Form 3 160-5 (June 1990)

# UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT



FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 3 1,1993

5. Lease Designation and Serial No.

CE.	079104	

SUNDRY NOTICES AND REPORTS ON WELLS98 MAR 18 PM 1: 13 If Indian, Allonee or Tribe Name Do not use this form for proposals to drill or to deepen or reentry to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals 7. If Unit or CA, Agreement Designation SUBMIT IN TRIPLICA TE I. Type of Well Oil Well 8. Well Name and No. 2. Name of Operator Ludwick LS #7 CONOCO INC. 9. API Well No. 3. Address and Telephone No 30-045-08985 10 DESTA DR. STE. 100W, MIDLAND, TX. 79705-4500 (915) 686-5424 10. Field and Pool, or Exploratory Area 4. Location of Well (Footage, Sec., T. R. M. or Survey Description) Blanco Mesaverde Section 31, T-30-N, R-10-W, L 11. County or Parish, State 1650' FSL & 990' FWL San Juan CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA TYPE OF SUBMISSION TYPE OF ACTION Notice of Intent Change of Plans Abandonment Recompletion **New Construction** Non-Routine Fracrunng Plugging Back Casing Repair Water Shut-Off Conversion to Injection Add Pay Dispose Water Note: Reponresuitsof multiplecompitiononWdl Completion or Recompletion Report and Log form.) 13. Describe Proposed or Completed Operations (Clearly state ail pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\* It is proposed to add pay in the Menefee formation in the Mesaverde according to the attached procedure. OIL COM. DIV Kay Maddox March 15, 1998 Title Regulatory Agent Date (This space for Duase W. Speneer Approved by Conditions of approval if any

BLM(6), NMOCD(1), SHEAR, PONCA, COST ASST, FILE ROOM

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its junsdiction.



## Ludwick LS 7 Menefee Pay Add February 5, 1998

## Objective

Funds in the amount of \$108,000 are requested to cement squeeze the existing PC perforations and add Menefee pay in the Ludwick LS 7. The well has approximately 45' of Menefee that will be perforated and fracture treated. Addition of this pay should result in a production increase of 300 mcfd.

## Wellbore Specs (See attached Wellview information)

Amoco files appear not "up to date" (ie, indicates original tbg/ packer set in '56 still in well). Files indicate PC/MV well w/ single string of 2 3/8" tbg to 4854', and Baker model D packer @ 2493'. PC production up backside shut-in. MV currently producing through tbg. Drilled in 1956.

LOCATION: 1650' FSL, 990' FWL, Section 31, T 30 N, R 10 W, San Juan County

EL: 5979'; TD: 4926'; PBTD: 4910'

CASING: 5 1/2" liner, 15.5#, J-55, from 4195' to 4922'; TOC @ liner top (temp survey)

7 5/8", 26.4# J-55 set @ 4273', cemented w/ 600 sxs (TOC @ 1995', temp)

10 3/4", 36#, K-55 set @ 172', 125 cu ft of cement (circ to surf)

TUBING: 2 3/8" EUE, 4.7#, J-55

TREE: 10" 600 x 6" 600 OCT, w/ 2 3/8" EUE flange connection on top.

### **FORMATION TOPS:**

MV PTLK -- 4668' MV MEN -- 4160' MV CLHS -- 4000' PC -- 2360'

#### **EXISTING PERFS:**

PC:

2384'-2396'; 2410'-2422'

MV PtLk:

4666'-4680' 4722'-4735' 4841'-4852' 4864'-4884' 4894'-4908'

#### PROPOSED PERFS:

MV MEN:

4285', 93', 4301', 06', 14', 45', 49', 52', 62', 78', 81', 84',

4410', 43', 48', 86', 89', 4504', 18', 22', 26', 41', 44'

#### Notes:

Well recently acquired from Amoco.

Records are marginal. Shows no plunger in well; tubing/packer from original '56 completion.

Have yet to acquire logs from Amoco. Contact office just prior to rigup to see if available. (If open hole log not obtained, can have faxed down from Amoco office).

Baker Model D packer to be fished/milled out.

Liner top overlap approx 100' only, based on records. February 5, 1998

## 1. Pre Work

- A. Locate and test deadman anchors. Spot flowback pit (20x20) and prepare. Inform operator of work to be done and time frame. Check for location size and equipment placement. Identify any hazards (power lines, H2S, tight equipment fits).
- B. Have pressure gauges on both casing and tubing when necessary (during acid, frac, testing).
- C. Hold Safety Meeting before rigging up to discuss potential hazards and meeting place in case of an emergency.

# 2. Pull Tubing

- A. RU. Blow well down (both backside & tbg) and kill with minimum amount of 1% KCl. NU BOP's
- B. Sting out of packer w/ 2 3/8" tbg string.

# 3. Attempt to fish/mill Model D packer

- A. RIH with workstring & fishing assemble and attempt to retrieve Baker Model D packer @ 2493'. If unsuccessful, attempt to mill over & retrieve (note: insuff rat hole to push down).
- B. After fishing out packer, TIH with workstring and set EZdrill BP @ 2450'. POOH.

### 4. Squeeze PC

## NOTE: Notify OCD prior to squeeze work.

- A. RIH w/ workstring and treating packer & ensure both sets of PC perfs are broken down, and BP holding. Afterwards, set packer @ 2400' and pump 30 sxs; PU and reset @ 2350' and pump remainder of cement squeeze (total of 70 sxs), displacing to 2350'. PU, reverse circulate, and POOH. WOC.
- B. Next day, RIH w/ workstring and collars and bit, and drillout cement to BP. Pressure test to 500#. IF good test, proceed to drillout BP. Cleanout to liner top.
- C. RIH w/ EZ drill BP for 5 1/2" csg and set @ 4600'. Pressure test csg/ liner top/ BP to 500#. POOH.
- D. IF no CBL log acquired, proceed to RIH w/ CBL/GR correlation log in 5 1/2" csg and run from minimum interval, starting from BP. Correlate w/ GR/Induction.

  NOTE: Contact Craig Moody or Scott Jordan for OH correlation log.

#### 5. Perforate Menefee

RU wireline company and perforate the Menefee with 23 select fire shots using a 3 1/8" HSC w/ .37" holes as follows:

MV MEN:

4285', 93', 4301', 06', 14', 45', 49', 52', 62', 78', 81', 84',

4410', 43', 48', 86', 89', 4504', 18', 22', 26', 41', 44'

## 5. Acidize and Frac Menefee

- A. PU workstring & 5 1/2" treating packer & RIH; spot 15% HCL acid across perfs, and ballout as per BJ procedure. MONITOR BACKSIDE PRESSURE DURING JOB FOR ANY INDICATIONS OF LINER TOP FAILURE. POOH.
- B. PU 7 5/8" treating packer on 3 1/2" frac-string, w/ 2 7/8" slimhole tailpipe & cup assembly, RIH. Position tailpipe into top of 5 1/2" liner, and set 7 5/8" packer. Pressure test backside.
- C. Proceed w/ single stage Slickwater frac, as per BJ attached procedure.

Flow-back. Allow to clean-up & get stabilized test rate. NOTE: Length of stabilized rate test dictated by Regulatory. (ie, may need to revise commingle allocations). Four hour stabilized test minimum.

# 6. Drill Out Bridge Plug

A. After POOH w/ 3 1/2" assembly, RIH w/ workstring into 5 1/2" csg & drillout BP. C/O to PBTD using gas or air. POOH.

#### 7. Return Well to Production

Run 2-3/8" production tubing (w/ SN for plunger lift one joint off bottom) and set @ 4670'. Install plunger & put in swab mode; put on production.. Monitor well for rate at least one week.

West Team	 

# WELL LOCATION AND ACREAGE DEDICATION PLAT

- Supersedes Calze - Supersedes Calze - Ottostivo (acad

	All distances must be	from the outer houndaries ()	PERFIVE
EL PASO NATURAL GAS	COMPANY	LUDWICK	(SF-078194) BL 7 (PM)
L 31	30-N	10 <del>-W</del>	SAN JURN MAR 18 PH 1: 13
	טעדא איין	990	westoto farmington, NM
5969 P. C.	& M. V.	AZTEC PICT BLANCO M	URED CLIFFS ESA VERDE 116.57 & 295.98
1. Outline the acreage dedicated	to the subject w		r hachure marks on the plat below.
			ntify the ownership thereof (both as t) working
: 3. If more than one lease of different dated by communitization, unit	rent ownership is ization, force-pooli	dedicated to the well, I	have the interests of all owners been consol
Tes To Hansw	er is "ves!" type o	f consolidation	
If answer is "no." list the own	ners and tract desc	riptions which have ac	tually been consolidated. Use reverse side of
No allowable will be assigned forced-pooling, or otherwise) or sion. NOTE: PLAT REISSUE	to the well until all until a sonstandard  D TO SHOW CORR	interests have been a	onsolidated (by communitization, unitization interests, has been approved by the Commis- DICATION PER NEW SURVEY, 2-11-70
			CERTIFICATION
		; ; ; ;	I hereby certify that the information cortained herein is true and complete to the best of my knowledge and belief.
			Original Signed F. H. W.C
,		i	El Paso Natural Gas Co.
\$	ß		February 15, 1970
<b> </b>	SECTION 31	<b>†</b> }	
		· · · · · · · · · · · · · · · · · · ·	I hereby correct that the west location shown on this plan way, and first the notes of actual surveys made by the under my societies or and that the societies the and correct to the best of exposited with a first or be not be at
			MARCH 30, 1956
MANANANA	KN <del>-</del>	•	C. C. WALKER