

Form 9-330

U. S. LAND OFFICE Santa Fe
SERIAL NUMBER SF 078641
LEASE OR PERMIT TO PROSPECT _____

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			23				

LOCATE WELL CORRECTLY

UNITED STATES
RECEIVED
JAN 29 1959
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
U. S. GEOLOGICAL SURVEY
ROSWELL, NEW MEXICO

LOG OF OIL OR GAS WELL

Company Tennessee Gas Transmission Co. Address P. O. Box 1714, Durango, Colorado
Lessor or Tract USA W. O. Berger Field Undesignated State New Mexico
Well No. 2 Sec. 23 T. 26N R. 11W Meridian NMPM County San Juan
Location 790 ft. [N] of N Line and 790 ft. [E] of W Line of Section 23 Elevation 6369' D.F.
(Derriek 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 R. N. Walker R. N. Walker

Date January 27, 1959 Title District Production Supt.

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

Commenced drilling JULY 7, 19 58 Finished drilling August 20, 19 58

OIL OR GAS SANDS OR ZONES
(Denote gas by G)

No. 1, from 5205' to 5497' (G) No. 4, from _____ to _____
No. 2, from 6142' to 6416' (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		Purpose
							From—	To—	
9 5/8"	32	8	CF&T	320'	Baker		5326'	5495'	Production
7"	23.820	8	Mat'l.	6420'	Baker		6198'	6271'	Production

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
9 5/8" OD	333'	235 sx.	1 plug		
7" OD	6420'	333 sx.	2 plugs		

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 6455 feet, and from _____ feet to _____ feet
Cable tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet

See history for open flow tests. DATES Well completed as shut-in dual gas well
January 15, 19 59 Put to producing January 15, 19 59

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

M. W. McDonald _____, Driller S. Burch _____, Driller
E. Sperry _____, Driller _____, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
Electric Log Tops:			
	Farmington Sand	800'	
	Picture Cliff	1750'	
	Mancos Shale	4368'	
	Gallup Sand	5205'	
	Green Horn	6074'	
	Dakota	6172'	
	Morrison	6416'	
0	770	770	Sand, chert, conglomerates
770	1000	230	Shale, siltstone
1000	1700	700	Shale and shaly sands
1700	1800	100	Shaly sand
1800	2200	400	Shale
2200	3300	1100	Shale and shaly sands
3300	4800	1500	Shale, sand, coal streaks
4800	6455	1655	Shale, shaly sand, sand, siltstone
Core Descriptions:			
Core No. 1	932' to 965'		Rec. 45' shale and silty sandstone
Core No. 2	5230' to 5242'		Rec. 9 1/2' shale and siltstone w/hairstone Show of oil & gas. fractures
Core No. 3	5242' to 5263'		Rec. 21' shale and siltstone w/hairstone fracture. Fair flour.

Core No. 4.	5369	to 5380	Rec. 24' shale w/ thin laminations of siltstone
Core No. 5	5446	to 5486	Rec. 31' shale w/ thin laminations of siltstone
Core No. 6	5486	to 5497	Rec. 11' shaly sand. Bleeding oil and gas.
Core No. 7	6233	to 6255	Rec. 52' shaly sand and shale
Core No. 8	6255	to 6279	Rec. 24' shale and sand. Show of gas and fluor.

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 balling.

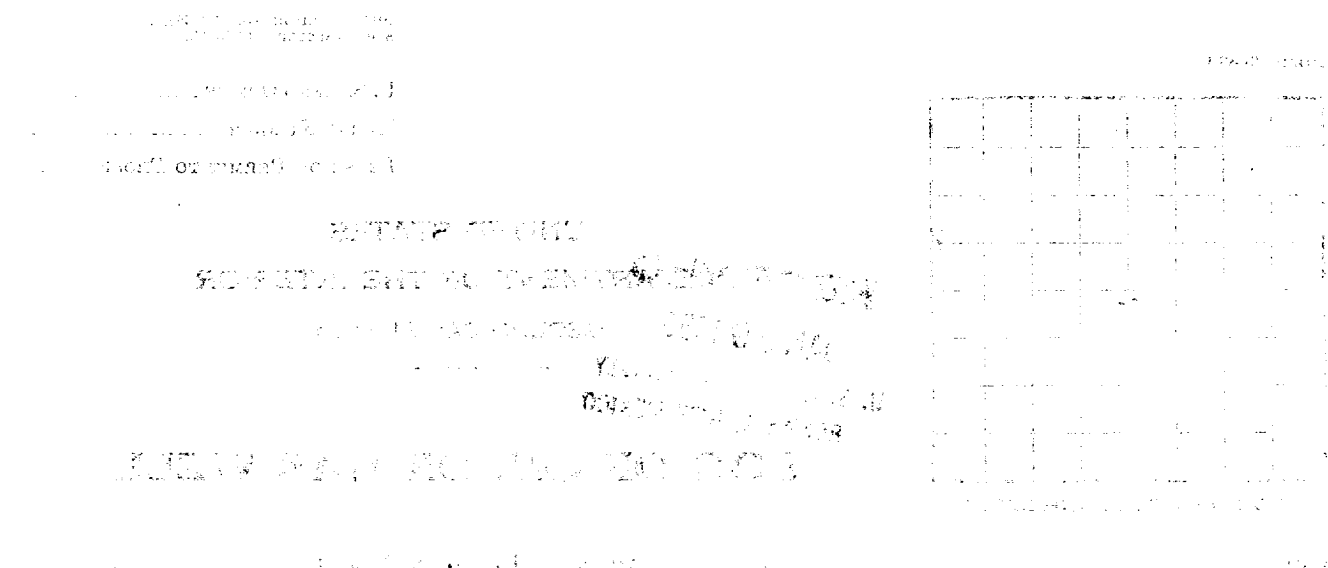
Spudded 7-26-58 and drilled 13 3/4" hole to 336'. Ran 9 5/8" OD, 32#, H-40 casing to 333'. Circulated 235 ex. of cement 4% each. WOC 24 hrs, and pressured tested at 300 psi. Drilled and cored 8 3/4" hole to 6455' with gel mud. Took following measure. Rec. 935' hvy. GCM. DST No. 2 - 5406' to 5544'. Open 2 hrs. Rec. 1000' and 2700' hvy GCM. DST No. 3 - 6186' to 6279'. Open 3 hours. GTS in 12 min. Rate 91 MCFPD. Rec. 240' hvy GCM. TD 6455'. Ran electric logs. Ran 7" OD, 23#, and 20#, N-80 and J-55 casing. to 6420'. Cemented with 333 ex. Top of cement at 4705' by temperature survey. WOC 12 hours. Pressure tested casing at 3600 psi.

WELL COMPLETION AS FOLLOWS

Dakota Parts. 6190' to 6201' W/4 shts./ft. 6242' to 6271' W/4 shts./ft. Acidized W/750 gals. MCA, Trac. 4/16, 576 gals. of water and 37,500# of sand. Set Baker Model "D" packer at 6148' W/DR plug. Gelling beta's. 5326' to 5344', 5352' to 5364', 5385' to 5431', 5459' to 5495' W/4 shts./ft. Acidized W/750 gals. MCA, Trac. W/60,000 gals. of oil and 60,000 gals. of sand. Pulled DR plug and ran dual completion equipment consisting of 618' 8" nipple at 6118' and offsetting sleeve at 6085' and 2" RUE tubing.

POTENTIAL TESTS AS FOLLOWS:

1-7-59 Dakota, absolute open flow 6866 MCFPD. 3 hour test. RFP. 412, CH 3/4", Gas-condensate ratio not available. 1-15-59 Gelling absolute open flow 6862 MCFPD. 3 hour test. Recovered 7 bbls. of load oil. 426 bbls. of load oil to recover. MCP 310. CH 3/4". Packer leakage test completed 1-15-59. Well approved as dual Dakota (gas) and Gelling (gas) well by MWDCC Order No. DC-719. Well completed as a dual shut-in gas well from both Dakota and Gelling formations.



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