

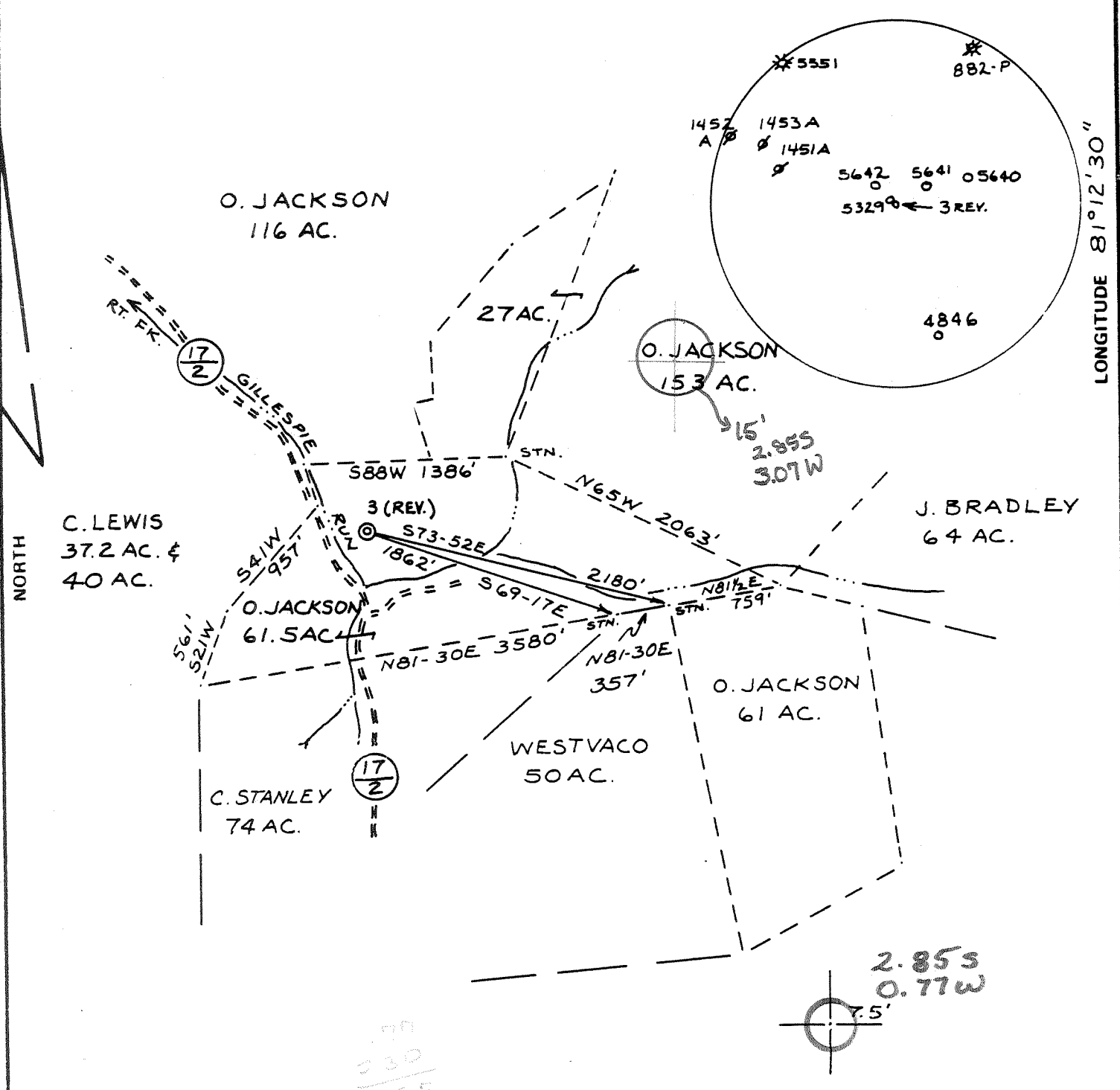
T.S 2-9-83

Plot Card CSD

LATITUDE 39°10'

4,100'

LONGITUDE 81°12'30"



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 Hughes
 R.P.E. _____ L.L.S. 632



STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION



DATE JAN. 31, 1983
 OPERATOR'S WELL NO. JACKSON 3
 API WELL NO. REVISED
47 - 085 - 6248
 STATE COUNTY PERMIT

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS
 WELL TYPE: OIL X GAS X LIQUID INJECTION _____ WASTE DISPOSAL _____
 (IF "GAS,") PRODUCTION X STORAGE _____ DEEP _____ SHALLOW _____
 LOCATION: ELEVATION 730' WATER SHED GILLESPIE RUN
 DISTRICT GRANT COUNTY RITCHIE
 QUADRANGLE CAIRO 7 1/2' Harrisville 15' WC
 SURFACE OWNER OREN JACKSON ACREAGE 150
 OIL & GAS ROYALTY OWNER OREN JACKSON, OLIN JACKSON, LEASE ACREAGE 150
NEVA MACE
 LEASE NO. _____
 PROPOSED WORK: DRILL X CONVERT _____ DRILL DEEPER _____ REDRILL _____ FRACTURE OR
 STIMULATE X 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 ALAN GABLE OIL DEVELOPMENT DESIGNATED AGENT RONALD KUDELLA
 ADDRESS P.O. BOX 165 ADDRESS P.O. BOX 165
DAVISVILLE, W.V. 26142 DAVISVILLE, W.V. 26142

FEB 14 1983

RECEIVED



IV-35 (Rev 8-81)

MAR 11 1983

OIL AND GAS DIVISION WV DEPARTMENT OF MINES State of West Virginia Department of Mines Oil and Gas Division

Date March 8, 1983 Operator's Well No. JACKSON # 3 Re Farm Oren Jackson API No. 47-085-6248

WELL OPERATOR'S REPORT OF DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

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

LOCATION: Elevation: 730 Watershed Gillespie Run District: Grant County Ritchie Quadrangle Macfarlan

COMPANY Alan Gable Oil Development Co. ADDRESS P O Box 165, Davisville, WV DESIGNATED AGENT Ron Kudella ADDRESS P O Box 165, Davisville, WV SURFACE OWNER Oren Jackson ADDRESS Rt 1, Petroleum, WV MINERAL RIGHTS OWNER Oren, Olin, Neva Maze Jackson ADDRESS Rt 1, Petroleum, WV OIL AND GAS INSPECTOR FOR THIS WORK Sam Hersman ADDRESS Smithville, WV PERMIT ISSUED #6248 DRILLING COMMENCED 2/11/83 DRILLING COMPLETED 2/23/83

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.

IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED ON

GEOLOGICAL TARGET FORMATION Marcellus Shale Depth feet Depth of completed well 5375 feet Rotary Cable Tools Water strata depth: Fresh 50 feet; Salt 250 feet Coal seam depths: n/a Is coal being mined in the area?

OPEN FLOW DATA

Producing formation Huron Pay zone depth 3433-3755 feet Gas: Initial open flow 1500 Mcf/d Oil: Initial open flow 1 Bbl/d Final open flow 1400 Mcf/d Final open flow 2 Bbl/d Time of open flow between initial and final tests 24 hours Static rock pressure 282 psig (surface measurement) after 14 hours shut in (If applicable due to multiple completion--)

Second producing formation Rhinestreet Pay zone depth 5190-5289 feet Gas: Initial open flow n/a Mcf/d Oil: Initial open flow n/a Bbl/d Final open flow n/a Mcf/d Oil: Final open flow n/a Bbl/d Time of open flow between initial and final tests hours Static rock pressure n/a psig (surface measurement) after na hours shut in

(Continue on reverse side)

MAR 21 1983

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

1st stage		2nd stage	2549-58	29 holes
5190-94	4 holes	3433-43	· 9 holes	1.3 mil N2
5200-02	3	3507-11	5	
5216-20	5	3550-52	3	
5224-30	7	3596-3600	5	
5245-55	9	3751-55	5	
5280-84	5		27 holes	
	33 holes		1.2 mil N2	
	1.3 mil N2			

Rhinestreet

Huron

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
Maxon			1530	1572	
Big Lime			1579	1620	
Keener			1620	1700	
Big Injun			1714	1768	
Squaw			1773	1794	
Berea			2150	2150	
Gantz			2272	2290	
Gordon			2549	2558	
Huron			3400		
Balltown			3781	3820	
Benson			4420	4439	
Alexander			4617	4659	
<u>Rhinestreet</u>			5016	5376	

T.D.

(Attach separate sheets as necessary)

Alan Gable Oil Development Co.

Well Operator

By: Jubal S. Terry

Date: March 8, 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 sand, encountered in the drilling of a well."



1) Date: FEB 1, 1983, 19
 2) Operator's Well No. JACKSON # 3 REV.
 3) API Well No. 47 State County Permit

DRILLING CONTRACTOR:
 CABLE OIL DEVELOPMENT CO
 DAVISVILLE, WV 26142

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 XX / Underground storage XX / Deep XX / Shallow XX /)
- 5) LOCATION: Elevation: 1300' Watershed: Allegheny Riv
 District: Grant County: Wetzel Quadrangle: Grain
- 6) WELL OPERATOR Cable Oil Development Co.
 Address P.O. Box 145
Davisville, WV 26142
- 7) OIL & GAS ROYALTY OWNER Oran Jackson and Mary Margaret Jackson
 Address Rt 1
Petrolean, WV
 Acreage 140
- 8) SURFACE OWNER Oran Jackson
 Address Rt 1
Petrolean, WV 26141
 Acreage 150
- 9) FIELD SALE (IF MADE) TO:
 Address _____
- 10) OIL & GAS INSPECTOR TO BE NOTIFIED
 Name Sam Herman
 Address Box 55
Davisville, WV
- 11) DESIGNATED AGENT Don Kordala
 Address P.O. Box 145
Davisville, WV 26142
- 12) COAL OPERATOR _____
 Address _____
- 13) COAL OWNER(S) WITH DECLARATION ON RECORD:
 Name _____
 Address _____
 Name _____
 Address _____
- 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, Marcellus
- 17) Estimated depth of completed well, 3700 feet
- 18) Approximate water strata depths: Fresh, 50 feet; salt, 250 feet.
- 19) Approximate coal seam depths: n/a 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 3/8	J55		X		800	350		Kinds
Fresh water									
Coal									Sizes
Intermediate	2 7/8	J55	244	X		800	900		Depths set
Production	1 7/8	J55	15.3	X			5700		Perforations:
Tubing									Top Bottom
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. Kordala
 My Commission Expires July 17, 1987
- Signed: _____
 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 October 9, 1983 unless drilling is commenced prior to that date and prosecuted with due diligence.

Bond:	Agent:	Plat:	Casing	Fee
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Administrator, Office of Oil and Gas

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