

FILE NOTATIONS

Entered in NID File	<u>✓</u>	Checked by Chief	_____
Entered On S R Sheet	<u>✓</u>	Copy NID to Field Office	<u>✓</u>
Location Map Pinned	_____	Approval Letter	<u>✓</u>
Card Indexed	<u>✓</u>	Disapproval Letter	_____
I W R for State or Fee Land	_____		

COMPLETION DATA:

Date Well Completed	<u>11-23-60</u>	Location Inspected	<u>5-3-61</u>
OW_____	WW_____	TA_____	
GW_____	OS_____	PA <u>✓</u>	
		Bond released	_____
		State of Fee Land	_____

LOGS FILED

Driller's Log 12-60

Electric Logs (No.) 2

E_____	I_____	E-I <u>✓</u>	GR_____	GR-N <u>✓</u>	Micro_____
Lat_____	Mi-L_____	Sonic_____	Others_____		

		X	

(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Land Office Utah
Lease No. Utah 09590
Unit Grand Gulch

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL.....	<input checked="" type="checkbox"/>	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 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)

Grand Gulch Farmington, New Mexico August 22, 1960

Well No. 1 is located 675 ft. from [N] line and 2080 ft. from [E] line of sec. 7

NW/4 NE/4 of Section 7 T-39S R-15E S. L. M.
(1/4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)

Wildcat San Juan Utah
(Field) (County or Subdivision) (State or Territory)

The elevation of the derrick floor above sea level is _____ ft. (To be reported later)

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)

Grand Gulch Well No. 1 - we propose to drill the above well to an approximate total depth of 4000' with rotary tools to test and develop the Paradox and Devonian zones.

The following casing program proposed.

Size	Depth	Cement	Remarks
9-5/8"	500'	300	Neat - Circulate
5-1/2"	4000'	6% gel cement with 50 sacks neat cement on bottom.	Sufficient cement will be used to bring top of cement 300-500 above top of prospective pay zone.

Copies of location plat are attached. A copy of any survey taken will be submitted upon completion of well.

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

Company Pan American Petroleum Corporation

Address Box 480

Farmington, New Mexico

Attn: L. O. Speer, Jr.

By [Signature]

Title Area Superintendent

COMPANY Pan American Petroleum Corporation

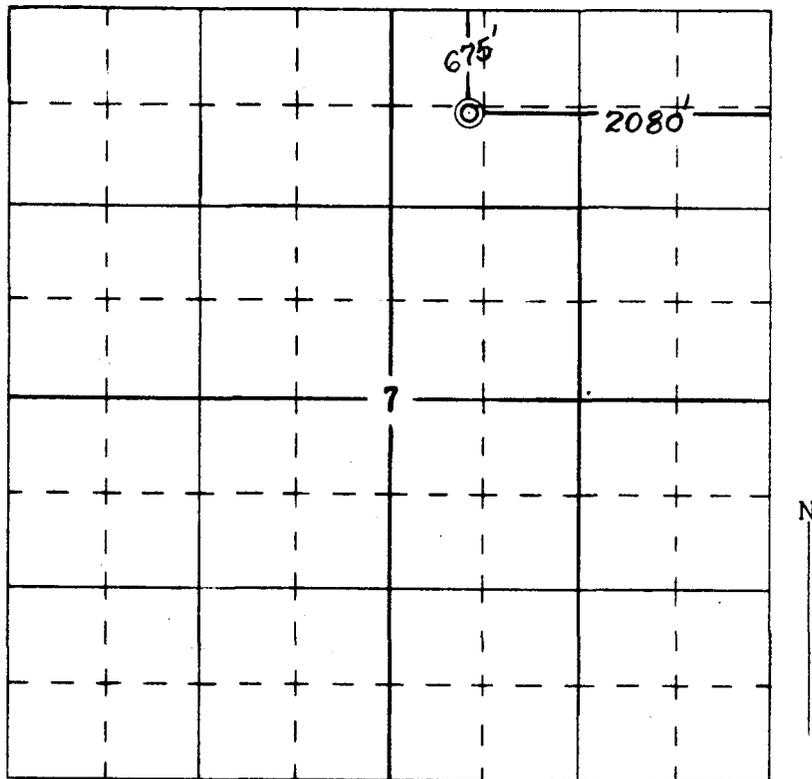
Well Name & No. Grand Gulch No. 1 Lease No. _____

Location 675' from the North line and 2080' from the East line.

Being in NW 1/4

Sec. 7, T39 N., R15 E., S40 N., San Juan County Utah

Ground Elevation _____



Scale -- 4 inches equals 1 mile

Surveyed August 13, 19 60

This is to certify that the above plat was prepared from field notes of actual surveys made by me or under my supervision and that the same are true and correct to the best of my knowledge and belief.



Ernest V. Echohawk

Ernest V. Echohawk
Registered Land Surveyor
N. M. Reg. #1545

Practicing in Utah under Laws
regulating Professional Engrs.
and Land Surveyors, Utah Code 1953,
Title 58-10-16

Four States Oil Field Surveys
Farmington, New Mexico

RLL

Copy to Harvey
Oct 3, '60

September 30, 1960

Pan American Petroleum Corp.
Box 480
Farmington, New Mexico

Attention: L. O. Speer, Jr., Area Supt.

Gentlemen:

This is to acknowledge receipt of your notice of intention to drill Well No. Grand Gulch Unit #1, which is to be located 675 feet from the north line and 2080 feet from the east line of Section 7, Township 39 South, Range 15 East, SIM, San Juan County, Utah.

Because we have not as yet received information as to whether this unit has been approved or not, we are hereby granting our approval to drill said well.

This approval terminates within 90 days if the above mentioned well has not been spudded in within said period.

Very truly yours,

OIL & GAS CONSERVATION COMMISSION

CLEON B. FREIGHT,
EXECUTIVE SECRETARY

CBF:awg
cc: Jerry W. Long, Dist. Eng.
U. S. Geological Survey
Durango, Colorado

		X

(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Land Office Utah
Lease No. Utah 09590
Unit Grand Gulch

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)

Grand Gulch

Farmington, New Mexico October 31, 1960

Well No. 1 is located 675 ft. from N line and 2080 ft. from E line of sec. 7

NE/4 of Section 7 T-39-S R-15-E SLM
(1/4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)

Wilcox San Juan Utah
(Field) (County or Subdivision) (State or Territory)

The elevation of the derrick floor above sea level is 9042 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)

Spudded 12-1/4" hole October 7, 1960, and drilled to 511'. 9-5/8" casing was set at 511' and cemented with 300 sacks of neat with 2% calcium Chloride mixed in last 200 sacks. Cement circulated. After waiting on cement to set, tested water shut off with 600 psi for 30 minutes with no indication of pressure drop. Reduced hole to 8-1/4" and resumed drilling operations.

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

Company Pan American Petroleum Corporation

Address Box 480
Farmington, N. M.

ORIGINAL SIGNED BY
R. M. Bauer, Jr.

By _____

Title Area Engineer

(SUBMIT IN TRIPLICATE)

Land Office Utah
Lease No. Utah 09590
Unit Grand Gulch

	X	

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

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 RE-DRILLING OR REPAIR.....	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE.....		SUBSEQUENT REPORT OF ABANDONMENT.....	
NOTICE OF INTENTION TO PULL OR ALTER CASING.....	X	SUPPLEMENTARY WELL HISTORY.....	
NOTICE OF INTENTION TO ABANDON WELL.....			

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

Grand Gulch

Farmington, New Mexico November 23, 1960

Well No. 1 is located 675 ft. from N line and 2080 ft. from E line of sec. 7
SW/4 NE/4 of Section 7 T-39-S R-15-E S.L.M.
(1/4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)
Wildcat San Juan Utah
(Field) (County or Subdivision) (State or Territory)

The elevation of the derrick floor above sea level is 5042 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)

As a result of not obtaining oil or gas in commercial quantities, we propose to plug and abandon Grand Gulch Well No. 1 as follows:

1. Spot 60 sacks cement plug 3730-3830 across top of Mississippian.
2. Spot 60 sacks cement plug 2520-2620 across top of Paradox.
3. Spot 60 sacks cement plug 1500-1600 across top of Halgaito to isolate shallow lost circulation zones.
4. Spot 20 sacks cement plug 485-535 across base of surface pipe.
5. Spot 5 sacks cement plug 0-10 and erect 4" surface marker.
6. Use mud laden fluid between all plugs.

Verbal approval for above procedure received from Mr. Long to Mr. Bauer November 22, 1960.

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

Company Pan American Petroleum Corporation

Address Box 480
Farmington, New Mexico

Attn: L. O. Speer, Jr.

ORIGINAL SIGNED BY
R. M. Bauer, Jr.

By _____

Title Area Engineer

ang

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LAND OFFICE Utah
LEASE NUMBER Utah 09590
UNIT Grand Gulch

LESSEE'S MONTHLY REPORT OF OPERATIONS

State Utah County San Juan Field Wildcat

The following is a correct report of operations and production (including drilling and producing wells) for the month of November, 1960,

Agent's address Box 480, Farmington, New Mexico Company Pan American Petroleum Corporation

Signed [Signature]

Phone Davis 5-8841 Agent's title Area Superintendent

SEC. AND 1/4 OF 1/4	TWP.	RANGE	WELL NO.	DAYS PRODUCED	BARRELS OF OIL	GRAVITY	CU. FT. OF GAS (In thousands)	GALLONS OF GASOLINE RECOVERED	BARRELS OF WATER (If none, so state)	REMARKS (If drilling, depth; if shut down, cause; date and result of test for gasoline content of gas)
NW NE 7	39S	15E	1	--	Grand Gulch well No. 1 - TD 4000'. As a result of not obtaining oil or gas in commercial quantities, well was plugged and abandoned on November 23, 1960. Dry Hole marker erected. Final Report.					

[Handwritten mark]

NOTE.—There were No runs or sales of oil; No M cu. ft. of gas sold;

No runs or sales of gasoline during the month. (Write "no" where applicable.)

NOTE.—Report on this form is required for each calendar month, regardless of the status of operations, and must be filed in duplicate with the supervisor by the 6th of the succeeding month, unless otherwise directed by the supervisor.

		X	

(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Land Office Utah
Lease No. Utah 09590
Unit Grand Gulch

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 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.....	X
NOTICE OF INTENTION TO ABANDON WELL.....	Result of DST and Cores.....	

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

Grand Gulch

Farmington, New Mexico December 6, 1960

Well No. 1 is located 675 ft. from N line and 2000 ft. from E line of sec. 7
~~SW~~ NW/4 NE/4 of Section 7 T-39-S R-15-E S.L.M.
(1/4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)
Wildcat San Juan Utah
(Field) (County or Subdivision) (State or Territory)

The elevation of the derrick floor above sea level is 9043 ft. (RDB)

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)

DST NO. 1. - 2888-3073 Tool open 1-1/2 hours - no blow. Recovered 55' mud, no show. Bottom hole shut in pressure initial 860, final 580. Bottom hole pressure flowing 140, hydrostatic 1530.

DST NO. 2. - 3790-4000 Tool open 1-1/2 hours - good blow air immediately, died 43 minutes, recovered 1130' drilling mud, and 1170' mud cut water. Bottom hole pressure flowing initial 695, final 1140. Bottom hole pressure shut in 1140 after 45 minutes. Hydrostatic initial 2011, final 1995.

See reverse side for cores.

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

Company Pan American Petroleum Corporation

Address Box 480

Farmington, New Mexico

Attn: L. O. Speer, Jr.

ORIGINAL SIGNED BY

R. M. Bauer, Jr.

By _____

Title Area Engineer

		X

(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Land Office Utah
Lease No. Utah 09590
Unit Grand Gulch

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 RE-DRILLING OR REPAIR.....	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE.....	SUBSEQUENT REPORT OF ABANDONMENT.....	X
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)

Grand Gulch

Farmington, New Mexico December 6, 1960

Well No. 1 is located 675 ft. from N line and 2080 ft. from E line of sec. 7

NW/4 NE/4 of Section 7 T-39-S R-15-E S.L.M.
(X Sec. and Sec. No.) (Twp.) (Range) (Meridian)
Wildcat San Juan Utah
(Field) (County or Subdivision) (State or Territory)

The elevation of the derrick floor above sea level is 5043 ft. (RDB)

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)

As a result of not obtaining oil or gas in commercial quantities, Grand Gulch Well No. 1 was plugged and abandoned as follows on November 23, 1960:

1. Spotted 60 sack cement plug 3730-3830 across top of Mississippian.
2. Spotted 60 sack cement plug 2520-2620 across top of Paradox.
3. Spotted 60 sack cement plug 1500-1600 across top of Halgaito to isolate shallow lost circulation zones.
4. Spotted 20 sack cement plug 485-535 across base of surface pipe.
5. Spotted 5 sack cement plug 0-10 and erected 4" surface marker.
6. Used mud laden fluid between all plugs.

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

Company Pan American Petroleum Corporation
Address Box 480
Farmington, New Mexico
Attn: L. O. Spear, Jr.

ORIGINAL SIGNED BY
R. M. Bauer, Jr.
By _____
Title Area Engineer

PAN AMERICAN PETROLEUM CORPORATION

P. O. Box 480, Farmington, New Mexico
December 8, 1960

File: H-1239-400.1

Subject: Final Log
Grand Gulch Well No. 1

Utah Oil and Gas Conservation Commission
310 Newhouse Building
10 Exchange Place
Salt Lake City 11, Utah

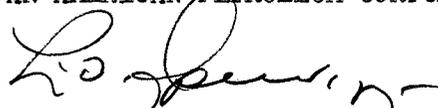
Gentlemen:

We are transmitting herewith two copies of the final log, Form 9-330, Log of Oil or Gas Well, for Grand Gulch Well No. 1, Section 7, T-39-S, R-15-E, Wildcat Field.

Two copies of the electrical log taken on this well will be forwarded under separate cover as soon as received from Schlumberger.

Yours very truly,

PAN AMERICAN PETROLEUM CORPORATION



L. O. Speer, Jr.
Area Superintendent

LJL:ep

Attach.

U.O.C.C. Salt Lake City, Utah

Budget Bureau No. 43-R355.4
Approval expires 12-31-60.

Form 9-380

U. S. LAND OFFICE Utah
SERIAL NUMBER Utah 09590
LEASE OR PERMIT TO PROSPECT Grand Gulch

LOCATE WELL CORRECTLY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company Pan American Petroleum Corporation Address Box 480, Farmington, New Mexico
Lessor or Tract Grand Gulch Field wildcat State Utah
Well No. 1 Sec. 7 T. 39R. 15E Meridian S.L.M. County San Juan

Location 675 ft. N of N Line and 2080 ft. E of N Line of Section 7 Elevation 5043 (RLB)
(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 R. M. Bauer, Jr.

Date December 7, 1960 Title Area Engineer

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

Commenced drilling October 7, 19 60 Finished drilling November 20, 19 60

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from None to _____ No. 4, from _____ to _____
No. 2, from _____ to _____ 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—	
<u>9-5/8"</u>	<u>32.3</u>	<u>8RT</u>	<u>H-40</u>	<u>170'</u>	<u>Guide</u>				<u>Surface</u>
<u>9-5/8"</u>	<u>36</u>	<u>8RT</u>	<u>H-40</u>	<u>60'</u>					
<u>9-5/8"</u>	<u>36</u>	<u>8RT</u>	<u>J-55</u>	<u>70</u>					
<u>9-5/8"</u>	<u>40</u>	<u>8RT</u>	<u>3-80</u>	<u>206'</u>					

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
<u>9-5/8"</u>	<u>511'</u>	<u>300 sacks cement</u>	<u>Halliburton ? plug</u>		

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

FOLD MARK

MUDDING AND CEMENTING RECORD

FOLD MARK

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
9-5/8"	511'	300 sacks cement	Halliburton 2 plug		

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 feet, and from feet to feet

Cable tools were used from 0 feet to 4000 feet, and from feet to feet

DATES

Completed as dry hole wildcat Put to producing, 19.....

Production for the first 24 hours was 60 barrels of fluid of which% was oil;% emulsion;% water; and% sediment. None 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. None

EMPLOYEES

....., Driller Driller

T. S. Wood, Driller A. F. Webster, Driller

A. Y. Old

FORMATION RECORD. W. Flemmons

FROM—	TO—	TOTAL FEET	FORMATION
0	1555	1555	Surface sands and shales.
1555	2046	491	Halgaito
2046	2555	509	Hermosa
2555	2742	187	Paradox
2742	2895	153	Ismay
2895	3072	177	Desert Creek
3072	3208	136	Aksh
3208	3360	152	Barker Creek
3360	3615	255	Lower Hermosa
3615	3775	160	Molas
3775	4000 (TD)	225	Mississippian
			(Tops from E log)

(OVER)

DEC 1

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 re-drilling, 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.

Spotted 12-1/4" hole October 7, 1960, and drilled to 511'. 9-5/8" casing was set at 511' and cemented with 300 sacks of neat with 2% calcium chloride mixed with last 200 sacks. Cement circulated. After waiting on cement to set, tested water shut off with 600 psi for 30 minutes with no indication of pressure drop. Reduced hole to 8-3/4" and resumed drilling operations.

DST No. 1 - 2888-3073 tool open 1-1/2 hours - no blow. Recovered 55' mud, no show. Bottom hole shut in pressure initial 860, final 580, bottom hole pressure flowing 140, hydrostatic 1530.

DST No. 2 - 3790-4000 tool open 1-1/2 hours - good blow air immediately, died 43 minutes, recovered 1130' drilling mud and 1170' mud cut water. Bottom hole pressure flowing initial 695, final 1140. Bottom hole pressure shut in 1140 after 45 minutes. Hydrostatic initial 2011, final 1995.

Core No. 1 3073-3133 Akah Lm. Recovered 60' lime with best fugular porosity 3086-92 - no show.

Core No. 2 3271-3331 Akah Lm. Recovered 60', 13' dolomite and 47' lime, no show, fair to poor porosity 3291-3308 and 3295-3297 bleeding salt water.

Core No. 3 3481-3541 Lower Hermosa. Recovered 60' lime, dolomite, and shale stringers, no show. 6' of scattered porosity through core.

Drilled well to 4000'.

As a result of not obtaining oil or gas in commercial quantities, Grand Gulch Well No. 1 was plugged and abandoned as follows on November 23, 1960:

1. Spotted 60 sack cement plug 3770-3830 across top of Mississippian.
2. Spotted 60 sack cement plug 2520-2620 across top of Paradox.
3. Spotted 60 sack cement plug 1500-1600 across top of Walgaito to isolate shallow lost circulation zones.
4. Spotted 20 sack cement plug 485-535 across base of surface pipe.
5. Spotted 5 sack cement plug 0-10 and erected 4" surface marker.
6. Used mud laden fluid between all plugs.