[redacted]

P-W

Kerr-McGee Oil Ind. Inc./
Hortenstine
NE/4-NW/4 Sec. 23-T18N-R25E 57

County Apache

Area Pinta

Lease No. Hortenstine

Well Name Kerr-McGee Oil Ind. Inc. / Hortenstine

Location NE NW Sec 23 Twp 18N Range 25E Footage 660' FNL 1980' FWL

Elev 5587' Gr 5597' KB Spud Date 8-15-58 ~~Completed~~ Abandon 9-18-58 Total Depth 3456'

Contractor George Riley

PC -3404 +2193

Drilled by Rotary X
Cable Tool

Casing Size	Depth	Cement
10 3/4"	175'	150 sx

Production Horizon

Initial Production P & A

REMARKS

Elec Logs Time Log & Sample determination
Microlog; IE: Microlaterolog; Gamma Ray; Laterolog

Applic. to Plug X Plugging Record X Completion Report X

Sample Log X + Amstrat
Sample Descript.
Sample Set D-367
Core Analysis
DSTs

Water well accepted by

Bond Co. & No. Firemen's Ins. Co. ~~American Casualty Company~~ Bond #5471020-52 BND 188 98 10-526

Bond Am't $ ~~10,000~~ 25,000 Cancelled 10-24-68 Date Organization Report X

Filing Receipt 52593 Dated 7-28-58 Well Book X Plat Book X

Loc. Plat X Dedication E/2 NW/4

API No. 02-001-05043

Sample 367

Permit Number 57 Date Issued 8-28-58

Formation Tops	Scout	Sample	E. Log	Remarks
Shinarump			343	
Moenkopi			426	
Coconino			618	
P-Є			3404	

DSTs

CORES: Intervals, analysis

ARIZONA
APACHE COUNTY
NINE MILE (W)

PETROLEUM INFORMATION
DENVER CASPER
ROCKY MOUNTAIN
OIL INFORMATION

Twp 18n-25e
Section 23
ne nw

OPR: Kerr-McGee Oil Industries

WELL #: 1 Hortenstein

ELEV: 5597 KB.

*TOPS: Log-Sample

Coconino 1047
Salt 1966
Evaporite 2495
Quartz Wash 3348
preCambrian 3404

DSTS. & CORES:

DST 3247-3277, 1 hr, rec 10 mud, FP 0#, SIP (20 min) 0#, HP 1720#.

SPUD: 8-14-58 COMPL: 9-18-58

TD: 3454 PB:

CSG: 10-3/4" @ 175 w/150

PERF:

PROD. ZONE:

INIT. PROD: D & A

Contr: Riley

KAN-W5-85229

*For Electric Logs on Rocky Mountain Wells—Ask Us!

#1 Hortenstine
#1 Hortenstine } 2 Sap

#1 Reese — 1 Sap

#2 Hortenstine - 1 Sap

Received 3/24/59

57

NAVAJO FREIGHT LINES, INC.
NATIONAL HEADQUARTERS DENVER 23, COLORADO

CONSIGNEE'S MEMO

6

No. 5704720

FREDERIC C RYAN
CO STATE LAND DEPT
STATE OF ARIZ
PHX ARIZ
CONSIGNEE

SHIPPER

KERR MCGEE OIL CO
SUNRAY TX

DATE	EQUIP. NO.	O. C.	D. C.	SHIPPER OR GBL NUMBER	ORIG. CARRIER & ADV.	NAVAJO REVENUE	DELIV. CARRIER	NAVAJO RECEIVE
CN3 20 SOG 5010		5	5R	NS	153	653		653

ROUTING POINTS OF TRANSFER, FREIGHT BILL DATES AND NUMBERS

DUMS 19215 3 DXRN 20

NO. OPKG.	DESCRIPTION OF ARTICLES, SPECIAL MARKS	WEIGHT	RATE	FREIGHT
2	SKS EARTH & SAMLES	290	278	806 PPD

I. C. C. REGULATIONS REQUIRE THAT ALL FREIGHT BILLS BE PAID WITHIN SEVEN DAYS

5

Hortenstine #1:

Well completed: 9/18/58 ----------Release: 3/18/59

Approved 55 and 56.

Hortenstine #2:

Well completed: 9/25/58 ----------Release: 3/25/59

Approved 55 and 56.

Reese #1

Well completed: 10/1/58----------Release: 4/1/59

Approved 55 and 56.

Refer to telephone conversation 9/30/58 between FCR and Barton. Mr. Barton was going to hold ELs for awhile so that they could be picked over for data and all reports on the last three wells to remain confidential.

2/24/59

57

4

Form O&G 52

STATE LAND DEPARTMENT
STATE OF ARIZONA

Form Prescribed Under Oil and Gas Conservation Act of 1951
WELL COMPLETION REPORT
(File in Duplicate)

Operator Kerr-McGee Oil Industries, Inc. Field Wildcat on 9 mile Structure
Street P.O. Box 337 Pool
City Sunray State Texas County Moore
Lease Name Hortenstine Well No. 1 Acres in Unit 640
Location 660' FNL and 1980' FWL, Apache County, Arizona.
Sec. 23 Twp. 18N Rge. 25E
Elevation DF 5597 GR 5587 Electric Log Run Gamma Ray, Laterlog 9-17 1958
Number of Crude Oil Producing Wells on this Lease, including this well
Has Authorization to Transport Oil or Gas from Well, Form O&G 57 been filed?

Dry hole, well plugged September 18, 1958

OFFICIAL COMPLETION GAUGE

Date Test Commenced 19 Hour M. Date Test Completed 19 Hour M
Length of Test Hours Minutes
For Flowing Well: For Pumping Well:
Flowing pressure on Tbg. lbs./sq.in. Length of stroke used inches
Flowing pressure on csg. lbs./sq.in. Number of strokes per min.
Size tbg. in. No. ft. run Size of working barrel inches
Size choke in. Type choke Size tubing in. No. ft. run
Length in. Shut in pressure
If flowing well, was this well flowed for the entire duration of this test without the use of swab or other artificial flow device? If jetted, used cu. ft. gas per bbl. oil. Result of this test (bbls. net oil per 24 hrs.) (100% tank tables.)
Gas-oil ratio of this well is cu. ft. of gas per bbl. of oil.
Per cent water produced during this test.
Gravity of oil produced during this test (Corrected to A.P.I. 60° F)
Name of Pipe Line or other carrier
If perforated: No. Shots From To Date Perforated
Date well Spudded 8-15 19 58. Date Well Completed 9-18 19 58
Top Pay Ft. Total depth of well 3456 Ft.

CASING LINER AND TUBING RECORD

String	Size	Wt./Ft.	Name and Type	Amount Ft. In.	Depth Set at	Perforated From	To
Surface	10 3/4	32.75	J-55	167'	175'		

CEMENT AND TESTING RECORD

Size of Hole	String	Where Cement Placed	No. Sacks of Cement	Method Used	Pressure Applied in Testing	Hardness of Cement Drilled	Type of Cement
13 1/4	10 3/4	Cir	150		1000#	Good	Common

CHEMICAL OR SHOOTING RECORD BEFORE COMPLETION

Size	Chemical or	Quantity	Date	Depth From	to

AFFIDAVIT

I, Otto C. Barton, being first duly sworn on oath state that I have knowledge of the facts and matter herein set forth and ~~that~~ the same are true and correct.

Otto C. Barton
Representative of Company

Subscribed and sworn to before me this 17 day of October 1958
Moore County, ~~Ariz.~~ Texas
Notary Public
My Commission expires: 6-1-59

576

STATE LAND DEPARTMENT

STATE OF ARIZONA

Form O&G 56

Form Prescribed Under Oil and Gas Conservation Act of 1951

ABANDONMENT AND PLUGGING RECORD

(Within thirty days after the plugging of any well has been accomplished, the owner or operator thereof shall file this form with the Commissioner, setting forth in detail the method used in plugging the well.)

PLUGGING METHODS AND PROCEDURE-- The methods and procedure for plugging a well shall be as follows: (a) The bottom of the hole shall be filled to, or a bridge shall be placed at, the top of each producing formation open to the well bore, and in either event a cement plug not less than fifty (50) feet in length shall be placed immediately above each producing formation open to the well bore when ever possible.

(b) A cement plug not less than fifty (50) feet in length shall be placed at approximately fifty (50) feet below all fresh-water-bearing strata.

(c) A plug shall be placed at or near the surface of the ground in each hole.

(d) The interval between plugs shall be filled with heavy-mud-laden fluid.

(e) An uncased hole shall be plugged with heavy mud up to the base of the surface string, at which point a plug of not less than fifty (50) feet of cement shall be placed.

Operator Kerr-McGee Oil Ind Inc. Field (WildCat)

Pool

County Apache

Address all correspondence concerning this form to: Otto C Barton

Street: Box 337 City Sunray State Texas

Lease Name Hortenstine Well No. 1 Sec. 23 Twp. 18N Rge. 25E

Date well was plugged Sept. 18, 19 58

Was the well plugged according to regulations of the Commissioner? yes

Set out method used in plugging well and record of casing pulled: hole filled with heavy drilling mud and cement plugs set as follows. 20Sks-1650'-1700'
~~20 sks1010'-1060'~~
30 sks 565-640'
~~20 sks 330-380'~~
10 sks top of Csg.

~~No Casing pulled.(169 Ft 10¾ Cemented with 150 sks circulated to surface~~ and left in Hole) .

(AFFIDAVIT)

STATE OF ~~ARIZONA~~ Texas

COUNTY OF Moore

Otto C Barton
(Operator)

Before me, the undersigned authority, on this day personally appeared Otto C. Barton, known to me to be the person whose name is Subscribed to the above instrument, who being by me duly sworn on oath states that he is authorized to make this report and has knowledge of the facts stated herein and that said report is true and correct.

Subscribed and sworn to before me this the 7 day of Oct. 1958

OK 10-9-58

Micky Little

My commission expires: 6-1-59

Notary Public in and for Moore

57

STATE LAND DEPARTMENT
STATE OF ARIZONA

Form O&G 55

Form Prescribed Under Oil and Gas Conservation Act 1951
APPLICATION TO ABANDON, PLUG, DEEPEN, SIDETRACK OR PERFORATE

(After Well Has Once Been Completed)

INSTRUCTIONS: -- File in duplicate with Commissioner. One copy will be returned with approval or denial.

FIELD: Wildcat on Nine Mile Structure
OPERATOR: Kerr-McGee Oil Ind. Inc ADDRESS Okla. City Oklahoma
LEASE: Hortenstine # WELL NO. 1 COUNTY Apache
SURVEY: T 18N-R 25E SECTION 23 DRILLING PERMIT NO.:
LOCATION: Center NE¼ - NW¼

TYPE OF WELL: Dry Hole TOTAL DEPTH 3456
(Oil, Gas or Dry Hole)

ALLOWABLE (If Assigned) None (Dry Hole)
LAST PRODUCTION TEST: OIL (Bbls.) WATER Bbls.)
GAS (M.C.F.) DATE OF TEST

PRODUCING HORIZON None PRODUCING FROM: TO

1. COMPLETE CASING RECORD: 169 Ft 10¾" 32.75# Casing set at 179'. Cemented with 150 sacks cement circulated to surface.

2. FULL DETAILS OF PROPOSED PLAN OF WORK: Hole filled with heavy drilling Mud and cement plugs as follows.
20 sacks at 1650' to 1700'
20 sacks at 1010' to 1060'
30 sacks at 565' to 640'
20 sacks at 330' to 380'
10 sacks top of 10¾" Csg.
Total 100 Sacks Common Cement.

If the well is to be deepened to another zone other than that covered by permit, this form shall be accompanied by a certified lease plat as is prescribed on Form No. O&G 51.

If well is to be abandoned, does proposed work conform with requirements of SW Rule 26? Yes. If not, outline procedure proposed above.

DATE COMMENCING OPERATIONS: Sept.18.1958.
NAME OF PARTY DOING WORK: Halliburton ADDRESS Farmington N.M.
CORRESPONDENCE SHOULD BE SENT TO: Kerr-McGee Oil Ind. Inc.
Box 337- Sunray Texas.

NAME: Otto C Barton Otto C Barton

TITLE: Dist Supt.

APPROVED: DAY OF 19.

DENIED: DAY OF 19.

STATE LAND COMMISSIONER

BY:

OK Oct 9. 1958
RMJ

57

STATE LAND DEPARTMENT
STATE OF ARIZONA

Form OG 51

Form Prescribed Under Oil and Gas Conservation Act of 1951

NOTICE OF INTENTION TO DRILL NEW WELL

This notice and surety bond must be filed and permit must be granted before drilling begins

State Land Commissioner: Navajo, Ariz. 23 July 19 58

In compliance with Statewide Rule 3, notice is hereby given that it is our intention to commence the work of drilling well No. 1 Sec. 23, Twp. 18N, Rge. 25E, _____ B.&.M., Wildcat on 9 Mile Structure Field, _____ County.

Legal description of lease Hortenstine, #1, C NE NW, Section 23-18N-25E, Apache County, Arizona. (attach map or plat to scale)

Location of Well: 660' FNL and 1980' FWL of Section 23-18N-25E, Apache County, Arizona (Give exact footage from section corners or other legal subdivisions or streets)

Proposed drilling depth 3500' feet. Acres in drilling unit 640.

Has surety bond been filed? yes. Is location a regular or exception to spacing rule? regular.

Elevation of ground above sea level Est. ~~5850'~~ 5547 feet. 5585 is closer

All depth measurements taken from top of Kelly Bushing (Derrick, floor, Rotary Table or Kelly Bushing) which is 10 feet above the ground.

PROPOSED CASING PROGRAM

Size of Casing Inches A.P.I.	Weight	Grade & Type		Top	Bottom	Cementing Depths
8 5/8"	28#			G.L.	150'	150'
5 1/2"	14#	H-40	ST&C	G.L.	3500'	3500'

Intended Zone or Zones of completion:

Name	Perforated Interval
Wildcat, will complete in any productiv e zone.	

AFFIDAVIT:

I hereby certify under the penalty of perjury, that the information contained and statements herein made are to the best of my knowledge and belief, true, correct and complete.

Kerr-McGee Oil Industries, Inc.
(Applicant)

By [signature]

Application approved this 28 day of ~~July~~ August 1958 JCR

OK 8-28-58 Date

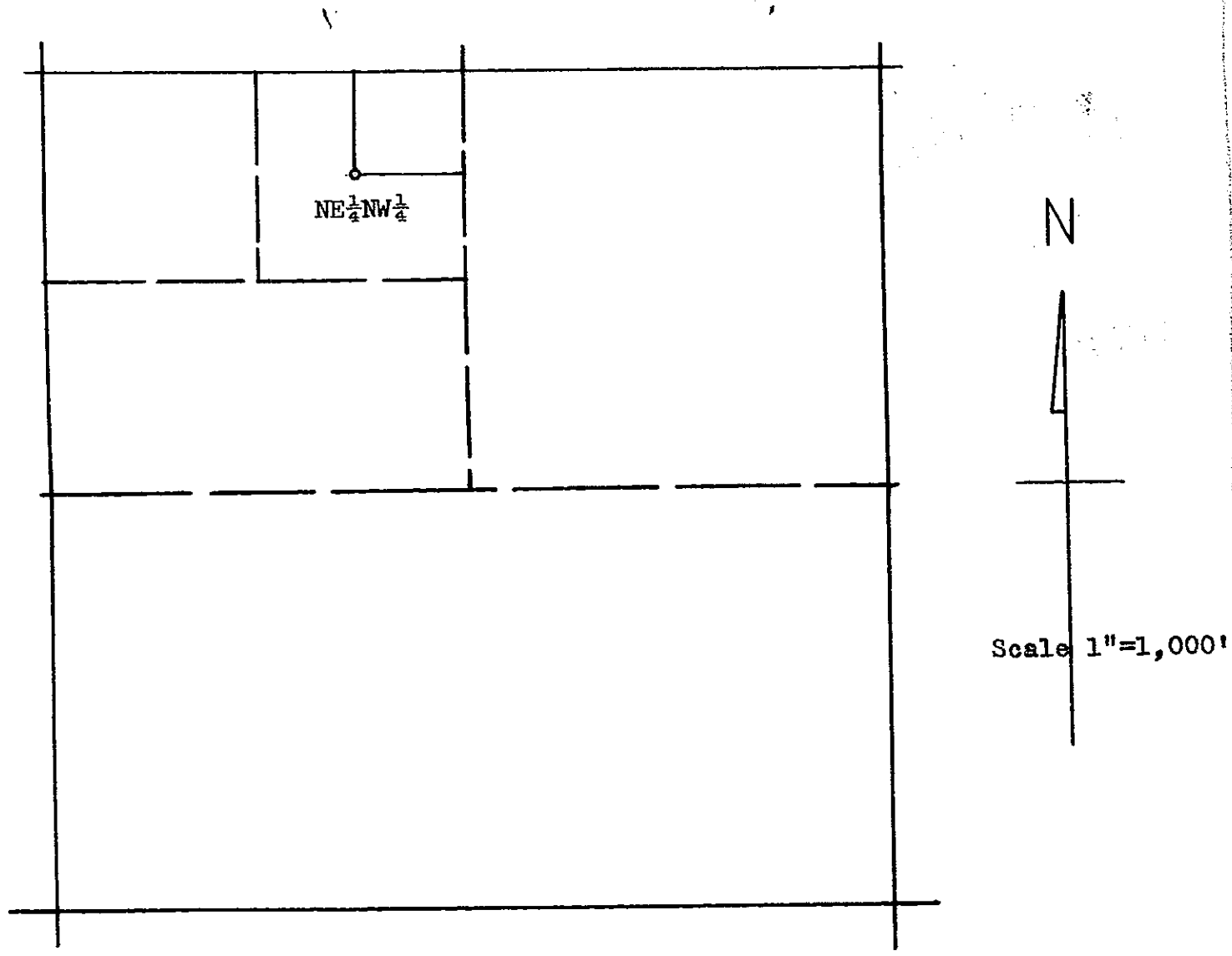
[signature]
State Land Commissioner

Permit No. 57

RECEIVED
JUL 28 1955
STATE LAND

1 1 4 5 4

KERR-MCGEE INDUSTRIES, INC. HORTENSTINE



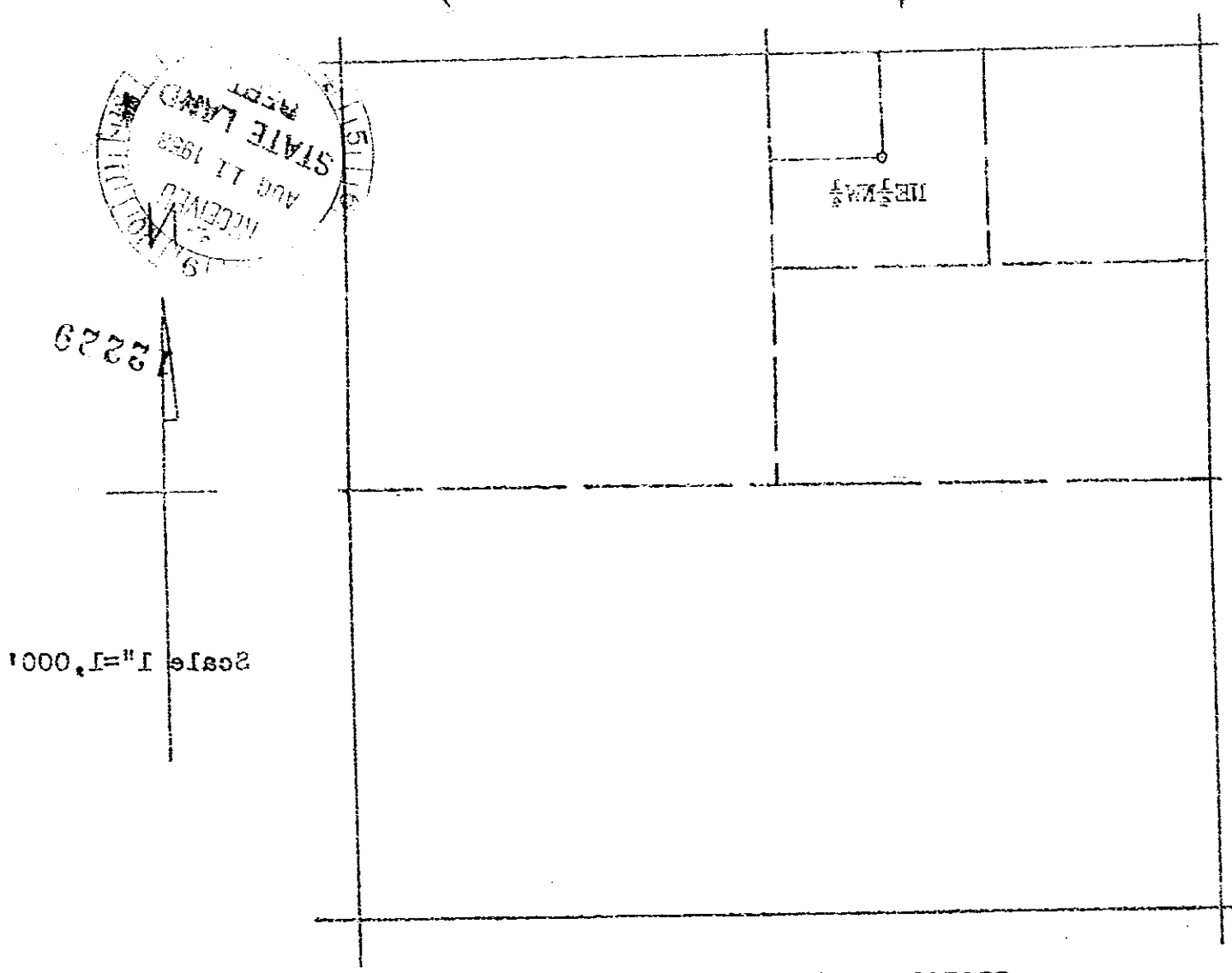
PROPOSED OIL WELL LOCATION
at the SW corner of the NE¼NE¼
of the NW¼, Section 23, T18N,
R25E, G&SRB&M Apache County,
Arizona.

Surveyed for Otto Barton
August 2, 1958

Surveyed by: [signature]

Registered Professional Engineer (Highway)
CERTIFICATE EXPIRES
LACY C.
GREER
DEC. 31, 1958
ARIZONA, U.S.A.

57

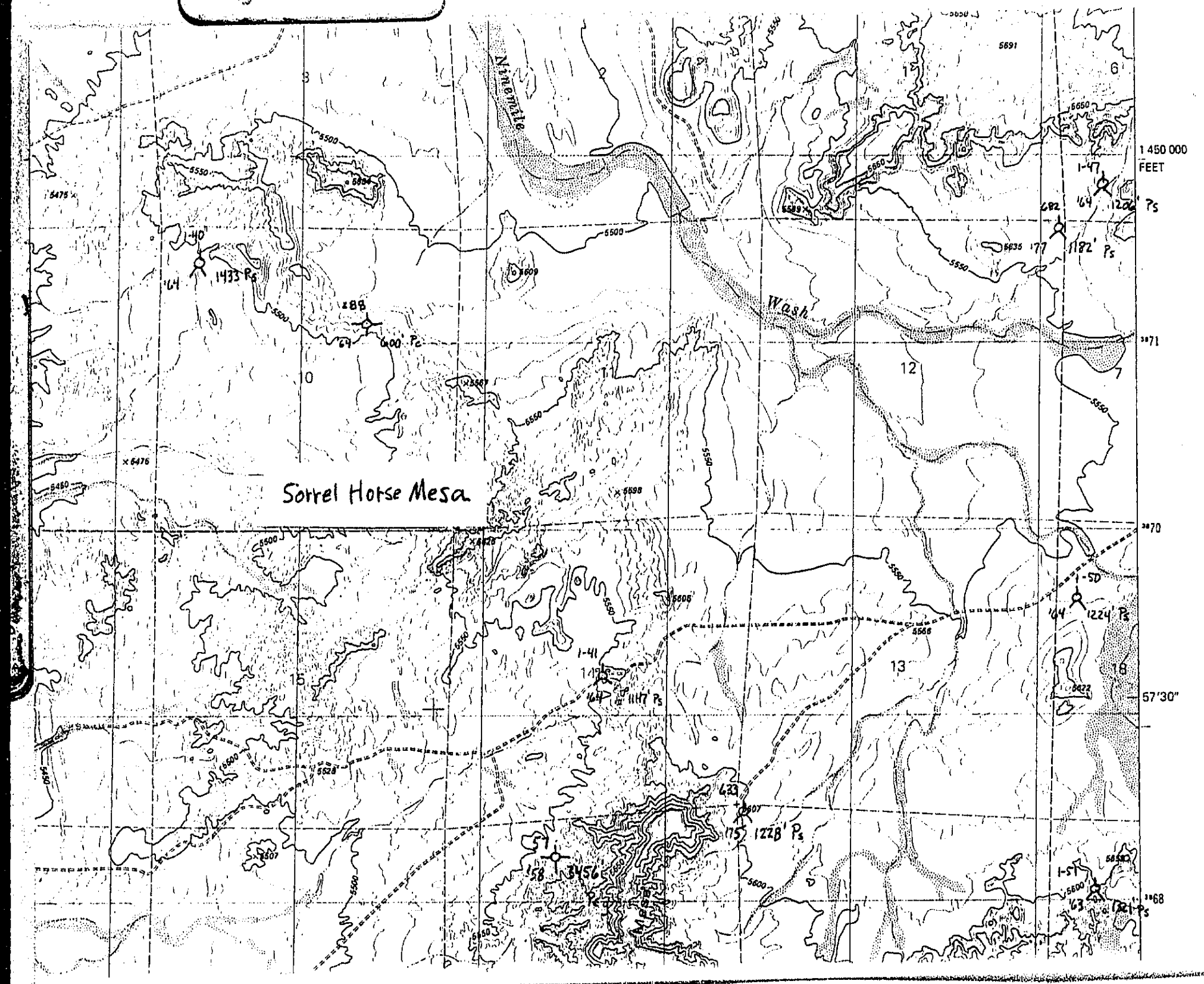


PROPOSED OIL WELL LOCATION
at the SW corner of the NE¼NE¼
of the NW¼, Section 23, T18N,
R25E, G&SRB&M Apache County,
Arizona.

Surveyed for Otto Barton
August 2, 1958

Surveyed by:

LACY C.
GREER


Sorrel Horse Mesa
Ninemile
Wash
1 450 000
FEET
57'30"
1-47
1-40
1-50
1-41
1-57
1433 Ps
1182' Ps
1224' Ps
1117 Ps
1228' Ps
1221' Ps
3456
600' Pc

Operator KERR MC GEE ~~OIL~~ ~~INDUSTRIES INC.~~ Corporation

Bond Company Insurance Co. of N. America Amount 25,000

Bond No. M 41 95 25 (~~KM528~~) Date Approved 10-28-65

Permits covered by this bond:

10	386	417
36	389	418
37	390	419
38	391	420
39	392	422
57	396	426
63	397	427
64	398	441
142	399	445
238	402	446 → see this file
~~303~~	403	
90	404	
91	405	
349	406	
303	407	
377	408	
378	409	
379	410	
380	411	
381	413	
384	414	
385	416	

CANCELLED

DATE 10-24-68

superseded by
American Casualty Co. Bond
$25,000
#5471020-52

Operator Kerr-McGee Industries, Inc.

Bond Company Indemnity Ins. Co. of North Ame Amount $10,000

Bond No. [redacted] M 246435 KM146 Date Approved 8-1-60

Permits covered by this bond:

~~10~~ See this file

~~39~~

142

~~57~~

~~63~~

90

~~64~~

238

~~36~~

~~37~~

~~38~~

91

303

Now covered by bond # M 41 95 25

CANCELLED

DATE 10-28-65

April 16, 1964

Mr. Carl Hickerson
Mesquite Gas Products, Inc.
P. O. Box 423
Odessa, Texas

Re: Electric Log
Kerr-McGee Hortenstein #1 Fee
Section 23-T18N-R25E.

Dear Mr. Hickerson:

In reply to your inquiry of April 3rd regarding electric log on above, please be advised log may be obtained from the following:

Rocky Mountain Well Log Service
1753 Champa Street
Denver, Colorado
Phone: AMherst 6-0588

Rocky Mountain Well Log Service
1407 Ross Avenue
Dallas, Texas
Phone: RIverside 2-6196

We trust this will be of help to you. If we can be of any further service to you, please do not hesitate to ask.

Very truly yours,

John K. Petty

JKP/mkc

57

John please reply JB

MESQUITE GAS PRODUCTS, INC.
PHONE MUTUAL 4-6361 P. O. BOX [redacted] 423
[redacted]
Odessa, Texas

April 3, 1964

Arizona Oil & Gas Conservation Commission
3500 North Central Avenue
Phoenix, Arizona

Attention Mr. Keith Walden

Gentlemen:

In your publication, "Oil, Gas and Helium in Arizona," I note that an electric log is supposed to be available on the Kerr-McGee Hortenstein #1 Fee located in Section 23, T18N-25E.

If you have a copy of this log or can give me information as to where it can be obtained, I would appreciate the courtesy.

Sincerely,

Carl Hickerson

Carl Hickerson

CH:pb

Write to West Texas Electric Log Co.
Dallas Texas or
Rocky Mtn Well Log Co
57 Denver

6 February 1961
Sunray, Texas

Mr. D. A. Jerome
Executive Secretary
Oil and Gas Conservation Commission
State of Arizona

Dear Sir:

In reply to your letter dated January 30, 1961 requesting logs on Hortenstine No. 1 and 2 wells in Apache County. We do not have extra copies available in this office and I am referring this matter to Mr. M.H. Vaughn, Kerr-McGee Oil Industries, Inc., Geological Department, Globe News Building, Amarillo, Texas.

Mr. Vaughn has assured me that the information you requested will be mailed today.

Yours very truly,

Otto C. Barton
Div. Prod. Supt.
Kerr-McGee Oil Industries, Inc.
Sunray, Texas

OCB/d
cc-MH Vaughn w/copy of letter
Harry Hanna w/orig. of letter

57

January 30, 1961

Mr. Otto Barton
Kerr-McGee Oil Industries, Inc.
District Gas Superintendent
P. O. Box 337
Sunray, Texas

Dear Mr. Barton:

Please send us full logs on Hortenstine #1, Sec. 23, T. 18N, R. 25E, in Apache County, Arizona. We should like all electric logs on Hortenstine I and 2, as it appears we do not have them in our file. If a strip log was made by the geologist, we would appreciate receiving a copy of that also.

Thank you for your prompt attention to this matter.

Yours very truly,

D. A. Jerome
Executive Secretary

ew

57

August 9, 1960

Mr. W. F. Charlton
208 Village Lane
Colma, California

Dear Mr. Charlton:

In reply to your letter of August 7, 1960, I can give you the following information concerning the Hortenstein #1 and #2 wells drilled on 9 Mile Anticline by Kerr-McGee Oil Industries Inc. -

Hortenstein #1 - Total Depth 3456 Ft.; Plugged and Abandoned September 18, 1958; top of the Coconino 618 ft.; Coconino carried salt water, no shows reported in the well; elevation ground level 5587 ft.

Hortenstein #2 - Completed September 15, 1958; total depth 540 ft.; E-log reached 526 ft. It appears drilling stopped at the top of the Coconino. Well is reported dry. Elevation ground level 5499 ft.

I sincerely hope this information will aid you. You may be able to obtain the Electric-logs from Kerr-McGee or Petroleum Information (P.O. Box 2612, Denver, Colorado), or Four Corners Well Log Service, in Durango.

Very truly yours,

W. F. Maule
Petroleum Engineer

WFM/ew

57

208 Village Lane
Colma, Calif
8-7-'60

Mr. W.F. Maule Pet. Eng.
O & G Conservation Comm.
3500 N. Central,
Phoenix, Ariz.

Dear Sir:

I am taking advantage of your offer in letter dated 7-7-60 regarding specific information.

The wells which I request information on are 1 Hortenstein NENW 23-18N-25E & 2 Hortenstein NESE 31-18N-25E both wells drilled in the Nine Mile Anticline, Apache County by Kerr-McGee Oil Ind. Inc. Both of these wells were tight holes but believe the time has expired by now because the wells were drilled over six months ago.

I will appreciate this information very much. We have two 1/4 Sections on lease in the vicinity.

Yours truly
W.F. Charlton

W.F. Charlton.

57

July 7th, 1960

Mr. W. F. Charlton
208 Village Lane
Colma, California

Dear Mr. Charlton:

This office does not publish a regular report of drilling and development of oil wells in the State of Arizona. We do, from time to time, recap the activity which is published in the various trade journals. We can and do answer specific questions regarding a well or an area. I believe the information you desire could be most completely found in the Arizona Oil Report published by Hungiville-Ewing Oil Investments, Inc., Suite 333, 3500 North Central Avenue, Phoenix, Arizona. I believe if you will contact them, they will furnish you with a copy of their bi-weekly report and inform you of the monthly or yearly cost.

If we can help you with specifics, please call.

Yours very truly,

W. F. Maule
Petroleum Engineer

WFM/ew

57

208 Village Lane
Colma, Calif.
7-4-60

Commissioner
O. & G. Conser. Comm.
3500 N. Central Ave
Phoenix, Arizona

Dear Sir:

Mr D.W. Hamilton & I have several O & G leases in Arizona and would like to be added to your mailing list, to receive information, regarding the drilling & results of drilling, in your state.

We would be glad to pay a reasonable fee for this information. We have leases in Apache, Navajo, Mohave & Cochise Counties.

Yours truly,
W.F. Charlton
W.F. Charlton.

57

March 26, 1959

Kerr-McGee Oil Industries, Inc.,
Box 337
Sunray, Texas

Attention: Otto C. Barton,
District Gas Superintendent

Dear Mr. Barton:

This is to acknowledge receipt of the sets of samples from your Hortenstine No. 1 and No. 2, and the Reese No. 1 in Apache County, Arizona.

Thank you very much for your cooperation.

Very truly yours,

STATE LAND COMMISSIONER

Frederick C. Ryan,
Supervisor,
Oil and Gas Conservation

FCR:mb

57

Sunray, Texas
21 March 1959

Mr. Frederick C. Ryan, Supervisor
State Land Department
State of Arizona
Phoenix, Arizona

Dear Sir:

At the request of Mr. M.H. Vaughn, Geologist for Kerr-McGee Oil Industries, Inc., Amarillo, Texas, I have shipped to your attention complete sets of samples from the Hortenstine No. 1, No. 2 and the Reese No. 1 wells in Apache County, Arizona. These samples are seperated and in order, shipped from Sunray, Texas, by Dumas Motor Freight yesterday in two packages and should arrive in Phoenix, Monday. If it is convenient to you I would appreciate an acknowledgement of their receipt.

Yours truly,

Kerr-McGee Oil Industries, Inc.

Otto C. Barton
District Gas Supt.
Box 337
Sunray, Texas

OCB-m

cc: M.H. Vaughn
B.G. Taylor

4595

57

February 27, 1959 - 3:00 P.M.

Otto Barton
Kerr-McGee
Box 337
Sunray, Texas
Ph. Wilson 8-1122 - Residence: Wilson 8-2491

The Kerr-McGee Company would like to drill two STRAT tests on the Pinta Structure.

Total depth: 1100'; 4½" hole, no casing. Just for geological purposes. Will not produce from either strat test.

Locations:

NWNW; 36, T. 20 N., 26 E.

SESE; 32, T. 20 N., R. 26E.

Wish to call them: Kerr-McGee Oil Ind. Inc., No.1 - State Strat
Kerr-McGee Oil Ind. Inc., No.2 - State Strat

Wish to start and have everything ready to go by March 9th.

We are to send him 25-30 forms for O&G Intent to Drill.

Mr. Barton asked about the $25.00 to be paid on a strat test. I told him that we treated them just as if it were an intent to drill. He believes the elevation would be the same as the one in section 35, which is 5732'.

I questioned him about the surface leaseholder --- if he knew who it was, and he said he believed them to be Spurlock and Reese. (These tract on our Township plat). He asked if there had been any trouble concerning these grazing leaseholders, and I told him as far as I know, (nothing) He said that he left the locations in good faith with both leaseholders.

He also stated that the samples for the 2 Hortenstine wells and the Reese well will be shipped here.

Logs from U.S.G.S.

57

The general policy of this Department regarding ingress and egress of oil and gas operating companies

5.38
7
$37.66

affry

80.3
640 | 51,415.0
5120
2150

37.66
80.3
11298
30128
3,024.098

3527
80.3
10581
28216
2832.181

51415
37.66
308490
308490
359905
154245
8.90

KERR-McGEE OIL INDUSTRIES, INC.

Kerr-McGee Building • Oklahoma City 2, Oklahoma

Sunray, Texas
17 October 1958

15571

RECEIVED
OCT 20 1958
STATE LAND DEPT.

Frederick C. Ryan, Supervisor
State Land Department
State of Arizona
Phoenix, Arizona

Dear Sir:

Attached please find 4 copies each of the following forms listed below:

Hortenstine No. 1, Form O&G 52, Well Completion Report
Hortenstine No. 2, Form O&G 52, Well Completion Report
Reese No. 1, Form O&G 52, Well Completion Report

When these forms have been approved, please return the surplus copies to this office. Thank you.

Yours truly,

Kerr-McGee Oil Industries, Inc.

Otto C. Barton
District Gas Supt.
Box 337
Sunray, Texas

OCB-m

RECEIVED
OCT 20 1958
STATE LAND DEPT.

57

KERR-McGEE OIL INDUSTRIES, INC.

Kerr-McGee Building • Oklahoma City 2, Oklahoma

Sunray, Texas
7 October 1958

Frederick C. Ryan, Supervisor
State Land Department
State of Arizona
Phoenix, Arizona

Dear Sir:

Attached please find 3 copies each of the following forms listed below:

Hortenstine No. 2, Form O&G 55, Application to Plug
Reese No. 1 , Form O&G 55, Application to Plug
Hortenstine No. 1, Form O&G 56, Plugging Record
Hortenstine No. 2, Form O&G 56, Plugging Record
Reese No. 1 , Form O&G 56, Plugging Record

When these forms have been approved, please return the surplus copies to this office. Thank you.

Yours truly,

Kerr-McGee Oil Industries, Inc.

Otto C. Barton

Otto C. Barton
District Supt.
Box 337
Sunray, Texas

15062

57

Telephone Conversation September 5, 1958 Re: Hortenstine #1
3 - way - Barton at Navajo; PWJ and FCR, office.

Barton gave TD of hole at a little under 2600'. Were considering abandonment because of salt water drill-stem test in Coconino. Surface casing is 177' of 10-3/4" cemented and circulated with 350 sax.

Tops: Supai 995'; Coconino 618'.

Agreed plugging: Use Baker plugs/50 ft. of cement at:

1. Top of Red Wall
2. Top of Supai.
3. Top of Coconino.
4. 15' (lineal) surface.

Barton will contact Phil in case of emergency. They want to plug this hole and skid the rig to Hortenstine #2. They will probably get oral ok, then follow-up with formal application.

57

September 4, 1958.

Kerr-McGee Oil Industries, Inc.
Box 337
Sunroy, Texas

Attention: Mr. Otto C. Barton

Dear Mr. Barton:

This is to acknowledge receipt of certified plats and corrected elevations for the location of Kerr-McGee Oil Industries, Inc. - Hortenstine #1, Section 23, Township 18 N, Range 25 E, Apache County, Arizona.

We are pleased to transmit herewith approved copies of Notice of Intention to Drill which constitute your Permit No. 57, dated August 28, 1958.

Thank you for your cooperation. If we may be of further assistance, please call on us.

Yours very truly,

STATE LAND COMMISSIONER

By: Frederick C. Ryan
Supervisor
Oil & Gas Conservation

FCR:sw
encl.

57

August 26, 1958

Kerr-McGee Oil Industries Inc.,
% Otto Barton,
Navajo,
Arizona.

Gentlemen:

This will serve to advise you and certify that, at the request of Mr. Otto Barton, an elevation of 5587 was established by me at your drilling site South West from Navajo on August 24, 1958.

This was accomplished with an altimeter which can be read within five (5) feet of a true elevation. The instrument was checked before and after determining the elevation at your drilling site with a known elevation at Navajo, Arizona. Therefore, the elevation should be correct within the five (5) feet as stated above.

Signed: Lacy Greer
Lacy C. Greer, Reg. Prof.Engr.

Mr. F.C. Ryan:
The Elevation above established for Kerr McGee Oil Ind. Inc. - Hortenstine #1 - Located in C-NE¼-NW¼ Sec 23-18 North-25 East - Apache County Arizona. Will you please apply this elevation of 5587 G.L. and 5597 Kelly Bushing to our application for Permit to Drill.

Yours very truly
Otto C Barton -
Navajo Ariz.

57

August 6, 1958

Kerr-McGee Oil Industries, Inc.,
Box 337
Sunray, Texas

Attention: Otto Barton, District Superintendent

Dear Mr. Barton:

This is to acknowledge receipt of Notice of Intention to Drill and permit for covering your Kerr-McGee-Hortenstine #1, located in Section 23, 18 N., 25 E., Apache County, Arizona.

Tentative approval of the permit as given orally by Mrs. Bates of this office is confirmed, with the understanding that a more accurate elevation and certified plat of location will be forthcoming at an early date.

Upon receipt of the above, permit will be formally approved and an executed copy furnished your office.

If we can be of future service to you, do not hesitate to call on us.

Very truly yours,

STATE LAND COMMISSIONER

By: Frederick C. Ryan,
Supervisor,
Oil & Gas Conservation

FCR:mb
Encl.

57

August 6, 1958

Kerr-McGee Oil Industries, Inc.,
Box 337
Sunray, Texas

Attention: Otto Barton, District Superintendent

Dear Mr. Barton:

This is to acknowledge receipt of Notice of Intention to Drill and permit for covering your Kerr-McGee-Hortenstine #1, located in Section 23, 18 N., 23 E., Apache County, Arizona.

Tentative approval of the permit as given orally by Mrs. Bates of this office is confirmed, with the understanding that a more accurate elevation and certified plat of location will be forthcoming at an early date.

Upon receipt of the above, permit will be formally approved and an executed copy furnished your office.

If we can be of future service to you, do not hesitate to call on us.

Very truly yours,

STATE LAND COMMISSIONER

By: Frederick C. Ryan,
Supervisor,
Oil & Gas Conservation

FCR:mb
Encl.

57

KERR-McGEE OIL INDUSTRIES, INC.

Kerr-McGee Building • Oklahoma City 2, Oklahoma

Sunray, Texas
6 August 1958

Attention: Mr. Duncan
State Land Department
Pheonix, Arizona

Dear Sir:

Attached please find 2 copies of plat for the Kerr-McGee Oil Industries, Inc. Hortenstine #1, located in Section 23-18N-25E, Apache County, Arizona

Yours truly,

Otto C. Barton

OCB-m

12229

RECEIVED
AUG 11 1958
STATE LAND
DEPT.

57

Test Oil Well Set; 2 Others Planned

Arizona Republic August 4, 1958

Two new Arizona wildcat oil drilling operations are in prospect and a third is to be spudded in within the next few days.

Kerr-McGee Oil Industries, Inc., of Oklahoma City, one of the largest of the nation's independents, is reported receiving bids from contractors with rotary tools for the drilling of a test well 11 miles south and five miles west of its potential helium-producing holdings near Navajo in Apache County.

This test, to be known as Kerr-McGee-Hortenstein No. 1, will be in Sect. 23, T-18-N, R-25-E, along the so-called "Nine-Mile Anticline" geologized by Dorsey Hager.

IT IS reported this test will be to basement at about 3,500 feet.

Main objective is for additional helium-nitrogen reserves to augment Kerr-McGee's five-well field at Navajo, just south of Rio Puerco, where it is said that 25 million cubic feet of helium daily now is obtainable. Helium is expected at about the 1,000-foot level, with possibility of oil and/or gas in lower formations such as Pennsylvanian, Mississippian, and Devonian-Cambrian.

Oil operators in this [illegible] addition to Kerr-McGee [illegible] sociates, include Sunray [illegible] tinent Oil Co., Fred Blair [illegible] Townsend and Associates, Valen Oil & Minerals Corp., and Hu[illegible]ville-Ewing.

THIS TEST is 30 miles [illegible] where Beaoil Oil Co. pre[illegible] drilling near Holbrook.

Site for a second [illegible] test in the Holbrook Basin is reported to have been selected by Navajo Oil Co. in Sect. 33, T-14-N, R-20-E, about nine miles west and four miles north of Snowflake in Navajo County.

The Navajo Oil test will be in the Holbrook anticline, where in past years several wildcats have reported shows of both oil and gas.

Drilling is to start early this week by Tony Lyons and associates on their wildcats south of Short Creek in northern Mohave County.

ALDRICH & Stroud, drilling contractors of Odessa, Tex., were moving cable-tool rig and equipment to the site last week.

Lyons, with Harry Weaver of Texas and C. O. Harrison of Los Angeles, control large acreages in the Yellowstone Springs area, where the test is [illegible] be made through the Cocon[illegible] sandstone and, probably, to b[illegible]

Offsetting acreag[illegible] the [illegible] test includes a 10[illegible] acre b[illegible] held by Sun Oil [illegible] Western Drilling Co., Frankl[illegible] Oil Co. of Dallas, Valen Oil [illegible] Corp., and Hungiville-Ewing of Phoenix.

July 30, 1958

Otto C. Barton of Kerr-McGee Oil Industries in Duncan's office when I came in this a.m.

We went over his permit. I questioned his elevation and said I thought it should be 5500', He said there was about 200' difference between this well and those drilled on the Pinta structure. They did not have a survey made as yet, and as soon as it was complete, they would send us an amended elevation and a certified plat of this new location.

Mr. Barton may be reached at the Navajo Courts, Navajo, Arizona Telephone Navajo 1 (until August 10th) Any pertinent questions we have, always send direct to Sunray office. Phone Wilson 8-1122. Or call his Secretary, Mickey Little. Is staying at the Adams Hotel, will check out about 4 p.m. if plane reservations are confirmed.

His title is: District Gas Superintendent, Pan Handle of Texas.

I also questioned the 640 as drilling unit. He said it was a wildcat, were going after gas, which in that case would be cricket. If oil test, then they would come in for hearing in order to comply with regulations.

At his request, sent to Sunray office, forms 50, 51, 52, 55, and 56 & 63.

He also told me that Paul Sell owns the surface on this well, and Hortenstine owns the mineral. It will be called the Kerr-McGee Oil Industries, Hortenstine #1. Kerr-Mc has oil and gas lease.

57

KERR-McGEE OIL INDUSTRIES, INC.
KERR-McGEE BUILDING
OKLAHOMA CITY 2, OKLAHOMA

Sunray, Texas
24 July 1958

State Land Department
State of Arizona
Phoenix, Arizona

Attention: Mr. Duncan

Dear Sir:

We failed to enclose plat of location with request for Permit to Drill our Hortenstine #1 well. Attached please find 4 copies of sketch. Certified plat will be furnished when location is staked.

Yours truly,

Kerr-McGee Oil Industries, Inc.

Otto C. Barton

Otto C. Barton

OCB-m

11502

RECEIVED
JUL 28 1958
STATE LAND DEPT.

57

KERR-McGEE OIL INDUSTRIES, INC.
KERR-McGEE BUILDING
OKLAHOMA CITY 2, OKLAHOMA

Sunray, Texas
23 July 1958

State Land Department
Attention: Mr. Duncan
Phoenix, Arizona

Dear Sir:

Enclosed please find 4 copies of Form OG 51, Notice Of Intention To Drill New Well for the Hortenstine #1, located in Section 23-18N-25E, Apache County, Arizona.

Enclosed is a draft for $25.00 covering the filing fees. Please insert one copy of the above form in this draft.

When these forms have been approved, please return the surplus copies to this office. Thank you.

Yours truly,

Kerr-McGee Oil Industries, Inc.

Otto C. Barton
Box 337
Sunray, Texas

OCB-m

RECEIVED
JUL 28 1958
STATE LAND DEPT.

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JUL-28-58 52593 • •69793 Mt 25.00

STATE OF ARIZONA
STATE LAND DEPARTMENT
STATE OFFICE BUILDING — PHOENIX, ARIZONA

STATEMENT RECEIPT OFFICE COPY

Kerr-McGee Oil Industries, Inc.,
Box 337
Sunray, Texas

SECTION	TOWNSHIP	RANGE
23	18N	25E

KIND ENTRY	LEASE – REFERENCE NO.
22	57

ACCOUNT NO. GRANT	FUND	SUB	CARRYING CAPACITY OR STATIC WATER LEVEL	SEE OTHER SIDE FOR CODE DESCRIPTION: LAND CODE	CROP CODE	WATER CODE	BILLING DESCRIPTION	RATE	ACRES	$ AMOUNT
14	401	35					Drilling Permit Application			25 00

BILLING PERIOD FROM MO.	DAY	YR.	TO MO.	DAY	YR.

DATE BILLED MO.	DAY	YR.
7	28	58

DATE DUE MO.	DAY	YR.

TOTAL ACRES

TOTAL AMOUNT $ 25 00

IF PAYMENT IS MADE ON OR BEFORE THIS DATE → PAY THIS AMOUNT

SEE OTHER SIDE FOR LAW PERTAINING TO PENALTY AND INTEREST — A. C. 1939, 11-307

RENTAL AMOUNT SUBJECT TO PENALTY AND INTEREST IF NOT PAID ON OR BEFORE DATE DUE . . . ($)

5% PENALTY OF RENTAL AMOUNT . . . . . $

TOTAL RENTAL AMOUNT PLUS PENALTY . . . . ($)

10% INTEREST PER ANNUM OF RENTAL AMOUNT AND PENALTY — NUMBER OF DAYS DELINQUENT ( ) $

TOTAL PENALTY AND INTEREST $

TOTAL AMOUNT DUE INCLUDING PENALTY AND INTEREST . . . . . $

CASH RECEIVED $

BALANCE DUE OR OVERPAYMENT $

PENALTY AND INTEREST	DISTRIBUTION
	$