FILE NOTATIONS

Entered in NID File	.....	Checked by Chief	.....
Location Map Pinned	.....	Approval Letter	.....
Card Indexed	.....	Disapproval Letter	.....

COMPLETION DATA:

Well Completed	1/10/80	Location Inspected	.....
..... WW..... TA.....		Bond released	
GW..... OS..... PA.....		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.....

Operator change - 1/2/80

Jack R. Curtsinger
PETROLEUM ENGINEER

570 Kennecott Building
Salt Lake City, Utah 84133
(801) 364-6217

August 9, 1979

U. S. Department of the Interior
Geological Survey
8440 Federal Building
Salt Lake City, Utah 84138

Gentlemen:

Enclosed please find Applications for Permit to Drill submitted by Constitution Petrtoleum Co. on the following locations:

1. Federal 10-1
2. Federal 13-2
3. Federal 24-3

Please advise should you require further information in this matter.

Needless to say, we hope for the earliest possible date for permission to drill.

Yours very truly,

J. R. Curtsinger
lr

Encls.

cc: State of Utah w/enclosures
Constitution Petroleum Co. w/enclosures
Spanallen Mining Co. w/ enclosures
Gil V Dye w/enclosures

STATE OF UTAH
DIVISION OF OIL, GAS, AND MINING

** FILE NOTATIONS **

Date: August 10, 1979

Operator: ~~Constitution Petroleum Co.~~ Willard Pease Oil & Gas

Well No: Federal 13-2

Location: Sec. 13 T. 18S R. 24E County: Grand

File Prepared: [ ] Entered on N.I.D.: [√]

Card Indexed: [√] Completion Sheet: [√]

√API Number: 43-019-30550

CHECKED BY:

Administrative Assistant: _____

Remarks:

Petroleum Engineer: _____

Remarks: location prob. unorth

Director: _____

Remarks:

INCLUDE WITHIN APPROVAL LETTER:

Bond Required: [ ] Survey Plat Required: [ ]

Order No. _____ Surface Casing Change [ ]
to _____

#2 plus 660' ownership

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:

3rd plotted

[√] Letter Written/Approved

ltr

September 6, 1979

Constitution Petroleum Company
570 Kennecott Building
Salt Lake City, Utah 84113

Re: Well No. Federal 10-1, Sec. 10, T. 18S, R. 24E., Grand County, Utah
Well No. Federal 13-2, Sec. 13, T. 18S, R. 24 E.,Grand County, Utah
Well No. Federal 24-3, Sec. 24, T. 18S, R. 24E., Grand County, Utah

The State of Utah, General Rules and Regulations, and Rules of Practice and Procedure, amended March 22, 1978, Rule C-3, "General Well Spacing Requirements" reads as follows:

(a) The spacing of wells in pools for which drilling units have been established shall be governed by special rules for that particular pool.

(b) All wells drilled for oil and/or gas which are not within an area covered by a special area spacing rule or which are not within a pool for which drilling units have been established, shall be located not less than 500 feet from any property or lease line or from the boundary of any legal subdivision comprising a governmental quarter-quarter section or equivalent lot or lots of comparable size and location and not less than 1000 feet from any oil well, or 4960 feet from any gas well, unless otherwise specifically permitted by order of the Commission after notice and hearing, unless an exception is granted by the Commission pursuant to Rule C-3(c).

(c) The Commission may grant an exception to the requirements of (b) above as to the situs of a particular well location, without notice and hearing, where an application has been filed in due form and;

(1) The necessity for an unorthodox location is based on topographical, and/or geological conditions, and;

(2) The ownership of all oil and gas leases within a radius of 660 feet of the proposed location is common with the ownership of the oil and gas leases under the proposed location, or all owners of oil and gas leases within such radius consent in writing to the proposed location.

(d) Whenever an exception is granted, the Commission may take such action as will offset any advantage which the person securing the exception may obtain over other producers by reason of the unorthodox location.

(e) The spacing requirements of this rule shall not apply in cases where, in the opinion of the Commission, engineering practices have proven otherwise.

Your location appears to be an unorthodox well location and if it cannot be relocated to comply with Rule C-3(b), please submit an application for exception as outlined in Rule C-3(c).

You are also requested to furnish substantial information and data to support your application for an excepted location. This may be in the form of a statement as to why this well cannot be located under general spacing and must be placed at the proposed location; it may include letters, charts, maps or other data which will provide this Division with sufficient information on which to base a decision.

Sincerely,

DIVISION OF OIL, GAS AND MINING

Michael T. Minder
Geological Engineer

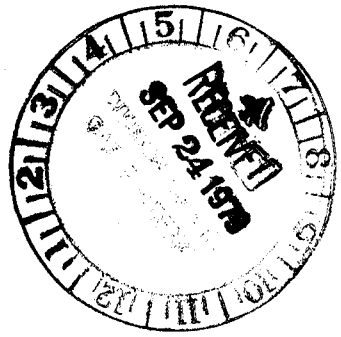
MTM:btm

cc: USGS

Jack R. Curtsinger
PETROLEUM ENGINEER

570 Kennecott Building
Salt Lake City, Utah 84133
(801) 364-6217

September 21, 1979



Mr. Cleon B. Feight, Director
Utah Division of Oil, Gas, and Mining
State of Utah
1588 West North Temple
Salt Lake City, Utah 84116

Re: Application for Exception Rule C-3(c)
Constitution Petroleum Co.
Fed 10-1, Sec 10, T18S, R24E
Fed 13-2, Sec 13, T18S, R24E
Fed 24-3, Sec 24, T18S, R24E
Grand County, Utah

Dear Mr. Feight:

Consitution Petroleum Co. requests that the referenced locations be approved as Exceptions to Utah Rule C-3(c) for reasons of topographical relief. As evidenced by the enclosed topographic maps, the well locations are in a highly eroded area near the "Book Cliffs" and we located the proposed wells as near to existing roadways as possible to facilitate approval by the BLM and USGS, as well as keeping disturbance of surface land to a minimum.

An on site inspection was made on 9-20-79 with representatives from the BLM and USGS and sites Fed 10-1 and Fed 24-3 were reasonably acceptable. The Fed 13-2 site was requested to be moved 100 feet South 55 degrees East from the proposed original site. An amended location will be filed shortly to reflect this change.

Please be advised that Constitution Petroleum, Arrow Petroleum and East Utah Mining are joint owners of leases on the total section in which each well is located as well as an additional ± 18,000 acres in area forming a continuous and continguous lease block. There are no producing wells to my knowledge within the leasehold area and no wells have been drilled on the leasehold acreage in the past 10 years.

Please advise should you require any additional information in this matter.

Respectfully submitted,

J. R. Curtsinger

lr

Encls.

cc: Mr. E. W. Gwynn
USGS

September 25, 1979

Constitution Petroleum Company
570 Kennecott Building
Salt Lake City, Utah 84113

Re: Well No. Federal 10-1, Sec. 10, T. 18S, R. 24E., Grand County, Utah
Well No. Federal 13-2, Sec. 13, T. 18S, R. 24E., Grand County, Utah
Well No. Federal 24-3, Sec. 24, T. 18S, R. 24E., Grand County, Utah

Insofar as this office is concerned, approval to drill the above referred to gas wells on said unorthodox location is hereby granted in accordance with Rule C-3(c), General Rules and Regulations and Rules of Practice and Procedure. However, approval is contingent upon a letter from Constitution Petroleum Company stating that you own or control acreage within a 660' radius of the proposed site being submitted to this office prior to the drilling of these wells.

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

MICHAEL T. MINDER
Geological Engineer
Office: 533-5771
Home: 876-3001

or

FRANK M. HAMNER
Chief Petroleum Engineer
Office: 533-5771
Home: 531-7827

Enclosed please find Form OGC-8-X, which is to be completed whether or not water sands (acquifers) are encountered during drilling. Your cooperation in completing this form will be appreciated.

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 numbers assigned to these wells are-- 10-1 - 43-019-30549; 13-2 - 43-019-30550; 24-3 - 43-019-30551.

Sincerely,

Frank M. Hamner
Chief Petroleum Engineer

/btm

cc: USGS

Form 9-331 C
(May 1963)

SUBMIT IN TRIPLICATE
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1425.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK: DRILL [X] DEEPEN [ ] PLUG BACK [ ]

b. TYPE OF WELL: OIL WELL [ ] GAS WELL [ ] OTHER — SINGLE ZONE [ ] MULTIPLE ZONE [ ]

2. NAME OF OPERATOR: WILLARD PEASE OIL & GAS CO.

3. ADDRESS OF OPERATOR: 570 Kennecott Bldg., Salt Lake City, Utah 84133

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*)
At surface: 1510' FWL & 1436" FSL Sec 13 T18S R24E
At proposed prod. zone

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*

5. LEASE DESIGNATION AND SERIAL NO.: U-12876

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT AGREEMENT NAME:

8. FARM OR LEASE NAME: Federal

9. WELL NO.: 13-2

10. FIELD AND POOL, OR WILDCAT: Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: NE SW Sec 13, T18S R24E SLM

12. COUNTY OR PARISH: Grand

13. STATE: Utah

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any): 1436'

16. NO. OF ACRES IN LEASE: ± 1000

17. NO. OF ACRES ASSIGNED TO THIS WELL: 160

18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.: ± 10000'

19. PROPOSED DEPTH: 3000

20. ROTARY OR CABLE TOOLS: Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.): 4947.9 GR

22. APPROX. DATE WORK WILL START*: ASAP

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
9 3/4 "	7 5/8 "	26.4	150	60 sx

To show change of operator

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 _____ TITLE Vice President DATE 11-1-79

(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

NOTICE OF APPROVAL

*See Instructions On Reverse Side

CONDITIONS OF APPROVAL ATTACHED TO OPERATOR'S COPY

Utah State Oil & Gas

U. S. GEOLOGICAL SURVEY - CONSERVATION DIVISION

FROM: : DISTRICT GEOLOGIST, [redacted], SALT LAKE CITY, UTAH [redacted].

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

SUBJECT: APD MINERAL EVALUATION REPORT LEASE NO. U-12876

OPERATOR: Constitution Petroleum Co. WELL NO. 13-2

LOCATION: ½ NE ½ SW ½ sec. 13, T. 18S, R. 24E, SLM

Grand County, Utah

1. Stratigraphy: Operators estimated tops seem reasonable.

2. Fresh Water: Usable water may be present in the upper part of the Mancos.

3. Leasable Minerals: Prospectively valuable for coal in Dakota Sandstone. These coals are likely to be thin discontinuous + subeconomic.

4. Additional Logs Needed: APD proposal seems adequate.

5. Potential Geologic Hazards: unknown.

6. References and Remarks: USGS FILES, SLC, Utah, USGS MAP I-736.

Signature: lmb Date: 8-30-79

Oil and Gas Dri[illegible]ng EA No. 519-79

United States Department of the Interior
Geological Survey
2000 Administration Building
1745 West 1700 South
Salt Lake City, Utah 84104

Usual Environmental Analysis

Lease No. U-12876

Operator Willard Pease Oil & Gas Company (~~Constitution Petroleum~~) Well No. 13-2

Location ~~1515~~ 1510' FWL & ~~1443~~ 1436' FSL Sec. 13 T. 18S R. 24E.

County Grand State Utah Field Wildcat

Status: Surface Ownership Public Minerals Federal

Joint Field Inspection Date September 20, 1979

Participants and Organizations:

Greg Darlington	U.S. Geological Survey, Vernal
Elmer Duncan	Bureau of Land Management, Moab
Ollie Knutson	Knutson & Sons Construction
Hart Gleason	Constitution Petroleum Company

Related Environmental Analyses and References:

(1) Unit Resource Analysis, Book Mountain Planning Unit, BLM, Moab

(2) EA No. 520-79 and EA No. 521-79

Wellsite moved to 1510' FWL & ~~1515~~ 1436' FSL & ~~1443~~ Access road changed Lat 250' Pad 175 x 200 pit 25 x 75 700' new access stockpile topsoil 1 1/10 ac Pg 6 & 7 mitigators 3) a-j

Analysis Prepared By: Greg Darlington
Environmental Sceintist
Vernal, Utah

Date: September 25, 1979 Reviewed by: George Diwachak
Environmental Scientist
Salt Lake City, Utah

Noted - G. Diwachak

Proposed Action:

On August 10, 1979, Constitution Petroleum Company filed an Application for Permit to Drill the No. 13-2 exploratory well, a 3000' oil and gas (primarily gas) test of the Dakota, Cedar Mountain and Morrison Formations; located at an elevation of 4948 ft. in the NE¼ SW¼ of Section 13, T. 18S., R. 24E. on Federal mineral lands and public surface; lease No. U-12876. As an objection was raised to the wellsite, it was moved to 1515' FWL & 1443' FSL. This did not change the ¼ ¼ coordinates. As an objection was raised to the access road, it was changed. The last 250 ft. of road was routed further east to take advantage of an existing roadbed and enter the pad about 80 feet further east than the present 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 Subsurface Plan are on file in the USGS District Office in Salt Lake City, Utah and the USGS Northern Rocky Mountain Area Office in Casper, Wyoming. The 13-Point Surface Protection Plan is on file in the District Office in Salt Lake City.

A working agreement has been reached with the Bureau of Land Management, 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 175 ft. wide by 200 ft. long including a reserve pit 25 ft. by 75 ft. A new access road would be constructed 14 ft. wide by 700 ft. long from a maintained road. The last 250 feet of the access road is on a revegetated road bed used for pipeline construction. The remaining 450 feet is crossed by numerous washes and essentially involves new road construction.

Location and Natural Setting:

The proposed drillsite is approximately 10 miles northeast of Cisco, Utah, the nearest town. A good road runs to within 700 feet of the location. This well is a wildcat.

Topography:

The location is on the east side of a steeply sloping ridge. It was moved 87 feet east and 50 feet south to avoid some of the extensive cut involved and keep the pad 50 feet south of an existing buried pipeline.

Geology:

The surface geology is the Mancos Formation. The soil is a sandy clay with mixed shale and sandstone gravels. No geologic hazards are known near the drillsite. Seismic risk for the area is moderate. 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 blow out or to cause formations 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.

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.

Top soil would be removed from the surface and stockpiled. The soil would be spread over the surface of disturbed area 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 road per the recommendations of the Bureau of Land Mangement.

Approximately 1.1 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.

Precipitation:

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

Surface Water Hydrology:

The location drains to Westwater Creek through nonperennial drainages. Westwater Creek proceeds 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 potential 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. 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:

Plants in the area are of the salt-desert-shrub types.

Proposed action would remove about 1.1 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:

The fauna of the area consists predominately 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 sparrow, magpies, crows, and jays.

An animal and plant inventory has been made by the BLM. No endangered plants or animals are known to inhabit the project area.

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 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 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 (06-01). 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

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 subsurface 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 reduce the environmental impact. There are no severe vegetation, animal or archaeological-historical-cultural conflicts at the site. Since an impact on the environment would be expected, the alternative of moving the location is recommanded. 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.

3) Drilling should be allowed provided the following mitigative measures are incorporated into the proposed APD and adhered to by the operator

a. The wellsite is to be moved 50 ft south and 87' east to ~~1515'~~ 1510 FWL and ~~1443'~~ 1436 FSL to partially mitigate conditions of a steep slope requiring extensive cut to keep the proposed pad at least 50 ft south of an existing gas pipeline

b. The last 250 ft of access road is to be reprouted to enter the pad about 80 ft. east of the present route and use an existing revegetated roadbed requiring minor upgrading.

c. Where the access road crosses the existing buried pipeline an additional 2 ft gravel cover will be laid to protect the pipeline.

d. Suitable low water crossings will be built on the several cross-drainages involved in the access road

e. This well will not be drilled until either one Constitution Petroleums Wells 24-3 or 10-1 has been drilled

f. The relocated well pad is to be dimensioned approximately 175 ft wide by 200 ft long and a new pad layout showing cuts and fills is to be provided as requested by the BLM.

g. Terracing on the west side of the pad will be done if the BLM dtermines it would be the best means of dealing eith the slope problem Moving the location probably alleviated the need for terracing.

h. The burn pit is to be relocated to the south side of the pad

i. The reserve pit is to be dimensioned approximately 25 ft by 75 ft by 6 ft deep

j. Trailers will be located at the south side of the pad Also the topsoil is to be windrowed and stockpiled at the south side of the pad

Adverse Environmental Effects Which Cannot Be Avoided

Surface disturbance and removal of vegetation from approximately 1.1 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 emmissions from rig engines of support traffic engines would occur. Minor increase in dust pollution would occur due to vehicular traffic associatd with the operation. If the well is a gas producer additional surface disturbance would be required to install production pipelines. The potential for fires gas leaks and spills of oil and water would exist During the construction and drilling phases of the project noise levels would increase Potential for sub-surface 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 committment of resources would be made Erosion from the site would eventually be carried as sediment in the Colorado River The potential for pollution to the Westwater Creek would exist through leaks and spills

Determination

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

Date 10/12/79

District Engineer
U S Geological Survey
Conservation Division
Oil and Gas Operations
Salt Lake City District

PROGNOSIS FOR
FEDERAL 13-2
NE SW Sec 13, T18S, R24E, SLM
Grand County, Utah

Location: NE SW Sec 13, T18S, R24E, SLM Grand County, Utah
(1428' FWL & 1493' FSL)

Elevation: 4947.9 GR

Surface Casing: 150 ft. of 7 5/8" O.D., 26.40#, J-55, 8 Rd, LTC, New; set and cemented with returns to the surface

Expected Formation Tops:

Formation	Depth to Top
Mancos	Surface
Dakota	2100'
Cedar Mountain	2250'
Salt Wash	2600'
Entrada	2950'
Total Depth	3000'

1. It is planned to drill a 9 3/4" surface hole for the surface casing down to a depth of about 150 ft. and set 7 5/8" casing with approx. 60 sks of cement with returns to the surface. A casing head will be mounted on top of the surface casing and a blowout preventer with blind and pipe rams (hydraulic) will be mounted on the casing head. A rotating head will then be mounted on top of the blowout preventer. A blewie line, at least 100 ft. long, will then be attached to the rotating head and extended into the reserve pit.

2. A 6 3/4" hole will then be drilled below the surface casing, using air for circulation. A flare will be maintained at the end of the blewie line at all times while drilling below 1000'. This will insure that no gas will be missed. The air drilling will also minimize the damage to the hydrocarbon resevoir.

3. Samples of the cutting will be taken as necessary.

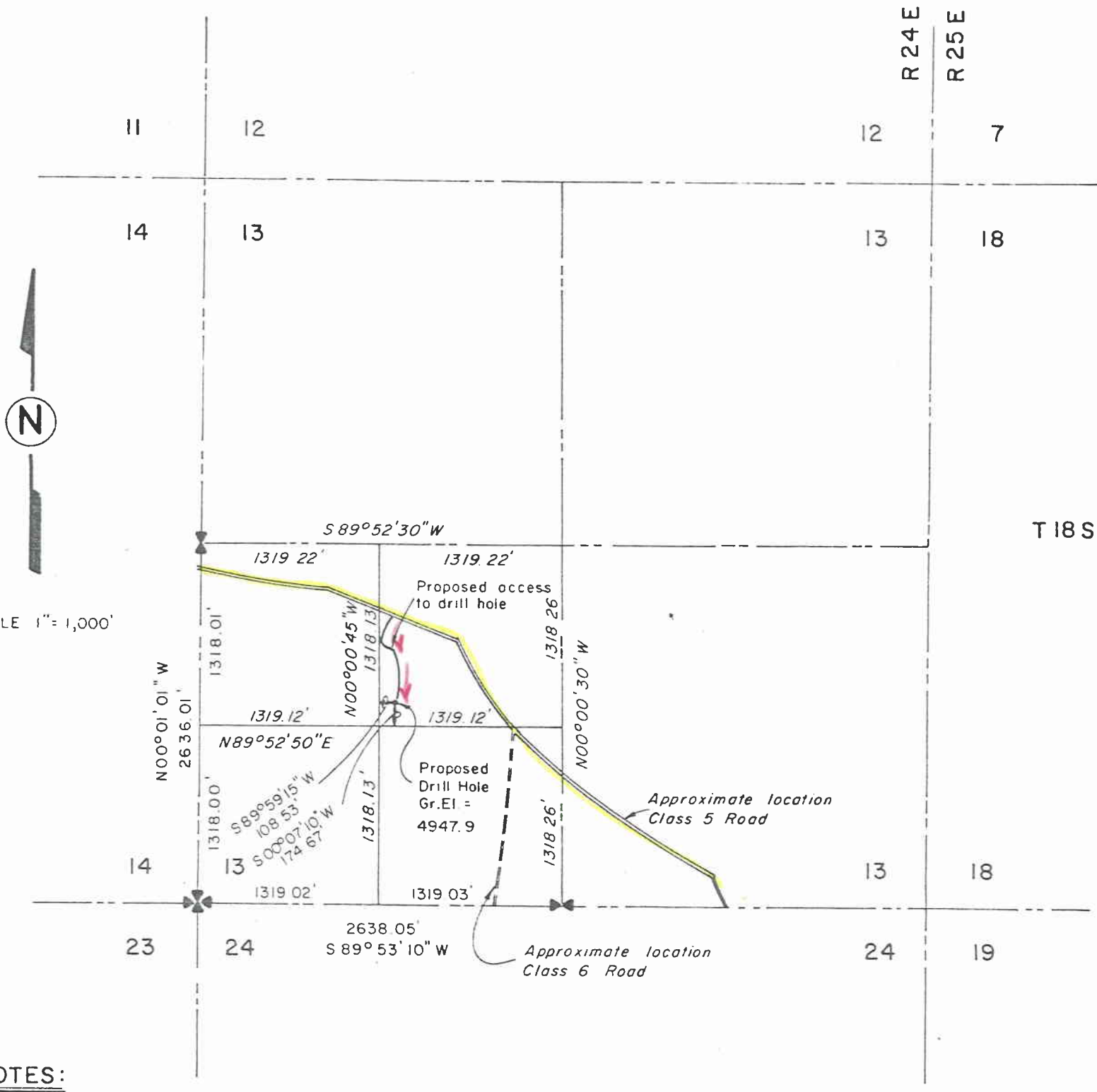
4. It is planned to drill the well to a depth which is 50 ft. below the top of the Entrada formation unless good commercial flow of gas (250 MCF or more) is obtained above this depth.

5. If a high gas flow (several million cubic feet) and/or when the total depth of the well is reached, electric logs will be run. Prior to running logs, high viscosity mud (not less 80 vis.) will be pumped into the hole to provide control of the gas and to provide a conductive medium for the logs. An induction-electrical log will be run from bottom to the top of the hole, and a gamma-density and compensated neutron porosity log will be run from the bottom to a point which is 150' above the top of the Dakota formation.
(Note: In the event a small gas flow (less than 750 MCFD) is obtained, it may be desirable to run casing, 4½" O.D., thru the rotating head prior to mudding up and running logs, with cement baskets and DV tool on the casing so that the casing can be cemented above the production zone; thereby preventing any damage to the formation and eliminating considerable completion expense. This is an important consideration when the volume of gas is low and the return from the well would be correspondingly low. The well could then be logged inside the casing with a gamma-neutron log.)

6. If good production (over 750 MCFD) is obtained 4½" O.D., 9.50#, J-55 casing will be run and cemented conventionally with sufficient cement to cover 200 ft. above the top of the Dakota formation. The production zone will then be perforated, 2 3/8" O.D. tubing run, and completed conventionally.

7. It is anticipated that the drilling of the well will require less than one week.

J. R. Curtsinger
Consulting Engineer
Salt Lake City, Utah



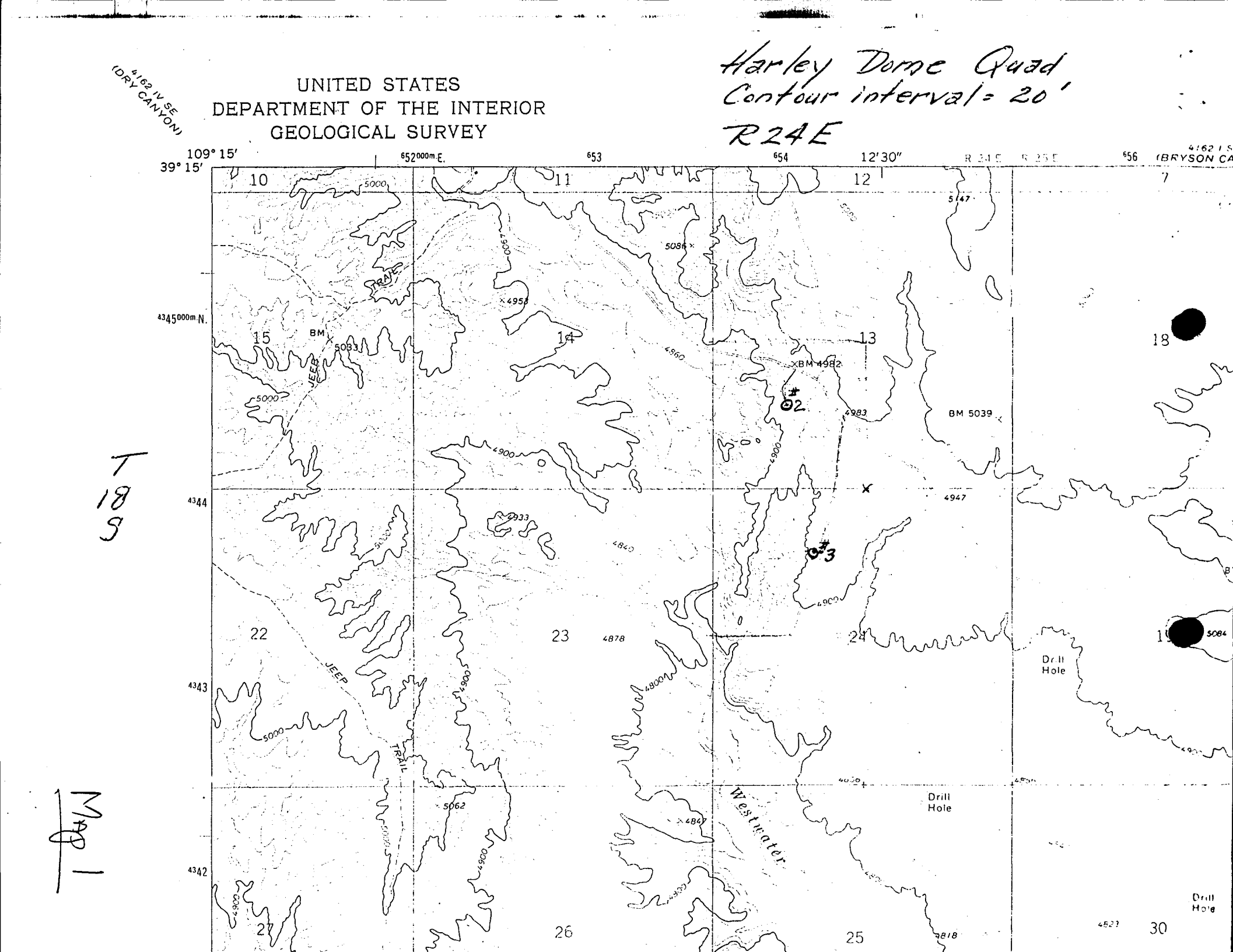
NOTES:

INFORMATION GIVEN IN VERTICAL LETTERING IS DERIVED FROM FIELD SURVEYS MADE ON JUNE 21, 1979

INFORMATION GIVEN IN SLANT LETTERING IS CALCULATED BASED ON G.L.O. DATA

✠ INDICATES G.L.O. SECTION CORNER FOUND AS SHOWN

This is to certify that on the 21st day of J
1979, a survey was made under my direct supe
vision of the above described property, and
all information pertinent to said real prope
is accurately shown on the above plat


4162 IV SE
(DRY CANYON)
UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
Harley Dome Quad,
Contour interval = 20'
R24E
109° 15'
39° 15'
652000m E.
653
654
12'30"
R 24 E
R 25 E
656
4162 I S
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7
5000
5147
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4900
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TRAIL
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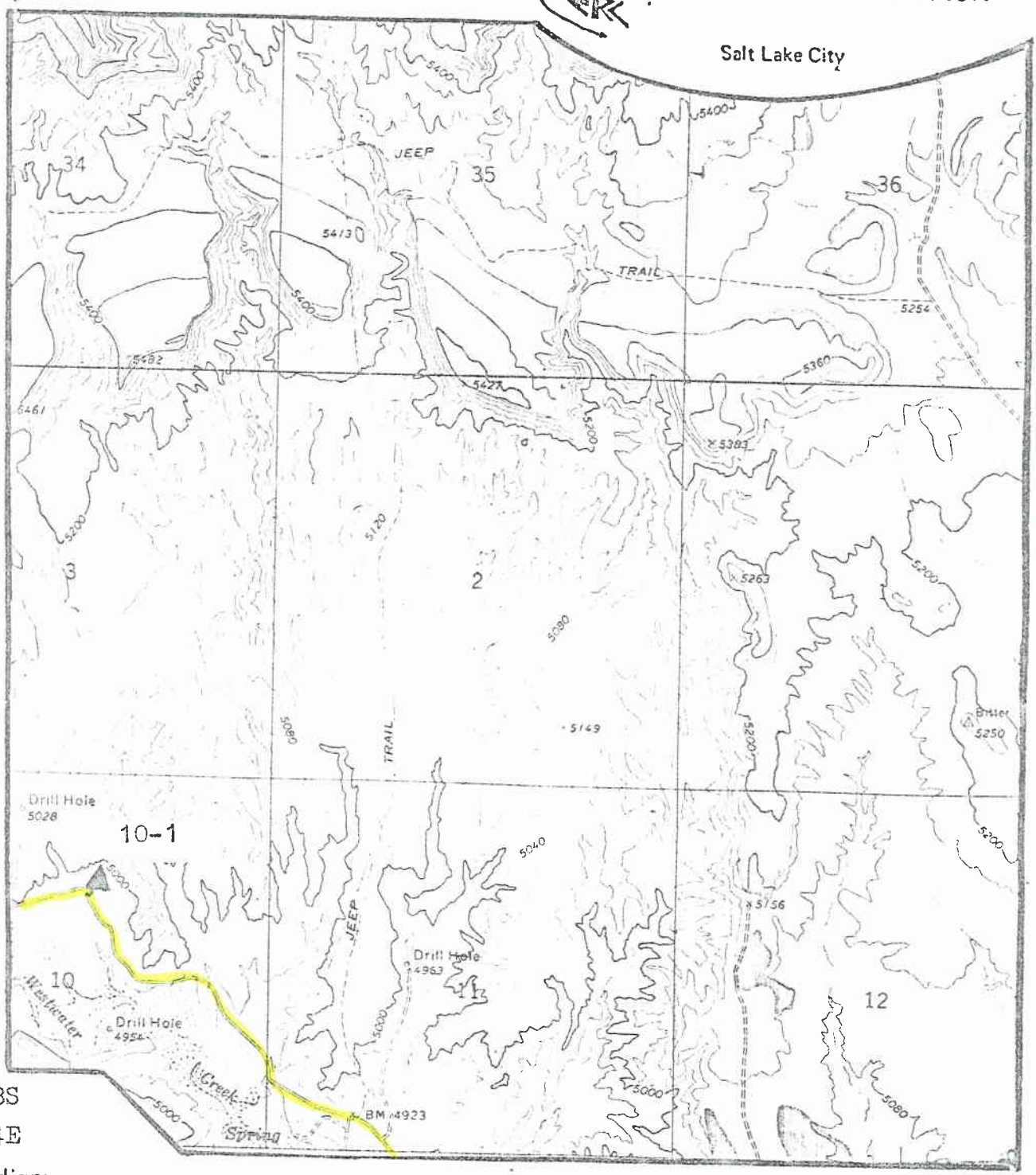
15
BM
5033
14
13
18
4960
BM 4982
JEEP
5000
02
4983
BM 5039
4900
4947
4344
4933
4840
03
4900
22
23
4878
24
Drill
Hole
5084
JEEP
4343
5000
TRAIL
4800
5062
4900
4847
Westwater
Drill
Hole
4342
4900
27
26
25
4818
4523
30
Drill
Hole

T 18 S

R 24 E

TO Jack

ARCHAEOLOGICAL-ENVIRONMENTAL
RESEARCH CORPORATION



T. 18S
R. 24E

Meridian: Salt Lake B&M

Quad: Bryson Canyon, Utah
7.5 Minute USGS

Project: BKE-79-1
Series: Eastern Utah
Date: 7-23-79

~~BURKHALTER ENGINEERING~~
WELL 10-1
Constitution Pet. Corp.

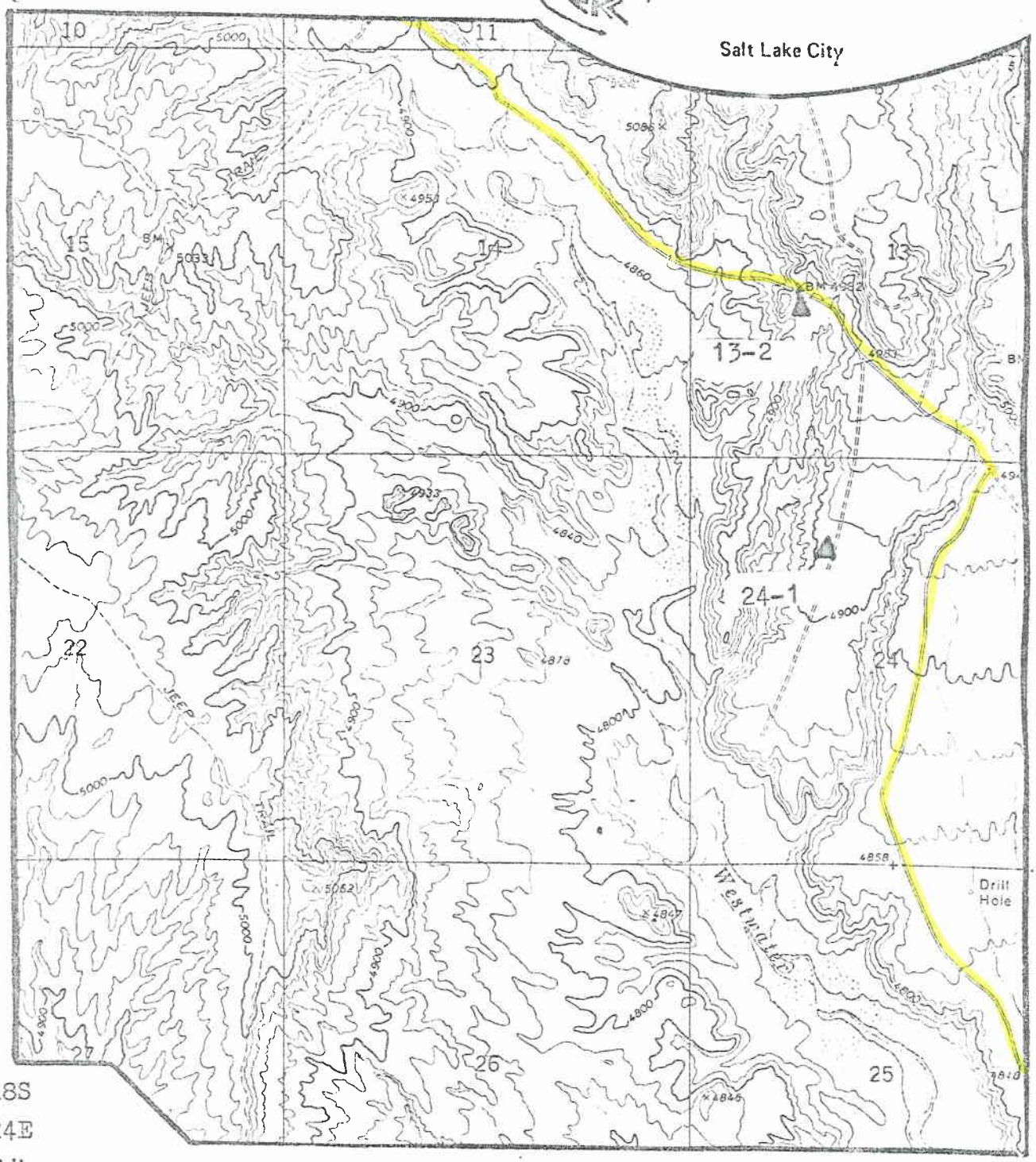
Legend:
▲ Proposed Drill Hole
~ Proposed Access

N

0 5 1
5 0 5 1 Km
Scale

to Jack

ARCHEOLOGICAL-ENVIRONMENTAL
RESEARCH CORPORATION



T. 18S
R. 24E
Meridian: Salt Lake B&M

Quad: Harley Dome, Utah

Project: BKE-79-1
Series: Eastern Utah
Date: 7-23-79

~~BURKHALTER ENGINEERING~~
WELLS 13-2 and 24-~~3~~
Constitution Pet. Corp.

Legend:
▲ Proposed Drill Holes
⌒ Proposed Access

0 5 1
5 0 5 1 Km
Scale

SURFACE USE & OPERATIONS PLAN FOR
CONSTITUTION PETROLEUM CO.
FEDERAL 10-1
SW NE Sec 10, T18S, R24E, SLM
Grand County, Utah

1. A survey plat showing the location of the proposed well site is attached (See Plat No. 1). Map No. 1 shows the route to the well site from Interstate 70 at the Ranch Exit. This map shows the secondary roads into the location and secondary roads in the surrounding area. It is about 6 miles to the location from the highway. These roads are in good shape and will support heavy trucks. The last one mile (see red arrows) will need some grading over the washes and up the steep grades. This work will be minimal. The location is about 650' from this road so the amount of new road is very little.

2. Planned Access Roads: The enclosed Map No. 1, is submitted showing the short access road (650' long) from the present road which will be required. This road is across level ground and will require no cuts or extensive grading. This road will be approximately 14' wide. No cattle guards, culverts, or deep cuts will be required on the present secondary road. It will need to be graded over the last one mile.

3. Location of Existing Wells: See attached map.

4. Location of Production Equipment: A plan for the anticipated production equipment, if the well is successful, is submitted on Plat No. 2. When production ceases this equipment will be removed and the land surface graded, levelled and reseeded.

5. Water supply: Very little water will be required for the drilling of subject well; and will be hauled by truck from the nearest source.

6. Road Material: No additional road material, gravel, sand or culverts, will be required for the proposed drilling operations.

7. Waste Disposal: A reserve and burn pit will be constructed at the well site. All excess water, mud, and drill cuttings will be deposited into the reserve pit. Burnable material and garbage will be put into the burn pit. Both of these pits will be folded in and covered as soon as feasible after the cessation of drilling operations.

8. Camp Facilities and Airstrips: No camp facilities other than two or three house trailers at the well site will be needed. No airstrips will be required.

9. Well Site Layout: A plan for the drilling equipment layout required for the drilling operations is submitted on Plat No. 3. The approximate dimensions of the drill site are shown. The site will be levelled for this equipment. Since the site is quite level, it will not be necessary to make any deep cuts or major surface shift. The reserve pit will be about 4 feet deep with 4 foot banks. The sage brush will be removed.

10. Restoration: After the drilling operations have been concluded and the equipment removed, the well site area will be cleaned, levelled and restored to normal. The pits will be covered and the area reseeded, if the well is not successful. Otherwise the site will be levelled and prepared for the placement of the production equipment. This work will be accomplished within 30 days after the drilling equipment has been removed.

11. Land Description: The proposed well site is on the bank of a tributary to Westwater Wash and is on fairly level ground that is covered with heavy sage brush. The surface is Mancos shale, and some gravel from erosion and deposition along the wash. Very little grading to the location will be required.

12. Representative: The operators representative at the well site will probably be J. R. Curtsinger, Salt Lake City, Utah. The location work and restoration work will probably be done by Ollie Knutson.

13. Certification:

I hereby certify that I, or persons under my direct supervision, have inspected the drill site and access route; that I am familiar with the conditions which presently exist; that 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 will be performed by Constitution Petroleum Co. and its conctractors in conformity with this plan and terms and conditions under which it is approved.

Date: August 8, 1979

J. R. Curtsinger
Consulting Engineer

WELL CONTROL EQUIPMENT FOR
CONSTITUTION PETROLEUM CO.
FEDERAL NO. 13-2
NE SW Sec 13, T18S, R24E, SLM
Grand County, Utah

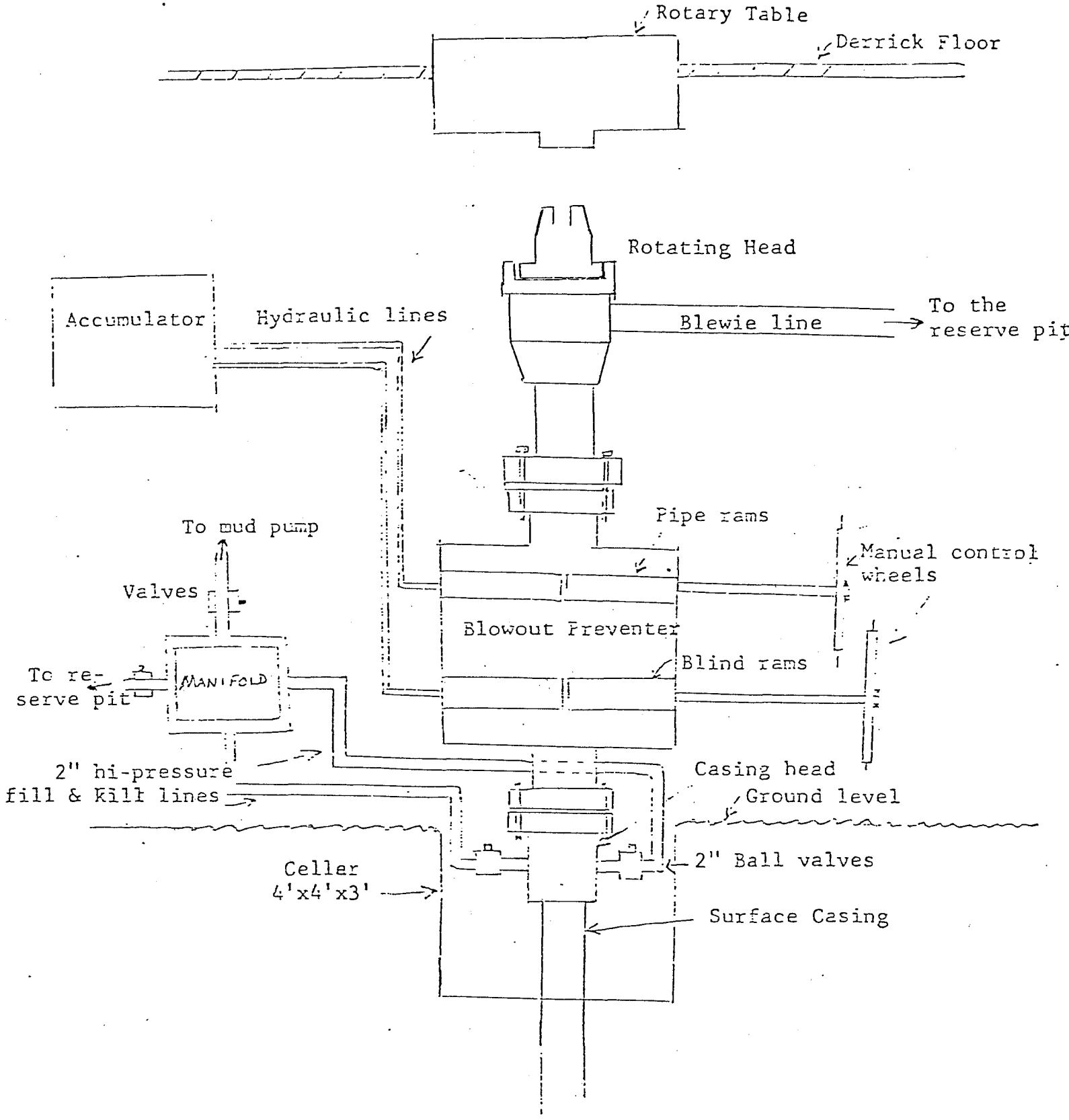
The following control equipment is planned for the above designated well: (See attached diagram).

1. Surface Casing:
   A. Hole size for surface casing is 9 3/4"
   B. Setting depth for surface casing is approx. 150 ft.
   C. Casing specs. are: 7 5/8" D.D., J-55, 26.40#, 8 rd. thread, new or used.
   D. Anticipated pressure at setting depth is approx. 20 lbs.
   E. Casing will be run using three centralizers and a guide shoe, and will be cemented with 60 sks of cement with returns to the surface.
   F. Top of the casing will be at ground level.
2. Casing Head:
   Flange size: 10", A.P.I. Pressure rating: 2000# W.P., Series 600; Cameron, OCT, or equivalent; new or used; equipped w/two 2" ports with nipples and 2'', 2000# W.P. ball or plug valves. Casing head and valves set above ground level.
3. Intermediate Casing:
   None.
4. Blowout Preventors:
   A. Double rams; hydraulic; one set of blind rams; one set of rams for 3½" or 4" drill pipe; 10"flange; 2000# or greater W.P.; Series 900; equipped with mechanical wheels and rod for back-up; set on top of casing head flange and securely bolted down, and pressure tested for leaks up to 2000#p.s.i.
   B. Rotating Head:
   Shaffer, Grants or equivalent; set on top of blowout preventor and bolted securely; complete with kelly drive, pressure lubricator; 3½" or 4" rubber for 2000# W.P.;need not have hydril assembly on bottom.
   C. Fill and Kill Lines:
   The fill and kill lines (2" tubing or heavy duty line pipe) are to be connected thru the 2" valves on the casing head.
5. Auxillary Equipment:
   A float valve is to be used in the bottom drill collar at all times. A string float will also be used in the drill pipe and kept within 200'-300' of the surface.
6. Anticipated Pressures:
   The shut-in pressures of the Dakota, Cedar Mountain, and Morrison formations at depths of 2000' to 3000' in the area have been measured at about 600# to 800# maximum.
7. Drilling fluids:
   Air-soap-water mist will be used to drill the subject well. In case of excessive caving problems, it may be

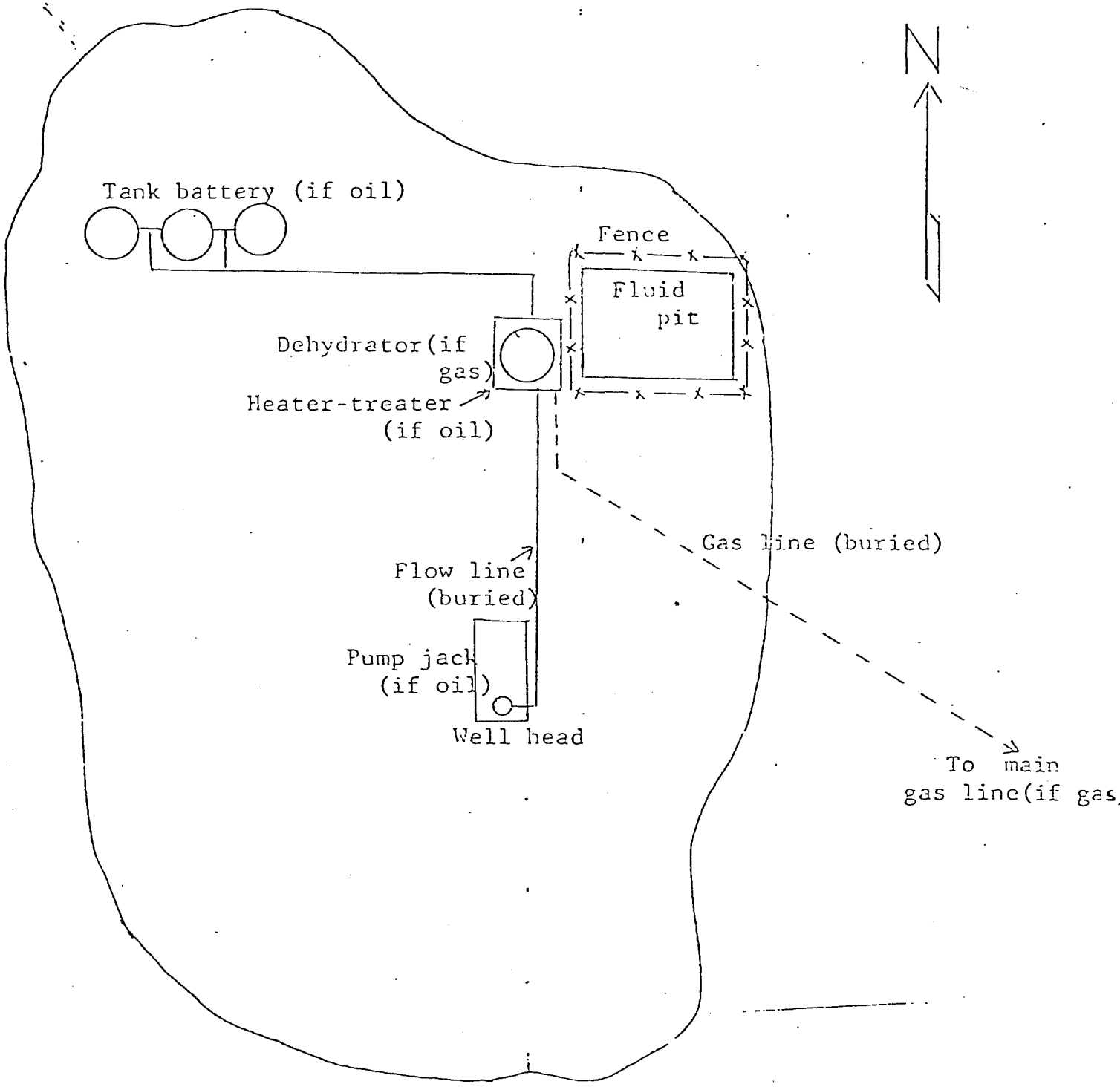
necessary to convert to mud.

8. Production Casing:
   A. Hole size for production casing will be 6 3/4".
   B. Approx. setting depth will be about 2900'
   C. Casing Specs. are: 4½"O.D.; J-55; 9.50#, 8-rd thread; new.
   D. If good production is obtained, the casing will be run with a guide shoe at the bottom and about six centralizers and cemented conventionally with sufficient cement to cover 200 ft. above the top of the Dakota formation. The production zone will be perforated, 2 3/8"O.D. tubing will be run, and the well completed conventionally. In the event the production is small, it may be desirable to minimize the damage to the formation by keeping all mud and cement off the formation. In this case the procedure outlined below will be used.
   E. Casing will be run with about six centalizers and a Lynes packer and DV tool set above the production zone. There will be sufficient casing to extend thru the production zone below the Lynes packer and a blind guide shoe on the bottom. The casing will be cemented above the packer with about 85 sks of cement (sufficient to cement thru the Dakota formation). The cement will be allowed to cure at least 48 hrs. The plug can then be drilled out and the casing perforated below the packer. Two inch tubing will be run and secured in the tubing head prior to perforating.

SCHEMATIC DIAGRAM FOR
CONTROL EQUIPMENT FOR THE
CONSTITUTION PETROLEUM CO.
FEDERAL NO. 13-2
NE SW Sec 13, T18S, R24E, SLM
Grand County, Utah

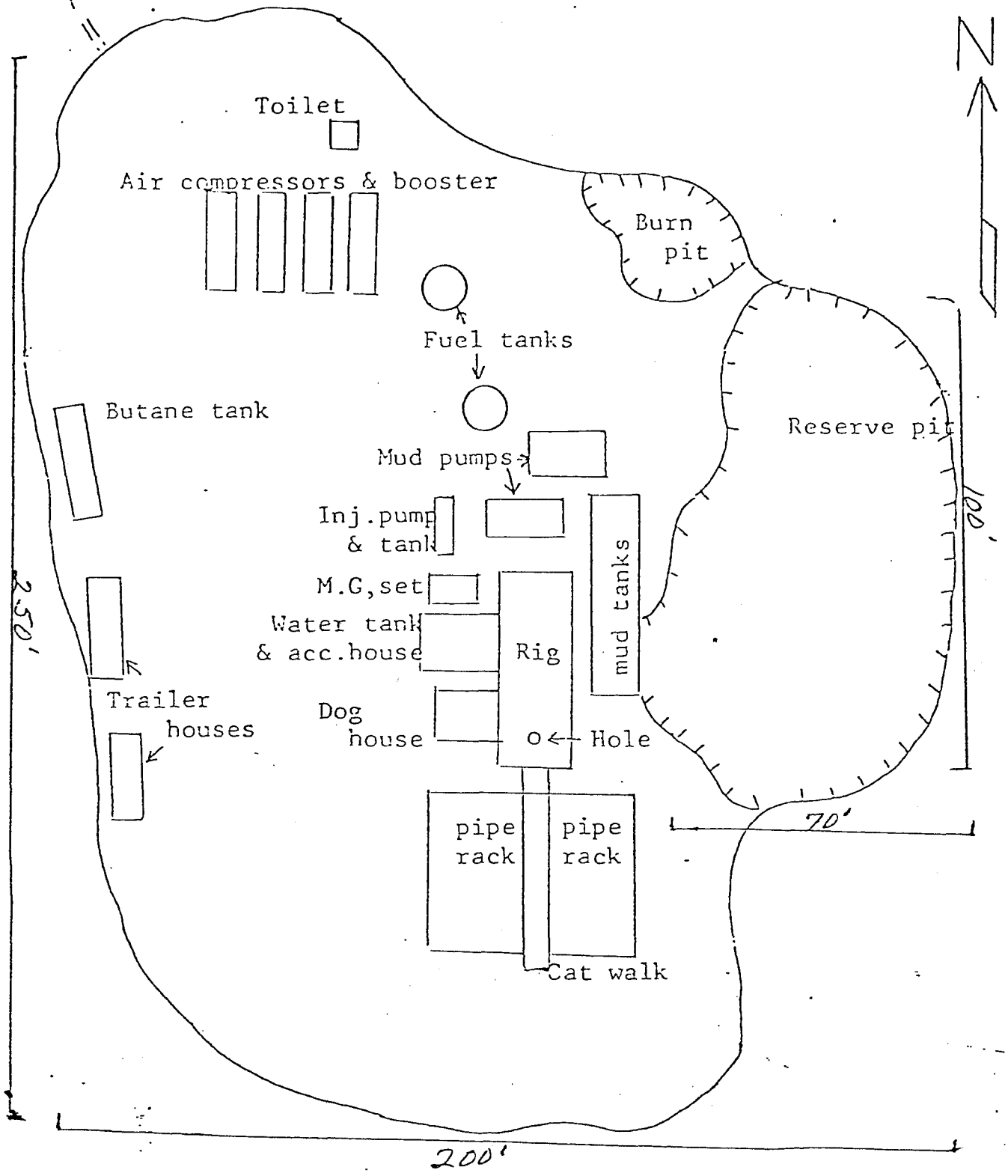


PLAN FOR PRODUCTION EQUIPMENT
CONSTITUTION PETROLEUM CO.
FEDERAL NO. 13-2
NE SW Sec 13, T18S, R24E, SLM
Grand County, Utah



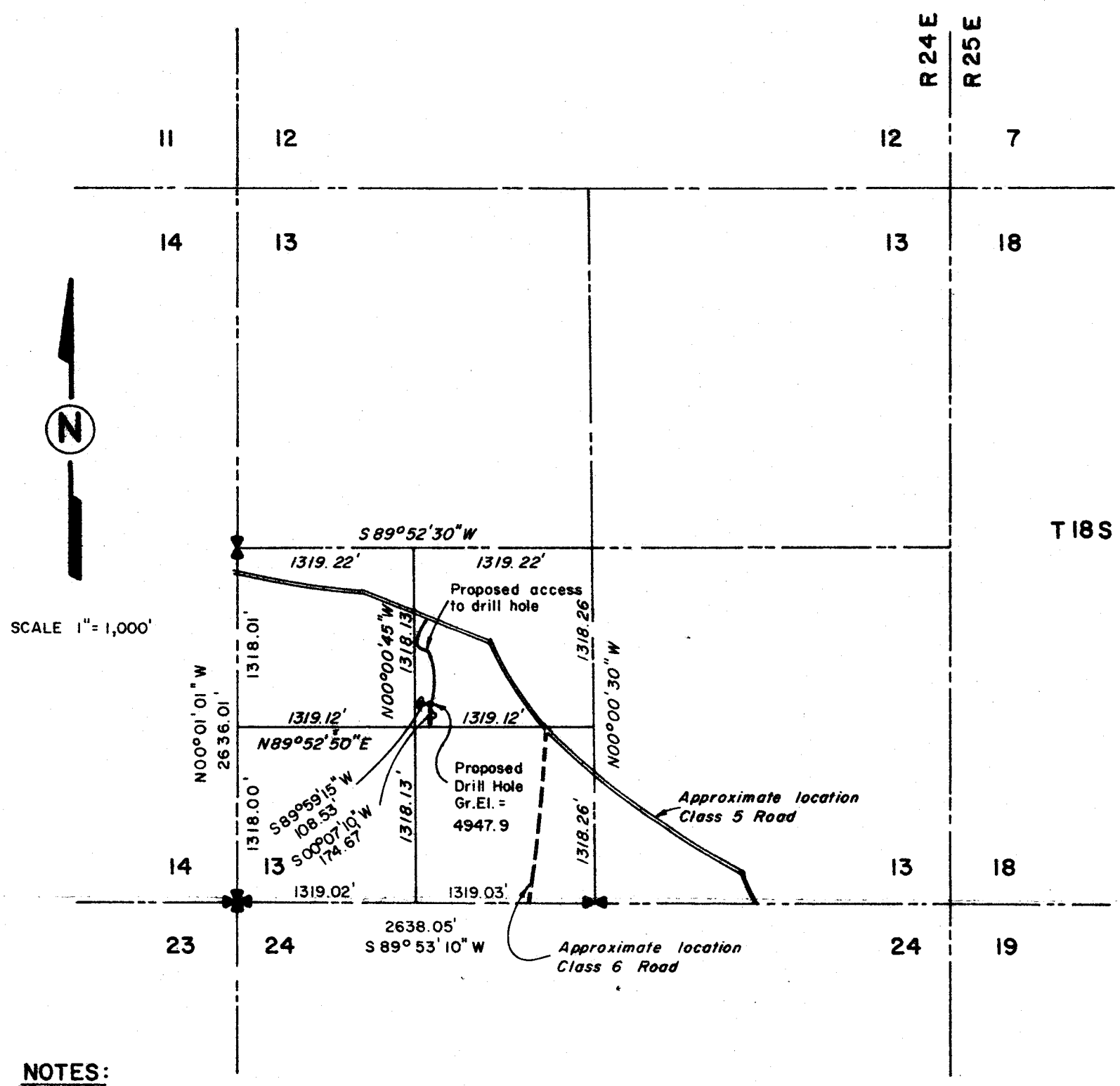
Plat No.2

LOCATION PLAN FOR
CONSTITUTION PETROLEUM CO.
FEDERAL NO. 13-2
NE SW Sec 13, T18S, R24E, SLM
Grand County, Utah



Scale: 1 in.= approx.35 ft.

PLAT NO.3



NOTES:

INFORMATION GIVEN IN VERTICAL LETTERING IS DERIVED FROM FIELD SURVEYS MADE ON JUNE 21, 1979.

INFORMATION GIVEN IN SLANT LETTERING IS CALCULATED BASED ON G.L.O. DATA

INDICATES G.L.O. SECTION CORNER FOUND AS SHOWN

INDICATES G.L.O. 1/4 CORNER FOUND AS SHOWN

ELEVATION BASED ON MEAN SEA LEVEL DATUM

This is to certify that on the 21st day of June 1979, a survey was made under my direct supervision of the above described property, and that all information pertinent to said real property is accurately shown on the above plat.

William G. Ryden
Colorado Registered Land Surveyor LS 9331

WILLIAM G. RYDEN, JR. REGISTERED 9331 LAND SURVEYOR STATE OF COLORADO

COLORADO WEST SURVEYING COMPANY
COMPREHENSIVE LAND PLANNING
COMPLETE SURVEYING SERVICE

835 Colorado Avenue
Grand Junction, Colorado
81501
303 245-2767

NO.	DATE	REVISION	BY

CONSTITUTION PETROLEUM INC.
570 KENNECOTT BLDG.
SALT LAKE CITY, UTAH 84133

DRILL HOLE LOCATION FOR
DRILL HOLE - FEDERAL 13-2
U-12876 UTAH FEDERAL LEASE

DES.	CK.		SHEET
DR. D.W.H.	DATE 6-25-79		OF

Form 9-1179
(Rev. Dec. 1957)

(In triplicate to appropriate Regional Oil and Gas or Mining Supervisor)

DESIGNATION OF OPERATOR

The undersigned is, on the records of the Bureau of Land Management, holder of lease

DISTRICT LAND OFFICE: Salt Lake City
SERIAL NO.: U-12872

and hereby designates

NAME: Willard Pease Oil & Gas Co.
ADDRESS: 570 Kennecott Building
Salt Lake City, Utah 84133

as his operator and local agent, with full authority to act in his behalf in complying with the terms of the lease and regulations applicable thereto and on whom the supervisor or his representative may serve written or oral instructions in securing compliance with the Operating Regulations with respect to (describe acreage to which this designation is applicable):

NW ¼, Section 24, Township 18 South,
Range 24 East, North Harley Dome Area,
Grand County, Utah

It is understood that this designation of operator does not relieve the lessee of responsibility for compliance with the terms of the lease and the Operating Regulations. It is also understood that this designation of operator does not constitute an assignment of any interest in the lease.

In case of default on the part of the designated operator, the lessee will make full and prompt compliance with all regulations, lease terms, or orders of the Secretary of the Interior or his representative.

The lessee agrees promptly to notify the supervisor of any change in the designated operator.

ARROW PETROLEUM COMPANY
A-125 Petroleum Center
San Antonio, Texas 78209

(Signature of lessee)
President

ARROW PETROLEUM CORP.
A 123 PETROLEUM CENTER
512 824-2331
SAN ANTONIO, TEXAS 7820[illegible]

12/11/79
(Date)

(Address)

U. S. GOVERNMENT PRINTING OFFICE 16—53598-3

Form 9-1179
(Rev. Dec. 1957)

Submit in triplicate to appropriate
Regional Oil and Gas or Mining Supervisor)

DESIGNATION OF OPERATOR

The undersigned is, on the records of the Bureau of Land Management, holder of lease

DISTRICT LAND OFFICE: Salt Lake City
SERIAL NO.: U-12872

and hereby designates

NAME: Willard Pease Oil & Gas Co.
ADDRESS: 570 Kennecott Building
Salt Lake City, Utah 84133

as his operator and local agent, with full authority to act in his behalf in complying with the terms of the lease and regulations applicable thereto and on whom the supervisor or his representative may serve written or oral instructions in securing compliance with the Operating Regulations with respect to (describe acreage to which this designation is applicable):

NW ¼, Section 24, Township 18 South,
Range 24 East, North Harley Dome Area,
Grand County, Utah

It is understood that this designation of operator does not relieve the lessee of responsibility for compliance with the terms of the lease and the Operating Regulations. It is also understood that this designation of operator does not constitute an assignment of any interest in the lease.

In case of default on the part of the designated operator, the lessee will make full and prompt compliance with all regulations, lease terms, or orders of the Secretary of the Interior or his representative.

The lessee agrees promptly to notify the supervisor of any change in the designated operator.

EAST UTAH MINING COMPANY
Suite 555, First Security Bank Building
405 South Main Street
Salt Lake City, Utah 84111

(Signature of lessee)

President

12-14-79
(Date)

(Address)

U. S. GOVERNMENT PRINTING OFFICE 16—53598-3

WILLARD PEASE
OIL AND GAS Co. 570 Kennecott Building, Salt Lake City, Utah 84133, (801) 364-6217

January 2, 1979

Division of Oil, Gas & Mining
State of Utah
1588 West North Temple
Salt Lake City, Utah 84166

1/2/80
Federal 13-2
From Constitution to W. Pease

Re: Lease U-12872 and U-12876
North Harley Dome Area
Grand County, Utah

Gentlemen:

Enclosed are photocopies (in duplicate) of "Designation of Operator" on the above named leases. The change is from Constitution Petroleum Company to Willard Pease Oil & Gas Co.

If there is further information required, please let me know.

Sincerely yours,

Lu Rhodes

Lu Rhodes (Mrs.)
Assistant Secretary

Encls.

Fed 10-1
13-2
24-3

RECEIVED
JAN 4 1980
DIVISION OF
OIL, GAS & MINING

DIVISION OF OIL, GAS AND MINING

SPUDDING INFORMATION

NAME OF COMPANY: Willard Pease Oil and Gas Company

WELL NAME: Federal #13-2

SECTION 13 NE SW TOWNSHIP 18S, RANGE 24E COUNTY Grand

DRILLING CONTRACTOR Calvert Western Drilling

RIG # 1

SPUDDED: DATE 1/7/80

TIME 6:00 pm

HOW rotary

DRILLING WILL COMMENCE presently

REPORTED BY Newt Burkhalter

TELEPHONE # 303-242-8555

DATE January 8, 1980 SIGNED M. J. Munder

cc: USGS

Form 9-331.C
(May 1963)

SUBMIT IN TRIPLICATE (Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1425.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

DUPLICATE

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

5. LEASE DESIGNATION AND SERIAL NO.: U-12876

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT AGREEMENT NAME:

8. FARM OR LEASE NAME: FEDERAL

9. WELL NO.: 13-2

10. FIELD AND POOL, OR WILDCAT: Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: NE SW Sec 13, T18S, R24E SLM

12. COUNTY OR PARISH: GRAND

13. STATE: UTAH

1a. TYPE OF WORK: DRILL [X] DEEPEN [ ] PLUG BACK [ ]

b. TYPE OF WELL: OIL WELL [ ] GAS WELL [ ] OTHER SINGLE ZONE [ ] MULTIPLE ZONE [ ]

2. NAME OF OPERATOR: WILLIARD PEASE OIL & GAS CO.

3. ADDRESS OF OPERATOR: 570 Kennecott Building, Salt Lake City, Utah 84133

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*)
At surface: 1510' FWL & 1436' FSL, Sec 13, T18S, R24E NOTE*
At proposed prod. zone

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*: 10 mi NE Cisco

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any): 1428'

16. NO. OF ACRES IN LEASE: ± 1000

17. NO. OF ACRES ASSIGNED TO THIS WELL: 160

18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.: ± 10000'

19. PROPOSED DEPTH: 3000

20. ROTARY OR CABLE TOOLS: Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.): 4947.9 GR

22. APPROX. DATE WORK WILL START*: ASAP

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
9 3/4	7 5/8	26.4	150'	60 sx
6 3/4	4 1/2	9.5	3000' ±	As needed

It is planned to drill a well at the above location to test the natural gas possibilities of the sands in the Dakota, Cedar Mountain, and Morrison formations. The well will be drilled with rotary tools using air for circulation. The surface casing will be set at approximately 150' and cemented with returns to the surface. A blowout preventer will be installed on the casing head, and a rotating head will be installed on top of the blowout preventer. Any gas zones encountered will be flared at the end of the blewie line and roughly checked for volume thru 2" lines off the casing head after the pipe rams have been closed. In the event of commercial production, 4½" casing will be run and cemented with sufficient cement to bring the top of the cement 250' above the top of the Dakota formation. A prognosis for the well is attached hereto. An archeological study has previously been submitted.

*At on-site inspection, it was recommendation of the USGS & BLM representatives that the location as originally staked, be moved 100' 555° E. This change was acceptable to the operator. The revised location will be staked and the revised coordinates are indicated.

RECEIVED
JAN 8 1980
DIVISION OF OIL, GAS & MINING

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. R. Pinkington TITLE Vice President DATE August 8, 1979

(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY W P Martin TITLE ACTING DISTRICT ENGINEER DATE JAN 07 1980

CONDITIONS OF APPROVAL, IF ANY:

CONDITIONS OF APPROVAL ATTACHED TO OPERATOR'S COPY

*See Instructions On Reverse Side

Utah State oil & Gas

DIVISION OF OIL, GAS AND MINING

PLUGGING PROGRAM

NAME OF COMPANY: Willard Pease Oil and Gas Co. (Newt Burkhalter 303-242-8555)

WELL NAME: Federal #13-2

SECTION 13 NE SW TOWNSHIP 18S RANGE 24E COUNTY Grand

VERBAL APPROVAL GIVEN TO PLUG THE ABOVE REFERRED TO WELL IN THE FOLLOWING MANNER:

TOTAL DEPTH: 2724'

CASING PROGRAM:

8 5/8" @ 167 KB

7 7/8" openhole

FORMATION TOPS:

Dakota	1520'
Morrison	1730'
Salt Wash	1930'
Entrada	2280'

PLUGS SET AS FOLLOWS:

#1	2280' - 2180'	30sx
#2	2040' - 1840'	60sx
#3	1560' - 1410'	45sx
#4	240' - 130'	31sx
#5	30' - surface	10 sx

9# abandonment mud between plugs; erect regulation dryhole marker; clean site and regrade location.

DATE January 10, 1980 10:30 a.m. SIGNED M. J. Munder

cc: USGS

Form 9-331
(May 1963)

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-12876

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: —

7. UNIT AGREEMENT NAME: —

8. FARM OR LEASE NAME: Federal

9. WELL NO.: 13-2

10. FIELD AND POOL, OR WILDCAT: Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Sec.13,T18S,R24E,SLM

12. COUNTY OR PARISH: Grand

13. STATE: Utah

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 ☐ OTHER Dry Hole

2. NAME OF OPERATOR: Willard Pease Oil & Gas Co.

3. ADDRESS OF OPERATOR: 570 Kennecott Building, Salt Lake City, Utah 84133

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface: 1510' FWL, 1436' FSL, NE SW

14. PERMIT NO.:

15. ELEVATIONS (Show whether DF, RT, GR, etc.): 4948 GR; 4958 KB

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

NOTICE OF INTENTION TO:				SUBSEQUENT REPORT OF:			
TEST WATER SHUT-OFF	☐	PULL OR ALTER CASING	☐	WATER SHUT-OFF	☐	REPAIRING WELL	☐
FRACTURE TREAT	☐	MULTIPLE COMPLETE	☐	FRACTURE TREATMENT	☐	ALTERING CASING	☐
SHOOT OR ACIDIZE	☐	ABANDON*	☐	SHOOTING OR ACIDIZING	☐	ABANDONMENT*	X
REPAIR WELL	☐	CHANGE PLANS	☐				
(Other)				(Other)			

(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.) *

8 5/8" 24 lb. at 167 KB, Cement Circulated; TD 2720 (Driller); 2724 (Logger)
7 7/8" Hole Below Surface Pipe.

Tops:
Dakota	1520
Morrison	1730
Salt Wash	1930
Entrada	2280

Plugs:
#1 2180 to 2280 with 30 sx.
#2 1840 to 2040 with 60 sx.
#3 1410 to 1560 with 45 sx.
#4 140 to 240 with 31 sx.
#5 Surface Plug with 10 sx.

Note: Encountered brackish water in Salt Wash at 1930.
No oil or gas shows.
Mud in Hole: 8.5 lb., 72 viscosity Gel Mud.

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

SIGNED J. M. Burkhalter TITLE Consulting Engineer DATE 1-11-80

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

Form 9-330
(Rev. 5-63)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE (See other instructions on reverse side)

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

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
Willard Pease Oil & Gas Co.

3. ADDRESS OF OPERATOR
570 Kennecott Building, Salt Lake City, Utah 84133

4. LOCATION OF WELL (*Report location clearly and in accordance with any State requirements*)*
At surface 1510' FWL, 1436' FSL, NE SW
At top prod. interval reported below
At total depth Same

5. LEASE DESIGNATION AND SERIAL NO.
U-12876

6. IF INDIAN, ALLOTTEE OR TRIBE NAME
—

7. UNIT AGREEMENT NAME
—

8. FARM OR LEASE NAME
—

9. WELL NO.
Federal No. 13-2

10. FIELD AND POOL, OR WILDCAT
Wildcat

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA
Sec.13,T18S,R24E, SLM

14. PERMIT NO.	DATE ISSUED	12. COUNTY OR PARISH	13. STATE
	1-7-80	Grand	Utah

15. DATE SPUDDED	16. DATE T.D. REACHED	17. DATE COMPL. (*Ready to prod.*)	18. ELEVATIONS (DF, RKB, RT, GR, ETC.)*	19. ELEV. CASINGHEAD
1-7-80	1-10-80 ← P&A	NA	4948 GR; 4958 KB	NA

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
2720 DRLLR	P & A		→	All	—

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*
NA

25. WAS DIRECTIONAL SURVEY MADE
No

26. TYPE ELECTRIC AND OTHER LOGS RUN
DIL; FDC-CNL-GR

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
8 5/8	24	167	12¼	Circulated	none
			7 7/8		

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)
NA				

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)
NA		

31. PERFORATION RECORD (*Interval, size and number*)
NA

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
NA	

33.* PRODUCTION

DATE FIRST PRODUCTION	PRODUCTION METHOD (*Flowing, gas lift, pumping—size and type of pump*)	WELL STATUS (*Producing or shut-in*)
NA		

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD →	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO

FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE →	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)

34. DISPOSITION OF GAS (*Sold, used for fuel, vented, etc.*)

TEST WITNESSED BY

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. H. Bullwinkle TITLE Consulting Engineer DATE 1-17-80

*(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.
NA			

38. GEOLOGIC MARKERS

NAME	TOP	
	MEAS. DEPTH	TRUE VERT. DEPTH
Dakota	1520	—
Morrison	1730	
Entrada	2283	

★ U.S. GOVERNMENT PRINTING OFFICE: 1974-780-680/VIII-238

Form OGC-1b

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

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

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.)

5. LEASE DESIGNATION AND SERIAL NO.: U-12876

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

1. OIL WELL ☐ GAS WELL ☐ OTHER: SURFACE RESTORATION

7. UNIT AGREEMENT NAME:

2. NAME OF OPERATOR: Willard Pease Oil & Gas Co.

8. FARM OR LEASE NAME: Federal

3. ADDRESS OF OPERATOR: 570 Kennecott Bldg., SLC, UT 84133

9. WELL NO.: 13-2

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface: NE NW Sec 13 T18S R24E
1510' FWL & 1436' FSL

10. FIELD AND POOL, OR WILDCAT: Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: 13 T18S R24E SLB&M

14. PERMIT NO.:

15. ELEVATIONS (Show whether DF, RT, GR, etc.): 4948 GR 4958 KB

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:				SUBSEQUENT REPORT OF:			
TEST WATER SHUT-OFF	☐	PULL OR ALTER CASING	☐	WATER SHUT-OFF	☐	REPAIRING WELL	☐
FRACTURE TREAT	☐	MULTIPLE COMPLETE	☐	FRACTURE TREATMENT	☐	ALTERING CASING	☐
SHOOT OR ACIDIZE	☐	ABANDON*	☐	SHOOTING OR ACIDIZING	☐	ABANDONMENT*	☐
REPAIR WELL	☐	CHANGE PLANS	☐	(Other)			X
(Other)			☐	(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.) *

SURFACE RESTORATION:

DRY HOLE MARKER PLACED & SECURED.

RECEIVED
NOV 10 1980
DIVISION OF
OIL, GAS & MINING

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

SIGNED _____ TITLE Ass't Sec DATE 11/06/80

(This space for Federal or State office use)

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

*See Instructions on Reverse Side