

U. S. LAND OFFICE S. F.  
SERIAL NUMBER 047039B  
LEASE OR PERMIT TO PROSPECT

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

# LOG OF OIL OR GAS WELL

LOCATE WELL CORRECTLY

Company **Sunset International Petr. Corp.** Address **444 - 17th Street - Denver, Colorado**  
 Lessor or Tract **Kutz Federal** Field **Basin Dakota** State **New Mexico**  
 Well No. **10-18** Sec. **18** T. **28N** R. **10W** Meridian **NMPM** County **San Juan**  
 Location **1850** ft. **3** of **N** Line and **1850** ft. **4** of **E** Line of **Sec. 18** Elevation **5866**  
(Depth from surface)

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 Thomas J. Papp/ra Thomas J. Papp

Date January 9, 1961 Title Engineer

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

## OIL OR GAS SANDS OR ZONES

No. 1, from 6351 to 6350  
 No. 2, from 6351 to 6350  
 No. 3, from 6351 to 6350

## IMPORTANT WATER SANDS

No. 1, from [redacted] to [redacted]  
No. 2, from [redacted] to [redacted]  
No. 3, from [redacted] to [redacted]  
No. 4, from [redacted] to [redacted]

**GASING-REGORD** 2019

| Size casing | Weight per foot | Threads per inch | Make | Amount | Kind of shoe | Cut and pulled from | Separated | Purpose    |
|-------------|-----------------|------------------|------|--------|--------------|---------------------|-----------|------------|
|             |                 |                  |      |        |              |                     | From—     | To—        |
| 8 3/8       | 9.5             | 8                | smls | 190    | Box Pat      |                     |           |            |
| 24 1/2      | 11.6            | 8                | smls | 6359   | Guide        |                     | 6354      | 6530 Prod. |
| 2 3/8       | 4.7             | 8                | smls | 6495   | Open End     |                     |           | Prod.      |

## MUDDING AND CEMENTING RECORD

| Size casing | Where set | Number sacks of cement | Method used             | Mud gravity | Amount of mud used |
|-------------|-----------|------------------------|-------------------------|-------------|--------------------|
| 8 5/8       | 215 KB    | 150 sm                 | Disp                    |             |                    |
| 4 1/2       | 6559      | 200 sx                 | Disp around shoe        |             |                    |
|             |           | 150 sx                 | Disp thru stage tool at |             | 2056               |

## 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 |
|------|------------|----------------|----------|------|------------|-------------------|
|      |            |                |          |      |            |                   |
|      |            |                |          |      |            |                   |
|      |            |                |          |      |            |                   |

## TOOLS USED

Rotary tools were used from 215 feet to TD feet, and from \_\_\_\_\_ feet to \_\_\_\_\_ feet.  
Cable tools were used from \_\_\_\_\_ feet to 215 feet, and from \_\_\_\_\_ feet to \_\_\_\_\_ feet.

|                                                 |                                                  |
|-------------------------------------------------|--------------------------------------------------|
| ....., 19.....                                  | 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 \_\_\_\_\_ Gallons gasoline per 1,000 cu. ft. of gas \_\_\_\_\_  
 Rock pressure, lbs. per sq. in. \_\_\_\_\_

| 2039 EMPLOYEES        |                         |
|-----------------------|-------------------------|
| Robert L. Hutzenbilla | Glenn Sanford           |
| Clair Wilson          | Lee Naylor, Tool Pusher |

## FORMATION RECORD

| FROM— | TO—  | TOTAL FEET | FORMATION      |
|-------|------|------------|----------------|
|       | 1930 |            | Picture Cliffs |
|       | 2935 |            | La Ventada     |
|       | 3524 |            | Cliff House    |
|       | 3628 |            | Mesquite       |
|       | 4273 |            | Pt. Lookout    |
|       | 4467 |            | Mancos         |
|       | 5486 |            | Niobrara       |
|       | 5632 |            | Gallup         |
|       | 5900 |            | Tocito         |
|       | 6251 |            | Greenhorn      |
|       | 6316 |            | Graneros       |
|       | 6351 |            | Dakota         |
|       | 6567 |            | TD             |

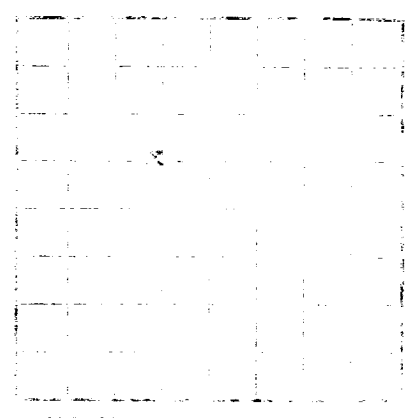
**[OVER]**

FOKIMATION RECORD--Continued

18-48094-4

LOG OF OIL OR GAS WELL

DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY



11-28-60 Spudded w/12" cable tool. Drilled to 215' GL. Ran and set 190' 8 5/8" surface cas. Cmt w/155' ex. Csg to surface. WORK.  
12-7-60 RURT and under surface with 7 7/8" bit using gal-wtr mud.  
12-20-60 TD 6567. Ran ES-Ind log in open hole. Ran 4 1/2" OD, 11.64 emls J-55 csg, landed at 6559' KB. Stage tool at 2066' KB. Cmt 1st stage w/150 ex Diamix thru tool. Cmt tops by temp survey at 6309 and 1500  
12-22-60 MICR. Ran G-N log. Part and trac in 3 stages using gal-wtr and sand at 14" gal as follows: 6504-14, 6518-22, and 6528-32. Ran w/13,000# sand. Set drilling bridge plug at 6508. Part 6432-90 and 6500' sand. Set sand. Get drip bridge plug at 6425. Part 6354-66, 6375-6452. Ran w/50,000# sand.  
12-29-60 Clean-out to 6347' FBTD. Landed tubing at 6493 and blowing well to clean.  
12-28-60 Set for 7 day building BOP and IP test.  
12-29-60 January 6, 1961  
Title Engineer

It is of the greatest importance to have a complete history of the well. Please state in detail the dates of redrilling, together with the reasons for the work and its results. If there were any changes made in the casing, state fully, and if any casing was "side-tracked" or left in the well, give size and location. If the well has been dynamited, give date, size, position, and number of shots. If plugs or bridges were put in to test for water, state kind of material used, position, and results of pumping or bailing.

| FORMATION RECORD |      |            |               |
|------------------|------|------------|---------------|
| FROM             | TO   | TOTAL FEET | FORMATION     |
| 6567             | 6559 | 8          | TD            |
| 6559             | 6557 | 2          | Dakota        |
| 6557             | 6556 | 1          | Granular      |
| 6556             | 6555 | 1          | Green horn    |
| 6555             | 6554 | 1          | Loco          |
| 6554             | 6553 | 1          | Gallup        |
| 6553             | 6552 | 1          | Wichita       |
| 6552             | 6551 | 1          | Manitou       |
| 6551             | 6550 | 1          | Fl. Lookout   |
| 6550             | 6549 | 1          | Menefee       |
| 6549             | 6548 | 1          | Chin House    |
| 6548             | 6547 | 1          | de Vesta      |
| 6547             | 6546 | 1          | Picure Cliffs |

| FORMATION RECORD |      |            |                         |
|------------------|------|------------|-------------------------|
| FROM             | TO   | TOTAL FEET | FORMATION               |
| 6546             | 6545 | 1          | Lee Taylor, Tool Pusher |
| 6545             | 6544 | 1          | Clear Gaskets           |
| 6544             | 6543 | 1          | Diller                  |

| FORMATION RECORD |      |            |                                    |
|------------------|------|------------|------------------------------------|
| FROM             | TO   | TOTAL FEET | FORMATION                          |
| 6543             | 6542 | 1          | 2032 EMPLOYEES                     |
| 6542             | 6541 | 1          | LOG 5102                           |
| 6541             | 6540 | 1          | emulsion: % water; and % sediment. |
| 6540             | 6539 | 1          | If gas were out, ft. per 24 hours  |
| 6539             | 6538 | 1          | Back pressure, lbs. per sq. in.    |
| 6538             | 6537 | 1          | Oil to production                  |
| 6537             | 6536 | 1          | Rotary tools were used from        |
| 6536             | 6535 | 1          | feet to                            |
| 6535             | 6534 | 1          | feet and from                      |
| 6534             | 6533 | 1          | feet to                            |
| 6533             | 6532 | 1          | feet and from                      |
| 6532             | 6531 | 1          | feet to                            |
| 6531             | 6530 | 1          | feet and from                      |
| 6530             | 6529 | 1          | feet to                            |
| 6529             | 6528 | 1          | feet and from                      |
| 6528             | 6527 | 1          | feet to                            |
| 6527             | 6526 | 1          | feet and from                      |
| 6526             | 6525 | 1          | feet to                            |
| 6525             | 6524 | 1          | feet and from                      |
| 6524             | 6523 | 1          | feet to                            |
| 6523             | 6522 | 1          | feet and from                      |
| 6522             | 6521 | 1          | feet to                            |
| 6521             | 6520 | 1          | feet and from                      |
| 6520             | 6519 | 1          | feet to                            |
| 6519             | 6518 | 1          | feet and from                      |
| 6518             | 6517 | 1          | feet to                            |
| 6517             | 6516 | 1          | feet and from                      |
| 6516             | 6515 | 1          | feet to                            |
| 6515             | 6514 | 1          | feet and from                      |
| 6514             | 6513 | 1          | feet to                            |
| 6513             | 6512 | 1          | feet and from                      |
| 6512             | 6511 | 1          | feet to                            |
| 6511             | 6510 | 1          | feet and from                      |
| 6510             | 6509 | 1          | feet to                            |
| 6509             | 6508 | 1          | feet and from                      |
| 6508             | 6507 | 1          | feet to                            |
| 6507             | 6506 | 1          | feet and from                      |
| 6506             | 6505 | 1          | feet to                            |
| 6505             | 6504 | 1          | feet and from                      |
| 6504             | 6503 | 1          | feet to                            |
| 6503             | 6502 | 1          | feet and from                      |
| 6502             | 6501 | 1          | feet to                            |
| 6501             | 6500 | 1          | feet and from                      |
| 6500             | 6499 | 1          | feet to                            |
| 6499             | 6498 | 1          | feet and from                      |
| 6498             | 6497 | 1          | feet to                            |
| 6497             | 6496 | 1          | feet and from                      |
| 6496             | 6495 | 1          | feet to                            |
| 6495             | 6494 | 1          | feet and from                      |
| 6494             | 6493 | 1          | feet to                            |
| 6493             | 6492 | 1          | feet and from                      |
| 6492             | 6491 | 1          | feet to                            |
| 6491             | 6490 | 1          | feet and from                      |
| 6490             | 6489 | 1          | feet to                            |
| 6489             | 6488 | 1          | feet and from                      |
| 6488             | 6487 | 1          | feet to                            |
| 6487             | 6486 | 1          | feet and from                      |
| 6486             | 6485 | 1          | feet to                            |
| 6485             | 6484 | 1          | feet and from                      |
| 6484             | 6483 | 1          | feet to                            |
| 6483             | 6482 | 1          | feet and from                      |
| 6482             | 6481 | 1          | feet to                            |
| 6481             | 6480 | 1          | feet and from                      |
| 6480             | 6479 | 1          | feet to                            |
| 6479             | 6478 | 1          | feet and from                      |
| 6478             | 6477 | 1          | feet to                            |
| 6477             | 6476 | 1          | feet and from                      |
| 6476             | 6475 | 1          | feet to                            |
| 6475             | 6474 | 1          | feet and from                      |
| 6474             | 6473 | 1          | feet to                            |
| 6473             | 6472 | 1          | feet and from                      |
| 6472             | 6471 | 1          | feet to                            |
| 6471             | 6470 | 1          | feet and from                      |
| 6470             | 6469 | 1          | feet to                            |
| 6469             | 6468 | 1          | feet and from                      |
| 6468             | 6467 | 1          | feet to                            |
| 6467             | 6466 | 1          | feet and from                      |
| 6466             | 6465 | 1          | feet to                            |
| 6465             | 6464 | 1          | feet and from                      |
| 6464             | 6463 | 1          | feet to                            |
| 6463             | 6462 | 1          | feet and from                      |
| 6462             | 6461 | 1          | feet to                            |
| 6461             | 6460 | 1          | feet and from                      |
| 6460             | 6459 | 1          | feet to                            |
| 6459             | 6458 | 1          | feet and from                      |
| 6458             | 6457 | 1          | feet to                            |
| 6457             | 6456 | 1          | feet and from                      |
| 6456             | 6455 | 1          | feet to                            |
| 6455             | 6454 | 1          | feet and from                      |
| 6454             | 6453 | 1          | feet to                            |
| 6453             | 6452 | 1          | feet and from                      |
| 6452             | 6451 | 1          | feet to                            |
| 6451             | 6450 | 1          | feet and from                      |
| 6450             | 6449 | 1          | feet to                            |
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| 6448             | 6447 | 1          | feet to                            |
| 6447             | 6446 | 1          | feet and from                      |
| 6446             | 6445 | 1          | feet to                            |
| 6445             | 6444 | 1          | feet and from                      |
| 6444             | 6443 | 1          | feet to                            |
| 6443             | 6442 | 1          | feet and from                      |
| 6442             | 6441 | 1          | feet to                            |
| 6441             | 6440 | 1          | feet and from                      |
| 6440             | 6439 | 1          | feet to                            |
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| 6410             | 6409 | 1          | feet to                            |
| 6409             | 6408 | 1          | feet and from                      |
| 6408             | 6407 | 1          | feet to                            |
| 6407             | 6406 | 1          | feet and from                      |
| 6406             | 6405 | 1          | feet to                            |
| 6405             | 6404 | 1          | feet and from                      |
| 6404             | 6403 | 1          | feet to                            |
| 6403             | 6402 | 1          | feet and from                      |
| 6402             | 6401 | 1          | feet to                            |
| 6401             | 6400 | 1          | feet and from                      |
| 6400             | 6399 | 1          | feet to                            |
| 6399             | 6398 | 1          | feet and from                      |
| 6398             | 6397 | 1          | feet to                            |
| 6397             | 6396 | 1          | feet and from                      |
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| 6388             | 6387 | 1          | feet to                            |
| 6387             | 6386 | 1          | feet and from                      |
| 6386             | 6385 | 1          | feet to                            |
| 6385             | 6384 | 1          | feet and from                      |
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| 6382             | 6381 | 1          | feet to                            |
| 6381             | 6380 | 1          | feet and from                      |
| 6380             | 6379 | 1          | feet to                            |
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| 6368             | 6367 | 1          | feet to                            |
| 6367             | 6366 | 1          | feet and from                      |
| 6366             | 6365 | 1          | feet to                            |
| 6365             | 6364 | 1          | feet and from                      |
| 6364             | 6363 | 1          | feet to                            |
| 6363             | 6362 | 1          | feet and from                      |
| 6362             | 6361 | 1          | feet to                            |
| 6361             | 6360 | 1          | feet and from                      |
| 6360             | 6359 | 1          | feet to                            |
| 6359             | 6358 | 1          | feet and from                      |
| 6358             | 6357 | 1          | feet to                            |
| 6357             | 6356 | 1          | feet and from                      |
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| 6355             | 6354 | 1          | feet and from                      |
| 6354             | 6353 | 1          | feet to                            |
| 6353             | 6352 | 1          | feet and from                      |
| 6352             | 6351 | 1          | feet to                            |
| 6351             | 6350 | 1          | feet and from                      |
| 6350             | 6349 | 1          | feet to                            |
| 6349             | 6348 | 1          | feet and from                      |
| 6348             | 6347 | 1          | feet to                            |
| 6347             | 6346 | 1          | feet and from                      |
| 6346             | 6345 | 1          | feet to                            |
| 6345             | 6344 | 1          | feet and from                      |
| 6344             | 6343 | 1          | feet to                            |
| 6343             | 6342 | 1          | feet and from                      |
| 6342             | 6341 | 1          | feet to                            |
| 6341             | 6340 | 1          | feet and from                      |
| 6340             | 6339 | 1          | feet to                            |
| 6339             | 6338 | 1          | feet and from                      |
| 6338             | 6337 | 1          | feet to                            |
| 6337             | 6336 | 1          | feet and from                      |
| 6336             | 6335 | 1          | feet to                            |
| 6335             | 6334 | 1          | feet and from                      |
| 6334             | 6333 | 1          | feet to                            |
| 6333             | 6332 | 1          | feet and from                      |
| 6332             | 6331 | 1          | feet to                            |
| 6331             | 6330 | 1          | feet and from                      |
| 6330             | 6329 | 1          | feet to                            |
| 6329             | 6328 | 1          | feet and from                      |
| 6328             | 6327 | 1          | feet to                            |
| 6327             | 6326 | 1          | feet and from                      |
| 6326             | 6325 | 1          | feet to                            |
| 6325             | 6324 | 1          | feet and from                      |
| 6324             | 6323 | 1          | feet to                            |
| 6323             | 6322 | 1          | feet and from                      |
| 6322             | 6321 | 1          | feet to                            |
| 6321             | 6320 | 1          | feet and from                      |
| 6320             | 6319 | 1          | feet to                            |
| 6319             | 6318 | 1          | feet and from                      |
| 6318             | 6317 | 1          | feet to                            |
| 6317             | 6316 | 1          | feet and from                      |
| 6316             | 6315 | 1          | feet to                            |
| 6315             | 6314 | 1          | feet and from                      |
| 6314             | 6313 | 1          | feet to                            |
| 6313             | 6312 | 1          | feet and from                      |
| 6312             | 6311 | 1          | feet to                            |
| 6311             | 6310 | 1          | feet and from                      |
| 6310             | 6309 | 1          | feet to                            |
| 6309             | 6308 | 1          | feet and from                      |
| 6308             | 6307 | 1          | feet to                            |
| 6307             | 6306 | 1          | feet and from                      |
| 6306             | 6305 | 1          | feet to                            |
| 6305             | 6304 | 1          | feet and from                      |
| 6304             | 6303 | 1          | feet to                            |
| 6303             | 6302 | 1          | feet and from                      |
| 6302             | 6301 | 1          | feet to                            |
| 6301             | 6300 | 1          | feet and from                      |
| 6300             | 6299 | 1          | feet to                            |
| 6299             | 6298 | 1          | feet and from                      |
| 6298             | 6297 | 1          | feet to                            |
| 6297             | 6296 | 1          | feet and from                      |
| 6296             | 6295 | 1          | feet to                            |
| 6295             | 6294 | 1          | feet and from                      |
| 6294             | 6293 | 1          | feet to                            |
| 6293             | 6292 | 1          | feet and from                      |
| 6292             | 6291 | 1          | feet to                            |
| 6291             | 6290 | 1          | feet and from                      |
| 6290             | 6289 | 1          | feet to                            |
| 6289             | 6288 | 1          | feet and from                      |
| 6288             | 6287 | 1          | feet to                            |
| 6287             | 6286 | 1          | feet and from                      |
| 6286             | 6285 | 1          | feet to                            |
| 6285             | 6284 | 1          | feet and from                      |
| 6284             | 6283 | 1          | feet to                            |
| 6283             | 6282 | 1          | feet and from                      |
| 628              |      |            |                                    |