFIED: Name: Ron Kennedy
15) PROPOSED WORK: Drill / Drill deeper / Redrill / Fracture or stimulate / Plug off old formation / Perforate new formation
16) GEOLOGICAL TARGET FORMATION: Carboniferous
17) Estimated depth of completed well, 3700 feet
18) Approximate water strata depths: Fresh, 80 feet; salt, 200 feet.
19) Approximate coal seam depths: 1/2 Is coal being mined in the area? Yes / No

20) CASING AND TUBING PROGRAM

Table with columns: CASING OR TUBING TYPE, SPECIFICATIONS (Size, Grade, Weight per ft., New, Used), FOOTAGE INTERVALS (For drilling, Left in well), CEMENT FILL-UP OR SACKS (Cubic feet), PACKERS (Kinds, Sizes, Depths set, Perforations: Top, Bottom)

21) EXTRACTION RIGHTS

Check and provide one of the following:
[ ] Included is the lease or leases or other continuing contract or contracts by which I hold the right to extract oil or gas.
[ ] The requirement of Code 22-4-1-(c) (1) through (4). (See reverse side for specifics.)

22) ROYALTY PROVISIONS

Is the right to extract, produce or market the oil or gas based upon a lease or other continuing contract or contracts providing for flat well royalty or any similar provision for compensation to the owner of the oil or gas in place which is not inherently related to the volume of oil or gas so extracted, produced or marketed? Yes [ ] No [ ]

If the answer above is No, nothing additional is needed. If the answer is Yes, you may use Affidavit Form IV-60.

23) Required Copies (See reverse side.)

24) Copies of this Permit Application and the enclosed plat and reclamation plan have been mailed by registered mail or delivered by hand to the above named coal operator, coal owner(s), and coal lessee on or before the day of the mailing or delivery of this Permit Application to the Department of Mines at Charleston, West Virginia.

Notary: E. J. McCreedy
My Commission Expires July 17, 1989

Signed: [Signature]
Its: Designated Agent

OFFICE USE ONLY
DRILLING PERMIT

Permit number [ ] 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. 10) 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.)

Permit expires 3/6/84 unless drilling is commenced prior to that date and prosecuted with due diligence.

Table with columns: Bond, Agent, Plat, Casing, Fee

Administrator, Office of Oil and Gas

NOTE: Keep one copy of this permit posted at the drilling location.