

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

LOCATE WELL CORRECTLY

Company Sinclair Oil & Gas Company Address 601 Denver Club Bldg., Denver, Colo
Lessor or Tract Federal 3 Sandoval Field Wildcat State New Mexico
Well No. 1 Sec. 3 T. 21N R. 5W Meridian NMPM County Sandoval
Location 660 ft. N of N Line and 1980 ft. W of E Line of Section 3 Elevation 7123 GL
(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 Paul H. Smith

Date January 9, 1958 Title Asst. Div. Supt. - Prod. Dept.

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

Commenced drilling November 23, 1957 Finished drilling December 30, 1957

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from DRY HOLE to _____ 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—	
<u>13-5/8</u>	<u>48</u>	<u>8</u>	<u>H-40</u>	<u>290</u>					
HISTORY OF OIL OR GAS WELL									

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
<u>13-3/8</u>	<u>291</u>	<u>340</u>	<u>MAGGEEBAR</u>		

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 0 feet to 6115-70 feet, and from _____ feet to _____ feet
Cable tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet

DATES

_____, 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. _____

EMPLOYEES

C. W. Mullins _____, Driller D. D. Van Sickle _____, Driller
J. J. Selmidt _____, Driller Empire States Drilling Co _____, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
<u>1420</u>	<u>1632</u>		<u>Shale with some coal stringers</u>
<u>1632</u>	<u>1760</u>		<u>Sandstone and sandy shale</u>
<u>1760</u>	<u>2437</u>		<u>Sand & shale with minor coal stringers</u>
<u>2437</u>	<u>3830</u>		<u>Sandstone</u>
<u>3830</u>	<u>4090</u>		<u>Shale with sandstone zones near bottom</u>
<u>4090</u>	<u>4889</u>		<u>Shaly sandstone</u>
<u>4889</u>	<u>4971</u>		<u>Sand with minute amount of shale</u>
<u>4971</u>	<u>5459</u>		<u>Sandy shale</u>
<u>5459</u>	<u>5796</u>		<u>Highly calc shale with trace limestone</u>
<u>5796</u>	<u>6030</u>		<u>Sandstone with shale breaks</u>
<u>6030</u>	<u>6240</u>		<u>Shale</u>

WELL SURVEYS: Microlog 6303 Schlumberger; Electric Log 6306 Schlumberger
GEOLOGICAL SURVEYS

<u>Alamo</u>	<u>1123</u>	<u>45192</u>	<u>Green Horn</u>	<u>5796</u>	<u>4519</u>
<u>Kirtland</u>	<u>1420</u>	<u>44895</u>	<u>Palencia</u>	<u>6030</u>	<u>4285</u>
<u>Pictured Cliffs</u>	<u>1632</u>	<u>44683</u>	<u>Morrison</u>	<u>6240</u>	<u>475</u>
<u>Lewis</u>	<u>1760</u>	<u>44555</u>			
<u>Mesa Verde</u>	<u>2437</u>	<u>43878</u>			
<u>Point Lookout</u>	<u>3830</u>	<u>42485</u>			
<u>Mancos</u>	<u>4090</u>	<u>42265</u>			
<u>Hospah</u>	<u>4889</u>	<u>41426</u>			
<u>Gallup</u>	<u>4971</u>	<u>41344</u>			
<u>Sinclair</u>	<u>5459</u>	<u>4856</u>			

COMPLETION RECORD: Having drilled to a total depth of 6115 feet and having found no oil or gas in commercial quantities, we have PLUGGED AND ABANDONED this well as follows: Spot 52 at 6150-6000; 5450-5300; 5050-4900; 4800-3950; 2100-1950; 1750-1600; 1200-1050; spot 54 at 330-230; 15 ft. on top; regulation pipe cemented in place 12-30-57

SEE ATTACHED SHEET FOR LOG AND FORM 1570 COMMENTS

CORES & DRILL STEM TESTS

FEDERAL 3 SANDOVAL #1
Sandoval County, New Mexico

- 12-5-57 Cored 3776-3811; Rec 33'; 19' shale, gray, carbonaceous; 1½' coal, 3' sandstone, very fine grained, tight, clay-filled; 1½' coal; 1½' shale, gray; 2½' sandstone, very fine grained, hard, tight, clay-filled; 1½' coal; 2½' sandstone, very fine grained, shaley, hard & tight.
- 12-7-57 Cored 3834-3842; Rec 7'; ½' sandstone with show oil, fluorescence, stain; 3½' sandstone, gray, argillaceous, fine grained, no show, no porosity and permeability 3' sandstone, fine grained, grey, argillaceous with oil stain.
- 12-7-57 DST 3832-42' open 1 hr, very weak blow, died in 25". Rec 33' mud. FP-50#, 30" SIP 1650#
- 12-13-57 Cored 5050-5101; Rec 51'; 7' sandstone, gray, fine to coarse grain, poorly sorted, calcareous, sub-angular, some shale inclusions; 2' sandstone as above with inclusions of black carbonaceous material; 3' sandstone, gray, fine grain, poorly sorted, friable, porosity; 1' shale, silty, slightly sandy, carbonaceous; 10' sandstone, gray, fine grain, shaley, poorly sorted, hard and tight; 2' shale, black, carbonaceous, silty to sandy; 1' sandstone, dark gray, fine grain, poorly sorted, dirty; 5' sandstone, light gray, fine grain, fair porosity, trace permeability, fair to good oil stain, odor and fluorescence; 1' sandstone, gray, fine grain, poorly sorted, calcareous with some shale inclusions; 8' sandstone, gray, fine grain, poorly sorted, fair porosity, fair oil stain, odor and fluorescence, spotty bleeding oil and gas; 1' sandstone, dark gray, fine grained, poorly sorted, hard, tight and shaley; 10' sandstone, gray, fine grained, some staining, odor and fluorescence, poor to fair porosity, spotty bleeding oil and gas.
- 12-14-57 DST 5076-5101', 5/8" bottom choke open 1 hr, air immediately with very weak blow, died in 8"; rec 20' drilling mud. FP-35-35#, 40" SIP 50#.
- 12-16-57 Cored 5101-5124; Rec 23'; 7' sand, fine grained, poorly sorted, shaley, hard, tight, poor to fair stain, odor and fluorescence; 8' sandstone, very fine grained, shale, hard, tight, no show; 3' vertical fractures, no show.
- 12-16-57 Cored 5124-5174; Rec 50' black sandy shale.
- 12-22-57 Cored 5930-5958½'; rec 28½'; 9' sandstone, re-worked with shale, very silty, hard and tight; 6' shale, re-worked with sandstone, black, dense, non-calcareous; 2' shale, sandy, black, dense, hard, 11½' shale, silty, hard with some sand streaks.

