

FILE NOTATIONS

Entered in NID File ✓
Location Map Pinned ✓
Card Indexed ✓

Checked by Chief
Approval Letter
Disapproval Letter

COMPLETION DATA:

Date Well Completed 8/12/79

SI ✓ WW..... TA.....
GW ✓ OS..... PA.....

Location Inspected
Bond released
State or Fee Land

LOGS FILED

Driller's Log..... ✓
Electric Logs (No.) ✓
E..... I..... Dual I Lat..... GR-N..... Micro.....
BHC Sonic GR..... Lat..... MI-L..... Sonic.....
CBLog..... CCLog..... Others.....

PALMER OIL & GAS COMPANY

P.O. Box 2564
BILLINGS, MONTANA 59103
(406) 248-3151

October 11, 1978

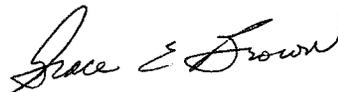
Division of Oil, Gas & Mining
1588 West, North Temple
Salt Lake City, Utah 84116

Gentlemen:

Enclosed please find Application to Drill covering our #17-9 Federal well in Grand County, Utah.

Yours very truly,

PALMER OIL & GAS COMPANY



Grace E. Brown
Drilling Department

gb

Enclosure



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
 Palmer Oil & Gas Company

3. ADDRESS OF OPERATOR
 P. O. Box 2564, Billings, Montana 59103

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*)
 At surface 1120'
~~1120'~~ FEL, 2370' FSL
 At proposed prod. zone same

5. LEASE DESIGNATION AND SERIAL NO.
 USA U-29642

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
 Federal

9. WELL NO.
 17-9

10. FIELD AND POOL, OR WILDCAT
 San Arroyo

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
 17-16S-25E

12. COUNTY OR PARISH
 Grand

13. STATE
 Utah

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
 Approximately 35 miles Northwest of Mack, Colorado 30472

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any)
 1130'

16. NO. OF ACRES IN LEASE
 280

17. NO. OF ACRES ASSIGNED TO THIS WELL
 280

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

19. PROPOSED DEPTH
 6277 Morrison Test

20. ROTARY OR CABLE TOOLS
 Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
 7367' G.L. 7377' K.B.

22. APPROX. DATE WORK WILL START*
 January 1, 1979

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12 3/4"	9 5/8" new	K-55 36#	80'	125 sacks
8 3/4"	7" new	K-55 20#	2500'	150 sacks
6 1/4"	4 1/2" new	K-55 10.5#	6277'	250 sacks

- Surface formation is the Mesaverde. Frontier-5267'. Dakota-5627'. Morrison-5827'.
- No water, oil or other minerals are anticipated. Gas is expected to be encountered at top of the Dakota and in the Morrison.
- A double ram hydraulic BOP will be used and tested to 1000 psi for 15 minutes. Rams will be closed daily.
- ** Water and gel type mud will be used to drill to 90'. Air & mist drilling from 90' to T.D.
- IES and FDC-CNL logs will be run at total depth. All potential zones will be analyzed and if potentially commercial, 4 1/2" casing will be set, cemented and perforated.
- ** No drill stem tests or cores are planned.
- Commencement date will be approximately January 1, 1979, and completion of drilling will be approximately 10 days from commencement date.
- The gas is not dedicated.
- Survey plat enclosed.
- (** See attached sheet for additional information.)

CONDITIONS OF APPROVAL ATTACHED TO OPERATOR'S COPY

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. SIGNED J. G. Routson TITLE Petroleum Engineer DATE Sep 28, 1978
 (This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____
 APPROVED BY W. M. Marten TITLE ACTING DISTRICT ENGINEER DATE NOV 09 1978

NECESSARY FLARING OF GAS DURING DRILLING AND COMPLETION APPROVED SUBJECT TO ROYALTY (NTL-4)

State of Utah, Department of Natural Resources
 Division of Oil, Gas, and Mining
 158 West North Temple
 Salt Lake City, Utah 84116

NOTICE OF APPROVAL

*See Instructions on Reverse Side

State Oil & Gas

ADDITIONAL INFORMATION

UNDER
NTL-6 REQUIREMENTS

Item No.

4. Approximately 200 barrels of gel type mud will be used to drill to 90'. No weighting materials will be maintained.

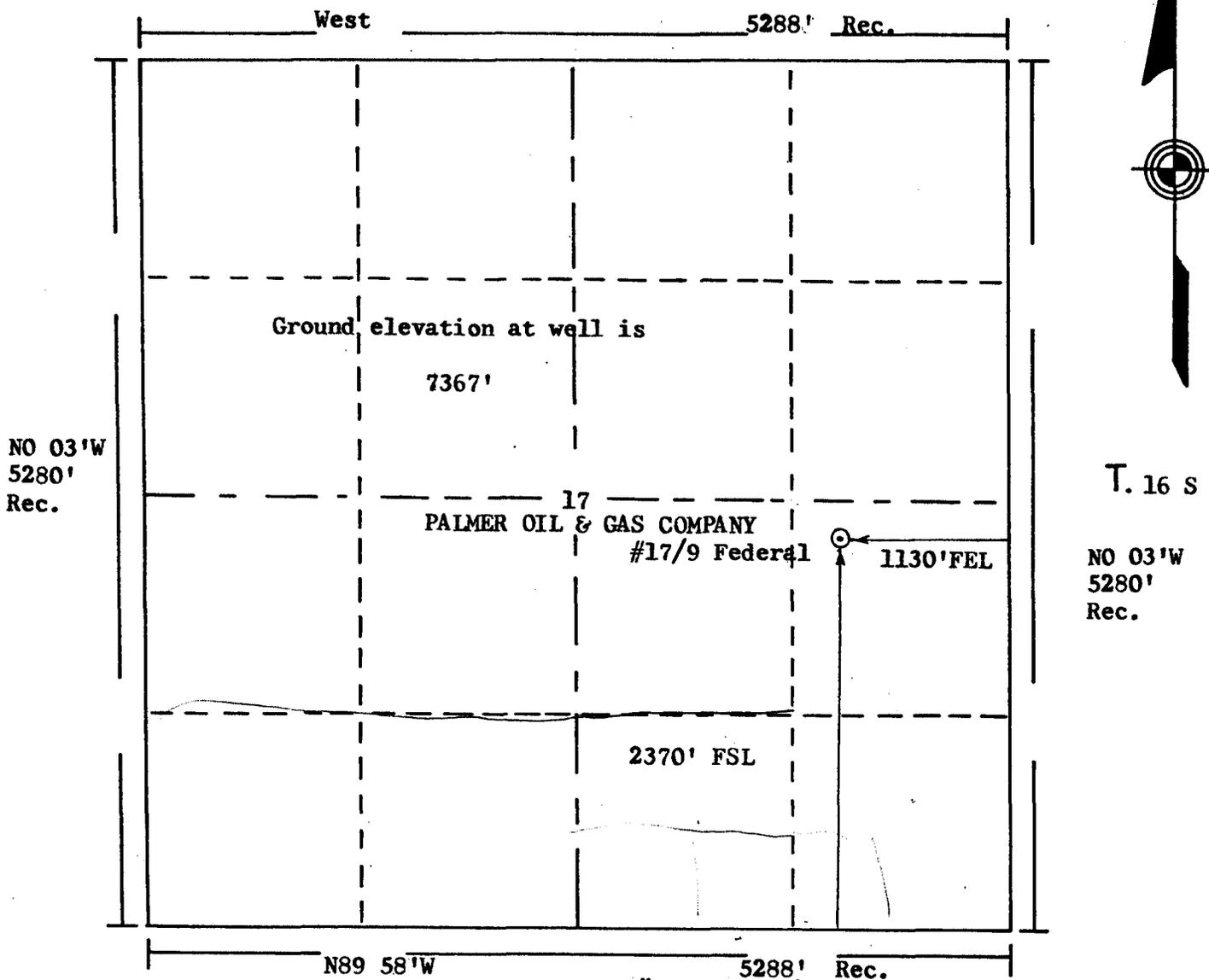
6. We will complete the well in the zones in which the presence of hydrocarbons are found. Potential producing zones ascertained from the drilling of the well will be perforated through 4½" casing and, if necessary to increase productivity, acidized with diluted hydrochloric acid. If necessary, a fracturing treatment will be used utilizing nitrogen, sand and potassium chloride water. All operations will be done in a safe manner in accordance with OSHA standards.
A wellsite sketch on a "Sundry Notice" Form 9-331 will be provided after the fracture treatment has been designed, which can not be done until the well has been drilled and cased and the amount of fracture treatment determined. No flammable fluids will be used.

10. Spacing unit for this well is, the E½E½, S½SW¼, SW¼SE¼. ✓ 149

11. Designation of Operator forms are enclosed.



R. 25 E



Scale... 1" = 1000'

Powers Elevation Company, Inc. of Denver, Colorado
 has in accordance with a request from Jim Routson
 for PALMER OIL & GAS COMPANY
 determined the location of #17/9 Federal
 to be 1130' FEL & 2370' FSL Section 17 Township 16S
 Range 25E of the Salt Lake and Base Meridian, Utah
 Grand County, Utah

I hereby certify that this plat is an
 accurate representation of a correct
 survey showing the location of
 #17/9 Federal

Date: 11

T. Tolson
 Licensed Land Surveyor No.
 State of Utah

LS 2711

NW Cor. Pad
Cut 47.8'

NW Cor. Pit Fill 4.0'

Drainage

NE Cor. Pit
Fill 24.0'

Road
To
San
Arroyo
Camp

Pit
50' X 175'

Pad
200' X 325'

SE Cor. Pit
Fill 18.4'

PALMER OIL & GAS COMPANY
West Edge Pad #17/9 Federal
Cut 41.9'

SW Cor. Pit
Fill 10.6'

Cut 0.0'

NOTE:

Pad and pit area is covered with heavy brush

SCALE: 1" = 50'

Existing

Road

Proposed
Access
Road

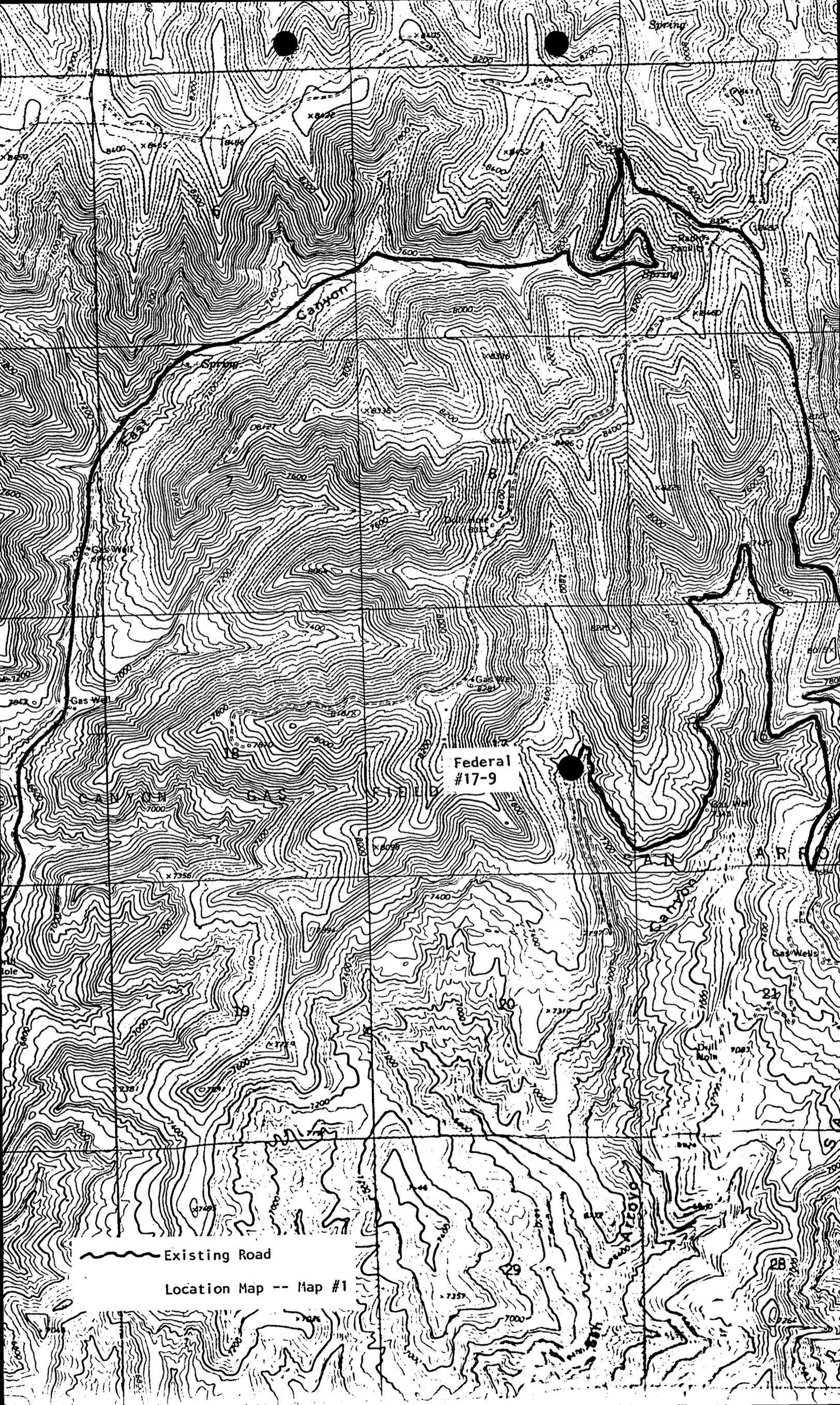
PALMER OIL & GAS COMPANY
#17/9 Federal
1130' FEL & 2370' FSL
Sec. 17, T16S, R25E
Grand, Utah

SW Cor. Pad
Cut 13.4'

SE Cor. Pad
Fill 14.0'

Proposed Access
Flagged Here

BY: Mike Zancanella
POWERS ELEVATION CO., INC.
Grand Junction, Colorado
303/243/8988



Canyon

Spring

Federal #17-9

CAN AR RO

Existing Road

Location Map -- Map #1

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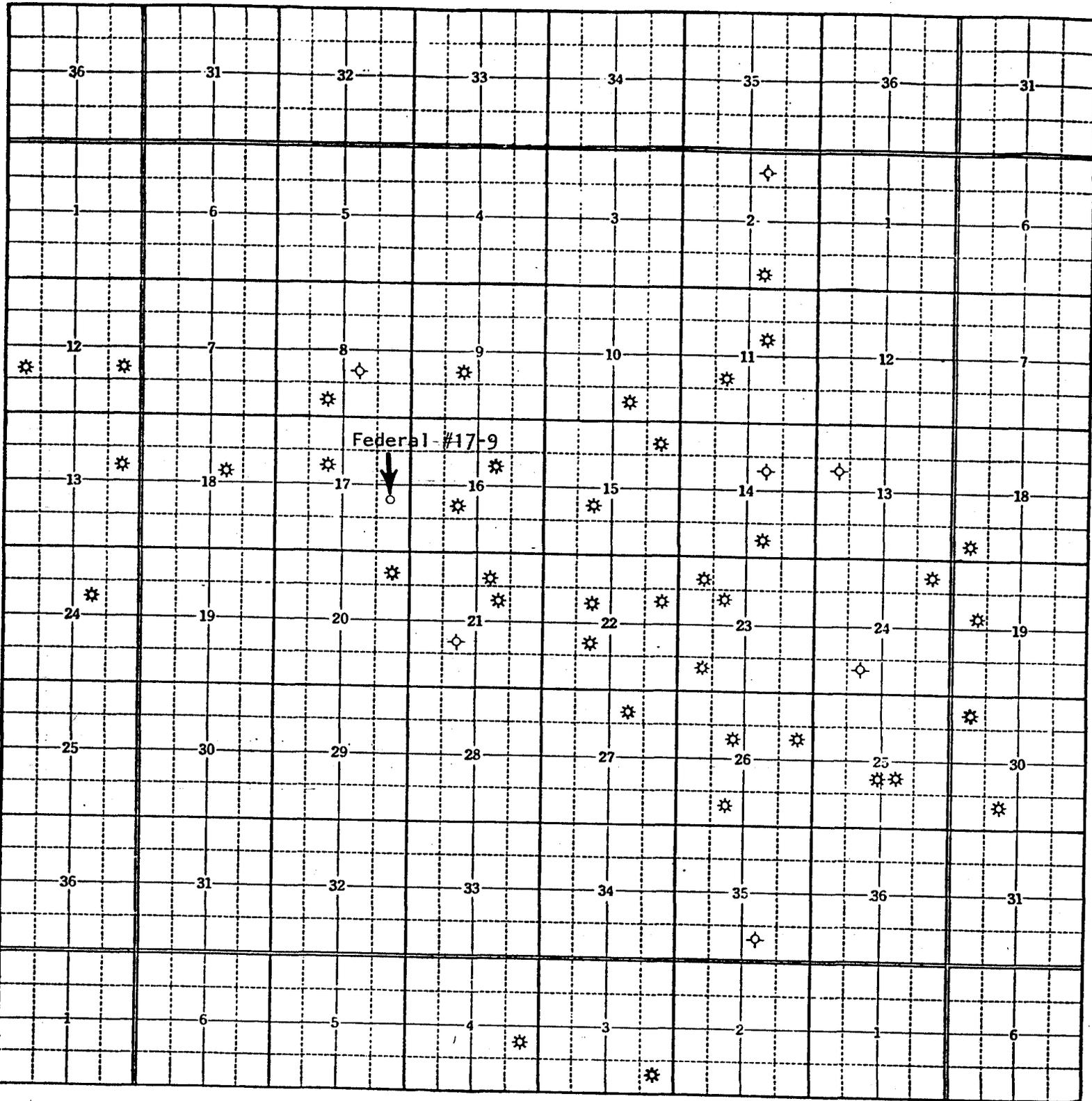
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Township 16S, Range 25E, County Grand, State Utah

Island Township Plat



Map #2 -- Federal #17-9

WELL CONTROL PLAN

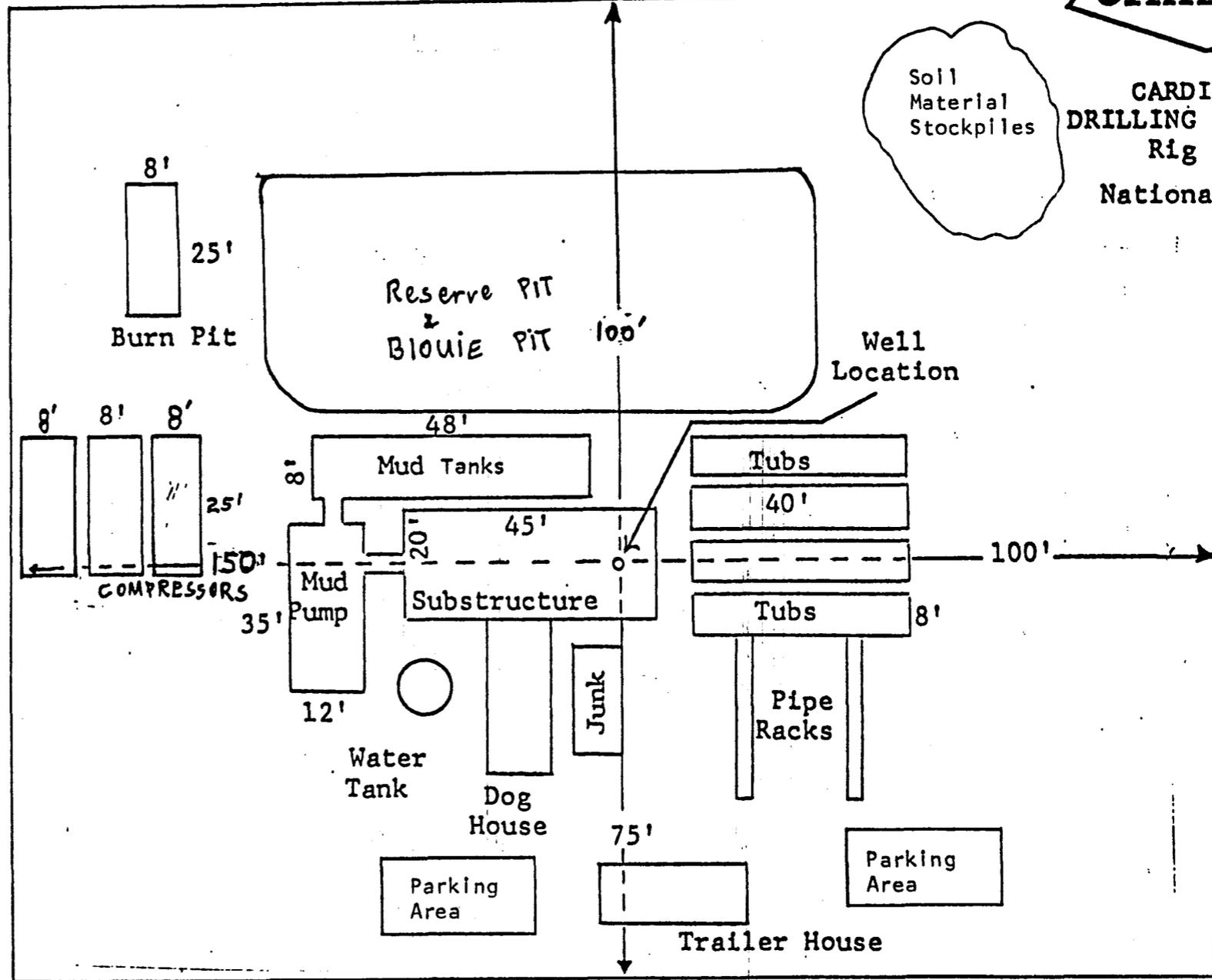
1. Surface Casing: 9-5/8" O.D. 35#/ft., Grade K-55, Short T&C, set at 80' or deeper, cemented with pump and plug method back to the surface or bottom of cellar.
2. Casinghead Flange: 9-5/8" x 10-3/4" top 1500 psig W.P. Larkin (or equivalent) casinghead with two 2" 1500 psi L.P. outlets.
3. Intermediate Casing: 7" O.D. 20#/ft., Grade K-55, Short T&C, set at 2500', cemented with pump and plug method using 150 sacks or more. At least 12 hours WOC time will be required before drilling the plug.
4. Blowout Preventor: A 10" 3000 psig W.P. Double gate hydraulic Shaffer BOP (or equivalent) with drill; pipe rams and blind rams. All fill, kill and choke lines will be minimum of 2" 2000 psi W.P.
5. Auxillary equipment: (a) Drill pipe floats will be allowed at contractor's discretion. (b) Visual monitoring of air returns will be maintained.
6. Anticipated bottom-hole pressure is less than 1000 psi at 6277 or a gradient of .159 psi/ft. or less. No abnormal temperatures or hydrogen sulfide gas are anticipated.

PALMER OIL & GAS COMPANY

J. Q. Rawson



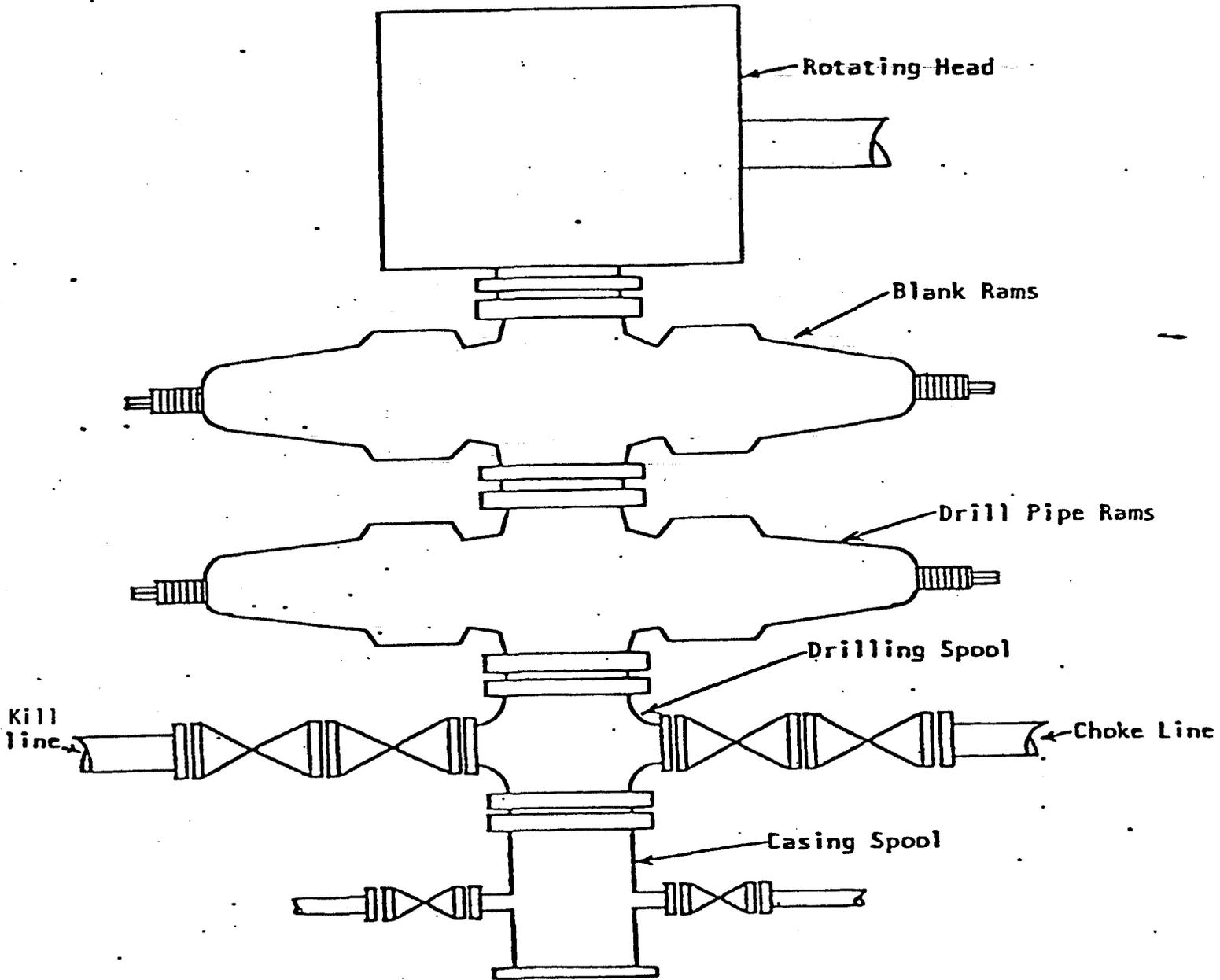
CARDINAL
DRILLING COMPANY
Rig #4
National T-32

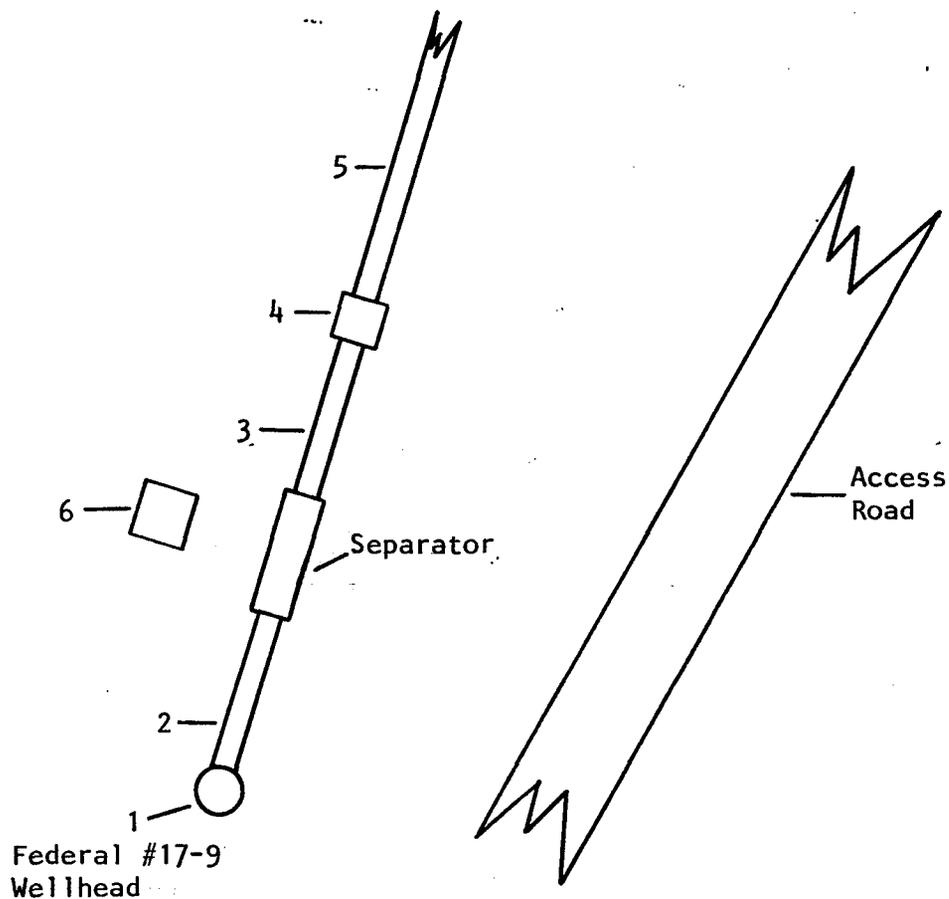


AIR DRILLED WELLS
using

900 series well head equipment

Interval from 500 to TD





1. Wellhead will be 4-1/2" x 2-3/8" flange x screw with donut hanger full opening valve. All 2000# WP or greater to meet PO&GC specifications.
2. Line between wellhead and separator will be approx. 75 feet in length and constructed of 2-3/8" .218 wall seamless, welded, wrapped and buried approx. 5 feet deep.
3. Line between separator and meter will be 4" or 4.028 OD seamless, welded, coated, wrapped and buried and will be approx. 25 feet in length.
4. Meter run will be American 4" run, 500 psi static rating, 100" of water differential rating.
5. Line between meter run and Mesa Gas gathering line will be 3" seamless, welded pipe and will be approx. 1000' feet in length.
6. Pit, if necessary will be 10' x 10', enclosed by dikes and fenced.

TWELVE POINT PLAN OF DEVELOPMENT

1. Existing road including location of exit from the main highway.
Location is approximately 30 miles North of US 6 and 50 on the East Canyon Road to the San Arroyo Radio Tower. Then approximately 6½ miles South on an existing road.
2. Planned access road.
See Map No. 1.
3. Location of existing wells.
See Map No. 2.
4. Location of tank batteries, production facilities and production gathering and service lines - See Plat No. 3 attached.
 - 1) The existing drillsite pad will be used.
 - 2) A gas separator with dimensions of 3' x 8' to be set within 100' of the well bore, if well produces any fluids and a dehydrator will possibly be used.
 - 3) Gas separator unit will be set of 3" x 12" x 5' timbers.
 - 4) Gas separator will be a compact unit totally enclosed in a metal house.See 10. for rehabilitation of disturbed areas no longer needed for operations after construction is completed.
5. Location and type of water supply.
Grand Valley Water Users and hauled from a ditch near Mack, Colorado, or from West Salt Creek drain ditch near Mack, Colorado.
6. Source of construction materials.
No construction materials will be needed for the access road or location.
7. Methods for handling waste disposal.
 - 1) Cuttings will be buried 3' under top soil.
 - 2) Drilling fluids will be left in open pit to evaporate.
 - 3) Produced oil or condensate (if any) will be stored in a tank and sold. Produced water will be disposed of in compliance with rules and regulations of the USGS and the State of Utah.
 - 4) Portable toilet to be provided.
 - 5) Trash will be burned in burn pit.
 - 6) Drilling fluid in pit, which will be very minimal due to air drilling, will be left to dry, if necessary. After pit area is sufficiently dry, cuttings will be pushed into pit and sub-soil to be placed on top of any remaining fluid and cuttings; then top soil will be used to cover both pit and location area.
8. Ancillary facilities.
No camps or airstrips will be used.

9. Wellsite layout.

See Plat No. 1 of rig layout and Plat No. 2 of necessary cut to build location.

10. Plans for restoration of the surface.

On completion of the drilling of this well, all pits will be backfilled and top soil replaced and re-contoured back to original terrain. Upon abandonment all disturbed area, including the location and access road, will be recontoured, ripped or scarified as needed, and revegetated using the following seed formula.

Indian Ricegrass	1 lb/acre
Crested Wheatgrass	1 lb/acre
Sand Drop Seed	1 lb/acre
Globe Mallow	1 lb/acre
Wild Sunflower	1 lb/acre
Four Wing Saltbush	1 lb/acre
Shadscale	1 lb/acre
Winterfat	1 lb/acre

All seeding will be done between September 15 - November 15.

11. Other information.

- 1) Topography - valleys and mesas
- 2) Vegetation - grassland with greasewood and sagebrush. Land is used for grazing. There are no reservoirs on the lease. An archeological survey will be done by the Powers Elevation Company of Grand Junction, Colorado on this 40 acre tract.
- 3) Surface ownership of involved lands is federal.

12. Lessee's or operator's representative:

J. G. Routson
P. O. Box 2564
Billings, Montana 59103

Office Phone (406) 248-3151
Home Phone (406) 245-8797

13. I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite and access route; that I am familiar with the conditions which presently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein is being contracted for at this time. The contractor and sub-contractors will conform with this plan and the terms and conditions under which it is proposed.

Date:

J G Routson

STATE OF UTAH
DIVISION OF OIL, GAS, AND MINING

** FILE NOTATIONS **

Date: Oct. 16 -

Operator: Palmer Oil & Gas

Well No: Fed. 17-9

Location: Sec. 17 T. 16 S R. 25 E County: Grand

File Prepared:

Entered on N.I.D.:

Card Indexed:

Completion Sheet:

API Number: 45-019-30472

CHECKED BY:

Administrative Assistant: [Signature]

Remarks: OK - fits spacing order

Petroleum Engineer: _____

Remarks: _____

Director: [Signature]

Remarks: _____

INCLUDE WITHIN APPROVAL LETTER:

Bond Required:

Survey Plat Required:

Order No. 149-1

Surface Casing Change to _____

Rule C-3(c), Topographic exception/company owns or controls acreage within a 660' radius of proposed site

O.K. Rule C-3

O.K. In _____ Unit

Other: _____

*Zone III, #2
Drill. Unit
topog. to 500' excep. requirement will be provided letter 10/16/78
[Signature]*

Letter Written/Approved

SCOTT M. MATHESON
Governor



OIL, GAS, AND MINING BOARD

GORDON E. HARMSTON
Executive Director,
NATURAL RESOURCES

STATE OF UTAH

DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL, GAS, AND MINING

1588 West North Temple
Salt Lake City, Utah 84116
(801) 533-5771

I. DANIEL STEWART
Chairman

CHARLES R. HENDERSON
JOHN L. BELL
THADIS W. BOX
C. RAY JUVELIN

CLEON B. FEIGHT
Director

October 16, 1978

Palmer Oil and Gas Company
P.O. Box 2564
Billings, Montana 59103

Re: Well No. Federal 17-9
Sec. 17, T. 16 S, R. 25 E,
Grand County, Utah

Gentlemen:

Insofar as this office is concerned, approval to drill the above referred to well is hereby granted in accordance with the Order issued in Cause No. 149-1, with a topographic exception to the 500' tolerance requirement.

Should you determine that it will be necessary to plug and abandon this well, you are hereby requested to immediately notify the following:

CLEON B. FEIGHT, Director
HOME: 466-4455
OFFICE: 533-5771

Enclosed please find Form OGC-8-X, which is to be completed whether or not water sands (aquifers) are encountered during drilling.

Further, it is requested that this Division be notified within 24 hours after drilling operations commence, and that the drilling contractor and rig number be identified.

The API number assigned to this well is 43-019-30472

Very truly yours,

DIVISION OF OIL, GAS, AND MINING

CLEON B. FEIGHT
Director

cc: U.S. Geological Survey

PALMER OIL & GAS COMPANY

P.O. Box 2564
BILLINGS, MONTANA 59103
(406) 248-3151

October 16, 1978

Division of Oil, Gas & Mining
1588 West, North Temple
Salt Lake City, Utah 84116

Attention: Ms. Scheree Wilcox

Gentlemen:

With reference to our #17-9 Federal well in the NE $\frac{1}{4}$ SE $\frac{1}{4}$ Section 17, 16S-25E, Grand County, Utah, we would like to request a topographic exception for this location. That was the only possible place for a location in the spacing unit boundry.

Thank you.

Yours very truly,

PALMER OIL & GAS COMPANY

James G. Routson
Petroleum Engineer

JGR/gb



United States Department of the Interior
Geological Survey
8440 Federal Building
Salt Lake City, Utah 84138

Usual Environmental Analysis

Lease No. U-29642

Operator Palmer Oil & Gas Company

Well No. 17-9 Federal

Location NE¹/₄ SE¹/₄ Sec. 17 T. 16 S. R. 25 E.

County Grand State Utah Field San Arroyo

Status: Surface Ownership Federal Minerals Federal

Joint Field Inspection Date October 25, 1978

Participants and Organizations:

<u>Elmer Duncan</u>	<u>BLM - Moab, Utah</u>
<u>Bill Buniger</u>	<u>Operator Rep. & Dirt Contractor</u>
<u>Ray Foster</u>	<u>USGS</u>
<u> </u>	<u> </u>

Related Environmental Analyses and References:

- (1) Unit Resource Analysis
Book Mountain Planning Unit (06-01)
BLM - Moab
- (2)

*Pal 200 x 325
Pit 50 x 75
150' new access
Stack pile for oil
1.6 ac
Flow line not used*

Analysis Prepared by: Ray Foster
Environmental Scientist
Salt Lake City, Utah

Reviewed by: George Diwachak
Environmental Scientist
Salt Lake City, Utah

Date October 25, 1978

Noted - G. Diwachak

Proposed Action:

On October 2, 1978, Palmer Oil and Gas Company filed an Application for Permit to Drill the No. 17-9 Federal development well, a 6277-foot gas test of the Morrison formation; located at an elevation of 7367 ft. in the NE $\frac{1}{4}$ SE $\frac{1}{4}$ Sec. 17, T. 16 S., R. 25 E., on Federal mineral lands and Federal surface; lease No. U-29642. There was no objection raised to the wellsite nor to the access road.

A rotary rig would be used for the drilling. An adequate casing and cementing program is proposed. Fresh-water sands and other mineral-bearing formations would be protected. A Blowout Preventor would be used during the drilling of the well. The proposed pressure rating should be adequate. Details of the operator's NTL-6 10-Point Sub-surface and 13-Point Surface Protection Plans are on file in the U.S.G.S. District Office in Salt Lake City, Utah and the U.S.G.S. Northern Rocky Mountain Area Office in Casper, Wyoming.

A working agreement has been reached with the BLM, the controlling surface agency. Rehabilitation plans would be decided upon as the well neared completion; the Surface Management Agency would be consulted for technical expertise on those arrangements.

The operator proposes to construct a drill pad 200 ft. wide x 325 ft. long and a reserve pit 50 ft., x 75 ft. A new access road would be constructed 18 ft., wide x 150 ft. long, from an existing and improved road. The operator proposes to construct production facilities on disturbed area of the proposed drill pad. The northwest corner of pad would be on a 3:1 slope.

If production is established, plans for a gas flow line would be submitted to the appropriate agencies for approval. The anticipated starting date is January 1, 1979, and duration of drilling activities would be about 10 days.

Location and Natural Setting:

The proposed drillsite is approximately 35 miles northwest of Mack, Colorado, the nearest town. A fair road runs adjacent to the location. This well is in the San Arroyo field.

Topography:

Mountain terrain dissected by canyons. The location is on the west side of a narrow canyon.

Geology:

The surface geology is Mesa Verde. The soil is sandy loam. No geologic hazards are known near the drillsite. Seismic risk for the area is minor. Anticipated geologic tops are filed with the 10-Point Subsurface Protection Plan.

Approval of the proposed action would be conditioned that adequate and sufficient electric/radioactive/density logging surveys would be made to locate and identify any potential mineral resources. Production casing and cementing would be adjusted to assure no influence of the hydrocarbon zones through the well bore on these minerals. In the event the well is abandoned, cement plugs would be placed with drilling fluid in the hole to assure protection of any mineral resources.

The potential for loss of circulation would exist. Loss of circulation may result in the lowering of the mud levels, which might permit exposed upper formations to blowout or to cause formation to slough and stick to drill pipe. A loss of circulation would result in contamination due to the introduction of drilling muds, mud chemicals, filler materials, and water deep in to the permeable zone, fissures, fractures, and caverns within the formation in which fluid loss is occurring. The use of special drilling techniques, drilling muds, and lost circulation materials may be effective in controlling lost circulation. Operator proposes to use air and mist drilling methods which would eliminate lost circulation problems.

A geologic review of the proposed action has been furnished by the Area Geologist, U.S. Geological Survey, Salt Lake City, Utah.

The operator's drilling, cementing, casing and blowout prevention programs have been reviewed by the Geological Survey engineers and determined to be adequate.

Soils:

No detailed soil survey has been made of the project area. The top soils in the area range from a sandy clay to a clay type soil. The soil is subject to runoff from rainfall and has a high runoff potential and sediment production would be high. The soils are mildly to moderately alkaline and support the salt-desert shrub community. The pinon, juniper association is also present.

Top soil would be removed from the surface and stockpiled on the north side of the pad. The soil would be spread over the surface of disturbed areas when abandoned to aid in rehabilitation of the surface. Rehabilitation is necessary to prevent erosion and encroachment of undesired species on the disturbed areas. The operator proposes to rehabilitate the location and access roads per the recommendations of the Bureau of Land Management.

Approximately 1.6 acres of land would be stripped of vegetation. This would increase the erosional potential. Proper construction practice, construction of water bars, reseeding of slope-cut area would minimize this impact.

Air:

No specific data on air quality is available at the proposed location. There would be a minor increase in air pollution due to emissions from rig and support traffic engines. Particulate matter would increase due to dust from travel over unpaved dirt roads. The potential for increased air pollution due to leaks, spills and fire would be possible.

Relatively heavy traffic would be anticipated during the drilling-operations phase, increasing dust levels and exhaust pollutants in the area. If the well was to be completed for production, traffic would be reduced substantially to a maintenance schedule with a corresponding decrease of dust levels and exhaust pollutants to minor levels. If the project results in a dry hole, all operations and impact from vehicular traffic would cease after abandonment. Due to the limited number of service vehicles and limited time span of their operation, the air quality would not be substantially reduced.

Toxic or noxious gases would not be anticipated. Operator would mist bluey line to control dust.

Precipitation:

Annual rain fall should range from about 8 to 11" at the proposed location. The majority of the numerous drainages in the surrounding area are of a non-perennial nature flowing only during early spring runoff and during extremely heavy rain storms. This type of storm is rather uncommon as the normal annual precipitation is around 8".

Winds are medium and gusty, occurring predominately from west to east. Air mass inversions are rare. The climate is semi-arid with abundant sunshine, hot summers and cold winters and temperature variations on a daily and seasonal basis.

Surface Water Hydrology:

Drainage is to the south into Arroyo Canyon and eventually to the Colorado River.

Some additional erosion would be expected in the area since surface vegetation would be removed. If erosion became serious, drainage systems such as water bars and dikes would be installed to minimize the problem. The proposed project should have minor impact on the surface water systems. The potentials for pollution would be present from leaks or spills. The operator is required to report and clean-up all spills or leaks.

Ground Water Hydrology:

Some minor pollution of ground water systems would occur with the introduction of drilling fluids (filtrate) into the aquifer. This is normal and unavoidable during rotary drilling operations. The

potential for communication, contamination and comingling of formations via the well bore would be possible. The drilling program is designed to prevent this. There is need for more data on hydrologic systems in the area and the drilling of this well may provide some basic information as all shows of fresh water would be reported. Water production with the gas would require disposal of produced water per the requirements of NTL-2B. The depths of fresh water formations are listed in the 10-Point Subsurface Protection Plan. There would be no tangible effect on water migration in fresh water aquifers. The pits would be unlined. If fresh water should be available from the well, the owner or surface agency may request completion as a water well if given approval.

Vegetation:

Consists of scrub oak, mountain mahogany, serviceberry, piñon and spruce. Plants in the area are of the salt-desert-shrub types grading to the piñon-juniper association.

Proposed action would remove about 1.6 acres of vegetation. Removal of vegetation would increase the erosional potential and there would be a minor decrease in the amount of vegetation available for grazing.

The operator proposes to rehabilitate the surface upon completion of operations.

Wildlife:

Animal and plant inventory has been made by the BLM. No endangered plants or animals are known to habitat on the project area. The fauna of the area consists predominantly of mule deer, coyotes, rabbits, foxes, and varieties of small ground squirrels and other types of rodents and various types of reptiles. The area is used by man for the primary purpose of grazing domestic livestock and sheep. The birds of the area are raptors, finches, ground sparrows, magpies, crows, and jays.

Social-Economic Effect:

An on the ground surface archaeological reconnaissance would be required prior to approval of the proposed action. Appropriate clearances would then be obtained from the surface managing agency. If a historic artifact, an archaeological feature or site is discovered during construction operations; activity would cease until the extent, the scientific importance, and the method of mitigating the adverse effects could be determined by a qualified cultural resource specialist.

There are no occupied dwellings or other facilities of this nature in the general area. Minor distractions from aesthetics would occur over the lifetime of the project and is judged to be minor. All permanent facilities placed on the location would be painted a color to blend in with the natural environment. Present use of the area is grazing, recreation, and oil and gas activities.

Noise from the drilling operation may temporarily disturb wildlife and people in the area. Noise levels would be moderately high during drilling and completion operations. Upon completion, noise levels would be infrequent and significantly less. If the area is abandoned, noise levels should return to pre-drilling levels.

The site is not visible from any major roads. After drilling operations, completion equipment would be visible to passersby of the area but would not present a major intrusion.

The economic effect of one well would be difficult to determine. The overall effect of oil and gas drilling and production activity are significant in Grand County.

But should this well discover a significant new hydrocarbon source, local, state and possibly national economics might be improved. In this instance, other development wells would be anticipated, with substantially greater environmental and economic impacts.

Should the wellsite be abandoned, surface rehabilitation would be done according to the surface agency's requirements and to USGS's satisfaction. This would involve leveling, contouring, reseeding, etc., of the location and possibly the access road. If the well should produce hydrocarbons, measures would be undertaken to protect wildlife and domestic stock from the production equipment.

There are no national state, or local parks, forests, wildlife refuges or ranges, grasslands, monuments, trails or other formally designated recreational facilities near the proposed location.

The proposed location is within the Book Mountain Planning Unit. This Environmental Assessment Record was compiled by the Bureau of Land Management, the surface managing agency of the Federal surface in the area. The study includes additional information on the environmental impact of oil and gas operations in this area and gives land use recommendations. The E.A.R. is on file in the agency's State offices and is incorporated herein by reference.

Waste Disposal:

The mud and reserves pits would contain all fluids used during the drilling operations. A trash pit would be utilized for any solid wastes generated at the site and would be buried at the completion of the operations. Sewage would be handled according to State sanitary codes. For further information, see the 13-Point Surface Plan.

Alternative to the Proposed Action:

1) Not Approving the Proposed Permit--the Oil and Gas Lease Grants the Lessee Exclusive Right to Drill for, Mine, Extract, Remove and Dispose of All Oil and Gas Deposits.

Under leasing provisions, the Geological Survey has an obligation to allow mineral development if the environmental consequences are not too severe or irreversible. Upon rehabilitation of the site, the environmental effects of this action would be substantially mitigated, if not totally annulled. Permanent damage to the surface and sub-surface would be prevented as much as possible under U.S.G.S. and other controlling agencies supervision with rehabilitation planning reversing almost all effects. Additionally, the growing scarcity of (oil and gas) should be taken into consideration. Therefore, the alternative of not proceeding with the proposed action at this time is rejected.

2) Minor relocation of the wellsite and access road or any special, restrictive stipulations or modifications to the proposed program would not significantly reduce the environmental impact. There are no severe vegetative, animal or archaeological-historical-cultural conflicts at the site. Since only a minor impact on the environment would be expected, the alternative of moving the location is rejected. At abandonment, normal rehabilitation of the area such as contouring, reseeding, etc., would be undertaken with an eventual return to the present status as outlined in the 13-Point Surface Plan.

Adverse Environmental Effects Which Cannot Be Avoided:

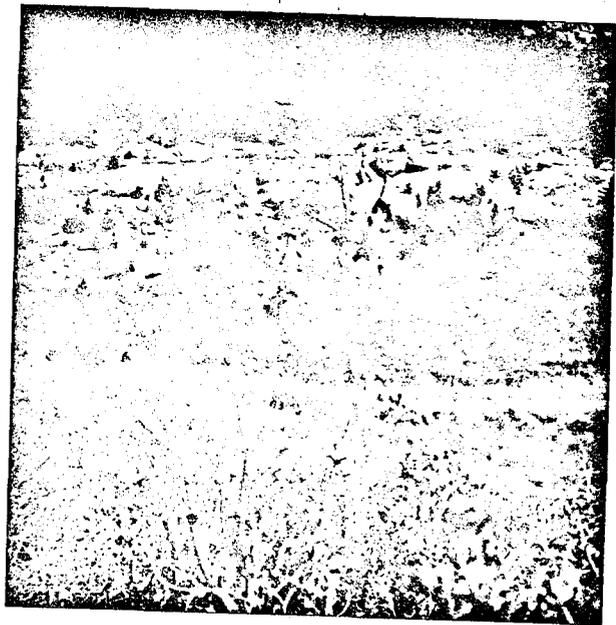
Surface disturbance and removal of vegetation from approximately 1.6 acres of land surface for the lifetime of the project which would result in increased and accelerated erosional potential. Grazing would be eliminated in the disturbed areas and there would be a minor and temporary disturbance of wildlife and livestock. Minor induced air pollution due to exhaust emissions from rig engines of support traffic engines would occur. Minor increase in dust pollution would occur due to vehicular traffic associated with the operation. If the well is a gas producer, additional surface disturbance would be required to install production pipelines. The potential for fires, leaks, spills of gas, oil and water would exist. During the construction and drilling phases of the project, noise levels would increase. Potential for subsurface damage to fresh water aquifers and other geologic formations exists. Minor distractions from aesthetics during the lifetime of the project would exist. If the well is a producer, an irreplaceable and irretrievable commitment of resources would be made. Erosion from the site would eventually be carried as sediment in the Colorado River.

Determination:

This requested action ~~does~~/does not constitute a major Federal action significantly affecting the environment in the sense of NEPA, Sec. 102(2)(C).

11/6/78
Date

E. W. Simpson
District Engineer
U.S. Geological Survey
Conservation Division
Oil and Gas Operations
Salt Lake City District



FROM: : DISTRICT GEOLOGIST, ME, SALT LAKE CITY, UTAH

TO : DISTRICT ENGINEER, G, SALT LAKE CITY, UTAH

SUBJECT: APD MINERAL EVALUATION REPORT

LEASE NO. USA-U-29642

OPERATOR: Palmer Oil & Gas Company

WELL NO. 17-9

LOCATION: 1/4 NE 1/4 SE 1/4 sec. 17, T. 16S., R. 25E., SLM

GRAND County, UTAH

1. Stratigraphy: The well will spud in the Mesaverde Group. Operator anticipates gas to occur at the top of the Dakota & in the Morrison Fm.
2. Fresh Water: Fresh water may be encountered in the Mesaverde.
3. Leasable Minerals: Coal beds may occur in the Chesterfield coal zone, Sulphur Canyon Sandstone, Neslen coal-bearing member, Palisade coal zone & the Sege Sandstone member (all are of the Price River Formation of the Mesaverde Group). If coal beds are encountered protection for each bed should be considered.
4. Additional Logs Needed: no.
5. Potential Geologic Hazards: unknown.
6. References and Remarks: Within the San Arroyo R.S.S.

Signature: emb

Date: 10 -10 -78

DIVISION OF OIL, GAS AND MINING

SPUDDING INFORMATION

NAME OF COMPANY: Palmer Oil and Gas

WELL NAME: Federal #17-9

SECTION 17 NE SE TOWNSHIP 16S RANGE 25E COUNTY Grand

DRILLING CONTRACTOR Cardinal Drilling

RIG # 4

SPUDDED: DATE 29 June 1979

TIME 8:30 a.m.

HOW rotary

DRILLING WILL COMMENCE ASAP

REPORTED BY _____

TELEPHONE # (406) 248-3151

DATE July 5, 1979

SIGNED *M. J. M.*

Red
USGS
Rm Joseph

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

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 Form 9-331-C for such proposals.)

1. oil well gas well other

2. NAME OF OPERATOR
Palmer Oil & Gas Company

3. ADDRESS OF OPERATOR
P. O. Box 2564, Billings, Montana 59103

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: 1120' FEL, 2370' FSL
AT TOP PROD. INTERVAL: same
AT TOTAL DEPTH: same

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF	<input type="checkbox"/>		<input type="checkbox"/>
FRACTURE TREAT	<input type="checkbox"/>		<input type="checkbox"/>
SHOOT OR ACIDIZE	<input type="checkbox"/>		<input type="checkbox"/>
REPAIR WELL	<input type="checkbox"/>		<input type="checkbox"/>
PULL OR ALTER CASING	<input type="checkbox"/>		<input type="checkbox"/>
MULTIPLE COMPLETE	<input type="checkbox"/>		<input type="checkbox"/>
CHANGE ZONES	<input type="checkbox"/>		<input type="checkbox"/>
ABANDON* (other)	<input type="checkbox"/>	Status Report	<input type="checkbox"/>

5. LEASE
U-29642

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
Federal

9. WELL NO.
17-9

10. FIELD OR WILDCAT NAME
San Arroyo

11. SEC., T., R., M. OR BLK. AND SURVEY OR AREA
NE $\frac{1}{4}$ SE $\frac{1}{4}$ Sec. 17-16S. 25E

12. COUNTY OR PARISH
Grand

13. STATE
Utah

14. API NO.
43-019-3047

15. ELEVATIONS (SHOW DF, KDB, AND WD)
7367' GL, 7378' KB

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

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.)*

Total Depth 6578' Driller, 6576' Logger.

Ran 178 joints new 4 $\frac{1}{2}$ " 10.5# & 11.6# casing to 6578' KB. Cemented with 225 sacks RFC with 1000 gallons mud flush ahead plug down at 11:15 PM on 7/18/79.

Subsurface Safety Valve: Manu. and Type _____ Set @ _____ Ft.

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

SIGNED Grace E. Brown TITLE Assistant Secretary DATE July 19, 1979
Grace E. Brown
(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 DUPLICATE

(See instructions on reverse side)

Form approved.
Budget Bureau No. 42-R355.5.

9

5. LEASE DESIGNATION AND SERIAL NO.

U-29642

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Federal

9. WELL NO.

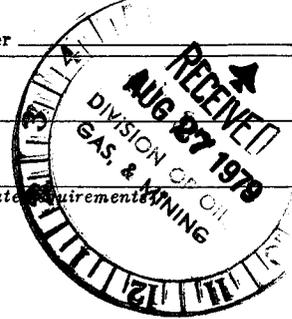
17-9

10. FIELD AND POOL, OR WILDCAT

San Arroyo

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

NE $\frac{1}{4}$ Sec. 17-T16S-R25E



12. COUNTY OR PARISH

Grand

13. STATE

Utah

19. ELEV. CASING HEAD

18. ELEVATIONS (DF, RKB, RT, GR, ETC.)*
7367' GL, 7378' KB

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

1a. TYPE OF WELL: OIL WELL GAS WELL DRY Other _____

b. TYPE OF COMPLETION: NEW WELL WORK OVER DEEP-EN PLUG BACK DIFF. RESVR. Other _____

2. NAME OF OPERATOR
Palmer Oil & Gas Company

3. ADDRESS OF OPERATOR
P. O. Box 2564, Billings, Montana 59103

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)
At surface 1120' FEL, 2370' FSL
At top prod. interval reported below Same
At total depth Same

14. PERMIT NO. DATE ISSUED

15. DATE SPUNNERED 16. DATE T.D. REACHED 17. DATE COMPL. (Ready to prod.)
Spudder-11/30/78 7/16/79 8/18/79
Rotary -6/29/79

20. TOTAL DEPTH, MD & TVD 21. PLUG, BACK T.D., MD & TVD 22. IF MULTIPLE COMPL., HOW MANY* 23. INTERVALS DRILLED BY ROTARY TOOLS CABLE TOOLS
6578' CIBP 6438' 0 - T.D.

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*
Dakota 5720-5858'
25. WAS DIRECTIONAL SURVEY MADE
No

26. TYPE ELECTRIC AND OTHER LOGS RUN
FDC-CNL-GR, IES, OWP
27. WAS WELL CORED
No

28. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
9-5/8"	36#	79'	12-1/4"	50 sx	None
7"	20#	1746'	8-3/4"	200 sx	None
4-1/2"	11.6, 10.5#	6578'	6-1/4"	225 sx	None

29. LINER RECORD					30. TUBING RECORD		
SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)

31. PERFORATION RECORD (Interval, size and number)
Entrada: 6480-6484' (9 shots total)
Dakota: 5720, 5745, 5753, 5760, 5772, 5802, 5821, 5827, 5831, 5835, 5856, 5858' (12 shots total)
Morrison: 6416-6423' (15 shots total)

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.	
DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
6416-6423'	Acidized w/500 gal. 15% MSR
5720-5858'	Acidized w/750 gal. 7 1/2% MSR
Frac: 20,000#	100 mesh, 8,000# 20/40 sand, 2,670,000 scf nitrogen

33.* PRODUCTION (Set CIBP at 6438')
DATE FIRST PRODUCTION: Shut in
PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump): Shut in
WELL STATUS (Producing or shut-in): Shut in

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
8/17/79	1	1"	→		79		
FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)	
74 psi	330 psi	→		1900			

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)
To be sold
TEST WITNESSED BY
R. D. Ballantyne

35. LIST OF ATTACHMENTS

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records
SIGNED J. G. Routson TITLE Petroleum Engineer DATE August 20, 1979

*(See Instructions and Spaces for Additional Data on Reverse Side)

INSTRUCTIONS

General: This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency 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. See instructions on items 22 and 24, and 33, below regarding separate reports for separate completions.

If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), formation and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attachments should be listed on this form, see item 35.

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 18: Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments. **Items 22 and 24:** If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

Item 29: "Sacks Cement": Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool.

Item 33: Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.)

37. SUMMARY OF POROUS ZONES:
SHOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS THEREOF; CORED INTERVALS; AND ALL DRILL-STEM TESTS, INCLUDING DEPTH INTERVAL TESTED, CUSHION USED, TIME TOOL OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.
Log Tops:			
Dakota Silt	5611'		
Dakota Sand	5680'		
Morrison	5880'		

38.

GEOLOGIC MARKERS

NAME	TOP	
	MEAS. DEPTH	TRUE VERT. DEPTH

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

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 Form 9-331-C for such proposals.)

1. oil well gas well other

2. NAME OF OPERATOR
Tenneco Oil Company

3. ADDRESS OF OPERATOR
720 S. Colorado Blvd., Denver, CO 80222

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: 1120'FEL & 2370'FSL
AT TOP PROD. INTERVAL:
AT TOTAL DEPTH:

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF	<input type="checkbox"/>		<input type="checkbox"/>
FRACTURE TREAT	<input type="checkbox"/>		<input type="checkbox"/>
SHOOT OR ACIDIZE	<input type="checkbox"/>		<input type="checkbox"/>
REPAIR WELL	<input type="checkbox"/>		<input type="checkbox"/>
PULL OR ALTER CASING	<input type="checkbox"/>		<input type="checkbox"/>
MULTIPLE COMPLETE	<input type="checkbox"/>		<input type="checkbox"/>
CHANGE ZONES	<input type="checkbox"/>		<input type="checkbox"/>
ABANDON* (other)	<input type="checkbox"/>	Change of Operator	<input type="checkbox"/>

5. LEASE
U-29642

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
Federal

9. WELL NO.
17-9

10. FIELD OR WILDCAT NAME
San Arroyo

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec. 17, T16S, R25E

12. COUNTY OR PARISH
Grand

13. STATE
Utah

14. API NO.

15. ELEVATIONS (SHOW DF, KDB, AND WD)
7367'GL

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

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.)*

The above mentioned well was purchased by Tenneco Oil Company effective date September 25, 1979, from Palmer Oil and Gas Company, P.O. Box 2564, Billings, Montana 59103.

Subsurface Safety Valve: Manu. and Type

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

SIGNED [Signature] TITLE Admin. Supervisor DATE 10/18/79

(This space for Federal or State office use)

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

Tenneco Oil
A Tenneco Company

Penthouse
720 South Colorado Blvd.
Denver, Colorado 80222
(303) 758-7130



Kathy 7

October 23, 1979



Mr. Cleon B. Feight
Utah Division of Oil, Gas & Mining
1588 West, North Temple
Salt Lake City, Utah 84111

RE: Tenneco Well formerly operated
by Palmer Oil and Gas Company
Grand County, Utah

Gentlemen:

The following wells formerly operated by Palmer Oil and Gas Company will now be operated by Tenneco Oil Company. Please note that record title to several of these wells will be held by Energy Increments, Inc., and Pate Oil Company, however, Tenneco Oil Company will continue to operate the wells.

Grand County, Utah

Township 16 South, Range 24 East

Sec. 33: 33-14/ ~~Section 29: Federal 29-15~~
Sec. 35: 35-10/ Section 28: Federal 28-15

Township 16 South, Range 25 East

Section 13: Federal 13-9-SIGW
Section 17: Federal 17-9-SIGW
Section 14: Federal 14-2

Township 16 South, Range 26 East

Section 32: State 32-1-SIGW
State 32-11-SIGW
Section 33: Federal 33-13-SIGW
Section 16: State 16-4

Township 17 South, Range 24 East

-SIGW-Section 3: Federal 3-8/Section 5: Federal 5-13
SIGW-Federal 3-15/Section 14: Federal 14-4

Township 17 South, Range 25 East

Section 6: Federal 6-7
Federal 6-14-SIGW
Section 7: Federal 7-4-SIGW
Section 29: Federal 29-1

Township 17 South, Range 26 East

Section 5: Federal 5-4-SIGW
Federal 5-9-SIGW
Section 8: Federal 8-5-SIGW

***SIGW=SHUT IN GAS WELL
REMAINING ARE DRILLING WELLS

Tenneco Oil Company

A Tenneco Company

Western Rocky Mountain Division

P.O. Box 3249
Englewood, Colorado 80155
(303) 740-4800

Delivery Address:
6162 South Willow Drive
Englewood, Colorado

April 25, 1984

RECEIVED

APR 27 1984



DIVISION OF OIL
GAS & MINING

State of Utah
Department of Oil & Gas Conservation
4241 State Office Bldg.
Salt Lake City, UT 84114

Gentlemen:

Attached is a list of wells for which Tenneco Oil Company has been providing you with monthly state reports. Effective March 1, 1984, these wells were purchased by Quinoco Petroleum, Inc., 3801 East Florida Avenue, Suite 300, P. O. Box 10800, Denver, Colorado 80210. Quinoco will now be responsible for all state reporting on these wells beginning with March 1984 business.

Very truly yours,

TENNECO OIL COMPANY

Ursula C. Sulzbach
Ursula C. Sulzbach
Senior Revenue Analyst

UCS/wt
Attachment

TENNECO OIL COMPANY
Utah Wells Sold to Quinoco
Effective March 1, 1984

095
✓T. 17S R 24E Sec 4 Federal 4-12
✓T17S R 24E Sec. 14 Hogle USA 14-4
✓T17S R24E Sec 3 Federal 3-8
✓T17S R24E Sec 3 Federal 3-15
✓T16S R24E Sec 35 Federal 35-10
✓T17S R24E Sec 2 Dietler State 2-14
✓T17S R24E Sec 2 Dietler State 2-7
✓T16S R25E Sec 31 Calvinco USA 31-12
✓T17S R24E Sec 1 Reinauer 1-5
✓T17S R24E Sec 1 Reinauer 1-14
✓T16S R24E Sec 36 Tenneco State 36-14
✓T16S R24E Sec 36 Tenneco State 36-16
✓T16S R 24E Sec 35 Brown USA 35-3
✓T17S R24E Sec 12 Edward 12-2
✓T17S R25E Sec 7 Winter Camp Unit 7-14
✓T17S R24E Sec 11 Hogle 11-12
✓T17S R25E Sec 6 Federal 6-7
✓T17S R25E Sec 7 Federal 7-4
✓T16S R25E Sec 17 Federal 17-9
✓T16S R25E Sec 14 Federal 14-2
✓T16S R26E Sec 16 State 16-4
✓T16S R25E Sec 13 Carlson USA 13-4
✓T17S R24E Sec 5 Federal 5-13
✓T16S R24E Sec 33 Wilson USA 33-15
✓T17S R25E Sec 6 Federal 6-14
✓T16S R25E Sec 13 Federal 13-9
✓T16S R26E Sec 33 Federal 33-13
T17S R26E Sec 5 Federal 5-4
✓T16S R26E Sec 32 State 32-1
✓T16S R26E Sec 32 State 32-11
✓T17S R24E Sec 12 Tenneco USA 12-9

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

STAMP: IS TRIPLED VII
SHORT INFORMATION FORM
(For use with)

031712

PGW

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.)

1. LEASE DESIGNATION AND SERIAL NO.
U-29642

2. IF INDIAN, ALLOTTEE OR TRIBE NAME

3. UNIT AGREEMENT NAME

4. NAME OF LEASE NAME
Federal

5. WELL NO.
17-9

6. FIELD AND POOL, OR WILDCAT
San Arroyo

7. SEC., T., R., N., OR BLK. AND SUBST OR AREA
NE 1/4 SE 1/4 Sec. 17-T16S-R25E

8. COUNTY OR PARISH
Grand

9. STATE
Utah

10. NAME OF OPERATOR
Omimex Petroleum, Inc.

11. ADDRESS OF OPERATOR
Stanford Place 1, Suite 1060
8055 E. Tufts Ave. Pkwy., Denver, CO 80237

12. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.
See also space 17 below.)
At surface
1120' FEL, 2370' FSL

13. PERMIT NO.
43-019-3047a

14. ELEVATIONS (Show whether of, to, or etc.)
7367' GL, 7378' KB

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) Change of Operator <input checked="" 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 type="checkbox"/>
(Other) <input type="checkbox"/>	

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.)

Change of Operator from Quinoco Petroleum, Inc., P.O. Box 378111, Denver, CO 80237 to Omimex Petroleum, Inc. effective as of March 1, 1987.

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MAR 12 1987
DIVISION OF
OIL, GAS & MINING

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

SIGNED Mary E. Calk TITLE Production Analyst DATE 3-1-87

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY: _____

*See Instructions on Page 2

THE FOLLOWING METERS WILL HAVE CALIBRATION / SETTLEMENT TESTS RUN ON THE DATES INDICATED. STARTING TIME WILL BE 0800 OR AS SPECIFIED BELOW AND AT THE OFFICE OF THE NORTHWEST PIPELINE GRAND JUNCTION DISTRICT YOU WILL BE NOTIFIED SHOULD ANY CHANGES OCCUR IN THIS SCHEDULE. IF YOU HAVE ANY QUESTIONS ABOUT THE SCHEDULE, CONTACT OR WRITE THE DISTRICT OFFICE.

METER CODE	WELL NAME	LOC	RUN	DAY	MO/YR	STARTING TIME
92306011	FEDERAL #5-13 17S. 24E. 5	06	07	3	12/85	1100
95796016	FEDERAL #32-3	06	12	6	11/85	0800
92151018	FEDERAL #17-9 16S. 25E. 17	06	12	10	12/85	0900
92178013	CARLSON USA #15-4 14S. 25E. 13	06	12	4	12/85	0800
95124015	FEDERAL #2-23	06	15		11/85	T.D.
93154010	FEDERAL #23-12	06	15		11/85	T.D.
93439015	FEDERAL #29-5	06	15	12	11/85	1200
93321014	FEDERAL #29-16	06	15	3	12/85	1000

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPPLICATE (Other instructions on reverse side)

Budget Bureau No. 1001-013 Expires August 31, 1985

5. LEASE DESIGNATION AND SERIAL NO.

U-29642

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.)

1. OIL WELL [] GAS WELL [XX] OTHER []
2. NAME OF OPERATOR Lone Mountain Production Company
3. ADDRESS OF OPERATOR 404 Petroleum Building, P. O. Box 3394, Billings, MT 59103
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface 2370' FSL, 1120' FEL, Sec. 17
14. PERMIT NO. 43-019-30472
15. ELEVATIONS (Show whether DF, RT, OR, etc.) 7367 GL

7. UNIT AGREEMENT NAME
8. FARM OR LEASE NAME Federal
9. WELL NO. No. 17-9
10. FIELD AND POOL, OR WILDCAT San Arroyo
11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA NE SE Sec. 17, T16S, R25E
12. COUNTY OR PARISH Grand
13. STATE Utah

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) change of operator [X]
SUBSEQUENT REPORT OF: WATER SHUT-OFF [], FRACTURE TREATMENT [], SHOOTING OR ACIDIZING [], (Other) [], REPAIRING WELL [], ALTERING CASING [], ABANDONMENT* []
(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.)

Lone Mountain Production Company will become operator of the above referenced well effective July 1, 1992. The well was formerly operated by Omimex Petroleum.

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DIVISION OF OIL GAS & MINING

18. I hereby certify that the foregoing is true and correct
SIGNED James G. Routson TITLE President DATE June 24, 1992
(This space for Federal or State office use)

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

*See Instructions on Reverse Side

LONE MOUNTAIN PRODUCTION COMPANY

P.O. BOX 3394
408 PETROLEUM BUILDING
BILLINGS, MONTANA 59103-3394
(406) 245-5077
FAX 248-6321

June 24, 1992

State of Utah
Dept. of Natural Resources
Division of Oil, Gas, & Mining
3 Triad Center, Suite 350
Salt Lake City, Utah 84180

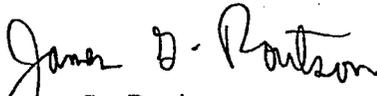
Re: Change of Operator
Sundry Notices
Grand County, Utah

Gentlemen:

Enclosed in triplicate are Sundry Notices for eight wells which Lone Mountain Production Company is assuming operations effective July 1, 1992. The wells were all previously operated by Omimex Petroleum. If any further information is needed please advise either me or Joe Dyk in our Grand Junction office.

Very truly yours,

Lone Mountain Production Company


James G. Routson
President

Enclosures

xc: Joe Dyk
Omimex

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DIVISION OF
OIL GAS & MINING

LONE MOUNTAIN PRODUCTION COMPANY
FEDERAL NO. 5-4
NW NW SEC. 5, T17S, R26E
GRAND COUNTY, UTAH
EL. 5348 GL
LEASE # U-30301
C.A. # NRM-1689

LONE MOUNTAIN PRODUCTION COMPANY
FEDERAL NO. 33-13
SW SW SEC. 33, T16S, R26E
GRAND COUNTY, UTAH
EL. 5409 GL
LEASE # U-37856

LONE MOUNTAIN PRODUCTION COMPANY
CARLSON FEDERAL NO. 13-4
NW NW SEC. 13, T16S, R25E
GRAND COUNTY, UTAH
EL. 6495 GL
LEASE # U-25189

LONE MOUNTAIN PRODUCTION COMPANY
FEDERAL NO. 13-9
NE SE SEC. 13, T16S, R25E
GRAND COUNTY, UTAH
EL. 6223 GL
LEASE # U-29641

LONE MOUNTAIN PRODUCTION COMPANY
FEDERAL NO. 14-2
NW NE SEC. 14, T16S, R25E
GRAND COUNTY, UTAH
EL. 6495 GL
LEASE # U-29641
C.A. # CR-92

LONE MOUNTAIN PRODUCTION COMPANY
FEDERAL NO. 17-9
NE SE SEC. 17, T16S, R25E
GRAND COUNTY, UTAH
EL. 7367 GL
LEASE # U-29642

LONE MOUNTAIN PRODUCTION COMPANY
STATE NO. 32-1
NE NE SEC. 32, T16S, R26E
GRAND COUNTY, UTAH
EL. 5517 GL
LEASE # ML-27564

LONE MOUNTAIN PRODUCTION COMPANY
STATE NO. 32-11
NE SW SEC. 32, T16S, R26E
GRAND COUNTY, UTAH
EL. 5440 GL
LEASE # ML-27564

(3)

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AUG 1 0 1992

DIVISION OF
OIL GAS & MINING

Ominex Petro. Inc.

UTU37856	Lone Mountain Production Company eff. 7-30-92 → 33-1	PGW	16S	26E	33	SWSW	430193041600S1
UTU31468	33-2	TA	16S	24E	33	NWNE	430193070300S1
	33-15	PGW	16S	24E	33	SWSE	430193052000S1
UTU29642	Lone Mountain Production Company eff. 7-30-92 → 17-9	PGW	16S	25E	17	NESE	430193047200S1
UTU29641	Lone Mountain Production Company eff. 7-30-92 → 13-9	PGW	16S	25E	13	NESE	430193046800S1
UTU25189	Lone Mountain Production Company eff. 7-30-92 → 13-4	PGW	16S	25E	13	NWNW	430193061700S1
UTU10152A	28-15	TA	16S	24E	28	SESW	430193054500S1
UTU10152	35-3	PGW	16S	24E	35	NENW	430193077100S1
NRM1689	5-4	PGW	17S	26E	5	NWNW	430193049700S1
MO49P84701C	35-10	PGW	16S	24E	35	NWSE	430193053600S1
CR94	14-2	GSI	16S	25E	14	NWNE	430193054100S1
CR222	4-12	PGW	17S	24E	4	NWSE	430193052200S1
891020386A	11-11	POW	38S	25E	11	NWNW	430373090300S1
	3-4	POW	38S	25E	3	NENW	430373081700S1
	11-22	POW	38S	25E	11	SENW	430373081400S1
8910203860	3-22	POW	38S	25E	3	SENW	430373090100S1
	1-3	POW	38S	25E	3	NENW	430373074100S1
	3-11	POW	38S	25E	3	NWNW	430373090200S2

Division of Oil, Gas and Mining
OPERATOR CHANGE WORKSHEET

Routing:

1- LCK 7- LCK
2- DPS ()
3-VLC
4-RJF ✓
5-RWM ✓
6-ADA ✓

Attach all documentation received by the division regarding this change.
 Initial each listed item when completed. Write N/A if item is not-applicable.

- Change of Operator (well sold) Designation of Agent
 Designation of Operator Operator Name Change Only

The operator of the well(s) listed below has changed (EFFECTIVE DATE: 7-1-92)

TO (new operator) <u>LONE MOUNTAIN PROD CO</u>	FROM (former operator) <u>OMIMEX PETROLEUM INC</u>
(address) <u>PO BOX 3394</u>	(address) <u>8055 E TUFTS AVE STE 1060</u>
<u>BILLINGS, MT 59103</u>	<u>DENVER, CO 80237</u>
<u>JAMES ROUNTSON, PRES</u>	
phone (<u>406</u>) <u>245-5077</u>	phone (<u>303</u>) <u>771-1661</u>
account no. <u>N 7210</u>	account no. <u>N 0735</u>

Well(s) (attach additional page if needed):

Name: <u>FEDERAL 33-13/DK-MR</u>	API: <u>43-019-30416</u>	Entity: <u>6615</u>	Sec <u>33</u> Twp <u>16S</u> Rng <u>26E</u>	Lease Type: <u>U-37856</u>
Name: <u>STATE 32-1/DK-MR</u>	API: <u>43-019-30451</u>	Entity: <u>6625</u>	Sec <u>32</u> Twp <u>16S</u> Rng <u>26E</u>	Lease Type: <u>ML-27564</u>
Name: <u>FEDERAL 13-9/DKTA</u>	API: <u>43-019-30468</u>	Entity: <u>6630</u>	Sec <u>13</u> Twp <u>16S</u> Rng <u>25E</u>	Lease Type: <u>U-29641</u>
Name: <u>FEDERAL 17-9/DKTA</u>	API: <u>43-019-30472</u>	Entity: <u>6635</u>	Sec <u>17</u> Twp <u>16S</u> Rng <u>25E</u>	Lease Type: <u>U-29642</u>
Name: <u>FEDERAL 5-4/DK-MR</u>	API: <u>43-019-30497</u>	Entity: <u>6640</u>	Sec <u>5</u> Twp <u>17S</u> Rng <u>26E</u>	Lease Type: <u>U-30301</u>
Name: <u>STATE 32-11/DK-MR</u>	API: <u>43-019-30500</u>	Entity: <u>6645</u>	Sec <u>32</u> Twp <u>16S</u> Rng <u>26E</u>	Lease Type: <u>ML-27564</u>
Name: <u>FEDERAL 14-2/DKTA</u>	API: <u>43-019-30541</u>	Entity: <u>6655</u>	Sec <u>14</u> Twp <u>16S</u> Rng <u>25E</u>	Lease Type: <u>U-29641</u>
<u>CARLSON USA 13-4/DK-MR</u>	<u>43-019-30617</u>	<u>6660</u>	<u>13</u> <u>16S</u> <u>25E</u>	<u>U-25189</u>

OPERATOR CHANGE DOCUMENTATION

- X 1. (Rule R615-8-10) Sundry or other legal documentation has been received from former operator (Attach to this form). (*Blm Approved 7-30-92*)
- See 2. (Rule R615-8-10) Sundry or other legal documentation has been received from new operator (Attach to this form). (*Rec'd 6-26-92*)
- N/A 3. The Department of Commerce has been contacted if the new operator above is not currently operating any wells in Utah. Is company registered with the state? (yes/no) If yes, show company file number: .
- See 4. (For Indian and Federal Wells ONLY) The BLM has been contacted regarding this change (attach Telephone Documentation Form to this report). Make note of BLM status in comments section of this form. Management review of Federal and Indian well operator changes should take place prior to completion of steps 5 through 9 below.
- See 5. Changes have been entered in the Oil and Gas Information System (Wang/IBM) for each well listed above. (*8-24-92*)
- See 6. Cardex file has been updated for each well listed above. (*8-24-92*)
- See 7. Well file labels have been updated for each well listed above. (*8-24-92*)
- See 8. Changes have been included on the monthly "Operator, Address, and Account Changes" memo for distribution to State Lands and the Tax Commission. (*8-24-92*)
- See 9. A folder has been set up for the Operator Change file, and a copy of this page has been placed there for reference during routing and processing of the original documents.

ENTITY REVIEW

- Yes 1. (Rule R615-8-7) Entity assignments have been reviewed for all wells listed above. Were entity changes made? (yes/no) no (If entity assignments were changed, attach copies of Form 6, Entity Action Form).
- N/A 2. State Lands and the Tax Commission have been notified through normal procedures of entity changes.

BOND VERIFICATION (Fee wells only)

- N/A 1. (Rule R615-3-1) The new operator of any fee lease well listed above has furnished a proper bond.
- N/A 2. A copy of this form has been placed in the new and former operators' bond files.
- N/A 3. The former operator has requested a release of liability from their bond (yes/no) _____. Today's date _____ 19____. If yes, division response was made by letter dated _____ 19____.

LEASE INTEREST OWNER NOTIFICATION RESPONSIBILITY

- N/A 1. (Rule R615-2-10) The former operator/lessee of any fee lease well listed above has been notified by letter dated _____ 19____, of their responsibility to notify any person with an interest in such lease of the change of operator. Documentation of such notification has been requested.
- OK 2. Copies of documents have been sent to State Lands for changes involving State leases.
8-27-92 to Ed Bonner

FILMING

- Yes 1. All attachments to this form have been microfilmed. Date: Sept 9, 1992 19____.

FILING

- Yes 1. Copies of all attachments to this form have been filed in each well file.
- Yes 2. The original of this form and the original attachments have been filed in the Operator Change file.

COMMENTS

- 920728 Omimex reporting June & July Production.
- 920824 14-2 / 43-019-30541 CA CR-94 Not approved as of yet. (separate change)