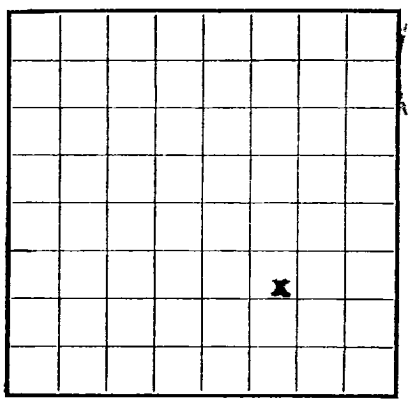
Form 9-330

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

U. S. LAND OFFICE Santa Fe
SERIAL NUMBER 080136
LEASE OR PERMIT TO PROSPECT Salazar-Federal



LOCATE WELL CORRECTLY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company Kay Kimbell Address 7114 Central Se, Albuquerque, N. M.

Lessor or Tract Salazar-Federal Field undesignated State New Mexico

Well No. 1-22 Sec. 22 T. 25N R. 6W Meridian NMPM County Rio Arriba

Location 1450 ft. {N. / S.} of S Line and 1450 ft. {E. / W.} of E Line of Section 22 Elevation 6647
(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 Bert Deegan

Date June 10, 1958 Title Geologist

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

Commenced drilling April 17, 19 58 Finished drilling April 23, 19 58

OIL OR GAS SANDS OR ZONES

(*Denote gas by G*)

No. 1, from 2566 to 2576(G) No. 4, from ____ to ____

No. 2, from 3398 to 3530(G) 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 From—	Perforated To—	Purpose
8 5/8	24#	8	J-55	97.26	-	-			Surface
5½	14#	8	J-55	3551	Texas Pat	-	2566	2576	Production
							3416	3422	4 shots/ft.
							3506	3510	"
							3516	3528	"

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
8 5/8	100	70	Pump and plug	-	-
5½	3560	400, 25 gel	"	-	-

FOLD MARK

PLUGS AND ADAPTERS

Heaving plug—Material ____ Length ____ Depth set ____

Adapters—Material None Size ____

SHOOTING RECORD

Size	Shell used	Explosive used	Quantity	Date	Depth shot	Depth cleaned out
		None				

TOOLS USED

Rotary tools were used from Surface feet to 3560 feet, and from ____ feet to ____ feet

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

DATES

Man tubing 5-13, 19 58 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. ____

*Dual gas completion: Pictured Cliffs IP 1,463 mcf/day, Caof 1,483 mcf/day
Chacra IP 1,803 mcf/day, Caof 2,068 mcf/day
Pictured Cliffs shut-in pressure EMPLOYEES casing(16 days) 838#. Chacra shut-in pressure tubing (16 days) 889#.

Benson-Montin-Greer Drilling Corp., Driller ____, Driller

____, Driller ____, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
Surface	2566	2566	Surface sand and shale. Ojo Alamo, Kirtland and Fruitland formations.
2566	2600	34	Pictured Cliffs sandstone
2600	3398	1798	Lewis shale
3398	3530	132	Chacra sandstone
3530	3567TD	37	Lewis shale

[OVER]

16—43094-4

FORMATION RECORD—Continued

FROM—	TO—	TOTAL FEET	FORMATION

16—43084-2 U. S. GOVERNMENT PRINTING OFFICE

HISTORY OF OIL OR GAS WELL

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.

4-11-58 Moving rotary rig on location
4-17-58 Spudded in 12¼" hole. TD 110' RKB Set surface pipe, circulated to surface.
4-24-58 TD 3567 running logs. Set 11 joints 5½" OD 14# J-55 production casing with 400 sacks cement at 3560. PBTD 3540.
5-2 -58 Moved in cable tools to complete.
5-5 -58 Perforated 3416-22, 3506-10, 3516-28 with 4 shots per foot. Swabbed dry. Shut well in.
5-6 -58 Flowed 252 mcf/day. Treated w/24,360 gallons water, 30,000# sand. Flushed with 7,140 gallons water. Breakdown pressure 1750-1600#. Treating pressure 3025-1700#. Average injection rate 27.2 bpm.
5-9 -58 Chacra flowing 724 mcf/day. Set Baker 31 drillable bridge plug at 2590'. Perforated 2568-76 w/4 shots per foot. Sandfraced w/24,696 gallons water and 30,000 pounds of sand. Flushed w/3360 gallons water. BP 1750#, TP 1400-1500#, AIR 47 bpm. Shut well in.
5-10-58 Drilled bridge plug.
5-12-58 Ran 29 joints 371' of 1½" EUE tubing and 84 joints 2587' of 2 3/8" EUE tubing. Total string 3458' with 7' packer at 3393'. Flowed (24"/2") 577 mcf/day from Chacra and (28"/3") 623 mcf/day from fractured cliffs. Well shut in.