

10-24 to 10/31
WOC

LYCO ENERGY CORPORATION

Daily Completion Report

Well: G.J. Miller REPORT DATE: 11/1/88
Date: 11/1/88

Casing: Size 4 1/2 Weight 11.6 N-80 Depth PBTD

Tubing: Size Weight Depth

Perforations:		Formation	Tools:		Setting Depth
From	To		Type		
6948	6962	Codell			
6926, 6930, 6935, 6938, 6942, 6945		Ft. Hays			

Total Load Load Recovered TLTR

Operations: OWP wireline run Correlation
Bond Log from 7031 PBTD to
6150 Top of Cement Face Baffle
at 6896' Good Bond Perforated
6948-6962 25psi and Ft. Hays
6926, 6930, 6935, 6938, 6942, 6945 15psi
with 22 grain charges 34" hole
RU 4 1/2" Face Valve.

Comp Rig	
Water	
Trucking	
Cementing	
Stimulation	
Fishing Tools	
Log & Perf	
Codell & BP	<u>2600</u>
Circ Eqp	
Dirt Work	
Roustabout	
Supervision	<u>500</u>
Tubing	
Battery	
Wellhead	
Rods & Pmp	
Misc	

Day Total 3100

Cum Total

SWT FN

LYCO ENERGY CORPORATION

Daily Completion Report

Well: GJ Miller 33-24

REPORT DATE:

Date: 11/12/88

Casing: Size 4 1/2 Weight 11.6 Depth N-80 PBTD _____

Tubing: Size _____ Weight _____ Depth _____

Perforations:	Tools:	
From To Formation	Type	Setting Depth

<u>6948</u>	<u>6962</u>	<u>2 sps. Codell</u>		
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<u>6926, 6930, 6935, 6938, 6942, 6945</u>	<u>Ft. Hays</u>			
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<u>6638, 6643, 6651, 6654</u>	<u>Niob A</u>			
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<u>6759, 6764, 6768, 6772, 6777, 6781, 6785</u>	<u>B</u>			
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<u>6835, 6839, 6844, 6855, 6861, 6867</u>	<u>C</u>			
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Total Load _____ Load Recovered _____ TLTR _____

Operations:

Halliburton Frac Codell with 58000

gallons crosslinked 1% KCl water containing

5000 # 100 mesh and 150000 # 20/40 sand,

Avg Rate 12 BPM, Avg Pressure 3000 psi

ISIP 3260 psi 15 min SIP 3090 psi

T.L. 1367 < Codell Frac >

OWP wireline perforated Niobren with

3 1/2" select fire 10 gram charges, .34" holes

Niob C 6867, 6861, 6855, 6844, 6839, 6835

Niob B 6785, 6781, 6777, 6772, 6768, 6764, 6759

Niob A 6654, 6651, 6643, 6638

Comp Rig	
Water	<u>2700</u>
Trucking	
Cementing	
Stimulation	<u>70000</u>
Fishing Tools	
Log & Perf	<u>2600</u>
Pkr & BP	
Circ Eqp	
Dirt Work	
Roustabout	
Supervision	<u>500</u>
Tubing	
Battery	
Wellhead	
Rods & Pmp	
Misc	

Day Total 75,800

Cum Total _____

Halliburton Frac Niobren with 104,000 gallons of crosslinked 1% KCl

water containing 10000 # 100 mesh and 350000 # 20/40 sand, Avg Rate

33 BPM Avg Pressure 4300 psi ISIP 3400 psi 15 min SIP 3100 psi

T.L. 1939 < Niobren Frac >

LYCO ENERGY CORPORATION

DAILY WORKOVER SUMMARY

PROSPECT: OBJECTIVE: Niobrara
WELL: G.J. Miller #33-24 PTD:
LOCATION: Weld county, CO SPUD DATE: 10/18/88
OPERATOR: Lyco Energy Corp. EST.COMP. DATE:

REPORT DATE: COMMENTS:

10-27-88 WOC

10-28-88 WOC

10-29-88 WOC

10-30-88 WOC

10-31-88 WOC

11-1-88 OWP Wireline ran Correlation Bond Log from 7031 PBTD to 6150 top of cement. Frac baffle @ 6896'. Good bond. Perf Niobrara 6948-6962, 2 spf & Ft. Hayes 6926, 6930, 6935, 6938, 6942, 6945, 1 spf w/22 gram charges, .34" hole. R.U. 4 1/2" frac valve. *Codell*

Day Total:\$3100

Cum.Total:\$109,834

11-2-88 Halliburton frac Codell w/58,000 gals Crosslinked 1% KCL water containing 5000# 100 mesh & 150,000# 20/40 sand. Avg rate 12 bpm, Avg pressure 3000 PSI, ISIP 3260 PSI, 15 min SIP 3090 PSI. TL 1367

CODELL FRAC

GALLONS	STAGE	PRESSURE	RATE
500	15% HCL acid	3000	6
10,000	Pad	3440	12
5,000	1# 100 mesh	3640	12
5,000	Spacer	3450	12
5,500	2# 20/40	3570	12
5,500	3# 20/40	3260	12
5,000	4# 20/40	3160	12
5,000	5# 20/40	2960	12
11,000	6# 20/40	2850	12
1,500	15% HCL acid	2870	12
3,500	Flush	3170	12

OWP Wireline perf Niobrara w/3 1/8" Select Fire, 10 gram charges, .34" holes:

Niobrara "C": 6867, 6861, 6855, 6844, 6839, 6835

Niobrara "B": 6785, 6781, 6777, 6772, 6768, 6764, 6759

Niobrara "A": 6654, 6651, 6643, 6638

Halliburton frac Niobrara w/104,000 gals of Crosslinked 1% KCL water containing 10,000# 100 mesh & 350,000# 20/40 sand Avg rate 33 bpm, Avg pressure 4300 PSI, ISIP 3400 PSI, 15

LYCO ENERGY CORPORATION

DAILY WORKOVER SUMMARY

PROSPECT:	OBJECTIVE: Niobrara
WELL: G.J. Miller #33-24	PTD:
LOCATION: Weld county, CO	SPUD DATE: 10/18/88
OPERATOR: Lyco Energy Corp.	EST.COMP. DATE:

REPORT DATE:	COMMENTS:
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11-2-88 continued
min SIP 3100 PSI. TL 1939. TL BOTH FRACS 3306

NIOBRARA FRAC

GALLONS	STAGE	PRESSURE	RATE
20,000	Pad	5000	33
5,000	2# 100 mesh	4800	33
5,000	Spacer	5000	33
6,500	2# 20/40	4700	33
7,000	3# 20/40	4500	33
14,000	4# 20/40	4310	33
14,000	5# 20/40	4050	33
28,000	6# 20/40	3810	33
4,300	Flush	3770	33

Day Total:\$75,800

Cum.Total:\$185,634

11-3-88	16 hr. SICP 2200 PSI. Open to frac tank on 12/64 choke. Recovered 514 BF, 5% oil. FCP 400 PSI. TL 3306, TLR 514, TLTR 2792.
11-4-88	24 hrs. flowing to frac tank. Recovered 230 BF, 5 to 10% oil. FCP 400 PSI. TL 3306, TLR 744, TLTR 2562.
11-5-88	24 hrs. flowing to frac tank. Recovered 175 BF, 15% oil. FCP 350 PSI. TL 3306, TLR 919, TLTR 2387.
11-6-88	24 hrs. flowing to frac tank. Recovered 98 BF, 15% oil. FCP 325 PSI. TL 3306, TLR 1017, TLTR 2289.
11-7-88	24 hrs. flowing to frac tank. Recovered 113 BF, 20-25% oil. FCP 300 PSI. TL 3306, TLR 1130, TLTR 2176.
11-8-88	24 hrs. flowing to frac tank. Recovered 67 BF, 30% oil. FCP 275 PSI. TL 3306, TLR 1197, TLTR 2109. Well shut in.

LYCO ENERGY CORPORATION

DAILY WORKOVER SUMMARY

PROSPECT:	OBJECTIVE: Niobrara
WELL: G.J.Miller #33-24	PTD:
LOCATION: Weld county, CO	SPUD DATE: 10/18/88
OPERATOR: Lyco Energy Corp.	EST.COMP. DATE:

REPORT DATE:	COMMENTS:
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11-4-88	24 hrs. flowing to frac tank. Recovered 230 BF, 5 to 10% oil. FCP 400 PSI. TL 3306, TLR 744, TLTR 2562
11-5-88	24 hrs. flowing to frac tank. Recovered 175 BF, 15% oil. FCP 350 PSI. TL 3306, TLR 919, TLTR 2387.
11-6-88	24 hrs. flowing to frac tank. Recovered 98 BF, 15% oil. FCP 325 PSI. TL 3306, TLR 1017, TLTR 2289.
11-7-88	24 hrs. flowing to frac tank. Recovered 113 BF, 20-25% oil. FCP 300 PSI. TL 3306, TLR 1130, TLTR 2176.
11-8-88	24 hrs. flowing to frac tank. Recovered 67 BF, 30% oil. FCP 275 PSI. TL 3306, TLR 1197, TLTR 2109. Well shut in.

FINAL REPORT UNTIL FURTHER OPERATIONS

3-28-89	MIRU Gibson Rig #59. Kill well w/50 bbls 250 F lease crude. N.D. 4 1/2" frac valve. N.U. 4 1/2 x 2 3/8" Larkin tubing head & BOP. RIH w/3 3/4" blade bit on 2 3/8" tubing. Tag sand @ 6715' on 215 jts. Rig up circulating equipment. SWIFN
	Day Total:\$11,234 Cum.Total:\$196,868
3-29-89	Drill sand from 6715' thru baffle @ 6896' to PBTD 7030'. Circulate hole clean & pull seating nipple up to 6908' on 224 jts 2 3/8" tubing. N.D. BOP & N.U. wellhead. Broach tubing w/1.90" tool to S.N. Swab tubing-recovered 44 BW. Release workover rig. SWIFN
	Day Total:\$2394 Cum.Total:\$199,262

LYCO ENERGY CORPORATION

DAILY WORKOVER SUMMARY

PROSPECT: OBJECTIVE: Niobrara
WELL: G.J.Miller #33-24 PTD:
LOCATION: Weld county, CO SPUD DATE: 10/18/88
OPERATOR: Lyco Energy Corp. EST.COMP. DATE:

REPORT DATE: COMMENTS:

3-30-89 Swab tubing. Recovered 52 BW. Well would flow in heads.
Day Total:\$509 Cum.total:\$199,771

3-31-89 Swab tubing. Recovered 31 BW. Well would flow in heads.
Day Total:\$510 Cum.Total:\$200,281

FINAL REPORT UNTIL FURTHER OPERATIONS

4-6-89 Hot oil tubing w/30 bbls of hot oil. Chase plunger to bottom
Swab well in. REASON FOR HOT OIL: Drop plunger in a.m. on
4/5/89. Didn't go to bottom. Brought plunger back to surface
Plunger covered with paraffin.
Day Total:\$597 Cum.total:\$200,878

STIMULATION TREATMENT REPORT



Date 06-DEC-03 District Brighton F.Receipt 225124083 Customer Petroleum Development Corporat
 Lease GJ Miller 33-24 Well Name GJ Miller 33-24
 Field Wattenberg Location _____
 County Weld State Colorado Stage No 1 Well API _____

WELL DATA		Well Type:	NEW	Well Class:	GAS	Depth TD/PB:	7000	Formation:	CODELL
Geometry Type	Tubular Type	OD	Weight	ID	Grade	Top	Bottom	Perf Intervals	
TUBULAR	TBG	2.875	6.5	2.441		0	6285	Top	Bottom
TUBULAR	CSG	4.5	11.6	4	N-80	0	7000	6950	6958
								3	.34

Packer Type Arrow set 1x Packer Depth 6285 FT

TREATMENT DATA					LIQUID PUMPED AND CAPACITIES IN BBLs				
Fluid Type	Fluid Desc	Pumped Volume(Gals)	Prop. Description	Volume Pumped(Lbs)					
TREATMENT FLUID	Vistar 24	80.598	Sand, White, 20/40	217.780					
PAD	VISTAR 24 - Pad	27.510	Super LC, 20/40	8.000					
Total Prop Qty:				225.780					
Previous Treatment <u>N/A</u> Previous Production <u>N/A</u>					Tubing Cap.	36.39			
Hole Loaded With <u>Vistar 24</u> Treat Via: Tubing <input checked="" type="checkbox"/> Casing <input type="checkbox"/> Anul. <input type="checkbox"/> Tubing & Anul. <input type="checkbox"/>					Casing Cap.	10.33			
Ball Sealers: <u>0</u> In <u>0</u> Stages Type _____					Annular Cap.	47.1			
Auxiliary Materials <u>GBW 5, GS 1A, HIGH PERM CRB LT, GBW 23L, FLO BACK 30</u>					Open Hole Cap.	0			
					Fluid to Load	4			
					Pad Volume	655			
					Treating Fluid	1919			
					Flush	45.7			
					Overflush	-1			
					Fluid to Recover	2620			

PROCEDURE SUMMARY

Time AM/PM	Treating Pressure-Psi		Surface Slurry BBLs. Pumped		Slurry Rate BPM	Comments
	STP	Annulus	Stage	Total		
09:00	8000	0	0	0	0	PRESSURE TEST/DISCUSS RECCOMENDATION WITH CUSTOMER
10:18	1520	222	4	0	1	TEST PACKER
10:32	4595	69	655	0	14.6	START PAD
11:19	4882	64	265	655	14.5	START 1 PSA
11:36	4906	65	517	920	14.5	START 2 PSA
12:12	4886	67	731	1437	14.5	START 3 PSA
01:03	4804	65	587	2168	14.5	START 4 PSA
01:43	4872	65	59	2755	14.4	START 4 PSA SUPER LC
01:48	4911	65	46	2814	14.4	START FLUSH
01:51	3650	65	0	2860	0	ISDP

Treating Pressure		Injection Rates		Shut In Pressures		Customer Rep.	
Minimum	4725	Treating Fluid	14.5	ISDP	3650	BJ Rep.	Mr. Steve Trippett
Maximum	5985	Flush	14.4	5 Min.	0	Job Number	Jesse M Silva
Average	4875	Average	14.5	10 Min.	0	Rec. ID No.	225124083
Operators Max. Pressure				15 Min.	0	Distribution	
7000				Final	3650 In 0 Min.		
				Flush Dens.	lb./gal. 8.34		