

8-10-64 material to plug back and re-work

FILE NOTATIONS

Entered in NID File ✓
Entered On S R Sheet ✓
Location Map Pinned ✓
Card Indexed ✓
IWR for State or Fee Land _____

Checked by Chief RLS
Copy NID to Field Office ✓
Approval Letter ✓
Disapproval Letter _____

COMPLETION DATA: 4-12-61

Date Well Completed 6-22-61
OW ✓ WW _____ TA _____
GW _____ GS _____ PA ✓

Location Inspected ✓
Bond released _____
State of Fee Land _____

LOGS FILED

Driller's Log 7-10-61
Electric Logs (No.) 5

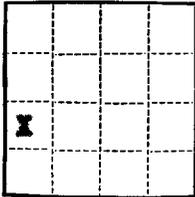
E _____ L _____ EI _____ GR ✓ GR-N ✓ Micro _____
Lat ✓ M-I ✓ Sonic ✓ Others _____

Subsequent Report of Abandonment

Land Office Utah
Lease No. Utah-013976
Unit Salt Wash

(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY



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)

Salt Wash

Farmington, New Mexico December 22, 1960

Well No. 1 is located 1900 ft. from NE line and 660 ft. from W line of sec. 15

NW/4 SW/4 of Section 15 T-23-S R-17-E S.1.M.
(1/4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)

Wildcat Grand 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)

We propose to drill Salt Wash No. 1 with rotary tools to an approximate total depth of 10,500 feet to test the Mississippian and Devonian formations.

The following casing program is planned:

| SIZE | DEPTH | CEMENT | REMARKS |
|---------|---------|---------------|------------------------------|
| 13-3/8" | 950' | 950 sx (est) | Circulate cement to surface. |
| 9-5/8" | 5200' | 600 sx (est) | To be set above salt |
| 5-1/2" | 10,500' | 1000 sx (est) | Production string |

Copies of location plat are attached. A copy of any radioactivity and electrical well surveys run on the well will be submitted upon completion.

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: I. O. Spear, Jr.

ORIGINAL SIGNATURE
R. M. Bauer, Jr.

By _____

Title Area Engineer

COMPANY PAN AMERICAN PETROLEUM CORPORATION

Federal

Well Name & No. Salt Wash No. 1

Lease No. U-013976

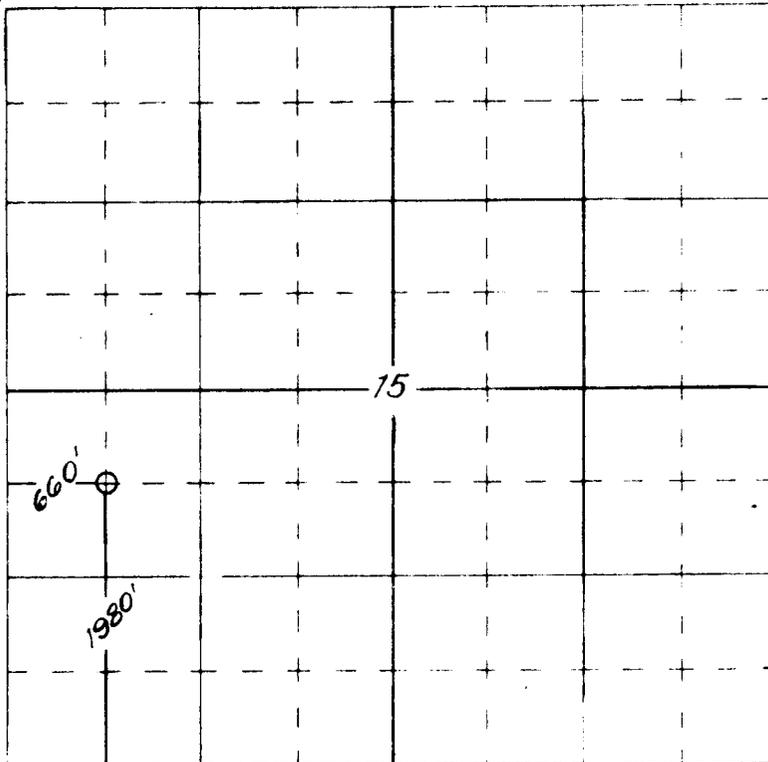
Location 1980 feet from South line, 660 feet from West line.

Being in N. W. $\frac{1}{4}$ S. W. $\frac{1}{4}$

Sec. 15, T23 S., R. 17 E., S. L. M.

Ground Elevation
To be reported
later.

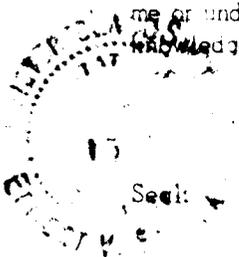
GRAND COUNTY, UTAH



Scale -- 4 inches equals 1 mile

Surveyed December 17, 1960

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

Four States Oil Field Surveys
Farmington, New Mexico

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

December 28, 1960

Pan American Petroleum Corp.
Box 480
Farmington, New Mexico

Attention: L. O. Spear, Jr.

Gentlemen:

This is to acknowledge receipt of your notice of intention to drill Well No. Salt Wash #1, which is to be located 1980 feet from the south line and 660 feet from the west line of Section 15, Township 23 South, Range 17 East, 31M, Grand County, Utah.

Please be advised that insofar as this office is concerned approval to drill said well is hereby granted.

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: Don F. Russell, Dist. Eng.
U. S. Geological Survey

H. L. Coonts - OGCC, Moab

(SUBMIT IN TRIPLICATE)

Land Office Utah
Lease No. Utah-013976
Unit Salt Wash

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

| | | | |
|---|--|--|--|
| | | | |
| | | | |
| X | | | |
| | | | |

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)

Salt Wash

Farmington, New Mexico January 23, 1961

Well No. 1 is located 1980 ft. from S line and 660 ft. from W line of sec. 15
NW/4 SW/4 of Section 15 T-23-S R-17-E S.I.M.
(1/4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)
Wildest Grand Utah
(Field) (County or Subdivision) (State or Territory)

The elevation of the derrick floor above sea level is 4272 ft. (GL)

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 on January 12, 1961, and drilled to 950'. Reamed 12-1/4" hole to 17-1/4" hole from surface to 934'. Set 13-3/8" casing at 934' with 900 sacks 4% gel cement followed by 75 sacks neat cement. Did not circulate. Top cement at 535'. Re-cemented with 200 sacks 4% gel cement, no fill up. Spotted 20 sacks calseal and 20 sacks cement at 535', top of cement at 457'. Regained partial returns. Spotted 15 sacks calseal and 15 sacks cement, no fill up. Spotted 40 sacks cement in 2 stages, no fill up. Spotted 20 sacks calseal and 20 sacks cement, no fill up. Spotted 10 sacks calseal and 10 sacks cement, 10' fill to 447'. Spotted 15 sacks calseal and 15 sacks cement at 447'. Had 42' fill and continued losing mud. Spotted 28 sacks cement and received 20' fill. Gained full returns. Cemented through 1" pipe with 210 sacks 4% gel cement containing 2% calcium chloride. Circulated cement. After waiting on cement, tested 13-3/8" casing with 900 psi for 30 minutes, which held with no indication of pressure drop. Reduced hole to 12-1/4" at 950' 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, New Mexico
Attn: L. O. Speer, Jr.
By R. M. Speer, Jr.
Title Senior Petroleum Engineer

| | | | |
|---|--|--|--|
| | | | |
| | | | |
| X | | | |
| | | | |

(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Land Office Utah
Lease No. Utah-013976
Unit Salt Wash

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..... | |
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| NOTICE OF INTENTION TO ABANDON WELL..... | | |

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

Salt Wash

Farmington, New Mexico February 27, 1961

Well No. 1 is located 2983 ft. from [S] line and 660 ft. from [E] line of sec. 15

NW/4 NW/4 of Section 15 T-236 R-17N Public
(1/4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)

Wilcox Grand Utah
(Field) (County or Subdivision) (State or Territory)

The elevation of the derrick floor above sea level is 4263 ft. (MSL)

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)

Correction to previous report - 1 1/2" casing set at 945' instead of 934' as previously reported.

Total depth 5125' - Set 9-5/8" casing at 5075' with 150 sacks 6 percent gel cement and 250 sacks 6 percent gel cement containing 2 pounds Tuf Plug per sack, followed by 100 sacks neat cement, containing 2 pounds Tuf Plug per sack. Top cement by survey 3650'. After waiting on cement, tested 9-5/8" casing with 2000 psi for 30 minutes, which held with no indication of pressure drop. Reduced hole to 8-3/4" at 5125' and resumed drilling.

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.

By _____

Title Senior Petroleum Engineer

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LAND OFFICE Utah
LEASE NUMBER Utah - 013976
UNIT Salt Wash

LESSEE'S MONTHLY REPORT OF OPERATIONS

State Utah County Grand Field Wildcat

The following is a correct report of operations and production (including drilling and producing wells) for the month of February, 1961,

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 ¼ OF ¼ | 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 SW 15 | 23S | 17E | 1 | - | Salt Wash Well No. 1 -- Drilling 8452' | | | | | Well spudded January 12, 1961. |
| | | | | | | | | | | 0600 4 |

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.

| | | | |
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| X | | | |
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(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Land Office Utah
Lease No. Utah-019976
Unit Salt Wash

SUNDRY NOTICES AND REPORTS ON WELLS

| | | | |
|---|--|---|---|
| NOTICE OF INTENTION TO DRILL..... | | SUBSEQUENT REPORT OF WATER SHUT-OFF..... | X |
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| 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..... | | | |

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

Salt Wash Farmington, New Mexico May 12, 19 61

Well No. 1 is located 1980 ft. from S line and 660 ft. from W line of sec. 15
NW/4 SW/4 of Section 15 T-23-S R-17-E S.L.M.
(¼ Sec. and Sec. No.) (Twp.) (Range) (Meridian)
Wildcat Grand Utah
(Field) (County or Subdivision) (State or Territory)

The elevation of the derrick floor above sea level is 4283 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)

(SEE ATTACHED)

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 P. O. Box 480

Farmington, New Mexico

Attn: L. O. Speer, Jr.

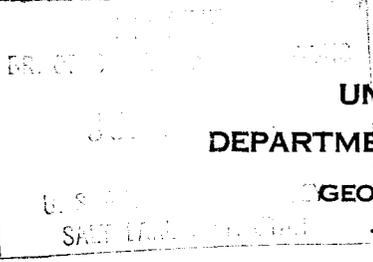
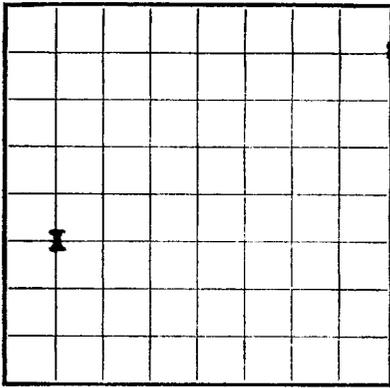
ORIGINAL SIGNED BY
By R. M. Bauer, Jr.

Title Senior Petroleum Engineer

State

Ret. #1

U. S. LAND OFFICE Utah
SERIAL NUMBER Utah 013976
LEASE OR PERMIT TO PROSPECT
Salt Wash



UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

LOCATE WELL CORRECTLY

Company Pan American Petroleum Corporation Address Box 480, Farmington, New Mexico
Lessor or Tract Salt Wash Field Wildcat State Utah
Well No. 1 Sec. 15 T. 23 S. R. 17E Meridian S.L.M. County Grand
Location 1980 ft. N. of 3 Line and 660 ft. E. of W Line of Section 15 Elevation 4283
(Denote base 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.
ORIGINAL SIGNED BY

Date June 30, 1961 Title Senior Petroleum Engineer

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

Commenced drilling January 12, 19 61 Finished drilling April 12, 19 61

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 8693 to 8707 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>13-3/8"</u> | <u>185#</u> | <u>SRT</u> | <u>CF&I</u> | <u>937</u> | <u>Chin</u> | | | | <u>Surface</u> |
| <u>9-5/8"</u> | <u>95#</u> | <u>SRT</u> | <u>CF&I</u> | <u>5099</u> | <u>Chin</u> | | | | <u>Intermediate String</u> |
| <u>5-1/2"</u> | <u>155#</u> | <u>SRT</u> | <u>CF&I</u> | <u>8965</u> | <u>Guide</u> | | | | <u>Oil String</u> |

MUDDING AND CEMENTING RECORD

| Size casing | Where set | Number sacks of cement | Method used | Mud gravity | Amount of mud used |
|----------------|-------------|------------------------|--------------------|---------------|--------------------|
| <u>13-3/8"</u> | <u>945</u> | <u>1463</u> | <u>Halliburton</u> | <u>2 plug</u> | |
| <u>9-5/8"</u> | <u>5076</u> | <u>500</u> | <u>Halliburton</u> | <u>2 plug</u> | |
| <u>5-1/2"</u> | <u>8898</u> | <u>2050</u> | <u>Halliburton</u> | <u>2 plug</u> | |

PLUGS AND ADAPTERS

Heaving plug—Material _____ Length _____ Depth set _____

Adapters—Material _____ Size _____

SHOOTING RECORD

FOLD MARK

FOLD MARK

| | | | | |
|---------|------|------|-------------|--------|
| 13-3/8" | 945 | 1463 | Halliburton | 2 plug |
| 9-5/8" | 5076 | 500 | Halliburton | 2 plug |
| 5-1/2" | 8898 | 2050 | 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 0 feet to 9523 feet, and from _____ feet to _____ feet
 Cable tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet

Completed as **Flowing Wildcat Mississippi** MATES

Well. _____ June 22 _____, 19 61 Put to producing April 28 _____, 19 61

The production for the first 24 hours was 124.32 barrels of fluid of which _____% was oil; _____% emulsion; _____% water; and _____% sediment. Gravity, °Bé. 53.1°

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

Rock pressure, lbs. per sq. in. _____

EMPLOYEES

L. E. Martin _____, Driller G. F. Stewart _____, Driller
 H. G. Wayne _____, Driller L. L. Rodin _____, Driller

FORMATION RECORD

| FROM— | TO— | TOTAL FEET | FORMATION |
|-------|------|------------|---------------------------------|
| 0 | 462 | 462 | Undifferentiated surface sands. |
| 462 | 890 | 428 | Navajo. |
| 890 | 1408 | 518 | Wingate. |
| 1408 | 1697 | 289 | Chinle. |
| 1697 | 1830 | 133 | Shinarump. |
| 1830 | 2802 | 972 | Moencopi. |
| 2802 | 3545 | 743 | Cutler. |
| 3545 | 5112 | 1567 | Hermosa. |
| 5112 | 8362 | 3250 | Salt. |
| 8362 | 8988 | 626 | Mississippian. |
| 8988 | 9100 | 112 | Ouray. |
| 9100 | 9302 | 202 | Elbert. |
| 9302 | 9491 | 189 | McCracken. |
| 9491 | 9523 | 32 | Lynch. (Top from NEU log) |

Attachment to Log of Oil or Gas Well Form 9-330

Spudded 12-1/4" hole on January 12, 1961, and drilled to 950'. Reamed 12-1/4" hole to 17-1/4" hole from surface to 934'. Set 13-3/8" casing at 945' with 900 sacks 4 percent gel cement followed by 75 sacks neat cement. Did not circulate. Top cement at 535'. Recemented with 200 sacks 4 percent gel cement, no fill up. Spotted 20 sacks calseal and 20 sacks cement at 535', top of cement at 457'. Regained partial returns. Spotted 15 sacks calseal and 15 sacks cement, no fill up. Spotted 40 sacks cement in 2 stages, no fill up. Spotted 20 sacks calseal and 20 sacks cement, no fill up. Spotted 10 sacks calseal and 10 sacks cement, 10' fill to 447'. Spotted 15 sacks calseal and 15 sacks cement at 447'. Had 42' fill and continued losing mud. Spotted 28 sacks cement and received 20' fill. Gained full returns. Cemented through 1" pipe with 210 sacks 4 percent gel cement containing 2 percent Calcium Chloride. Circulated cement. After waiting on cement, tested 13-3/8" casing with 900 psi for 30 minutes, which held with no indication of pressure drop. Reduced hole to 12-1/4" at 950' and resumed drilling operations.

Total depth 5125' - Set 9-5/8" casing at 5075' with 150 sacks 4 percent gel cement and 250 sacks 6 percent gel cement containing 2 pounds Tuf plug per sack, followed by 100 sacks neat cement, containing 2 pounds Tuf plug per sack. Top cement by survey 3650'. After waiting on cement, tested 9-5/8" casing with 2000 psi for 30 minutes, which held with no indication of pressure drop. Reduced hole to 8-3/4" at 5125' and resumed drilling.

Core No. 1, 8468'-8495' Mississippian. Recovered 23' as follows: 23' white light gray tight fine grain lime and closed vertical fractures throughout. No show.

Core No. 2, 8495'-8516'. Recovered 21' as follows: 21' fine crystalline dense lime with numerous dark gray shale inclusions and scattered stylolites, vertical fractures 8498'-8516'. No. show.

Core No. 3, 8516'-8534'. Recovered 17' as follows: 17' buff microcrystalline, dense limestone and scattered gray brown chert inclusions, numerous hairline fractures. Vertical fractures 8516'-17', 22'-24', 26'-27', and 29'-31'. No show.

Core No. 4, 8534'-8554'. Recovered 20' and 1' from Core No. 3 as follows: All 21' light gray fine medium crystalline limestone and scattered dolomite inclusions. Dark gray shale interbeds. Numerous hairline fractures. Vertical fractures 8533'-34', 37'-38', and 41'-42'. No show.

Core No. 5, 8554'-8573'. Recovered 19' as follows: 10' white buff mud to coarse crystalline limestone, 4' light buff mico to generally fine crystalline dense limestone, 5' white buff mud to coarse crystalline limestone. Vertical fractures 8568'-70', cherty 8572'-73'. No show.

Core No. 6, 8573'-8613'. Recovered 22' as follows: 7' buff to light gray fine to medium crystalline lime. 5' white coarse crystalline lime, slight porosity, interbedded crystalline black shale. Vertical fractures throughout. No show. Believe bottom part of core lost.

Drill Stem Test No. 1, 8553'-8613' Mississippian. 5/8" bottom hole choke and 1" surface choke. 30 minutes initial shut-in bottom hole pressure 3855 psi. Tool open 4 hours. Gas to surface in 8 minutes. Pitot gauges as follows: after one hour flow 404 MCFPD; after 2 hours flow 448 MCFPD; after 4 hours flow 533 MCFPD. Recovered 468' highly gas cut mud and 330' highly gas and water cut mud and 60' highly gas cut salt water. Hydrostatic head in 4867 pounds and hydrostatic head out 4845 pounds with initial flowing pressure 65 psi and final flowing pressure 380 psi. One hour shut-in bottom hole pressure 3875 psi at bottom hole temperature of 140° F.

Core No. 7, 8623'-8653' Mississippian. Recovered 30' as follows: 13' light to buff medium coarse crystalline lime. 6' white to coarse crystalline lime with scattered porosity, much black crystalline residue lime. 8' buff colored medium crystalline lime. 1' white dolomite with black intercrystalline porosity. Vertical fractures 8639'-53'. No show.

Core No. 8, 8653'-8667'. Recovered 14' as follows: 3' white medium to coarse crystalline dolomite with scattered vugular porosity. Slight fluorescence on residue. 7' dolomite. Fractures slightly open, more vuggy porosity. 4' dolomite very good porosity, abundant black residue. Bleeding scattered fluorescence. Vertical hairline fractures throughout core. Hydrocarbon odor fair to good throughout core.

Core No. 9, 8667-8679'. Recovered 12' as follows: 7' dolomite, white medium to coarse crystalline, good to excellent vugular porosity. Hydrocarbon odor. Vugs 1" by 1-1/2" black residue scattered throughout. Hairline closed to slightly open fractures, vertical to subvertical, gas bleeding through vugs and fractures. 5' dolomite, medium gray, fine crystalline porosity, poor to tight, fractures as above. Trace of bleeding gas. Scattered chert inclusions.

Drill Stem Test No. 2, 8629-8679' Mississippian. Tool open 1 hour and 35 minutes. Gas to surface in 6 minutes with strong blow immediately and throughout. Fluid to surface in 20 minutes. Oily, frothy, viscous, light green colored condensate. Gauge after 20 minutes 7,000 MCFPD nonflammable gas with 500 psi on 3/4" choke. Recovered 300' yellowish condensate 53° API gravity, 60' condensate cut slightly brackish water. Initial shut-in bottom hole pressure 3875 psi. Bottom hole pressure flowing 1095-1628 psi. Final shut-in bottom hole pressure 3875 psi. Hydrostatic head in and out 4870 psi. Bottom hole temperature 146° F.

Core No. 10, 8679-8683'. Recovered 4' as follows: 3' dolomite tan to dark gray, vuggy porosity with slight stain and fluorescence. 1' dolomite same as above, tight, no shows or fluorescence, vertical fractures throughout, sulphur odor.

Core No. 11, 8683-8711'. Recovered 28' as follows: 28' of dolomite, medium gray to tan, fine to coarse crystalline. Poor to good vuggy porosity, bleeding gas vugs had asphalt stain. Intervals 8689-90', 91-92', 98-99', and 8700-01' very tight. Vertical fractures throughout.

Core No. 12, 8711-8768'. Recovered 57' as follows: 6' dolomite, white to dark gray, fine to medium crystalline, good vugular intercrystalline porosity. 35' of dolomite, white to tan, very fine to fine crystalline with random thin porosity zones. 12' dolomite, same as 6' description above. 4' dolomite white to gray, fine crystalline with fair vugular intercrystalline porosity with vertical fractures. Good odor throughout with bleeding gas and condensate from porosity.

Drill Stem Test No. 3, 8678-8768'. 1" bottom hole choke and 1" surface choke. Tool open two hours. Weak blow throughout test. Gas to surface in 29 minutes and to small to measure. Initial bottom hole pressure 3900 psi. Hydrostatic head in and out 4870 psi. Initial flowing bottom hole pressure 840 psi with final flowing bottom hole pressure 1585 psi. One hour final shut-in bottom hole pressure 3875 psi. Recovered 668' of heavy gas cut mud, 704' of amber colored gas cut emulsion, 1858' 55° API gravity oil, 610' salt water.

Drill Stem Test No. 4, 8768-8843'. 3/4" bottom hole choke, 1" surface choke. Tool open 1-1/2 hours. Fair to weak blow throughout test. Recovered 282' of salt water cut mud, 370' of muddy salt water, and 7550' of clear salt water. Initial shut-in bottom hole pressure 4075 psi. Initial flowing bottom hole pressure 1445 psi. Final flowing bottom hole pressure 4075 psi. Final shut-in bottom hole pressure 4075 psi. Hydrostatic head in and out 4905 psi.

Core No. 13, 9121-9153', Elbert-Devonian. Recovered 32' as follows: 9' dolomite, tan and silty. 2' dolomite, peletordol tan. 7' siltstone, green and red, tan streaks sandy dolomite. 8' dolomite, tan silty, streaks green siltstone. 5' siltstone, green and red, sand and shaly fragments. 1' siltstone, white to light purple, fine to coarse grain subangular to rounded grain quartzite, tight. Vertical fractures. No show. Spotted 235 sacks cement plug from 9523'-8890'.

Ran 5-1/2" casing to 8898' with two stage tool 771' above casing shoe. Cement first stage with 250 sacks cement containing 2 pounds medium tuf plug per sack. Cement second stage with 1700 sacks of 50-50 Pozmix portland cement with 2 percent gel and 18 pounds salt per sack, followed by 100 sacks of Trinity Inferno. Maintain full circulation throughout cementing operations. Drill cement to 8150' and condition hole, tested stage collar with 3475 pounds for 45 minutes. Test ok. Perforated Mississippian zone 8735'-50' with 4 shots per foot. Spotted acid over perforations and acidized with 1,000 gallons 15 percent acid. Breakdown pressure 4600 pounds. Average treating pressure 1,000 pounds at 1-1/4 barrels per minute. No shows. Swabbed 255 barrels salt water in 12 hours. Squeeze perforations 8735'-50' with 100 sacks of trinity Inferno cement. Maximum squeeze pressure 4900 pounds. After waiting on cement, drill solid cement 8630-8715'. Tested casing with 3500 pounds for 15 minutes. Test ok. Perforated 8693-8707' with 4 shots per foot. Acidized with 500 gallons 15 percent acid. Breakdown pressure 1950 pounds. Average injection rate one barrel per minute at 1150 pounds. Completed June 26, 1961, as flowing oil well, Mississippian Wildcat. Potential test May 28, 1961, flowing 115.12 barrels of oil and 9.2 barrels of water in 24 hours on 20/64" choke.

June 14, 1963

Shell Oil Company
705 W. Municipal Drive
Farmington, New Mexico

Attention: Mr. J. E. Dozier

Dear Sir:

Enclosed are the Gas Oil Ratio Charts and results from your wells in the Salt Wash Field, Grand County, Utah.

You might be interested to know that Pan American Petroleum Corporation's Gas Oil Ratios for the same test period were as follows:

Pan American Salt Wash #1 GOR - 40,770 cu. ft./bbl.
Pan American Suniland State #1 GOR - 39,460 cu. ft./bbl.

We were unable to run Texaco Incorporated's Gas Oil Ratios at this time.

Yours very truly,

OIL & GAS CONSERVATION COMMISSION

HARVEY L. COONTS
PETROLEUM ENGINEER

HLC:kgw

Enclosure

copy file

**UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY**

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK
 DRILL DEEPEN PLUG BACK

b. TYPE OF WELL
 OIL WELL GAS WELL OTHER
 SINGLE ZONE MULTIPLE ZONE

2. NAME OF OPERATOR
Pan American Petroleum Corporation

3. ADDRESS OF OPERATOR
P. O. Box 480 Farmington, New Mexico

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)*
 At surface **1980 FWL & 660 FWL**
 At proposed prod. zone **Same**

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
30 Miles Southeast of Greenriver, Utah.

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. line, if any) **660**

16. NO. OF ACRES IN LEASE **1,914.25**

17. NO. OF ACRES ASSIGNED TO THIS WELL **40**

18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETION, OR APPLIED FOR, ON THIS LEASE, FT. **None**

19. PROPOSED DEPTH **7750**

20. ROTARY OR CABLE TOOLS **Pulling Unit**

21. ELEVATIONS (Show whether DF, RT, GR, etc.) **4283 (RDB)**

22. APPROX. DATE WORK WILL START* **August 10, 1964**

23. PROPOSED CASING AND CEMENTING PROGRAM

| SIZE OF HOLE | SIZE OF CASING | WEIGHT PER FOOT | SETTING DEPTH | QUANTITY OF CEMENT |
|---|----------------|-----------------|---------------|--------------------|
| Reference our forms 9-330 and 9-331A of May 12, 1961. | | | | |
| | | | | |
| | | | | |

Oil Production has declined to 6 1/2 BOPD (June, 1964, 53 BO in 9 days & July, 1964, 163 BO in 25 days with 138 BWPD) and has become uneconomic as net oil value is approx. \$1.80 per barrel (\$2.575 less \$0.36 trucking, 1/8 royalty & 1/16 OGR) and operating cost is over \$900. a month. Re-stimulation of the Mississippian Pay Zone is not practical as the 5 1/2" production casing is collapsed at 7820. Therefore, we propose to plug back & recomplate the well as follows:

1. Move in pulling unit, pull tubing & rods, run tubing & cast iron cement retainer & set retainer at about 7750.
2. Squeeze off hole below retainer with 150 SX neat cement (111 SX 100% fill inside 5 1/2" casing 7750-7820 & inside lost tubing casing - tubing annulus 7820-8710; leaving a squeeze of 39 SX thru perfs 8693-8707).

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24. **Fred L. Nabors, District Engineer**
 SIGNED TITLE DATE **August 7, 1964**
ORIGINAL SIGNED BY
F. H. HOLLINGSWORTH

(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY _____ TITLE _____ DATE _____
 CONDITIONS OF APPROVAL, IF ANY:

Above procedure discussed, F. H. Hollingsworth to R. A. Smith August 6, 1964 and P. W. Burchell & H. L. Coonts August 7, 1964.

*See Instructions On Reverse Side

Instructions

General: This form is designed for submitting proposals to perform certain well operations, as indicated, on all types of lands and leases for appropriate action by either a Federal or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office.

Item 1: If the proposal is to redrill to the same reservoir at a different subsurface location or to a new reservoir, use this form with appropriate notations. Consult applicable State or Federal regulations concerning subsequent work proposals or reports on the well.

Item 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

Item 14: Needed only when location of well cannot readily be found by road from the land or lease description. A plat, or plats, separate or on this reverse side, showing the roads to, and the surveyed location of, the well, and any other required information, should be furnished when required by Federal or State agency offices.

Items 15 and 18: If well is to be, or has been directionally drilled, give distances for subsurface location of hole in any present or objective production zone.

Item 22: Consult applicable Federal or State regulations, or appropriate officials, concerning approval of the proposal before operations are started.

U.S. GOVERNMENT PRINTING OFFICE: 1963-O-685231

3. Test casing to 1000 psi.
4. Run Gamma Ray Correlation Log & Perforate Paradox Salt Section 2 SPF. 7045-7075 (30' - 60 Holes)
7175-7200 (25' - 50 Holes)
5. Run tubing & retrievable packer & bridge plug & set packer at approximately 7150 with bridge plug below lowest perfs above. Treat perfs 7175-7200 with 500 gallons MCA and swab test selectively.
6. Contingent upon results of above swab test, tubing packer and bridge plug will be picked up to bracket upper perfs and perfs 7045-7075 will be treated with 500 gallons MCA and swab tested.

APPROVED BY UTAH OIL AND GAS
CONSERVATION COMMISSION

DATE: Aug. 7, 1964 by *Joe M. Burchell*
Chief Petroleum Engineer

Verbal approval given to Mr. F. H. Hollingsworth.

AUG 10 1964

Attachment to Supplementary Well History

Salt Wash No. 1
Grand County, Utah

Core No. 1, 8468'-8495' Mississippian. Recovered 23' as follows: 23' white light gray tight fine grain lime and closed vertical fractures throughout. No show.

Core No. 2, 8495'-8516'. Recovered 21' as follows: 21' fine crystalline dense lime with numerous dark gray shale inclusions and scattered stylolites, vertical fractures 8498'-8516'. No show.

Core No. 3, 8516'-8534'. Recovered 17' as follows: 17' buff microcrystalline, dense limestone and scattered gray brown chert inclusions, numerous hairline fractures. Vertical fractures 8516'-17', 22'-24', 26'-27', and 29'-31'. No show.

Core No. 4, 8534'-8554'. Recovered 20' and 1' from Core No. 3 as follows: All 21' light gray fine medium crystalline limestone and scattered dolomite inclusions. Dark gray shale interbeds. Numerous hairline fractures. Vertical fractures 8533'-34', 37'-38', and 41'-42'. No show.

Core No. 5, 8554'-8573'. Recovered 19' as follows: 10' white buff mud to coarse crystalline limestone, 4' light buff micro to generally fine crystalline dense limestone, 5' white buff mud to coarse crystalline limestone. Vertical fractures 8568'-70', cherty 8572'-73'. No show.

Core No. 6, 8573'-8613'. Recovered 22' as follows: 7' buff to light gray fine to medium crystalline lime. 5' white coarse crystalline lime, slight porosity, interbedded crystalline black shale. Vertical fractures throughout. No show. Believe bottom part of core lost.

Drill Stem Test No. 1, 8553'-8613' Mississippian. 5/8" bottom hole choke and 1" surface choke. 30 minutes initial shut-in bottom hole pressure 3855 psi. Tool open 4 hours. Gas to surface in 8 minutes. Pitot gauges as follows: after one hour flow 404 MCPPD; after 2 hours flow 448 MCPPD; after 4 hours flow 533 MCPPD. Recovered 468' highly gas cut mud and 330' highly gas and water cut mud and 60' highly gas cut salt water. Hydrostatic head in 4867 pounds and hydrostatic head out 4845 pounds with initial flowing pressure 65 psi and final flowing pressure 360 psi. One hour shut-in bottom hole pressure 3875 psi at bottom hole temperature of 140° F.

Core No. 7, 8623'-8653' Mississippian. Recovered 30' as follows: 13' light to buff medium coarse crystalline lime. 6' white to coarse crystalline lime with scattered porosity, much black crystalline residue lime. 8' buff colored medium crystalline lime. 1' white dolomite with black intercrystalline porosity. Vertical fractures 8639'-53'. No show.

Core No. 8, 8653'-8667'. Recovered 14' as follows: 3' white medium to coarse crystalline dolomite with scattered vugular porosity. Slight fluorescence on residue. 7' dolomite. Fractures slightly open, more vuggy porosity. 4' dolomite very good porosity, abundant black residue. Bleeding scattered fluorescence. Vertical hairline fractures throughout core. Hydrocarbon odor fair to good throughout core.

Core No. 9, 8667'-8679'. Recovered 12' as follows: 7' dolomite, white medium to coarse crystalline, good to excellent vugular porosity. Hydrocarbon odor. Vugs 1" by 1-1/2", black residue scattered throughout. Hairline closed to slightly open fractures, vertical to subvertical, gas bleeding through vugs and fractures. 5' dolomite, medium gray, fine crystalline porosity, poor to tight, fractures as above. Trace of bleeding gas. Scattered chert inclusions.

Drill Stem Test No. 2, 8629'-8679' Mississippian. Tool open 1 hour and 35 minutes. Gas to surface in 6 minutes with strong blow immediately and throughout. Fluid to surface in 20 minutes. Silty, frothy, viscous, light green colored condensate. Gauge after 20 minutes 7,000 MCFPD nonflammable gas with 500 psi on 3/4" choke. Recovered 300' yellowish condensate 53° API gravity, 60' condensate cut slightly brackish water. Initial shut-in bottom hole pressure 3875 psi. Bottom hole pressure flowing 1095-1628 psi. Final shut-in bottom hole pressure 3875 psi. Hydrostatic head in and out 4870 psi. Bottom hole temperature 146° F.

Core No. 10, 8679'-8683'. Recovered 4' as follows: 3' dolomite tan to dark gray, vuggy porosity with slight stain and fluorescence. 1' dolomite same as above, tight, no shows or fluorescence, vertical fractures throughout, sulphur odor.

Core No. 11, 8683'-8711'. Recovered 28' as follows: 28' of dolomite, medium gray to tan, fine to coarse crystalline. Poor to good vuggy porosity, bleeding gas vugs had asphalt stain. Intervals 8689'-90', 91'-92', 98'-99', and 8700'-01' very tight. Vertical fractures throughout.

Core No. 12, 8711'-8768'. Recovered 57' as follows: 6' dolomite, white to dark gray, fine to medium crystalline, good vugular intercrystalline porosity. 35' of dolomite, white to tan, very fine to fine crystalline with random thin porosity zones. 12' dolomite, same as 6' description above. 4' dolomite white to gray, fine crystalline with fair vugular intercrystalline porosity with vertical fractures. Good odor throughout with bleeding gas and condensate from porosity.

Drill Stem Test No. 3, 8678'-8768'. 1" bottom hole choke and 1" surface choke. Tool open two hours. Weak blow throughout test. Gas to surface in 29 minutes and to small to measure. Initial bottom hole pressure 3900 psi. Hydrostatic head in and out 4870 psi. Initial flowing bottom hole pressure 840 psi with final flowing bottom hole pressure 1585 psi. One hour final shut-in bottom hole pressure 3875 psi. Recovered 668' of heavy gas cut mud, 704' of amber colored gas cut emulsion, 1858' 55° API gravity oil, 610' salt water.

Drill Stem Test No. 4, 8768'-8843'. 3/4" bottom hole choke, 1" surface choke. Tool open 1-1/2 hours. Fair to weak blow throughout test. Recovered 282' of salt water cut mud, 370' of muddy salt water, and 7550' of clear salt water. Initial shut-in bottom hole pressure 4075 psi. Initial flowing bottom hole pressure 1445 psi. Final flowing bottom hole pressure 4075 psi. Final shut-in bottom hole pressure 4075 psi. Hydrostatic head in and out 4905 psi.

Core No. 13, 9121-9153', Elbert-Devonian. Recovered 32' as follows: 9' dolomite, tan and silty. 2' dolomite, peletordol tan. 7' siltstone, green and red, tan streaks sandy dolomite. 8' dolomite, tan silty, streaks green siltstone. 5' siltstone, green and red, sand and shaly fragments. 1' siltstone, white to light purple, fine to coarse grain subangular to rounded grain quartzite, tight. Vertical fractures. No show.

Spotted 235 sacks cement plug from 9523'-8890'.

Ran 5-1/2" casing to 8898' with two-stage tool 771' above casing shoe. Cement first stage with 250 sacks cement containing 2 pounds medium Tuf Plug per sack. Cement second stage with 1700 sacks of 50-50 Pozmix portland cement with 2% gel and 18 pounds salt per sack, followed by 100 sacks of Trinity Inferno. Maintain full circulation throughout cementing operations.

Drill cement to 8150' and condition hole, tested stage collar with 3475 pounds for 45 minutes. Test O.K.

Perforated Mississippian zone 8735'-50' with 4 shots per foot. Spotted acid over perforations and acidized with 1,000 gallons 15% acid. Breakdown pressure 4600 pounds. Average treating pressure 1,000 pounds at 1-1/4 barrels per minute. No shows. Swabbed 255 barrels salt water in 12 hours.

Squeeze perforations 8735'-50' with 100 sacks of Trinity Inferno cement. Maximum squeeze pressure 4900 pounds. After waiting on cement, drill solid cement 8630'-8715'. Tested casing with 3500 pounds for 15 minutes. Test O.K.

Perforated 8693'-8707' with 4 shots per foot. Acidized with 500 gallons 15% acid. Breakdown pressure 1950 pounds. Average injection rate one barrel per minute at 1150 pounds.

Currently testing well.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TR.
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

Utah -- 013976

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
Salt Wash

9. WELL NO.
1

10. FIELD AND POOL, OR WILDCAT
Salt Wash Mississippian

11. SEC., T., R., M., OR BLK. AND
SUBJECT OR AREA
**SW/4 Section 15
T-23S, R-17E**

12. COUNTY OR PARISH
Grand

13. STATE
Utah

1. OIL WELL GAS WELL OTHER

2. NAME OF OPERATOR
PAN AMERICAN PETROLEUM CORPORATION

3. ADDRESS OF OPERATOR
P. O. Box 480, Farmington, New Mexico

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*
See also space 17 below.)
At surface
1980 FSL & 660 FWL

14. PERMIT NO.

15. ELEVATIONS (Show whether DF, RT, GR, etc.)
4283 (RDB)

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF
FRACTURE TREAT
SHOOT OR ACIDIZE
REPAIR WELL
(Other) **Subsequent Recompletion**

PULL OR ALTER CASING
MULTIPLE COMPLETE
ABANDON*
CHANGE PLANS
X

SUBSEQUENT REPORT OF:

WATER SHUT-OFF
FRACTURE TREATMENT
SHOOTING OR ACIDIZING
(Other) _____

REPAIRING WELL
ALTERING CASING
ABANDONMENT* **lower zones**

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

This refers to our Form 9-331C of 8-7-64 on the Salt Wash No. 1. The following operation commenced 8-10-64:

Move in and rig up pulling unit. Pulled tubing. Installed blowout preventer. Ran cement retainer. Set at 7750. Cement with 150 sacks type "A". Squeezed with 150 psi. Tested casing with 1000 psi. Test ok. Pulled tubing and ran radio active correlation log. Perforated 7045-75 with 2 shots per foot and 7175-7200 with 2 shots per foot. Loaded tubing to top of Packer with 500 gallons MCA acid. Seated packer and pressured up on tubing with 4000 psi. Unable to breakdown. Spotted 1-1/2 barrels acid over perforation 7175-7200. Pressured tubing to 4000 psi, failed to breakdown. Let acid set on formation 16 hours. Still unable to breakdown with 4000 lbs. Pressured tubing and pumped 10-1/2 barrels acid at 1 BPM with 4900 psi. No noticeable breakdown during treatment. Instant shut in pressure 4800 psi 45 min shut in pressure 4800. Swabbed tubing dry in 2-1/2 hours. Reset bridge plug at 7110 and spotted 500 gallons 15% MCA. Set packer at 7028. Pumped into formation at 4900 psi. Acidized perforations 7045-75 with 500 gallons 15% acid at 1 BPM at 5000 psi. Instant shut in pressure 4800 psi. 30 min shut in pressure 4800. Swabbed fluid to 6500. Fluid recovered was flush and acid water. Ran swab, found fluid at 5500'. Unable to get swab to drop through fluid. Ran sinker bars, found fluid at 5000'. Unable to get sinker bars down. Shut in 131 hours. No pressure buildup. Unable to get sinker bars to bottom of tubing. Unseated Packer and attempted reverse circulation. Unable to break circulation. Broke circulation conventionally but Packer trying to stick. Fluid sample recovered was black salt water saturated with shale particles. Pulled tubing and found bottom 40 joints plugged with salt, cement and shale particles.

(See Reverse Side)

18. I hereby certify that the foregoing is true and correct
ORIGINAL SIGNED BY **Fred L. Nabors, District Engineer**
SIGNED **F. H. HOLLINGSWORTH** TITLE _____ DATE **August 26, 1964**

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

Above procedure discussed & approved verbally by
R. A. Smith & H. L. Coonts to F. H. Hollingsworth

*See Instructions on Reverse Side

Instructions

General: This form is designed for submitting proposals to perform certain well operations, and reports of such operations when completed, as indicated, on Federal and Indian lands pursuant to applicable Federal law and regulations, and, if approved or accepted by any State, on all lands in such State, pursuant to applicable State law and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office.

Item 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

Item 17: Proposals to abandon a well and subsequent reports of abandonment should include such special information as is required by local Federal and/or State offices. In addition, such proposals and reports should include reasons for the abandonment; data on any former or present productive zones, or other zones with present significant fluid contents not sealed off by cement or otherwise; depths (top and bottom) and method of placement of cement plugs; mud or other material placed below, between and above plugs; amount, size, method of parting of any casing, liner or tubing pulled and the depth to top of any left in the hole; method of closing top of well; and date well site conditioned for final inspection looking to approval of the abandonment.

U.S. GOVERNMENT PRINTING OFFICE: 1963-O-685229

6-67-8-51

No indication of hydrocarbons. Baker cast iron bridge plug set at 6930. Tested with 1200 psi for 30 min. Perforated 5940-50, 5960-70 with 2 shots per foot. Ran tubing, retrievable bridge plug set at 6000, Packer set at 5923. Swabbed tubing dry. Acidized with 500 gallons 15% MCA. No breakdown, pumped in at 4300 psi at 1-1/2 BPM. Initial shut in pressure 3800 psi and 30 min shut in pressure 3800. Swabbed dry in 2 hours. No fluid in tubing after 12 hour shut in period. Unseated Packer and retrieved bridge plug. Pulled tubing. Set cast iron bridge plug at 5250. Perforated 5200-20, 5160-70, 5120-40 with 2 shots per foot. Ran tubing and set Packer at 5102. Swabbed tubing down with no show hydrocarbon. Pressured 5-1/2"-9-5/8" annulus with 1500 psi. Test ok. Acidized perforations 5120 to 5220 with 500 gallons 15% MCA. No breakdown. Pumped in at 3800 psi at 1-1/2 BPM. Instant shut in pressure 3400 and 1 hour shut in pressure 2800. Swabbed tubing clean in 2 hours with no show hydrocarbon. Pulled tubing. Attempted to run free point on 5-1/2" casing and could not unseat from well head. Rigged up casing jacks. Unseated slips in well head. Ran free point, found 5-1/2" stuck at 3700. Ran 5-1/2" jet cutter and shot at 3614, 3600 and 3590. Failed to free casing. Now running mechanical casing cutter.

After 5-1/2" casing is cut off, we propose to plug back by squeeze cementing with 50 to 100 sacks cement immediately above 5-1/2" casing stub and pressure testing the 9-5/8" casing. Then, the 9-5/8" casing will be perforated with 4 holes at 2400', 400 sacks of cement will be placed behind the casing, and the Moenkopi sand section 2196-2215 (4 SPF) will be stimulated with 500 gals mud acid and swab tested.

AUG 31 1964

2.

PLUGGING PROGRAM FORM

Name of Company Par. American Petroleum Verbal Approval Given To: George Eaton

Well Name: Well No. 1 Sec. 12 T. 23S.R. 17E County: Grand

Verbal Approval was given to plug the above mentioned well in the following manner:

5 1/2" cut at 2400 ft.
 Cement spotted at 5250 - 5211 → played test at production
 25 st spotted at 2400 ft. and squeezed @ 1500 PSI
 cement in and out.
 2390 - 2391 → perforated and cemented / 400 st
 after 18 hr perforated ^{mech. hole} 2196 - 2215 and round stabby and
 swabbed & acidized / pressure → recovered fresh water
 fluid level rose to 400 ft overnight → swabbed fresh
 again
No Shows

25 st @ 2400

- I) 50 st across and squeeze to 1500 PSI into 2196-2215
- II) 1700 ft cut 9 5/8" 50 st cement across stabby
- III) 1650 - 1750
- IV) 13 3/8" at 945' set at 900-100 (75 st)
- V) 20 st at surface / production.

Date Verbally Approved: Sept 2, 1964 Signed: Robert J. Small

Copy KHC
UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

U-013976

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Salt Wash

9. WELL NO.

1

10. FIELD AND POOL, OR WILDCAT

Salt Wash Mississippian

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA

**SW/4 Section 15,
T-23-S, R-17-E**

12. COUNTY OR PARISH 13. STATE

Grand Utah

1. OIL WELL GAS WELL OTHER

2. NAME OF OPERATOR

PAN AMERICAN PETROLEUM CORPORATION

3. ADDRESS OF OPERATOR

P. O. Box 480, Farmington, New Mexico

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*

See also space 17 below.)
At surface **1980 FSL and 660 FWL**

14. PERMIT NO.

15. ELEVATIONS (Show whether DF, RT, GR, etc.)

4283 (RMB)

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

(Other)

PULL OR ALTER CASING

MULTIPLE COMPLETE

ABANDON*

CHANGE PLANS

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other)

REPAIRING WELL

ALTERING CASING

ABANDONMENT*

Well History

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Supplementing our report of August 26, 1964 on the above well, we wish to report the following information:

Attempted to cut 5-1/2" casing at 3421 with mechanical cutter. Apparently failed to cut casing. Rechecked casing and found pipe stuck at 3700 and free at 3600. Ran Jet casing cutter and attempted cuts at 3304, 3105, 2894 and 2700; failed to pull casing. Reran Jet cutter and cut 5-1/2" casing at 2400'. Pulled and laid down same.

Ran 2-3/8" tubing and spotted 25 sack plug 5250-5011. Pulled tubing to 2400. Spotted 25 sack plug and applied bradenhead squeeze to 1500 psi. Displaced 6 barrels cement around 5-1/2" casing stub. Waited on cement 12 hours. Perforated 9-5/8" casing 2390-91 with 4 shots per foot. Broke circulation outside 9-5/8" casing and cemented with 400 sacks neat cement. Stopped plug at 2315. Good returns throughout. After waiting on cement tested casing with 1500 psi. Test OK.

Perforated 2196-2215 with 4 shots per foot. Set full bore packer at 2155. Acidized perforations with 500 gallons 15% acid. Breakdown 2800 psi. Treated at 2-1/4 barrels per minute at 2900 psi. Swabbed tubing dry in 30 minutes. No shows oil or gas.

Pulled tubing and packer. Reran tubing open ended and spotted 25 sack cement plug across perforations at 2196-2215. Applied bradenhead squeeze. Shot off 9-5/8" casing at 1598 and recovered same. Spotted 50 sack cement plug at 1615. Pulled tubing to 980 and spotted 125 sack cement plug. Pulled tubing to 65' and spotted 20 sack cement plug 65' to surface. Erected abandonment marker and cleaned up location.

18. I hereby certify that the foregoing is true and correct

ORIGINAL SIGNER BY

Fred L. Nabers, District Engineer

SIGNED **F. R. HOLLINGSWORTH**

TITLE

DATE **Sept. 29, 1964**

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPlicate
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

U-013-976

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT" for such proposals.)

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Salt Wash

9. WELL NO.

1

10. FIELD AND POOL, OR WILDCAT

Salt Wash Mississippian

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA

**SW/4 Section 15,
T-23-S, R-17-E**

12. COUNTY OR PARISH 13. STATE

Grand

Utah

1. OIL WELL GAS WELL OTHER

2. NAME OF OPERATOR
PAN AMERICAN PETROLEUM CORPORATION

3. ADDRESS OF OPERATOR
P. O. Box 480, Farmington, New Mexico

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*
See also space 17 below.)
At surface **1980 FSL and 660 FWL**

14. PERMIT NO.

15. ELEVATIONS (Show whether DF, RT, GR, etc.)

4283 (RDB)

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

SUBSEQUENT REPORT OF:

| | |
|--|---|
| TEST WATER SHUT-OFF <input type="checkbox"/> | PULL OR ALTER CASING <input type="checkbox"/> |
| FRACTURE TREAT <input type="checkbox"/> | MULTIPLE COMPLETE <input type="checkbox"/> |
| SHOOT OR ACIDIZE <input type="checkbox"/> | ABANDON* <input type="checkbox"/> |
| REPAIR WELL <input type="checkbox"/> | CHANGE PLANS <input type="checkbox"/> |
| (Other) <input type="checkbox"/> | |

| | |
|--|--|
| WATER SHUT-OFF <input type="checkbox"/> | REPAIRING WELL <input type="checkbox"/> |
| FRACTURE TREATMENT <input type="checkbox"/> | ALTERING CASING <input type="checkbox"/> |
| SHOOTING OR ACIDIZING <input type="checkbox"/> | ABANDONMENT* <input checked="" type="checkbox"/> |
| (Other) <input type="checkbox"/> | |

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

As a result of failure to find oil or gas in commercial quantities the above well was plugged and abandoned as follows:

- 8-10-64 1) Squeeze cemented 7750 to 8713 (PBD) with 150 sacks cement.
- 2) Set cast iron bridge plug at 6930.
- 3) Set cast iron bridge plug at 5250.

- 8-29-64 1) Cut 5-1/2" casing at 2400.
- 2) Spotted 25 sacks cement 5011 to 5250.
- 3) Spotted 25 sacks cement 2400 and squeezed.
- 4) Cemented outside 9-5/8" casing at 2390-1 with 400 sacks.

- 9-2-64 1) Cut 9-5/8" casing at 1598 and recovered same.
- 2) Spotted 25 sack plug across perforations 2196-2215 and applied bradenhead squeeze.
- 3) Spotted 50 sack cement plug at 1615.
- 4) Spotted 125 sack cement plug at 980.
- 5) Spotted 20 sack cement plug from 65' to surface.
- 6) Erected abandonment marker September 4, 1964.
- 7) Location will be cleaned up at a later date.

18. I hereby certify that the foregoing is true and correct

Fred L. Nabers, District Engineer

SIGNED ORIGINAL SIGNED BY
E. H. HOLLINGSWORTH

TITLE

DATE **Sept. 29, 1964**

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

Copy HHC

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1424.
5. LEASE DESIGNATION AND SERIAL NO.

U-013976

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals.)

| | |
|--|--|
| <p>1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/></p> <p>2. NAME OF OPERATOR PAN AMERICAN PETROLEUM CORPORATION</p> <p>3. ADDRESS OF OPERATOR P. O. Box 480, Farmington, New Mexico</p> <p>4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 1980 FSL and 660 FWL</p> <p>14. PERMIT NO.</p> | <p>6. IF INDIAN, ALLOTTEE OR TRIBE NAME</p> <p>7. UNIT AGREEMENT NAME</p> <p>8. FARM OR LEASE NAME Salt Wash</p> <p>9. WELL NO. 1</p> <p>10. FIELD AND POOL, OR WILDCAT Salt Wash Mississippian</p> <p>11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA 3W/4 Section 15, T-23-S, R-17-E</p> <p>12. COUNTY OR PARISH Grand 13. STATE Utah</p> |
| <p>15. ELEVATIONS (Show whether DF, RT, GR, etc.) 4283 (RDB)</p> | |

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

| NOTICE OF INTENTION TO: | | SUBSEQUENT REPORT OF: | |
|--|---|--|--|
| TEST WATER SHUT-OFF <input type="checkbox"/> | PULL OR ALTER CASING <input type="checkbox"/> | WATER SHUT-OFF <input type="checkbox"/> | REPAIRING WELL <input type="checkbox"/> |
| FRACTURE TREAT <input type="checkbox"/> | MULTIPLE COMPLETE <input type="checkbox"/> | FRACTURE TREATMENT <input type="checkbox"/> | ALTERING CASING <input type="checkbox"/> |
| SHOOT OR ACIDIZE <input type="checkbox"/> | ABANDON* <input checked="" type="checkbox"/> | SHOOTING OR ACIDIZING <input type="checkbox"/> | ABANDONMENT* <input type="checkbox"/> |
| REPAIR WELL <input type="checkbox"/> | CHANGE PLANS <input type="checkbox"/> | (Other) <input type="checkbox"/> | (Other) <input type="checkbox"/> |

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

As a result of failure to find oil or gas in commercial quantities during recomple-
tion operations, we propose to complete plug and abandonment of the above well as follows:

- 1) Cut and recover all possible 9-5/8" casing.
- 2) Spot 50 sack cement plug in 9-5/8" casing stub.
- 3) Spot 125 sack cement plug at 980.
- 4) Spot 20 sack cement plug from 65' to surface.
- 5) Erect abandonment marker and clean up location.

NOTE: 5-1/2" casing previously cut off at 2400' and 25 sack plug set 5250-5011, and 25 sack plug set in stub of 5-1/2" casing.

Verbal approval for above received 8-31-64, R. A. Smith and P. W. Burchell to G. W. Eaton.

18. I hereby certify that the foregoing is true and correct

Fred L. Nabors, District Engineer

SIGNED ORIGINAL SIGNED BY F. H. HOLLINGSWORTH TITLE _____ DATE Sept. 29, 1964

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LAND OFFICE Utah
LEASE NUMBER Utah - 013976
UNIT Salt Wash

LESSEE'S MONTHLY REPORT OF OPERATIONS

State Utah County Grand Field Salt Wash (Mississippian Formation)

The following is a correct report of operations and production (including drilling and producing wells) for the month of September, 1964,

Agent's address P. O. Box 480 Company PAN-AMERICAN-PETROLEUM-CORP.
Farmington, New Mexico Signed ORIGINAL SIGNED BY

Phone 325-8841 Agent's title E. R. TURNER
Administrative Clerk

| 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) |
|-----------------------------|------|-------|----------|---------------|----------------|---------|-------------------------------|-------------------------------|--------------------------------------|--|
| Salt Wash Lease NW/SW 15 | 23S | 17E | 1 | 0 | 0 | -- | 0 | NONE | NONE | Salt Wash Well No. 1 was plugged and abandoned on September 4, 1964 as a result of well ceasing to produce oil or gas in commercial quantities 27 barrels BS&W Bleed off from Tanks September. |

Final Report

Oil Sales to Pure Oil Company
Gas used on lease and vented.

NOTE.—There were 177.52 net barrels 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.

Copy Ake H

Budget Bureau No. 42-R356.5
Approval expires 12-31-60.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LAND OFFICE Utah
LEASE NUMBER Utah - 013976
UNIT Salt Wash

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| 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) |
|-----------------------------|------|-------|----------|---------------|----------------|---------|-------------------------------|-------------------------------|--------------------------------------|---|
| Salt Wash Lease NW/SW 15 | 23S | 17E | 1 | 0 | 0 | -- | 0 | NONE | NONE | Salt Wash Well No. 1 was plugged and abandoned on September 4, 1964 as a result of well ceasing to produce oil or gas in commercial quantities. 27 barrels BS&W Bleed off from Tanks September. |

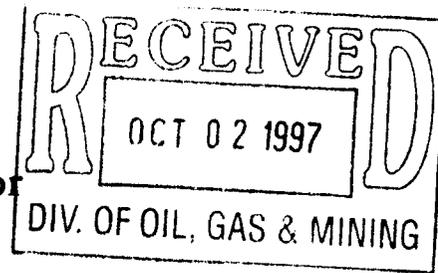
Final Report

COPIES IN FILE OF FORM OGCC 4

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United States Department of the Interior

BUREAU OF LAND MANAGEMENT

Moab District
82 East Dogwood
Moab, Utah 84532

3160
#1-15 Well File
(UT-062)

43-019-10831

CERTIFIED MAIL- RETURN RECEIPT REQUESTED
Certification No. Z 357 319 299

SEP 30 1997

Mr. Don Quigley
Megadon Energy Corporation
175 South West Temple, Suite 20
Salt Lake City, Utah 84101

Re: Surface Restoration of Evaporation Pond
Salt Wash #1-15 Well
T. 23 S., R. 17 E., Section 15
Grand County, Utah
Lease U-31805

Dear Mr. Quigley:

We have reviewed your letter dated September 15, 1997, regarding your plans for the disposal of produced water and the restoration of the pond site located downhill from the #1-15 Well.

Your proposal for reducing the height of berms at the pond site would be feasible and would meet our objectives for surface restoration, as long the slopes were adequately reduced and successfully seeded. The height of the berms would need to be lowered approximately 2-3 feet, and the soil materials would need to be spread across the lower berm slopes into the level areas. There are areas outside of the pond berms where soil was removed and utilized during berm construction that are not supporting vegetation. These unvegetated areas, such as at the southwestern end of the pond, would need to be scarified and seeded. The entire soil surface would need to be scarified 4-6 inches deep (unless bedrock is encountered) with a 6 inch or less distance between the ripped surfaces. The berm slopes and other scarified areas would need to be seeded between October 1 and December 31 with the following mixture of pure live seed:

- | | |
|-------------------|---------------|
| Indian ricegrass | 4 pounds/acre |
| Fourwing saltbush | 4 pounds/acre |
| Sand dropseed | 1 pound/acre |

These procedures would restore the surfaces affected by the construction of the pond site and would resolve the problems documented in the Written Order dated August 22, 1997. Although we believe the specifications outlined above would be the minimum required to successfully restore the pond site, we are willing to discuss any other ideas that you or your contractor may have for reclamation.

When you have a contractor and equipment working at the evaporation pond site, you may want to consider your options for maintaining the #1-15 well site. The erosion of the fill material at the northeastern corner of the well site could be repaired. Although bedrock may preclude opportunities for cutting a drainage ditch along the backside edge of the well pad, it may be feasible to cut a ditch along the backslope of the well pad, above the rock outcrop, to help divert future runoff from crossing the well site. If a backhoe or loader is available, the oily soils inside the berm of the tank battery could be removed.

Please call Rich McClure at (435) 259-2127 or Eric Jones at (435) 259-2117, if any additional information is needed.

Sincerely,

Is/ Brad D Palmer

Assistant District Manager
Resources Management

cc: U-931, Utah State Office, Patty Ramstetter

Mr. Gil Hunt
Utah Division of Oil, Gas, and Mining
P.O. Box 145801
Salt Lake City, Utah 84114-5801