

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEYSUBMIT IN TRIPLICATE*
(Other instructions on re-
verse side)Form approved.
Budget Bureau No. 42-R1424.
5. LEASE DESIGNATION AND SERIAL NO.

SF 078910

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER		DEC 10 1976	
2. NAME OF OPERATOR		U. S. GEOLOGICAL SURVEY	
3. ADDRESS OF OPERATOR		P. O. Box 990, Farmington, New Mexico 87401	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface		1850' S, 1480' E	
14. PERMIT NO.	15. ELEVATIONS (Show whether DF, RT, GR, etc.)		
	7207' GL		
7. UNIT AGREEMENT NAME		Lindrith Unit	
8. FARM OR LEASE NAME		Lindrith Unit	
9. WELL NO.		90	
10. FIELD AND POOL, OR WILDCAT		So. Blanco P.C.	
11. SEC., T., R., M., OR BLE. AND SURVEY OR AREA		Sec. 28, T-24-N, R-2-W N.M.P.M.	
12. COUNTY OR PARISH		13. STATE	
Rio Arriba		New Mexico	

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF	<input type="checkbox"/>	PULL OR ALTER CASING	<input type="checkbox"/>
FRACTURE TREAT	<input type="checkbox"/>	MULTIPLE COMPLETE	<input type="checkbox"/>
SHOOT OR ACIDIZE	<input type="checkbox"/>	ABANDON*	<input type="checkbox"/>
REPAIR WELL	<input type="checkbox"/>	CHANGE PLANS	<input type="checkbox"/>
(Other)	<input type="checkbox"/>		

SUBSEQUENT REPORT OF:

WATER SHUT-OFF	<input checked="" type="checkbox"/>	REPAIRING WELL	<input type="checkbox"/>
FRACTURE TREATMENT	<input checked="" type="checkbox"/>	ALTERING CASING	<input type="checkbox"/>
SHOOTING OR ACIDIZING	<input type="checkbox"/>	ABANDONMENT*	<input type="checkbox"/>
(Other)	<input type="checkbox"/>		

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all 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.)*

- 10-19-76 Tested surface casing; held 600#/30 minutes.
- 10-23-76 T.D. 3208'. Ran 108 joints 2 7/8", 6.4#, J-55 production casing, 3198' set at 3208'. Baffle set at 3198'. Cemented with 149 cu. ft. cement. WOC 18 hours. Top of cement at 2000'.
- 11-23-76 Perfed 2 squeeze holes at 2855'. Ran cement retainer and set at 3196'. Mixed 75 sacks and squeezed under retainer. Attempt to circulate cement through squeeze holes at 2855'. WOC.
- 11-24-76 Squeezed off holes at 2855' with 50 sacks cement. WOC.
- 12-06-76 Tested casing to 4000# - ok.
PBTD 3198'. Perfed 3108-15, 3130-44, 3147-59, 3163-70 with 14 shots per zone. Fraced with 51,920#--10/20 sand and 51,920 gallons treated water. Dropped 3 sets of 14 balls each. Flushed with 790 gallons water.

18. I hereby certify that the foregoing is true and correct

SIGNED

D. P. Ducas

TITLE

Drilling Clerk

DATE

December 8, 1976

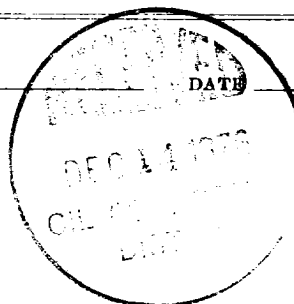
(This space for Federal or State office use)

APPROVED BY

CONDITIONS OF APPROVAL, IF ANY:

TITLE

*See Instructions on Reverse Side



EL PASO NATURAL GAS COMPANY OPEN FLOW TEST DATA

DATE December 29, 1976

Operator <u>El Paso Natural Gas Company</u>		Lease <u>Lindrith Unit #90</u>	
Location <u>SE 28-24N-2W</u>		County <u>Rio Arriba</u>	State <u>New Mexico</u>
Formation <u>Pictured Cliffs</u>		Pool <u>Blanco</u>	
Casing: Diameter <u>2.875</u>	Set At: Feet <u>3208'</u>	Tubing: Diameter <u>No Tubing</u>	Set At: Feet
Pay Zone: From <u>3108</u>	To <u>3170</u>	Total Depth: <u>PBTD</u> <u>3208' 5198</u>	Shut In <u>12-22-76</u>
Stimulation Method <u>Sandwater Frac</u>		Flow Through Casing	Flow Through Tubing

Choke Size, Inches		Choke Constant: C			
Shut-In Pressure, Casing, PSIG <u>868</u>	+ 12 = PSIA <u>880</u>	Days Shut-In <u>7</u>	Shut-In Pressure, Tubing PSIG	+ 12 = PSIA	
Flowing Pressure: P PSIG	+ 12 = PSIA		Working Pressure: P _w PSIG	+ 12 = PSIA	
Temperature: T = °F Ft =	n =		F _{pv} (From Tables)	Gravity F _g =	

$$\text{CHOKE VOLUME} = Q = C \times P_t \times F_t \times F_g \times F_{pv}$$

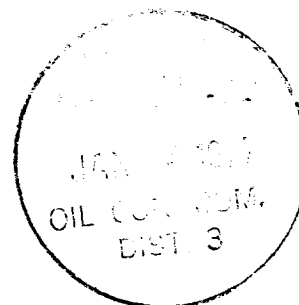
Q =

= _____ MCF/D

$$\text{OPEN FLOW} = Aof = Q \left(\frac{P_c^2}{P_c^2 - P_w^2} \right)^n$$

$$Aof = \left(\frac{\quad}{\quad} \right)^n =$$

Aof = _____ MCF/D



TESTED BY Roger Hardy

WITNESSED BY _____

Well Test Engineer