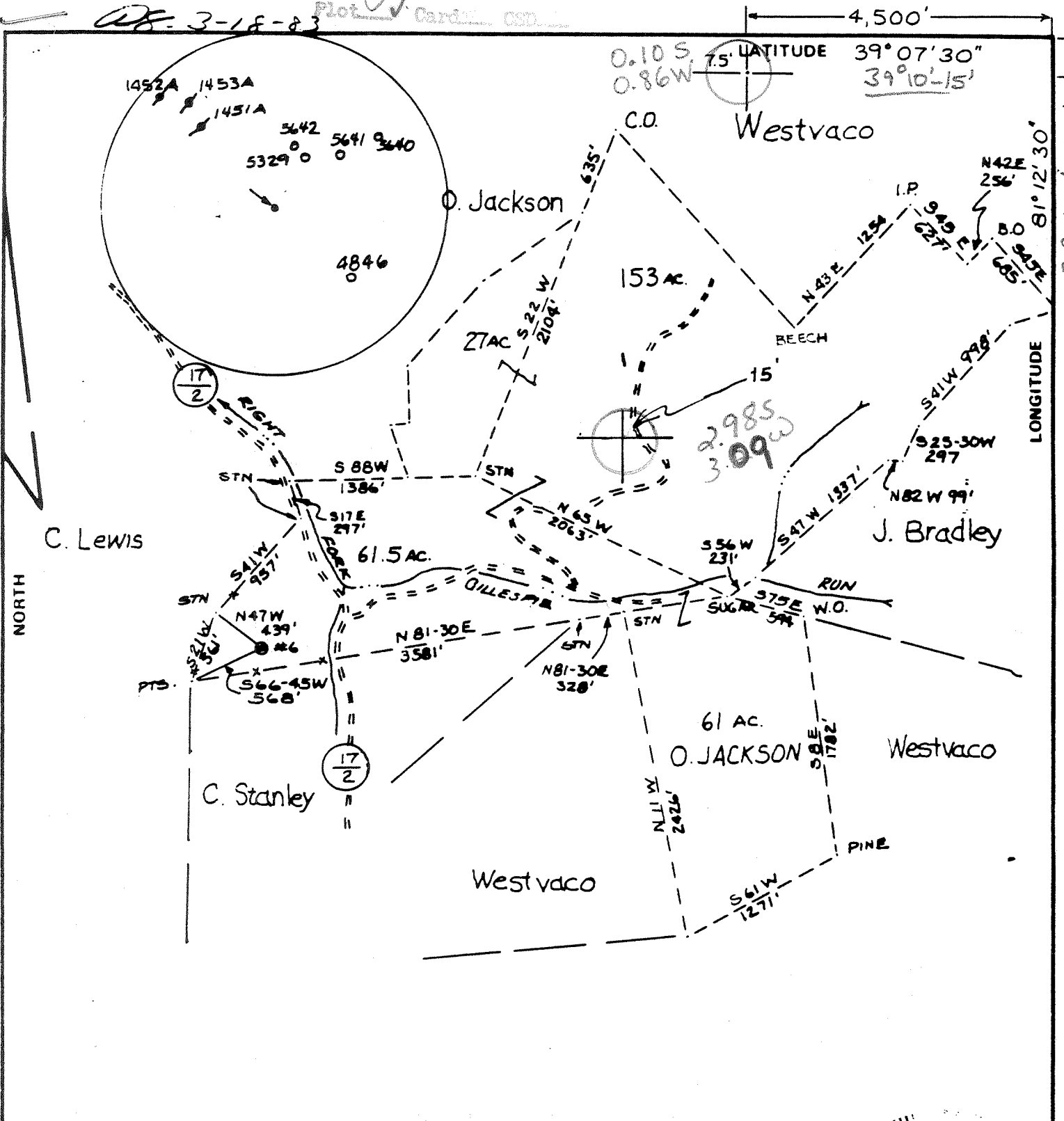


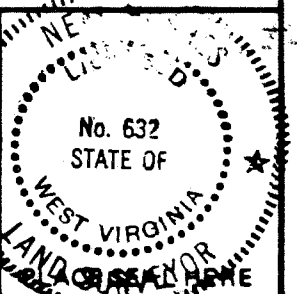
08-3-18-83

Plot Cardinal OSN



FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 1000'
 MINIMUM DEGREE OF ACCURACY 1:200
 PROVEN SOURCE OF ELEVATION BM 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 Huger
 R.P.E. _____ L.L.S. 632



STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION



DATE DEC. 23, 19 82
 OPERATOR'S WELL NO. JACKSON #6
 API WELL NO. 47 - 085 - 6346
 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 825' WATER SHED RIGHT FORK of GILLESPIE RUN
 DISTRICT GRANT COUNTY MITCHELL
 QUADRANGLE MACFARLAN 7 1/2 Harrisonville 151 WC
 SURFACE OWNER OLEN JACKSON ACREAGE 274
 OIL & GAS ROYALTY OWNER OLEN JACKSON OLEN JACKSON N. MACE LEASE ACREAGE 274
 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 MARCELLUS ESTIMATED DEPTH 5700 6-6 Rutherford
 WELL OPERATOR OIL DEVELOPMENT CO. DESIGNATED AGENT RON KUDELLA (17)
 ADDRESS P.O. BOX 165 ADDRESS P.O. BOX 165
DAVISVILLE WVA 26112 DAVISVILLE WVA 26112

RIT. 6346

RECEIVED

DEC 0 1983

OIL & GAS DIVISION
DEPT. OF MINES
(Rev 8-81)



RECEIVED
SEP 1 1983

State of West Virginia
Department of Mines
Oil and Gas Division

Date August 10, 1983
Operator's
Well No. Jackson # 6
Farm Oren Jackson
API No. 47 - 085 - 63

OIL & GAS DIVISION WELL OPERATOR'S REPORT
DEPT. OF MINES OF
DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

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

LOCATION: Elevation: 825' Watershed Right Fork of Gillespie Run
District: Grant County Ritchie Quadrangle Macfarlan

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 # 6346
DRILLING COMMENCED 7/25/83
DRILLING COMPLETED 8/1/83
IF APPLICABLE: PLUGGING OF DRY HOLE ON
CONTINUOUS PROGRESSION FROM DRILLING OR
REWORKING. VERBAL PERMISSION OBTAINED
ON

Casing & Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft.
Size 20-16 Cond.		40'	
13-10"			
9 5/8			
8 5/8		972'	300 sh
7			
5 1/2			
4 1/2		4000	625 s
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Marcellus Depth 5700 feet
Depth of completed well 4250' feet Rotary / Cable Tools
Water strata depth: Fresh 150 feet; Salt 225 feet
Coal seam depths: n/a Is coal being mined in the area?

OPEN FLOW DATA
Producing formation Speechley, Balltown Pay zone depth feet
Gas: Initial open flow 920 Mcf/d Oil: Initial open flow 0 Ebl.
Final open flow 905 Mcf/d Final open flow 0 ? Ebl.
Time of open flow between initial and final tests 8 hours
Static rock pressure 980 psig (surface measurement) after 8 hours shut in
(If applicable due to multiple completion--)
Second producing formation Gantz, Gordon Pay zone depth feet
Gas: Initial open flow Mcf/d Oil: Initial open flow Ebl.
Final open flow Mcf/d Oil: Final open flow Ebl.
Time of open flow between initial and final tests hours
Static rock pressure psig (surface measurement) after hours shut in

See back

27 1983

(Continue on reverse side)

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

Gantz	2409- 14	5	
Gordon	2686 - 91	6	
	3511 - 3515	5	
	3576-84	9	
Huron	3615 - 20	6	1.5 MMCF N2
	3693 - 97	5	
	3722 - 35	4	
	3887 - 93	6	

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fre and salt water, coal, oil and c
Red Rock			0	1200	
1st salt			1320	1380	
2nd salt			1410	1440	
3 rd salt			1520	1587	
Upper Maxon			1611	1637	
Lower-Maxon			1660	1708	
Big Lime			1710	1753	
Keener			1754	1776	
Big Injun			1778	1900	
Squaw			1910	1931	
Berea			2285	2285	
Gantz			2390	2418	gas 4250 2285
Gordon			2685	2693	gas 1965
Upper Speechley			3200	3265	gas'
Balltown			3612	3722	gas
Bradford			4040	4220	gas
4250 T.D. Huron @ T.D.					

(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: JANUARY 12, 19 83
2) Operator's Well No. JACKSON 26
3) API Well No. 47 - 085 -
State WV County Putnam Permit

DRILLING CONTRACTOR:
Alvin Cable
Oil Development Co.
Davisville, WV 26032

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

OIL AND GAS WELL PERMIT APPLICATION

- 4) WELL TYPE: A Oil XX / Gas XX /
B (If "Gas", Production XXX / Underground storage / Deep / Shallow)
- 5) LOCATION: Elevation: 3225 / Watershed: Night Fork of Hillsboro Run
District: Grant County: Putnam Quadrangle: Putnam
- 6) WELL OPERATOR OIL DEVELOPMENT CO. 11) DESIGNATED AGENT Alvin Cable
Address P.O. Box 165 Address P.O. Box 165
DAVISVILLE, WV 26032 DAVISVILLE, WV 26032
- 7) OIL & GAS ROYALTY OWNER Gran Jackson 12) COAL OPERATOR
Address Rt 1 Address
Petroleum, WV 26161
- 8) SURFACE OWNER Gran Jackson 13) COAL OWNER(S) WITH DECLARATION ON RECORD:
Address Rt 1 Name
Petroleum, WV 26161 Address
- 9) FIELD SALE (IF MADE) TO: Name
Address
- 10) OIL & GAS INSPECTOR TO BE NOTIFIED: Name Samuel Egan
Address Box 96
Smithville, VA
- 14) COAL LESSEE WITH DECLARATION ON RECORD:
Name
Address
- 15) PROPOSED WORK: Drill XX / Drill deeper / Redrill / Fracture or stimulate /
Plug off old formation / Perforate new formation /
Other physical change in well (specify)
- 16) GEOLOGICAL TARGET FORMATION, Carrollus
- 17) Estimated depth of completed well, 3705 feet
- 18) Approximate water strata depths: Fresh, 150 feet; salt, 225 feet.
- 19) Approximate coal seam depths: 0/2 Is coal being mined in the area? Yes / No

20) 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	3 7/8	J55				350	350	250	Kinds
Fresh water									Sizes
Coal									Depths set
Intermediate	2 7/8	J55	44			1000	1200	10	Perforations:
Production	4 1/2	J55	10.3				3700	800	Top Bottom
Tubing									
Liners									

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: C. J. Matzke

My Commission Expires July 17, 1983

Signed: Alvin Cable

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 November 21, 1983 unless drilling is commenced prior to that date and prosecuted with due diligence.

Bond:	Agent:	Plat:	Casing	Fee

Administrator, Office of Oil and Gas