## State of West Virginia Department of Environmental Protection Office of Oil and Gas

DATE: December 23, 2002 API #: 47-033-04367

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## Well Operator's Report of Well Work

Farm name: <u>Harrison County Development Authority</u> Operator Well No.: <u>LaRosa No. 5</u>					
LOCATION: Elevation: _1,187	Quadrangle: <u>Clarksburg</u>				
District: Simpson  Latitude: 9.150' Feet South of 39  Longitude 300' Feet West of 80	Deg <u>17</u>	y:Harrison_ Min30 Min00	Sec.		
Company: Denex Petroleum Corporation					
7780000	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.	
Address: Route 5, Box 560	11 3/4"	40'	0	none	
Buckhannon, WV 26201	8 5/8"	1,150'	1,150'	328 sx	
Agent: R. Dennis Xander	4 1/2"		4,626'	430 sx	
Inspector: Tim Bennett		22.20	700	***	
Date Permit Issued: September 11, 2002			-1-1-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-		
Date Well Work Commenced: October 12, 2002		The state of the s			
Date Well Work Completed: October 17, 2002					
Verbal Plugging:					
Date Permission granted on:					
Rotary X Cable Rig					
Total Depth (feet): 4,651'				ļ	
Fresh Water Depth (ft.): 77', 210'					
Salt Water Depth (ft.): 969'			1 To analysis of the		
Is coal being mined in area (N/Y)? N				4897.00	
Coal Depths (ft.): None (below coal)				1	
Producing formations: Benson, Riley & Speechley (co-mingled) Pay zone depth (ft) See Page 2  Gas: Initial open flow 47 MCF/d Oil: Initial open flow 0 Bbl/d  Final open flow 525 MCF/d Final open flow 0 Bbl/d  Time of open flow between initial and final tests 4 Hours  Static rock Pressure 1,085 psig (surface pressure) after 72 Hours  Signed: By: R. Dennis Xander, President  Date: December 23, 2002					

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Benson: Perforations: 14 holes from 4,504.5' to 4,508'.

Details of Stimulation: Fractured Benson with 5,000 lbs. of 80/100 sand and 50,000 lbs. of 20/40 sand. Formation broke at 2,900 psig, and treated at an average rate of 32 bbls/min and an average pressure of 2,434. ISIP was 2,170.

Riley Perforations: 4 holes from 4,351'-4,352', 4 holes from 4,338'-4,339', 1 hole at 4,322', 2 holes at 4,300.5', 1 hole at 4,276' and 2 holes from 4,261'-4,263'.

Details of Stimulation: Fractured Riley with 750 gallons of 15% HCI acid, 5,000# of 80/100 sand and 35,000# of 20/40 sand. No obvious break observed. Formation treated at an average rate of 24 bbl/minute and an average pressure of 2,999 psi. ISIP was 2,368 psi. 1 minute pressure was 1,852 psi.

Speechley Perforations: 7 holes from 3,194'-3,196', 2 holes from 3,002'-3,002.5', 4 holes from 2,984'-2,985'. Details of Stimulation: Fractured Speechley with 750 gallons of 15% HCl acid, and 52,000# of 20/40 sand.No obvious break observed. Formation treated at an average rate of 26 bbl/minute and an average pressure of 2,950 psi. I minute pressure was 1,571 psi.

Тор	Bottom	Formation	Remarks
0	07	Dirt, Sandstone	
07	10	State, Shale & Fill	• •
10	113	Sand, Shale	Damp (a), 77'
113	163	Sand, Shale	1 Sec
163	176	Sand	
176	236	Sand, Shale, Red Rock	%" water (a) 210
236	777	Sand, Shale	43,370
777	824	Gray Shale	
824	847	Sand	
847	881	Sandstone	
881	884	Red Rock	
884	949	Sandstone, Shale	
949	969	Sandstone, Grey & Wh	Pick up more water
969	1200	Gray Shale	- 3-1:
1200	1251	Gray Shale, Red Rock	
1251	1260	Sand	
1260	1446	Shale	Check Gas 1377 No Show
1446	1469	Sand	Calcal Class 1.77 140 Singw
1469	1506	Lime Streaks	
1506	1650	Big Lime	•
1650	1670	Big Injun	
1670	2280	Sand, Shale	Check Gas 1753 No show
2280	2320	Shale	(2000) (12.75 (40 SHOW
2320	2522	Sand, Shale	Check Gas 2407 No show
2522	2544	Fifth Sand	CHARLE TAS 2-TO / INO SHOW
2544	3184	Sand, Shale	Check Gas 2906 No show
3184	3217	Speechly	CHOCK CAS 2.700 INC SIRW
3217	3408	Sand, Shale	•
3408	3530	Shale	Check Gas @ 3529 No show
3530	3584	Balltown	1,000 cm3 (63 3.07 ) 140 210M
3584	3905	Shale	
3905	4010	Sand, Shale	
4010	4260	Shale	Check Gas 4027 4/10 - 1" - B2O
4260	4372	Riley	(3700) (383 4037 4) (0 - ( - H2C)
4372	4508	Sand, Shale	Check Gas 4399 2/10 - 1" - H2O
4508	4528	Benson	Check Gas 4620 20/10 ["-][20
4528	4651	Sand, Shale	Check Gas TD 26/10 1" 1120
		•	Check Gas (a) Collars 10/10 1" 112O
			5 112G