



IN REPLY REFER TO:

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
P. O. Box 997
Roswell, New Mexico

April 1, 1952

*Duplicate
Copies*

Magnolia Petroleum Company
P. O. Box 633
Midland, Texas

Attention: Mr. R. T. German
Division Superintendent

Re: Lease Las Cruces 064354

Gentlemen:

Receipt is acknowledged of your "Notice of Intention to Drill" dated March 31, 1952, covering your well No. 1 Burt on the subject leasehold in the SE $\frac{1}{4}$ sec. 5, T. 8 S., R. 30 E., N.M.P.M., Chaves County, New Mexico.

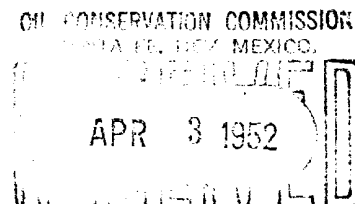
Your proposed work is hereby approved subject to compliance with the provisions of the "Oil and Gas Operating Regulations", revised May 25, 1942, copy enclosed, and subject to the attached sheet for general conditions of approval.

Very truly yours,

H. A. DuPont

H. A. DuPont
District Engineer

Attachments



UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY



the 1990s, the number of people in the United States who are 65 years of age or older is projected to increase from 20 million to 35 million, and the number of people 75 years of age or older is projected to increase from 10 million to 17 million (U.S. Census Bureau, 1996).

Attention is called to the following general and special requirements that are to be observed by operators on Federal Oil and Gas Leases. Suspension of field operations may be required by the District Engineer for failure to comply with the Operating Regulations, the conditions of drilling approval, and these requirements:

Journal of Management Inquiry

3. All drilling and production wells shall be permanently marked in a conspicuous place with the name of operators, lease name, serial number of lease well number and location. Necessary precautions must be taken to protect the marks.

2. Any desired change of existing plan or condition of a project shall have written approval of the District Engineer BEFORE the change is made.

3. Unless otherwise specified in the approval, the percentage scoring of each must be set at the top of the pay zone. The completion should also include a reasonable goal ratio.

4. Before work is started, written approval must be obtained. Unless other acceptable arrangements are made in advance with the District Engineer and other work is completed results must be reported to the U. S. Geological Survey by submitting complete information in triplicate on form 5-111a, covering

- a. Moulding or cementing. Including plastered and wire meshed or lathing water shut-off.
- b. Drill-stop tests or perforating.
- c. Casing alterations, packer setting, or repairs of any kind.
- d. Shooting, acid treatment, deepening or plugging, etc.
- e. Gas-lift installation.
- f. Drilling of water wells.

Monthly report of operations in duplicate, on form P-29, must be submitted promptly each month beginning with spreading of the first well on a lease and continuing until approved abandonment of all drilling and production operations.

5. Log, in quadruplicate, on form 9-110 must be submitted within 30 days of reaching temporary or permanent dwelling tent. Duplicate copies of all electrical logs, sample cutting logs, drilling-log logs, and any other early information not given on the standard form also should be filed.

Japanese applications to drill any water well on Pandan, land is required, and special procedure is necessary for abandonment of any well not to constitute water supply.

and the other, smaller, sample. The solid and loose specimens should be submitted in their own containers with the regard to safety, conservation, appearance, and related items.

4. The notice of intention to drill any well is required without further notice of drilling is not required within 15 days of approval.

13. Request must be allowed to take a minimum of 72 hours to a 1 month of time prior to drilling the plug, except for modifications provided by the Bureau which were issued March 2, 1967. Copy of which will be furnished below.

Journal of Management Education 36(7) 809–824

(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Land Office Las Cruces
Lease No. 064354
Unit Burt-Federal

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL.....	☒	SUBSEQUENT REPORT OF WATER SHUT-OFF.....	
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 REDRILLING 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)

Burt-Federal Midland, Texas March 31, 1952
Well No. 1 is located 660 ft. from SW line and 660 ft. from E line of sec. 5
SE/4 SE/4 Sec. 5 T-8-S R-30-E N.M. P.M.
(1/4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)
Lightcap Area Chaves New Mexico
(Field) (County or Subdivision) (State or Territory)

The elevation of the derrick floor above sea level is ? 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)

March 31, 1952

It is proposed to drill the above well with a Power Rotary Rig and test the Devonian section. Total depth of this well will be approximately 8100'. The following casing program will be used:

Set & cement approx. 750' of 10-3/4" Surface Casing
Set & cement approx. 4800' of 7-5/8" Intermediate Casing
Set & cement 5 1/2" liner for production string.

Casing will be cemented from top to bottom, and any zones that may appear productive will be tested.

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

Company Magnolia Petroleum Company
Address P.O. Box 633
Midland, Texas
By R. T. German
Title Division Superintendent

Lightcap Area

Magnolia Petroleum Company

PRODUCING DEPARTMENT

Location made

Feb. 26 th,

19 52

Burt - Federal

Well No. 1

Kermit

District

Lease NM-1384-B, acres 560.41

Sec. 5, T 8 S, R 30 E

{ District
Township

Chaves

County,

New Mexico

Scale

1" = 500'

N

S

E

W

Mag.

Mag.

Magnolia Pet. Co.

Mag.

Mag.

I, R. G. Watts, Registered Professional Engineer and Land Surveyor in and for the State of New Mexico, do hereby certify that the above location and the measurements shown thereon were made by an actual survey upon the ground and that this plat correctly reflects the conditions found thereon.

Signed:

R. G. Watts
Registered Professional Engineer and
Land Surveyor No. 361

Mag.

40 Ac. Allocated
to well #1

N 1° 01' E

Elev.
4030'

#1

660'

660'

N 44° 25' W
927'

Burt - Federal

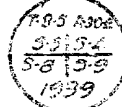
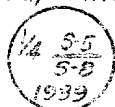
N 89° 50' W 1' 2643.7'

Mag.

1" G.I.P. & Rk. Mound
Brass Cap Mkd.

2" G.I.P. & Rk. Mound
Brass Cap Mkd.

Mag.



Reserve

None

Special instructions

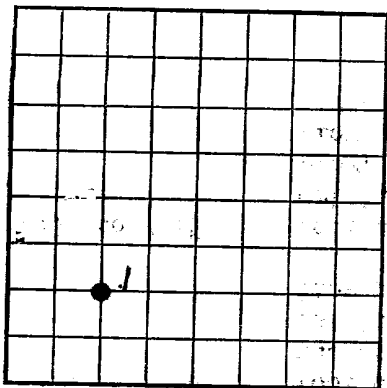
Permit depth - 9100 ft.

Magnolia Petroleum Company
PRODUCING DEPARTMENT

Location for Well No. _____

File No. _____

U. S. LAND OFFICE **LAS CRUCES**
SERIAL NUMBER **064354**
LEAS. PERMIT TO PROSPECT



LOCATE WELL CORRECTLY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

RECEIVED
SEP 25 1952
U. S. GEOLOGICAL SURVEY
NEW MEXICO

LOG OF OIL OR GAS WELL

Company **MAGNOLIA PETROLEUM COMPANY** Address **BOX 633 MIDLAND, TEXAS**
Lessor or Tract **BURT FEDERAL** Field **LIGHTCAP** State **NEW MEXICO**
Well No. **1** Sec. **5** T. **8-S** R. **30-E** Meridian **N.M.P.M.** County **LEA** *Cham*
Location **660 ft. {N.} of 8 Line and 660 ft. {E.} of E Line of Sec. 5-T-8-S R-30-E** Elevation **4030**
(Denote gas by G)

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 *[Signature]*
Date **SEPT. 17, 1952** Title **Division Sup't.**

The summary on this page is for the condition of the well at above date.
Commenced drilling **4-24-52**, 19 **52** Finished drilling **8-8-52**, 19 **52**

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

No. 1, from _____ to _____ No. 4, from _____ to _____
No. 2, from **NONE** (See DST & Core Record) to _____ No. 5, from _____ to _____
No. 3, from _____ to _____ No. 6, from _____ to _____

IMPORTANT WATER SANDS

No. 1, from **NONE** 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—	
10-3/4	32.75	8 VT	OR - B	26 J. 636'					
7-5/8	26.10	8 RT	Spang	33 J. 636'					
7-5/8	26.00	8 RT	J & L	59 J. 636'					
			H-10						

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
10-3/4	@ 636'	W/600 sks. Neat	Plug & Pump		
7-5/8	@ 4374'	W/2175 6% Gel			
		150 sks Signalite			
		200 sks. Neat			

PLUGS AND ADAPTERS

Heaving plug—Material **None** Length _____ Depth set _____
Adapters—Material _____ Size _____

SHOOTING RECORD

Shot	Shell used	Explosive used	Quantity	Date	Depth shot	Depth cleaned out
NONE						

TOOLS USED

Rotary tools were used from **0** feet to **6015** feet, and from _____ feet to _____ feet
Cable tools were used from **None** feet to _____ feet, and from _____ feet to _____ feet

DATES PLUGGED & ABANDONED **8-10-52**

Put to producing **Not Producing**, 19 _____

The production for the first 24 hours was **None** barrels of fluid of which **None**% was oil; **None**% emulsion; **None**% water; and **None**% sediment. Gravity, °Bé. **None**

If gas well, cu. ft. per 24 hours **None** Gallons gasoline per 1,000 cu. ft. of gas **None**

Rock pressure, lbs. per sq. in. _____

EMPLOYEES

Magnolia Petroleum Co. Tools, Driller _____, Driller _____
Rotary Rig # 4, Driller _____, Driller _____

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	25	25	Red Bed
25	710	685	Red Bed & Red Rock
710	830	120	Red Bed Shells
830	1100	270	Red Rock, Shells, sand
1100	1119	19	Red Bed & Red Rock
1119	1287	168	Salt, Red Bed, Shells
1287	1425	138	Shells, Red Bed, & Green shale
1425	1573	148	Red bed & Shells
1573	1880	307	Red Bed, salt & Anhy
1880	1981	101	Anhydrite & Salt
1981	2096	115	Anhydrite, Red bed & shells
2096	2195	99	Anhydrite & shale
2195	2248	53	Anhydrite and salt
2248	2371	123	Anhydrite and shale
2371	2401	30	Anhydrite
2401	2426	25	Anhydrite and Lime
2426	2580	154	Lime
2580	2598	18	Lime Gyp
2598	2632	34	Lime
2632	2882	250	Anhydrite & Lime
2882	3002	120	Lime
3002	3018	16	Anhydrite & Lime
3018	3021	3	Lime & Gyp
3021	3053	32	Lime
3053	3066	13	Sandy Lime
3066	3095	29	Belomite & shale

crystalline brown lime w/small vuggy edge & inner crystalline porosity, 20% blue flour & good odor. 2'1" Medium to Crystalline brown lime w/trace of small scattered vuggy porosity, trace light blue flour. 5" Fine to course Crystalline brown lime w/small vuggy & Cavernous porosity, 20% blue Flour. 3'6" fine to course crystalline tan lime.

7120 to 7130	Rec. 10'	Fine & medium crystalline light brown lime w/thin streaks gray shale.
7130 to 7145	Rec. 13'8"	2½' Fine to medium crystalline gray limestone w/small vuggy porosity, 10-20% blue Flour. Fair odor. 9'3" fine crystalline tan & gray limestone w/thin shale partings. 2½" fine crystalline tan limestone w/fair interfossil porosity. Good odor, trace Blue and yellow Flour.
7145 to 7175	Rec. 27'3"	12' fine to course grained lime w/good vuggy porosity, slight odor and good flour. bleeding salt water. 11'5" Finely crystalline tan tan lime. 4' finely dark gray lime w/abundant fossils & black shale partings.
7178 to 7214	Rec. 36'	3' Black shale. 5½' Finely crystalline tan & brown limestone w/shale partings. 16½' finely crystalline gray tan lime. 6½' finely crystalline gray lime, fair vuggy porosity slight odor and light stain. 6" finely crystalline gray lime.
7214 to 7224	Rec. 8½'	4½' finely crystalline gray tan lime. 4' finely crystalline brown lime w/shale partings.
7230 to 7245	Rec. 15'	4' finely crystalline brown lime w/no dules of chert and fossils. 5½' dark gray salty shale. 1' medium crystalline dark dolomite w/pyrite incl. 4½' dark gray shale, no porosity.
7245 to 7260	Rec. 15'	15' dark gray silt shale. k
7260 to 7275	Rec. 14½'	5' dark gray salty shale w/pyrite Incl. 9½' medium crystalline to crystalline tan dolomite w/fair vertical fracture, porosity poor to fair, inner crystalline porosity and scattered vuggy porosity, 20% Bluish Flour, no oil or gas visible.
7275 to 7279	Rec. 1'	Jammed Rec. 1' medium crystalline highly fracturous dolomite, slight bleeding gas, a good odor.
7284 to 7286		No recovery, core barrel jammed.

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