

5470

37-55-00 N

LONGITUDE 81-32-30 W

00001

REFERENCES

Berwind Land Co.

Coal Operator:
Peabody Coal Co.
600 Laidley Tower
Charleston, WV 25324

Proposed Well No. 27
586560.77 N
320834.76 E

T-rod id.
586283.84 N
320366.85 E

Western Peabody
Corp. 2396 ac.
D.B. 124/490

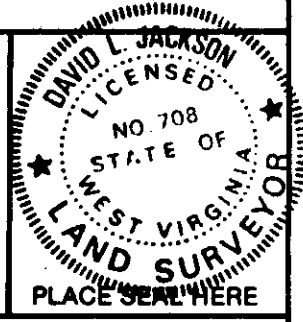
Roland Land Co.
D.B. 18/449

set stone id.
586560.35 N
320834.27 E

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

FILE NO. _____
DRAWING NO. 1
SCALE 1" = 2000'
MINIMUM DEGREE OF
ACCURACY 1 in 5000
PROVEN SOURCE OF
ELEVATION Peabody Sta. E-3
7570' SW of Location: elev
2483.00

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 REGU-
LATIONS ISSUED AND PRESCRIBED BY THE DEPART-
MENT OF ENERGY.
(SIGNED) David L. Jackson
R.P.E. _____ L.L.S. 708



STATE OF WEST VIRGINIA
DIVISION OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL & GAS
NITRO, WEST VIRGINIA 25143



DATE December 14, 19 88
OPERATOR'S WELL NO. 27
API WELL NO. 47-005-01500-P

WELL TYPE: OIL _____ GAS X LIQUID INJECTION _____ WASTE DISPOSAL _____
(IF "GAS,") PRODUCTION X STORAGE _____ DEEP _____ SHALLOW X
LOCATION: ELEVATION 2417 WATERSHED Hazy Creek and James Creek
DISTRICT Creek COUNTY Boone
QUADRANGLE Whitesville 7 1/2'
SURFACE OWNER Berwind Land Company ACREAGE 8044
OIL & GAS ROYALTY OWNER Berwind Land Company LEASE ACREAGE 8044
LEASE NO. 8391

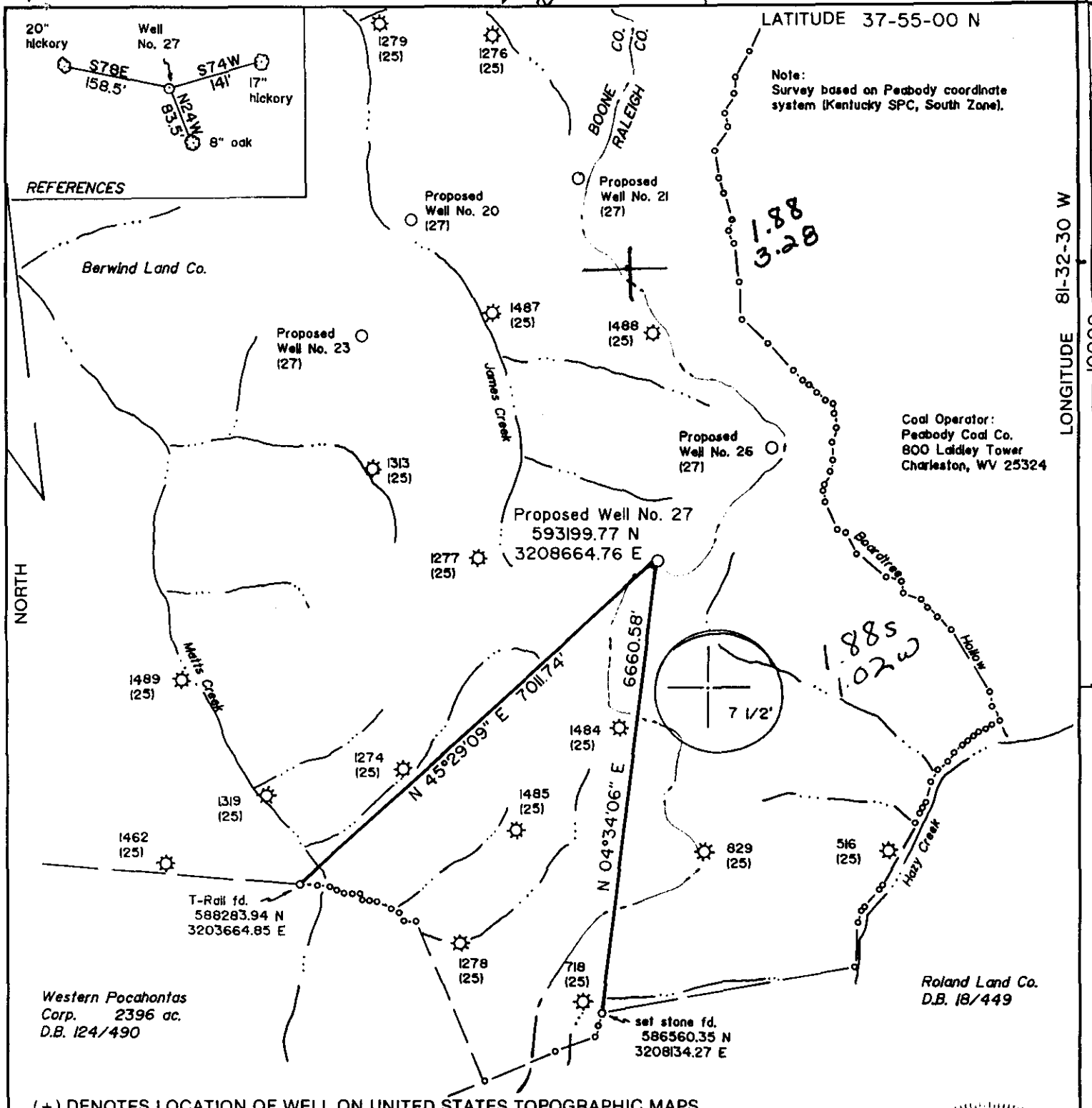
PROPOSED WORK: DRILL X CONVERT _____ DRILL DEEPER _____ REDRILL _____ FRACTURE OR
STIMULATE _____ PLUG OFF OLD FORMATION _____ PERFORATE NEW
FORMATION _____ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____
Well drilled in 1989 by 7110710 4193 production from Main 3902'
PLUG AND ABANDON _____ CLEAN OUT AND REPLUG _____
TARGET FORMATION Berea ESTIMATED DEPTH 4400 Eastern American Logging

WI
AC Eastern American Energy Corporation
501 56th. Street
Charleston, WVa. 25304

DESIGNATED
ADDRESS John Paletti
Same address
PH: 304-925-6100

BOONE COUNTY NAME PERMIT 1500

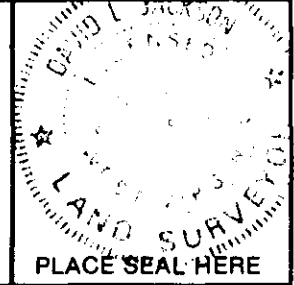
FORM WW-6 H.T. HALL 48673



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

FILE NO. _____
 DRAWING NO. 1
 SCALE 1" = 2000'
 MINIMUM DEGREE OF ACCURACY 1 in 5000
 PROVEN SOURCE OF ELEVATION Peabody Sta. E-3
7570' SW of Location; elev. 2489.88

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.
 (SIGNED) David L. Jackson
 R.P.E. _____ L.L.S. 708



STATE OF WEST VIRGINIA
 DEPARTMENT OF ENERGY
 OIL AND GAS DIVISION

DATE December 14, 19 88
 OPERATOR'S WELL NO. 27
 API WELL NO. 47 005 1500
 STATE COUNTY PERMIT

WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___
 (IF "GAS,") PRODUCTION X STORAGE ___ DEEP ___ SHALLOW X

LOCATION: ELEVATION 2417 WATERSHED Hazy Creek and James Creek
 DISTRICT Crook COUNTY Boone
 QUADRANGLE Whitesville 7 1/2' 677 0066 Bald Knob EC

SURFACE OWNER Berwind Land Company ACREAGE 8044
 OIL & GAS ROYALTY OWNER Berwind Land Company LEASE ACREAGE 8044
 LEASE NO. 8391

PROPOSED WORK: DRILL X 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 Berea ESTIMATED DEPTH 4400

WELL OPERATOR Natural Resource Management Corp. DESIGNATED AGENT Dave Cash, Natural Resource Management Corp.
 ADDRESS 681 Andersen Drive, Foster Plaza VI ADDRESS 312 Sixth Avenue
Pittsburgh, PA 15220 1049 Charleston, WV 25303

FEB 17 1989

6-6 Hopkins Fork - Jarrolds Valley (247)

FORM WW-6 M.T. HALL 4-8673

COUNTY NAME PERMIT

State of West Virginia
DEPARTMENT OF ENERGY
Division of Oil and Gas

Well Operator's Report of Well Work

Farm name: BERWIND LAND COMPANY Operator Well No.: BERWIND LAND 27

LOCATION: Elevation: 2417.00 Quadrangle: WHITESVILLE

District: CROOK County: BOONE
Latitude: 10000 Feet South of 37 Deg. 55Min. 0 Sec.
Longitude: 5470 Feet West of 81 Deg. 32 Min. 30 Sec.

Company: NATURAL RESOURCE MANAGEME

681 ANDERSON DR. FOSTER PLAZA 6 | Casing | Used in | Left | Cement

PITTSBURGH, PA 15220-0000

Agent: DAVE CASH

Inspector: JERRY HOLCOMB

Permit Issued: 02/14/89

Well work Commenced: 05/06/89

Well work Completed: 05/22/89

Verbal Plugging

Permission granted on:

Rotary x Cable _____ Rig

Total Depth (feet) 4,193'

Fresh water depths (ft) 205'

Salt water depths (ft) 3,195'

Is coal being mined in area (Y/N)? Y

Coal Depths (ft): 190, 313, 400, 517, 763,
789, 850, 945, 998, 1,065,
1,253.

Size	Drilling	in Well	Fill Up Cu. Ft.
13 3/8"	30'	30'	conductor
9 5/8"	1,331'	1,331'	CTS
4 1/2"	4,136'	4,136'	257 cuft

OPEN FLOW DATA

Producing formation Weir Sand Pay zone depth (ft) 3,902'
Gas: Initial open flow 103 MCF/d Oil: Initial open flow _____ Bbl.
Final open flow 2,900 MCF/d Final open flow _____ Bbl.
Time of open flow between initial and final tests _____ Hou:
Static rock Pressure 540 psig (surface pressure) after 8 Hou:

Second producing formation none Pay zone depth (ft) _____
Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl.
Final open flow _____ MCF/d Final open flow _____ Bbl.
Time of open flow between initial and final tests _____ Hou:
Static rock Pressure _____ psig (surface pressure) after _____ Hou:

NOTE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1). DETAILS OF PERFORAT INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WE LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATION INCLUDING COAL ENCOUNTERED BY THE WELLBORE.

For: William A. Straslicka
NATURAL RESOURCE MANAGEMENT CORP.

By: William A. Straslicka, Regional Engineering Mgr.
Date: 05/25/89

DEC 29 1989

STATE OF WEST VIRGINIA
DEPARTMENT OF ENERGY, DIVISION OF OIL AND GAS
WELL WORK PERMIT APPLICATION

- 1) Well Operator: Natural Resource Management Corporation *34550, 1, 076*
- 2) Operator's Well Number: Berwind Land #27 3) Elevation: 2417'
- 4) Well type: (a) Oil / or Gas X/
- (b) If Gas: Production X/ Underground Storage /
Deep / Shallow X/
- 5) Proposed Target Formation(s): Berea
- 6) Proposed Total Depth: 4400 feet
- 7) Approximate fresh water strata depths: 380'
- 8) Approximate salt water depths: 2380'
- 9) Approximate coal seam depths: 160', 280', 400', 530', 540', 770', 840', 950', 1070', 1140', 1270'
- 10) Does land contain coal seams tributary to active mine? Yes X/ No /
- 11) Proposed Well Work: Drill and fracture stimulate. *New Well*
- 12)

CASING AND TUBING PROGRAM

TYPE	SPECIFICATIONS			FOOTAGE INTERVALS		CEMENT
	Size	Grade	Weight per ft.	For drilling	Left in well	
Conductor	13-3/8"		48	30'	-	
Fresh Water						<i>38CSR18-113</i>
Coal	9-5/8"		32.3	1320'	1320'	<i>CTS</i>
Intermediate						<i>38CSR18-112</i>
Production	4-1/2"		10.5	4400'	4400'	<i>38CSR18-111</i> As Required
Tubing						
Liners						

PACKERS : Kind _____
 Sizes _____
 Depths set _____

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1992
1-3 Fee(s) paid: *[Signature]* Well Work Permit *[Signature]* Reclamation Fund *[Signature]* WPCP
[Signature] Plat *[Signature]* WW-9 *[Signature]* WW-2B *[Signature]* Bond *[Signature]* *[Signature]* Agent
(Type)

0-2-4-2

WR-38
15-Jan-98

API #47-005-01500-P

STATE OF WEST VIRGINIA
DIVISION OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS
AFFIDAVIT OF PLUGGING AND FILLING WELL

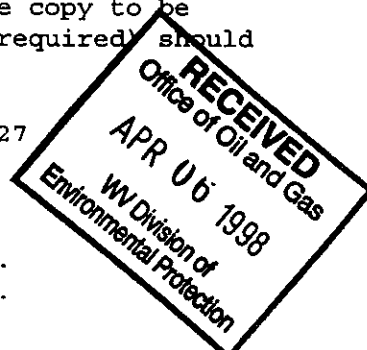
AFFIDAVIT SHOULD BE IN TRIPLICATE, one copy mailed to the Division, one copy to be retained by the Well Operator and the third copy (and extra copies if required) should be mailed to each coal operator at the respective address.

Farm name: BERWIND LAND COMPANY Operator Well No.: BERWIND #27

LOCATION: Elevation: 2,417.00 Quadrangle: Whitesville
District: CROOK County: BOONE
Latitude: 10000 Feet South of 37 Deg. 55 Min. 0 Sec.
Longitude: 5470 Feet West of 81 Deg. 32 Min. 30 Sec.

Well Type: OIL _____ GAS X

Company: Eastern American Energy Corp. Coal Operator: Performance Coal Co.
501 56th Street C/O Massey Coal Services
Charleston, WV 25304 P O Box 750
Dunbar, WV 25064
Agent: John Paletti Coal Owner: Berwind Land Company
100 One Valley Square
Permit Issued: 01/29/97 Charleston, WV 25301



AFFIDAVIT

STATE OF WEST VIRGINIA
County of Boone ss:

Dowell Schlumberger, and Mark Jenkins (EAEC) being first duly sworn according to law depose and say that they are experienced in the work of plugging and filling oil and gas wells and were employed by the above named well operator, and participated in the work of plugging and filling the above well, and Richard Campbell, Oil and Gas Inspector representing the Director, say that said work was commenced on the 10th day of February, 1998, and that the well was plugged and filled in the following manner:

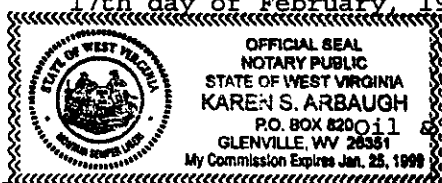
TYPE	FROM	TO	PIPE REMOVED	LEFT
15 sxs Class A	3900'	3700'	2315' 4-1/2" csg	1823' 4-1/2"
60 sxs Class A	2300'	2100'		1331' 9-5/8"
CIBP set 1485'				
115 sxs Thixo.	1485'	1000'		
400 sxs Class A	1000'	surface		

Description of monument: 4' of 4-1/2" casing with API number and that the work of plugging and filling said well was completed on the 11th day of February, 1998. And further deponents saith not.

EAEC

Mark Jenkins, Drilling Supervisor

Mark Jenkins, Drilling Supervisor for EAEC, sworn and subscribed before me on this the 17th day of February, 1998. My commission expires January 25, 1999.



Notary Public:
Gas Inspector:

800 1500-P

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FEB 10 1989

Page 1 of 10
Form WW2-A
(09/87)
File Copy

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

1) Date: December 20, 1988
2) Operator's well number
Berwind Land #27
3) API Well No: 47 - 005 - 1500
State - County - Permit

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

NOTICE AND APPLICATION FOR A WELL WORK PERMIT

- 4) Surface Owner(s) to be served:
- (a) Name Berwind Land Company
Address 1050 One Valley Square
Charleston, WV 25301
- (b) ~~Name~~ Attn: Raymond C. Brainard
Address _____
- (c) Name _____
Address _____
- 5) (a) Coal Operator:
Name Peabody Coal Company
Address P. O. Box 1233
Charleston, WV 25324 Attn: Mike Eddie
- (b) Coal Owner(s) with Declaration
Name Berwind Land Company
Address 1050 One Valley Square
Charleston, WV 25301
- ~~Name~~ Attn: Raymond C. Brainard
Address _____
- (c) Coal Lessee with Declaration
Name Peabody Coal Company
Address P. O. Box 1233
Charleston, WV 25324 Attn: Mike Eddie
- 6) Inspector Jerry Holcomb
Address Rt 2, Box 159, Hwy #34
Hamlin, WV 25523
Telephone (304)- 824-5963

TO THE PERSON(S) NAMED ABOVE TAKE NOTICE THAT:

_____ Included is the lease or leases or other continuing contract or contracts by which I hold the right to extract oil and gas OR
x Included is the information required by Chapter 22B, Article 1, Section 8(d) of the Code of West Virginia (see page 2)

I certify that as required under Chapter 22B of the West Virginia Code I have served copies of this notice and application, a location plat, and accompanying documents pages 1 through 7 on the above named parties, by:

- x Personal Service (Affidavit attached)
_____ Certified Mail (Postmarked postal receipt attached)
_____ Publication (Notice of Publication attached)

I have read and understand Chapter 22B and 38 CSR 11-18, and I agree to the terms and conditions of any permit issued under this application.

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete.

I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Well Operator Natural Resource Management Corporation
By: Robert T. Golier Robert T. Golier
Its: Vice President and Eastern Region Manager
Address 681 Andersen Dr., Foster Plaza VI
Pittsburgh, PA 15220
Telephone (412) 921-3700

Subscribed and sworn before me this 20th day of December, 1988

Louise A. Bugna
My commission expires _____

NOTARIAL SEAL
LOUISE A. BUGNA, NOTARY PUBLIC
GREEN TREE BORO, ALLEGHENY COUNTY
MY COMMISSION EXPIRES NOV. 19, 1992

Notary Public

Member, Pennsylvania Association of Notaries

DETAILS OF PERFORATED INTERVALS, FRACTURING, PHYSICAL CHANGES

Perforated Weir Sand from 3,898' - 3,941' with 28 shots. Fractured with 500 gal. of HCl; 500 gal. of MeOH; 722 bbls of 25 lb. gel water, 613 sks of 20/40 sand and 250 scf/bbl N₂. AIP = 898 psi. AIR = 23.7 BPM. Breakdown @ 606 psi. ISIP 441 psi.

WELL LOG

FORMATION	COLOR	HARD/SOFT	TOP FEET	BOTTOM FEET	REMARKS
Sand & Shale			75	190	
Coal			190	195	
Sand & Shale			195	313	
Coal			313	318	hole wet at 205'; 1 1/2" of water
Shale			318	400	
Coal			400	410	
Sand & Shale			410	449	
Sand			449	517	
Coal			517	520	
Sand & Shale			520	763	
Coal			763	766	
Sand & Shale			766	789	
Coal			789	793	
Sand & Shale			793	851	
Coal			851	855	
Sand & Shale			855	945	
Coal			945	950	
Sand			950	998	
Coal			998	1,001	
Sand & Shale			1,001	1,060	
Coal			1,060	1,072	
Sand			1,072	1,115	
Sand & Shale			1,115	1,253	
Coal			1,253	1,262	
Sand			1,262	1,347	
Shale			1,347	1,392	
Sand - Gray			1,392	1,436	
Sand & Shale			1,436	1,665	
Shale & Sand			1,665	1,783	
Sand & Shale			1,783	1,876	
Shale & Sand			1,876	1,969	
Sand & Shale			1,969	2,027	
Shale			2,027	2,032	
Sand & Shale			2,032	2,119	
Sand & Shale			2,119	2,441	
Shale			2,441	2,446	
Sand			2,446	2,477	
Sand & Shale			2,477	2,587	
Sand			2,587	2,620	
Sand & Shale			2,620	2,686	
Sand			2,686	2,745	
Sand & Shale			2,745	2,869	
Shale & Sand			2,869	2,931	
Shale & Red Rock Shale			2,931	2,994	
Red Rock Shale			2,994	3,056	
Sand & Shale			3,056	3,098	
Sand			3,098	3,235	hole damp at 3,195
Shale			3,235	3,252	
Sand			3,252	3,354	
Shale			3,354	3,414	
Little Lime			3,414	3,469	
Shale			3,469	3,474	
Big Lime			3,474	3,790	
Shale			3,790	3,895	
Upper Weir			3,895	3,950	
Shale			3,950	4,070	gas check at 3,960 - no show
Lower Weir "A"			4,070	4,074	
Shale			4,074	4,193	td - gas check: 103 mcf/d