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LOCATE WELL CORRECTLY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company El Paso Natural Gas Company Address Box 990, Farmington, New Mexico
Lessor or Tract Hancock "B" Field Aztec Pictured Cliffs State New Mexico
Well No. 4 Sec. 22 T. 28N R. 9W Meridian N.M.P.M. County San Juan
Location 972 ft. XXX of N. Line and 1850 ft. E. of W. Line of Sec. 22 Elevation 6041
(Derrick floor relative to sea level)

The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records.

Signed W. H. SmithDate October 2, 1961 Title Petroleum Engineer

The summary on this page is for the condition of the well at above date.

Commenced drilling 8-5-, 19 61 Finished drilling 8-11-, 19 61

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 2299 to 2353 No. 4, from _____ to _____
No. 2, from _____ to _____ No. 5, from _____ to _____
No. 3, from _____ to _____ No. 6, from _____ to _____

IMPORTANT WATER SANDS

No. 1, from _____ to _____ No. 3, from _____ to _____
No. 2, from _____ to _____ No. 4, from _____ to _____

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated		Purpose
							From—	To—	
8 5/8"	24	8-55	HANCO	2359	Baker				Surface
2 3/8"	6.4	8 rd	J-55	2369	Baker				Prod. casing

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
8 5/8"	107	270	circulated		
2 7/8"	2380	80	single stage		

PLUGS AND ADAPTERS

Heaving plug—Material _____ Length _____ Depth set _____
Adapters—Material _____ Size _____

SHOOTING RECORD

Size	Shell used	Explosive used	Quantity	Date	Depth shot	Depth cleaned out
2306-14; 2328-36;		Frac Pictured Cliffs w/29,660 gal water, 25,000# sand. Flush w/680 gal water. BDP 1900#, max pr 2000#, tr pr 2000-1800#. I.R. 23.3 BPM.				

TOOLS USED

Rotary tools were used from 0 feet to 2387 feet, and from _____ feet to _____ feet
Cable tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet

DATES

-9-5-, 19 61 Put to producing _____, 19 _____

The production for the first 24 hours was _____ barrels of fluid of which _____% was oil; _____% emulsion; _____% water; and _____% sediment. Gravity, °Bé. _____

If gas well, cu. ft. per 24 hours 1735 Gallons gasoline per 1,000 cu. ft. of gas _____Rock pressure, lbs. per sq. in. 703 (csg.) A.O.F. 1891 MCF/D

EMPLOYEES

_____, Driller _____, Driller
_____, Driller _____, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	1219	1219	Tan to gry cr-grn ss interbedded w/gry sh.
1219	1385	166	Ojo Alamo ss. White cr-grn s.
1385	2057	672	Kirtland form. Gry sh interbedded w/tight gry fine-grn ss.
2057	2299	242	Fruitland form. Gry carb sh, scattered coals, coals and gry, tight, fine-grn ss.
2299	2353	54	Pictured Cliffs forms. Gry, fine-grn, tight, varicolored soft ss.
2355	2387	34	Lewis form. Gry, fine-grn, dense sil ss.

FOR MR. E.

16-43094-2 U. S. GOVERNMENT PRINTING OFFICE

[illegible][illegible][illegible]

THE ORIGINAL AMERICAN RECORD

[illegible]
$$Z_0^{\text{eff}} = \frac{Z_0}{\sqrt{1 - \beta^2}}, \quad Z_L^{\text{eff}} = \frac{Z_L}{\sqrt{1 - \beta^2}}, \quad Z_T^{\text{eff}} = \frac{Z_T}{\sqrt{1 - \beta^2}}$$

(1990) 10. 93-94

[illegible][illegible]

1. Вопросы, связанные с деятельностью органов государственной власти:

$\frac{1}{2} \frac{d}{dt} \left(\frac{1}{\rho} \right) = - \frac{1}{2} \frac{1}{\rho^2} \frac{d\rho}{dt}$

[illegible]

CONFIDENTIAL - SECURITY INFORMATION

A blank sheet of graph paper with a grid pattern. The grid consists of small squares formed by thin lines. There are no margins or other markings on the page.

GEOLOGICAL PROBLEMS

DEPARTMENT OF THE INTERIOR
UNITED STATES

ENTERED BY SPECIAL AGENT IN CHARGE

100772 26173 26174 26175 26176 26177 26178 26179 26180 26181 26182 26183 26184 26185 26186 26187 26188 26189 26190 26191 26192 26193 26194 26195 26196 26197 26198 26199 26200 26201 26202 26203 26204 26205 26206 26207 26208 26209 26210 26211 26212 26213 26214 26215 26216 26217 26218 26219 26220 26221 26222 26223 26224 26225 26226 26227 26228 26229 26230 26231 26232 26233 26234 26235 26236 26237 26238 26239 26240 26241 26242 26243 26244 26245 26246 26247 26248 26249 26250 26251 26252 26253 26254 26255 26256 26257 26258 26259 26260 26261 26262 26263 26264 26265 26266 26267 26268 26269 26270 26271 26272 26273 26274 26275 26276 26277 26278 26279 26280 26281 26282 26283 26284 26285 26286 26287 26288 26289 26290 26291 26292 26293 26294 26295 26296 26297 26298 26299 26300 26301 26302 26303 26304 26305 26306 26307 26308 26309 26310 26311 26312 26313 26314 26315 26316 26317 26318 26319 26320 26321 26322 26323 26324 26325 26326 26327 26328 26329 26330 26331 26332 26333 26334 26335 26336 26337 26338 26339 26340 26341 26342 26343 26344 26345 26346 26347 26348 26349 26350 26351 26352 26353 26354 26355 26356 26357 26358 26359 26360 26361 26362 26363 26364 26365 26366 26367 26368 26369 26370 26371 26372 26373 26374 26375 26376 26377 26378 26379 26380 26381 26382 26383 26384 26385 26386 26387 26388 26389 26390 26391 26392 26393 26394 26395 26396 26397 26398 26399 26400 26401 26402 26403 26404 26405 26406 26407 26408 26409 26410 26411 26412 26413 26414 26415 26416 26417 26418 26419 26420 26421 26422 26423 26424 26425 26426 26427 26428 26429 26430 26431 26432 26433 26434 26435 26436 26437 26438 26439 26440 26441 26442 26443 26444 26445 26446 26447 26448 26449 26450 26451 26452 26453 26454 26455 26456 26457 26458 26459 26460 26461 26462 26463 26464 26465 26466 26467 26468 26469 26470 26471 26472 26473 26474 26475 26476 26477 26478 26479 26480 26481 26482 26483 26484 26485 26486 26487 26488 26489 26490 26491 26492 26493 26494 26495 26496 26497 26498 26499 26500 26501 26502 26503 26504 26505 26506 26507 26508 26509 26510 26511 26512 26513 26514 26515 26516 26517 26518 26519 26520 26521 26522 26523 26524 26525 26526 26527 26528 26529 26530 26531 26532 26533 26534 26535 26536 26537 26538 26539 26540 26541 26542 26543 26544 26545 26546 26547 26548 26549 26550 26551 26552 26553 26554 26555 26556 26557 26558 26559 26560 26561 26562 26563 26564 26565 26566 26567 26568 26569 26570 26571 26572 26573 26574 26575 26576 26577 26578 26579 26580 26581 26582 26583 26584 26585 26586 26587 26588 26589 26590 26591 26592 26593 26594 26595 26596 26597 26598 26599 26600 26601 26602 26603 26604 26605 26606 26607 26608 26609 26610 26611 26612 26613 26614 26615 26616 26617 26618 26619 26620 26621 26622 26623 26624 26625 26626 26627 26628 26629 26630 26631 26632 26633 26634 26635 26636 26637 26638 26639 26640 26641 26642 26643 26644 26645 26646 26647 26648 26649 26650 26651 26652 26653 26654 26655 26656 26657 26658 26659 26660 26661 26662 26663 26664 26665 26666 26667 26668 26669 26670 26671 26672 26673 26674 26675 26676 26677 26678 26679 26680 26681 26682 26683 26684 26685 26686 26687 26688 26689 26690 26691 26692 26693 26694 26695 26696 26697 26698 26699 26700 26701 26702 26703 26704 26705 26706 26707 26708 26709 26710 26711 26712 26713 26714 26715 26716 26717 26718 26719 26720 26721 26722 26723 26724 26725 26726 26727 26728 26729 26730 26731 26732 26733 26734 26735 26736 26737 26738 26739 26740 26741 26742 26743 26744 26745 26746 26747 26748 26749 26750 26751 26752 26753 26754 26755 26756 26757 26758 26759 26760 26761 26762 26763 26764 26765 26766 26767 26768 26769 26770 26771 26772 26773 26774 26775 26776 26777 26778 26779 26780 26781 26782 26783 26784 26785 26786 26787 26788 26789 26790 26791 26792 26793 26794 26795 26796 26797 26798 26799 26800 26801 26802 26803 26804 26805 26806 26807 26808 26809 26810 26811 26812 26813 26814 26815 26816 26817 26818 26819 26820 26821 26822 26823 26824 26825 26826 26827 26828 26829 26830 26831 26832 26833 26834 26835 26836 26837 26838 26839 26840 26841 26842 26843 26844 26845 26846 26847 26848 26849 26850 26851 26852 26853 2

UNITED STATES DEPARTMENT OF JUSTICE

1979: 1980 2001 2002
1981 1982 1983 1984