

WR-35

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Office of Oil & Gas
JUN 15 2009

Date June 11, 2009
API # 47 - 049 - 01520 - F

WV Department of
Environmental Protection

State of West Virginia
Division of Environmental Protection
Section of Oil and Gas
Well Operator's Report of Well Work

Farm Name: Consolidation Coal Co. Operator Well No.: Consol 1621 Frac

LOCATION: Elevation: 1,435' Quadrangle: Wallace
District: Mannington County: Marion
Latitude: 10,880' feet South of 39 DEG. 30 MIN. 00 SEC.
Longitude: 3'650' feet West of 80 DEG. 22 MIN. 30 SEC.

Company: Linn Operating, LLC
PO Box 1008
Jane Lew, WV 26378

Agent: Gary Beall
Inspector: Bill Hatfield
Permit Issued: August 17, 2006
Well Work Commenced: September 5, 2006
Well Work Completed: September 5, 2006
Verbal Plugging:
Permission granted on:
Rotary X Cable
Total Depth (feet) 3395'
Fresh Water Depths (ft) N/A- Frac
Salt Water Depths (ft) N/A- Frac
Is coal being mined in area (Y / N) ? N
Coal Depths (ft) N/A-Frac

Casing & Tubing Size	Used in Drilling	Left In Well	Cement Fill Up Cu. Ft.
13 3/8"	42'	42'	
9 5/8"	845'	845'	280 sks CTS
7"	1,696'	1,696'	256 sks CTS
4 1/2"	3,233'	3,233'	

OPEN FLOW DATA

Producing Formation 5th Sand, Gordon, 30' Sand, Big Injun
Gas: Initial Open Flow Show MCF/d
Final Open Flow Show MCF/d
Time of open flow between initial and final tests N/A Hours
Static rock pressure N/A psig surface pressure after 24 Hours

Pay Zone
Depth (ft) 2,238' - 3,182'
Oil: Initial Open Flow N/A Bbl/d
Final Open Flow N/A Bbl/d

Second Producing Formation
Gas: Initial Open Flow MCF/d
Final Open Flow MCF/d
Time of open flow between initial and final tests Hours
Static rock pressure psig surface pressure after Hours

Pay Zone
Depth (ft)
Oil: Initial Open Flow Bbl/d
Final Open Flow Bbl/d

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

For: Linn Operating, LLC

By:

[Signature]
6-12-09

Drilling Superintendent

Date:

Stage	Formation	Depth & No. of Shots	Treatment Detail
1	5th Sand	3,174'- 3,182' 24 Shots	X-Link w/N2 Assist: Breakdown 2,961 psi; Avg Treating 2,537 psi @ 27.6 bpm; 200 sacks 20/40 sand; 278 bbbls slurry- 10%N2; ISIP 2,002; 5min; 1,847; 10 min 1,823 psi
2	Gordon	2,998' - 3,012' 24 Shots	Attempt to break, would not- X-Link w/N2 Assist: Breakdown 4,000 psi; Avg Treating 3,425 psi @ 20 bpm; 67 sacks 20/40 sand; 187 bbbls slurry- 10%N2 (Screen Well Off); ISIP 4,000; Flow well back - re-spot acid for next stage.
3	30' Sand	2,800' - 2,815' 24 Shots	X-Link w/N2 Assist: Breakdown 4,280 psi; Avg Treating 3,217 psi @ 21.7 bpm; 71 sacks 20/40 sand; 385 bbbls slurry- 10%N2; ISIP 2,240; 5min; 1,950; 10 min 1,910 psi
4	Base of Big Injun	2,238'-2,242' 16 Shots	X-Link w/N2 Assist: Breakdown 3,908 psi; Avg Treating 2,621 psi @ 14 bpm; 108 sacks 20/40 sand; 283 bbbls slurry- 10%N2; ISIP 1,774; 5min; 1,596 psi

FORMATION	TOP	BOTTOM	REMARKS
Fracture/Stimulation Only			

49-01520F

STATE OF WEST VIRGINIA
DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL & GAS
WELL WORK PERMIT APPLICATION

- 1) Well Operator Linn Operating, LLC

Operator ID	49	County	District	Quadrangle
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- 2) Operator's Well Name Consol 1621 Frac 3) Elevation 1,435'
- 4) Well Type: (a) Oil _____ or Gas X
 (b) If Gas: Production X Underground Storage _____
 Deep _____ Shallow X
- 5) Proposed Target Formation(s): Balltown
- 6) Proposed Total Depth: 4,100' Feet
- 7) Approximate fresh water strata depths: 191'
- 8) Approximate salt water depths: None
- 9) Approximate coal seam depths: 807'
- 10) Does land contain coal seams tributary to active mine? No
- 11) Describe proposed well work: Drill and stimulate a new well.

CASING AND TUBING PROGRAM

TYPE	SPECIFICATIONS			FOOTAGE	INTERVALS	CEMENT
	Size	Grade	Weight per ft.	For Drilling	Left in Well	Fill-up (Cu.Ft)
Conductor						
Fresh Water						
Coal	9 5/8"	API	29#	840'	840'	C.T.S.
Intermediate	7"	API	17#	1,660'	1,660'	C.T.S.
Production	4 1/2"	API	10.5#	<i>Blk 8-15-06</i> 4,100'	4,100'	300 SKS
Tubing						
Liners						

Packers: Kind _____
 Size _____
 Depths Set _____

