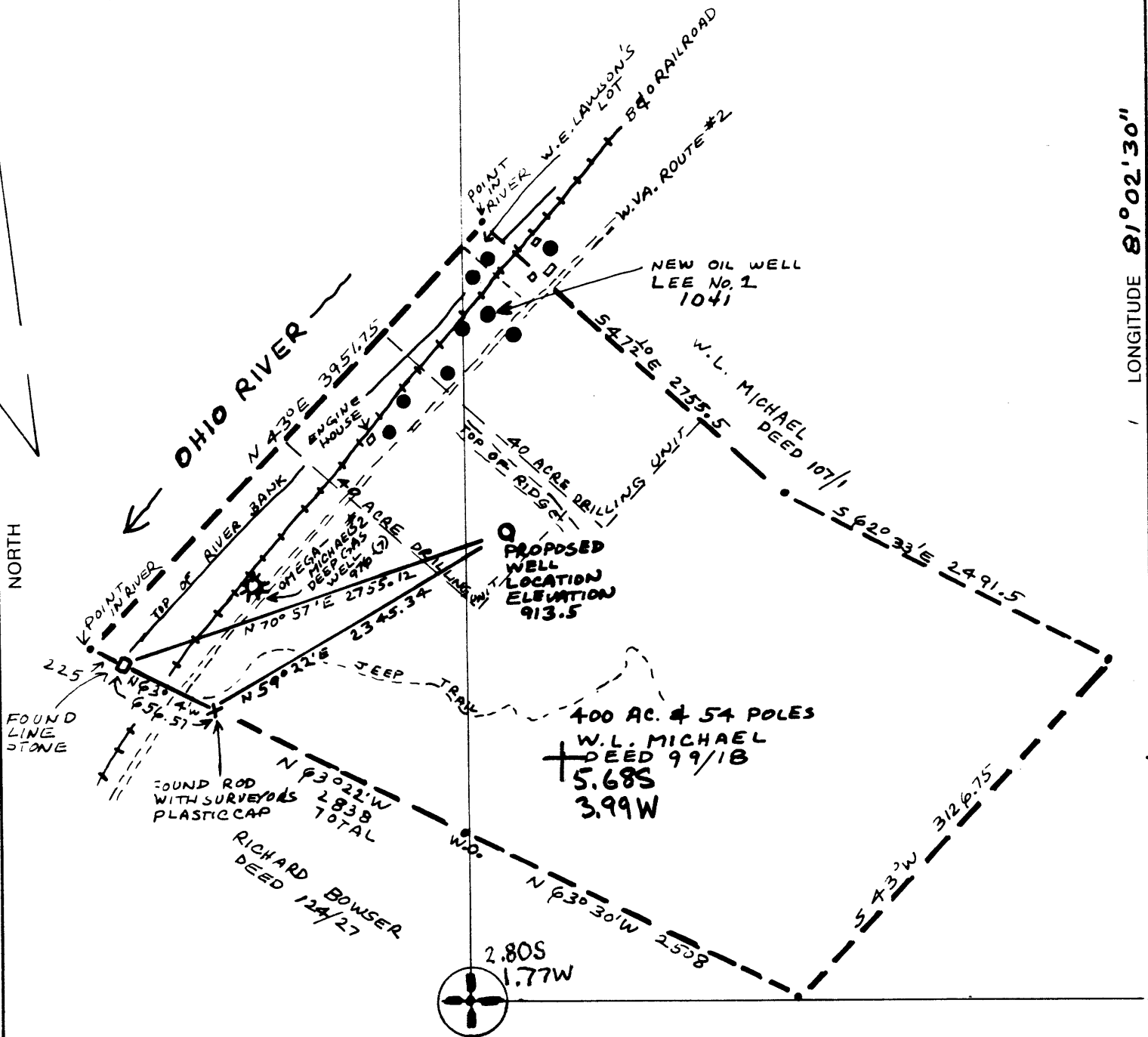


Plot Card CSD

9,350 39 35
LATITUDE 39°32'30"

NORTH



LONGITUDE 81° 02' 30"
14,700

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

FILE NO. 83-6348
DRAWING NO. 83-6348-B
SCALE 1" = 1000'
MINIMUM DEGREE OF ACCURACY 1 IN 2500
PROVEN SOURCE OF ELEVATION B.M. #M34 WITH ELEVATION OF 618 ON BENS RUN TOPO

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) Honey M. Parsons
R.P.E. _____ L.L.S. No 98

No 98
PLACE SEAL HERE

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION



DATE MARCH 14, 19 84
OPERATOR'S WELL NO. LEE No. 2
API WELL NO.

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
(IF "GAS,") PRODUCTION STORAGE DEEP SHALLOW
LOCATION: ELEVATION 913.5 WATERSHED OHIO RIVER

47 095 1056
STATE COUNTY PERMIT

DISTRICT UNION 6 COUNTY TYLER
QUADRANGLE NEW MATAMORAS & 15' SE

SURFACE OWNER ALDEN MICHAELS ACREAGE 400 40
OIL & GAS ROYALTY OWNER ALDEN MICHAELS LEASE ACREAGE 400 DRILLING UNIT

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 5800'
WELL OPERATOR Reed Energy Corp. 731 DESIGNATED AGENT Lee Gardner
ADDRESS 425 Metro Place North ADDRESS 102 Morningside Circle
DUBLIN, OH 43017 Parkersburg, WV 26101

MAR 26 1984

FORM IV-6 (8-78)
H.T. HALL

COUNTY NAME
PERMIT



IV-35
(Rev 8-81)

APR 18 1986

State of West Virginia
Department of Mines
Oil and Gas Division

Date 14 April 1986
Operator's
Well No. Lee #2
Farm Alden Michaels
API No. 47-095-1056

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: 913' Watershed Ohio River
District: Union County Tyler Quadrangle New Matamoris

COMPANY Reed ENergy Group
ADDRESS 425 Metro Place North, Dublin, OH 43017
DESIGNATED AGENT Sancho Oil & Gas Corp
ADDRESS Box 113, Rt 1, Middlebourne WV 26149
SURFACE OWNER Alden Michaels
ADDRESS Sistersville, WV
MINERAL RIGHTS OWNER Alden Michaels
ADDRESS Sistersville, WV
OIL AND GAS INSPECTOR FOR THIS WORK Robert Lowther ADDRESS Middlebourne, WV
PERMIT ISSUED 15 March 1984
DRILLING COMMENCED March 31 1984
DRILLING COMPLETED April 5, 1984
IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED ON n/a

Casing & Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft.
Size 20-16 Cond.			
13-10"			
9 5/8			
8 5/8		1120'	surface
7			
5 1/2			
4 1/2		4150'	550 cu ft
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Devonian Shale Depth 4150 feet
Depth of completed well 4150 feet Rotary X / Cable Tools
Water strata depth: Fresh n/a feet; Salt n/a feet
Coal seam depths: n/a Is coal being mined in the area? no

OPEN FLOW DATA

Producing formation Devonian Shale Pay zone depth 3600-3900 feet
Gas: Initial open flow 100 Mcf/d Oil: Initial open flow 10 Bbl/d
Final open flow (50) Mcf/d Final open flow (5) Bbl/d
Time of open flow between initial and final tests 48 hours
Static rock pressure 1550 psig (surface measurement) after 48 hours shut in
(If applicable due to multiple completion--)
Second producing formation Pay zone depth feet
Gas: Initial open flow Mcf/d Oil: Initial open flow Bbl/d
Final open flow Mcf/d Oil: Final open flow Bbl/d
Time of open flow between initial and final tests hours
Static rock pressure psig (surface measurement) after hours shut in

(Continue on reverse side)

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

Nitrogen frac with one million std. cubic feet perforated with
18 .39 shots from 3665' to 3805'

3

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
sand & shale			surface	1120	
shale			1120	1137	
Second Cow Run			1137	1171	
shale			1171	1281	
Salt Sand			1281	1295	
shale			1295	1415	
3rd Salt Sand			1415	1438	
shale			1438	1545	
Maxon			1545	1617	
shale			1617	1617	
Big Lime			1617	1779	
Keener			1779	1789	
shale			1789	1793	
Big Injun Gee + PO			1793	1816	
shale			1816	1819	
Squaw			1819	1829	
shale			1829	2145	
Weir			2145	2172	
shale			2172	2320	
Berea			2320	2331	
shale			2331	2460	
Thirty Foot			2460	2490	
shale			2490	2607	
Gordon Stray			2607	2617	
shale			2617	2645	
Gordon			2645	2697	
shale			2697	4150	

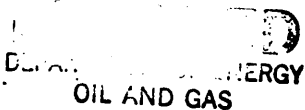
Flow acc. by logs:
 1000 2321 1100
 8481

Handwritten notes in the bottom right of the table area.

(Attach separate sheets as necessary)

REED ENERGY
Well Operator

BY: SANCHO OIL AND GAS CORPORATION
Tom G. Bayly Its: President
 DATE: April 16, 1986



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

APR 18 1986

WELL OPERATOR'S REPORT
OF
INITIAL GAS-OIL RATIO TEST

WELL OPERATOR Reed Energy Group
Address 425 Metro Place North
Dublin Ohio 43017

DESIGNATED AGENT Ronald H. Woodburn
Address Box 113 Rt. 1 Middlebourne
West Virginia 26149

GEOLOGICAL TARGET FORMATION: Devoian Shale Depth 4150 feet
Perforation Interval 3600-3900 feet

GUIDELINES FOR TESTING:

- 1- A minimum of gas vented or flared
- 2- A 24 hour preflow into pipelines or tanks
- 3- Uniform producing rate during the 24 hour test per test period
- 4- Measurement standards as for Form IV-39, "Report of Annual Production" (see Regulation 11.01)
- 5- Separate Form IV-36 for each producing formation in a multiple completion

TEST DATA				
START OF TEST-DATE	TIME	END OF TEST-DATE	TIME	DURATION OF TEST
TUBING PRESSURE	CASING PRESSURE	SEPARATOR PRESSURE	SEPARATOR TEMPERATURE	
OIL PRODUCTION DURING TEST bbls.	GAS PRODUCTION DURING TEST Mcf	WATER PRODUCTION DURING TEST & SALINITY bbls.		
OIL GRAVITY °API	PRODUCING METHOD (Flowing, pumping, gas lift, etc.)			

GAS PRODUCTION		
MEASUREMENT METHOD: FLANGE TAP <input type="checkbox"/> PIPE TAP <input type="checkbox"/> L-10 <input type="checkbox"/>	POSITIVE CHOKE CRITICAL FLOW PROVER <input type="checkbox"/>	
ORIFICE DIAMETER	PIPE DIAMETER (INSIDE DIAM.)	NOMINAL CHOKE SIZE - IN.
DIFFERENTIAL PRESSURE RANGE	MAX. STATIC PRESSURE RANGE	PROVER & ORIFICE DIAM. - IN.
DIFFERENTIAL	STATIC	GAS GRAVITY (Air-1.0) MEASURED ESTIMATED
GAS GRAVITY (Air-1.0)	FLOWING TEMPERATURE	GAS TEMPERATURE °F
24 HOUR COEFFICIENT.	24 HOUR COEFFICIENT	
PRESSURE - psia		

TEST RESULTS			
DAILY OIL <u>5</u> bbls.	DAILY WATER - bbls.	DAILY GAS <u>50</u> Mcf.	GAS-OIL RATIO 10,000 SCF/STB

Actual production as calculated using orifice meter and gauging tank.

REED ENERGY BY:
SANCHO OIL AND GAS CORPORATION

Well Operator
By: James L. Boyley
Its: President



1) Date: March 15, 19 84
 2) Operator's LEE#2
 Well No. _____
 3) API Well No. 47 - 095 - 1056
 State County Permit

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES, OIL AND GAS DIVISION
 APPLICATION FOR A WELL WORK PERMIT

- 4) WELL TYPE: A Oil / Gas
 B (If "Gas", Production / Underground storage _____ / Deep _____ / Shallow)
- 5) LOCATION: Elevation: 913.5 / Watershed: Ohio River
 District: Union / County: Tyler / Quadrangle: New Matamoras
- 6) WELL OPERATOR: Reed Energy Corp.
 Address: 425 Metro Place North
Dublin, Ohio 43017
- 7) DESIGNATED AGENT: Lee Gardner
 Address: 102 Morningside Circle,
Parkersburg, W.V. 26101
- 8) OIL & GAS INSPECTOR TO BE NOTIFIED: Robert Lowther
 Name: General Delivery
 Address: Middlebourne, W.V. 26149
- 9) DRILLING CONTRACTOR: J.D. Parsons & Co. Inc.
 Name: P.O. Box 94
 Address: Williamstown, W.V. 26187
- 10) PROPOSED WELL WORK: Drill / Drill deeper _____ / Redrill _____ / Stimulate
 Plug off old formation _____ / Perforate new formation _____
 Other physical change in well (specify) _____
- 11) GEOLOGICAL TARGET FORMATION, Devonian Shale (Marcellus)
- 12) Estimated depth of completed well, 5800 feet
- 13) Approximate trata depths: Fresh, 50' feet; salt, 1800' feet.
- 14) Approximate coal seam depths: _____ Is coal being mined in the area? Yes _____ / No

15) CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	Size	SPECIFICATIONS			FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS	
		Grade	Weight per ft.	New	Used	For drilling			Left in well
Conductor	9 5/8"				X	80'	80'	CTS	Kinds
Fresh water	7"					900'	900'	CTS	NEAT
Coal									Sizes
Intermediate									
Production	4 1/2						5800	500 SX OR	Depths set
Tubing								AS REQ BY	RULE 15.01
Liners									Perforations:
									Top Bottom

OFFICE USE ONLY
 DRILLING PERMIT

Permit number 47-095-1056 Date March 16, 19 84

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. 8) Prior to the construction of roads, locations and plats 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.)

The permitted work is as described in the Notice and Application, plat, and reclamation plan, subject to any modifications and conditions specified on the reverse hereof.
 Permit expires March 16, 1986 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond:	Agent: <input checked="" type="checkbox"/>	Plat:	Casing	Fee
<u>CB</u>	<u>MH</u>	<u>MH</u>	<u>MH</u>	<u>1764</u>

Margaret J. Hasse
 Administrator, Office of Oil and Gas

NOTE: Keep one copy of this permit posted at the drilling location. File
 See the reverse side of the APPLICANT'S COPY for instructions to the well operator.