SUPPLEMENT TO LOG SUBMITTED JANUARY 29, 1958

Budget Bureau No. 42-R355.4.
Approval expires 12-31-60.

Form 9-330

U. S. LAND OFFICE Jicarilla Tribal
SERIAL NUMBER Jicarilla "C"
LEASE OR PERMIT TO PROSPECT Contract #34 Tract #79

#17
X

LOCATE WELL CORRECTLY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company Skelly Oil Company Address Drawer 510, Farmington, New Mexico
Lessor or Tract Jicarilla "C" Field Otero-Chacra & South Blanco- PC State New Mexico
Well No. 17 Sec. 28 T. 25N R. 5W Meridian NMPM County Rio Arriba
Location 1190 ft. {N/S} of N Line and 1190 ft. {E/W} of E Line of Section 28 Elevation 6607 (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 (Signed) P. B. Cosper
Title District Superintendent
Date September 9, 1960

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

Commenced drilling November 21, 1957 Finished drilling December 15, 1957

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 3500 to 3530 No. 4, from ____ to ____
No. 2, from 3590 to 3614 No. 5, from ____ to ____
No. 3, from 2631 to 2668 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 From—	Perforated To—	Purpose
See Original									

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
See Original Log					

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 ____ feet to ____ feet, and from ____ feet to ____ feet
Cable tools were used from ____ feet to ____ feet, and from ____ feet to ____ feet

DATES

____, 19____ Put to producing Shut in for pipe line connection September 7, 1960

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

____, Driller ____, Driller
____, Driller ____, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
See Original Log			

16—43094-4

FOLD | MARK

FORMATION RECORD—Continued

FROM—	TO—	TOTAL FEET		FORMATION

HISTORY OF OIL OR GAS WELL

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

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 "sidetracked" or left in the well, give its 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.

Squeezed perforations 4690-4718', 4729-4740', 4744-4768' and 4769-4772' with 100 sacks of cement. Squeezed 68 sacks into formation, left 12 sacks in 5½" OD casing and circulated out 20 sacks. Squeeze pressure 4000#. PBTD 4590'.
Perforated 5½" OD casing with 4 Welex Super Jets per foot as follows: 3613'-3614' w/4 holes, 3590-3613' w/92 holes, 3500-3530' w/120 holes.
Sand Frac Job No. 3 Casing perforations 3590-3614' and 3500-3530. Treated Chacra formation down 5½" OD casing with 40,000# of sand and 40,000 gallons water. Breakdown pressure 1600#. Injection rate 46 barrels per minute.
Perforated 5½" OD casing with 4 Welex super jets per foot as follows: 2667'-2668' w/4 holes and 2631-2668' w/144 holes- Sand Frac Job No. 4 Casing perforations 2631-2668'. Treated Pictured Cliffs formation down 5½" OD casing with 40,000# of sand and 40,000 gallons water. Breakdown pressure 1400#. Injection rate 67 barrels per minute. Baker Model "D" production packer set at 3450'.

4 day shut in pressure on Pictured Cliffs 576#. After 3 hour test period Pictured Cliffs gas gauged 1985 MCF per day, flowing through casing-tubing annulus on 3/4" positive choke for a calculated AOF potential of 2138 MCF per day. Flowing casing pressure 158#. 3 day shut in pressure on Chacra 734#.
After 3 hour test period Chacra gas gauged 932 MCF per day, flowing through 2" tubing on 3/4" positive choke for a calculated AOF potential of 940 MCF gas per day. Flowing tubing pressure 67#.
Officially dual completed as a Pictured Cliffs - gas and Chacra - gas well on September 7, 1960.