

U. S. LAND OFFICE _____
SERIAL NUMBER NM-038775
LEASE OR PERMIT TO PROSPECT _____

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOCATE WELL CORRECTLY

Company TEXACO Inc. Address P.O. Box 728, Hobbs, New Mexico
 Lessor or Tract Leo R. Manning Fed. "B" NCT-1 Field North Benson
Queen, Grayburg State New Mexico
 Well No. 4 Sec. 28 T. 18S R. 30E Meridian NMPM County Eddy
 Location 330 ft. N. of S Line and 1491 ft. EX of E Line of Sec. 28 Elevation 3501 DF
XX W. (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.

Date June 20, 1963

Title Assistant District Supt.

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

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Commenced drilling May 23, 1963 Finished drilling June 3, 1963

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

See Attached

No. 1, from _____ to _____

No. 2, from _____ to _____

No. 3, from _____ to _____

No. 4, from _____ to _____

No. 5, from _____ to _____

No. 6, from _____ to _____

Drilled with rotary tool	IMPORTANT WATER SANDS	No water sands tested.
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No. 1, from _____ to _____

No. 2, from _____ to _____

No. 3, from _____ to _____

No. 4, from _____ to _____

CASING RECORD

[illegible]

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
7-5/8	500	1400	Halliburton		
4-1/2	3603	350	Halliburton		

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 3603 feet, and from _____ feet to _____ feet.

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

DATES

Put to producing June 15, 1963

The production for the first 24 hours was 63 barrels of fluid of which 70 % was oil; - % emulsion; 30 % water; and - % sediment. Gravity, °Bé. 35

If gas well, cu. ft. per 24 hours _____ Gallons gasoline per 1,000 cu. ft. of gas _____

Rock pressure, lbs. per sq. in. -----

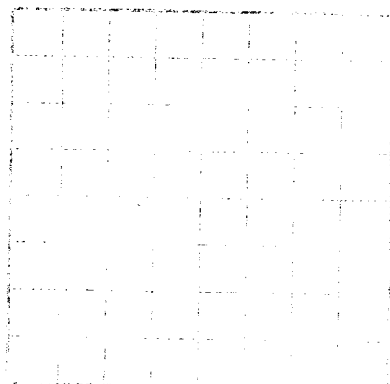
EMPLOYEES

W. J. Botkin	, Driller	T. E. Bingham	, Driller
A. S. Lonitnot	, Driller	Roy Solomon	, Driller

FORMATION RECORD

FROM--	TO--	TOTAL FEET	FORMATION
0	319	319	Redbed
319	850	531	Redbed, Salt, Anhy.
850	1579	729	Salt, Anhy.
1579	2751	1172	Anhy & Gyp
2751	2897	146	Anhy & Lime
2897	3503	706	Lime
3503	TD		
3567	PBTD		

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND SURVEY



V. J. CERRATO, JR., AV. 300, 300.

0040214 000

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 "siderchecked," or fell 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.

HISTORY OF OIL OR GAS WELL

10-48094-2 B. S. GOVERNMENT PRINTING OFFICE

FORMATION	TOTAL FEET	TO-	FROM-
Formation Tops: Anhy 315' Top Salt 465' Base Salt 1554' Yates 1640' Queen 2812' Penrose 3024' Grayburg 3262' TD 3603'			

LEO R. MANNING FEDERAL "B" (NCT-1) NO. 4

Spudded 9-7/8" hole 4:15 P. M. May 23, 1963.

Ran 487' of 7-5/8" OD casing and set at 500'. Cement with 900 sacks of Incor 4% Gel with 300 sacks of Stratacrete. Plug at 454'. Cement circulated. Job complete 3:00 A. M. May 25, 1963. Tested 7-5/8" OD casing before and after drilling plug for 30 minutes with 600 psi. Tested OK. Job complete 5:00 A. M. May 26, 1963.

Ran 3593' of 4-1/2" OD casing and set at 3603'. Cement with 350 sacks of Incor cement with 10% salt. Job complete 9:30 A. M. June 4, 1963. Tested 4-1/2" OD casing before and after drilling plug for 30 minutes with 600 psi. Tested OK. Job 3:30 P. M. June 5, 1963.

June 1, 1963 - Core No. 1 = From 3510-38', Core barrel jammed.
June 2, 1963 - Core No. 2 - From 3538-60', Recovered 22'.
June 3, 1963 - Core No. 3 - From 3560-3603', Recovered 43'.

Ran GR-N logs, June 3, 1963.

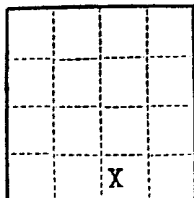
Ran GR-Correl log, June 5, 1963.

GRAYBURG ZONE: Ran 3593' of 4-1/2" OD casing and cemented at 3603'. Plug at 3567'. Perforate 4-1/2" OD casing with 1 shot per interval 2827'; 2837'; 2850'; 3040'; 3051'; 3355'; 3362'; 3374'. Acidize perforations with 1800 gallons of LSTNEA. Spot 400 gallons of acid over perforations. Acidize with 8-200 gallon stages with ball sealers between stages with 55 gallons of Control-Flo and 10 Bbls. of lease crude followed with 30,000 gallons of refined oil.

On 24 hour Potential Test ending 10:00 A. M. June 19, 1963, well pumped 44 BO and 19 BW.

Gravity - 35
GOR - TSTM
Top of Pay - 2827'
Bottom of Pay - 3374'
Texaco Date - June 20, 1963
N. M. O. C. C. Date - June 3, 1963

JUN 24 1963
U. S. GEOLOGICAL SURVEY
ARTESIAN, NEW MEXICO



(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Budget Bureau No. 42-R358.4.
Form Approved.

Land Office

Lease No. NM-033775

Unit

JUN 4 1963

U.S. GEOLOGICAL SURVEY
ARTIFICIAL, NEW MEXICO

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL		SUBSEQUENT REPORT OF WATER SHUT-OFF	X
NOTICE OF INTENTION TO CHANGE PLANS		SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING	
NOTICE OF INTENTION TO TEST WATER SHUT-OFF		SUBSEQUENT REPORT OF ALTERING CASING	
NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL		SUBSEQUENT REPORT OF RE-DRILLING OR REPAIR	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE		SUBSEQUENT REPORT OF ABANDONMENT	
NOTICE OF INTENTION TO PULL OR ALTER CASING		SUPPLEMENTARY WELL HISTORY	
NOTICE OF INTENTION TO ABANDON WELL			

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

Leo R. Manning Federal "B" NCT-1
Lease No 163971

May 28, 1963

Well No. 4 is located 330 ft. from ~~N~~_S line and 1491 ft. from ~~W~~_E line of sec. 28

SW/4 SE/4 Sec 28
(1/4 Sec. and Sec. No.)

T-18-S
(Twp.)

R-30-E
(Range)

NMPM
(Meridian)

North Benson Queen-
Grayburg (Field)

Eddy
(County or Subdivision)

New Mexico
(State or Territory)

The elevation of the derrick floor above sea level is 3501 ft.

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

TD 1680 ft.

Spudded 9-7/8" hole 4:15 PM. May 23, 1963.

Ran 487 ft. of 7-5/8" O.D. casing (15.28 lb. New) and set at 500 ft. Cement with 900 sacks of Inco 4% Gel with 300 sacks of Strata Crete. Plug at 454 ft. Cement Circulated. Job complete 3:00 A.M. May 25, 1963.

Tested 7-5/8" O. D. casing with 600 psi for 30 minutes from 3:00 to 3:30 A.M. May 26, 1963. Tested OK. Drilled plug and retested for 30 minutes from 4:30 to 5:00 A.M. May 26, 1963. Tested OK. Job complete 5:00 A.M. May 26, 1963.

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

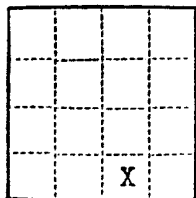
Company TEXACO INC.

Address P. O. Box 728

Hobbs, New Mexico

By

Title Assistant District Superintendent



(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Land Office

Lease No. NM 033775

Unit

RECEIVED

JUN 24 1963

U. S. GEOLOGICAL SURVEY
ARTESIA, NEW MEXICO

SUNDRY NOTICES AND REPORTS ON WELL

NOTICE OF INTENTION TO DRILL	SUBSEQUENT REPORT OF WATER SHUT-OFF	X
NOTICE OF INTENTION TO CHANGE PLANS	SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING	
NOTICE OF INTENTION TO TEST WATER SHUT-OFF	SUBSEQUENT REPORT OF ALTERING CASING	
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NOTICE OF INTENTION TO PULL OR ALTER CASING	SUPPLEMENTARY WELL HISTORY	
NOTICE OF INTENTION TO ABANDON WELL		

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

Leo R. Manning Fed "B" NCT-1
Lease No. 163971

June 6, 1963

Well No. 4 is located 330 ft. from S line and 1491 ft. from E line of sec. 28

SW/4 SE/4 Sec 28 T-18-S R-30-E NMPM
(1/4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)

North Benson Queen- Eddy New Mexico
(Field) (County or Subdivision) (State or Territory)

Grayburg The elevation of the derrick floor above sea level is 3501 ft.

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

TD 3603 ft.

Ran 487 ft. of 7-5/8" O. D. casing and set at 500 ft.

Ran 3593 ft. of 4-1/2" O. D. casing and set at 3603 ft. Plug at 3567 ft.
Cement with 350 sacks of Incor cement with 10% salt. Job complete 9:30 A.m.
June 4, 1963.

Tested 4-1/2" O. D. casing for 30 minutes with 1500 psi from 1:00 to 1:30 P.M.
June 5, 1963. Tested OK. Drilled plug and retested with 1500 psi for 30
minutes from 3:00 to 3:30 P.M. June 5, 1963. Tested OK. Job complete 3:30
P.M. June 5, 1963.

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company TEXACO INC.

Address P. O. Box 728

Hobbs, New Mexico

By

J. G. Blevins Jr.

Title Assistant District Superintendent

100

NEW MEXICO OIL CONSERVATION COMMISSION
Santa Fe, New Mexico

(Form C-104)
Revised 7/1/57

REQUEST FOR (OIL) - (GAS) ALLOWABLE

This form shall be submitted by the operator before an initial allowable will be assigned to any completed or for Gas well. Form C-104 is to be submitted in QUADRUPPLICATE to the same District Office to which Form C-101 was submitted. The allowable will be assigned effective 7:00 A.M. on date of completion or recompletion, provided this form is filed during calendar month of completion or recompletion. The completion date shall be that date in the case of an oil well when new oil is delivered into the stock tanks. Gas must be reported on 15.025 psia at 60° Fahrenheit.

Hobbs, New Mexico, June 20, 1963
(Place) (Date)

WE ARE HEREBY REQUESTING AN ALLOWABLE FOR A WELL KNOWN AS:

Texaco Inc. Leo R. Manning Fed. "B" Well No. 4, in SW 1/4 SE 1/4,
(Company or Operator) (Lease)
0, Sec. 28, T. 18-S., R. 30-E., NMPM., North Benson Queen Grayburg Pool
Unit Letter

Eddy

County. Date Spudded May 23, 1963 Date Drilling Completed June 3, 1963

Please indicate location:

D	C	B	A
E	F	G	H
L	K	J	I
M	N	O	P
		X	

Elevation 3501 (DF) Total Depth 3603 PBD 3567
Top Oil/Gas Pay 2827' Name of Prod. Form. Grayburg
PRODUCING INTERVAL - 3362', 3374'
2837', 2850', 3040', 3051', 3355',
Perforations 4-1/2" casing with 1 shot per interval 2827',
Open Hole - Depth Casing Shoe 3603' Depth Tubing -

OIL WELL TEST -

Natural Prod. Test: bbls. oil, bbls water in hrs, min. Size Choke
Test After Acid or Fracture Treatment (after recovery of volume of oil equal to volume of Choke
load oil used): 44 bbls. oil, 19 bbls water in 24 hrs, 0 min. Size

GAS WELL TEST -

Natural Prod. Test: MCF/Day; Hours flowed Choke Size

Tubing, Casing and Cementing Record

Size	Feet	Sax
7-5/8	487	1200
4-1/2	3593	350

Method of Testing (pitot, back pressure, etc.):
Test After Acid or Fracture Treatment: MCF/Day; Hours flowed
Choke Size Method of Testing:

Acid or Fracture Treatment (Give amounts of materials used, such as acid, water, oil, and sand): See Remarks
Casing Tubing Date first new
Press. Press. oil run to tanks June 15, 1963

Oil Transporter McWood Corporation (Trucks)

Gas Transporter TSTM

Remarks: Acidize perforation with 1800 gallons of LSTNEA spot 400 gallons acid over perforations. Acidize with 8-200 gallon stages with ball sealers between stages with 55 gallons of control-flo & 10 bbls. of lease crude oil, followed with 30,000 gallons of refined oil.
I hereby certify that the information given above is true and complete to the best of my knowledge.

Approved: 19

Texaco Inc.

(Company or Operator)

By:

(Signature)

Title: Asst. Dist. Superintendent

Send Communications regarding well to:

Name: Texaco Inc.

Address: P. O. Box 728, Hobbs, New Mexico

OIL CONSERVATION COMMISSION

By:

Title:

RECEIVED
JUN 24 1963
BIOLOGICAL SURVEY
ALBUQUERQUE, NEW MEXICO

I J. G. Blevins Jr. being of lawful age and being the
Assistant District Superintendent for Texaco Inc., do state that the
deviation record which appears on this form is true and correct to the best of my
knowledge.

R. E. Johnson

Subscribed and sworn to before me this 20th day of June 1963.

My Commission Expires October 20, 1966 Notary Republic R. E. Johnson
for Lea County, State of New Mexico

Lease Leo R. Manning Federal "B" NCT-1 Well No. 4

Deviation Record

<u>Depth</u>	<u>Degrees Off</u>
500	3/4
985	2
1550	2-1/4
1891	2-1/4
2384	2-1/4
2851	2-1/4
3357	2
3603 TD	2