

6-8-79 - Plunged & Abandoned

FILE NOTATIONS

Entered in NID File
Location Map Pinned
Card Indexed

Checked by Chief
Approval Letter
Disapproval Letter

COMPLETION DATA:

Date Well Completed *6-8-78*

OW..... 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.....



ENVIRONMENTAL ENGINEERING COMPANY

Professional Engineering Services

~~XXXXXXXXXX~~
Casper, Wyoming 82601
Phone (307) 234-6186

1645 Court Place
Suite 229
Denver, Colorado 80202
Phone (303) 892-1506

1720 South Poplar, Suite 5
Casper, Wyoming 82601

November 7, 1978

State of Utah
Department of Natural Resources
Division of Oil & Gas Conservation
1588 West North Temple
Salt Lake City, Utah 84116

Attention: Pat Driscoll, Engineer

Re: Drilling application for well
A. Lansdale #11, U-16928
SW $\frac{1}{4}$ SE $\frac{1}{4}$ Sec. 30, T. 18 S., R. 25 E.
Grand County, Utah

Gentlemen:

As required by your Rule C-4 Notice of Intention to Drill,
we are enclosing for the subject well three copies of
Notice of Intention to Drill with attached Surveyor's Plats.

Your prompt approval will be greatly appreciated.

Very truly yours,


Frank C. Sieglitz
Environmental Engineering Co.

Enclosures



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
 A. Lansdale

3. ADDRESS OF OPERATOR
 c/o Environmental Engineering Company
 1720 South Poplar, Suite 5, Casper, Wyoming 82601

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)*
 At surface
 656' FSL, 2,100' FEL
 At proposed prod. zone
 same

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
 11.2 miles northwest of Westwater Exit, Utah

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

16. NO. OF ACRES IN LEASE
 480

17. NO. OF ACRES ASSIGNED TO THIS WELL
 40

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

19. PROPOSED DEPTH
 1,500'

20. ROTARY OR CABLE TOOLS
 Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
 4,787' GR

22. APPROX. DATE WORK WILL START*
 As soon as possible

5. LEASE DESIGNATION AND SERIAL NO.
 U-16928

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
 Federal

9. WELL NO.
 #11

10. FIELD AND POOL, OR WILDCAT
 Harley Dome Gas Field

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
 SW 1/4 Sec. 30, T8S., R25E.

12. COUNTY OR PARISH
 Grand

13. STATE
 Utah

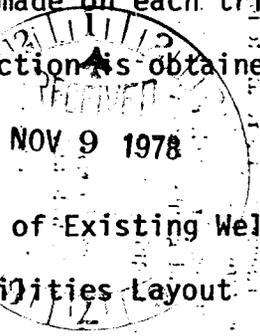
23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
10 1/2"	8 5/8"	24# K-55	120'	50 sacks
6 1/4"	4 1/2"	9# H-40	1,500'	210 sacks

1. Drill 10 1/2" hole to 120' and set surface casing.
2. A B.O.P. will be installed, tested, and operational checks made on each trip for bit.
3. The hole will be drilled to 1,500' to test Morrison zone.
4. The hole will be drilled with air; and, if commercial production is obtained, 4 1/2" casing will be run and cemented.

Exhibits Attached

- | | |
|--------------------------------|---|
| A. Location & Elevation Plat | E. Topographic Map of Area |
| B. 10 Pt. Completion Program | F. Access Road and Radius Map of Existing Wells |
| C. Blowout Preventer Diagram | G. Drill Pad Layout |
| D. Multipoint Surface Use Plan | H. Drill Rig & Production Facilities Layout |



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 Robert E. Lauth TITLE Geological Consultant DATE 9-29-78
 (This space for Federal or State office use)

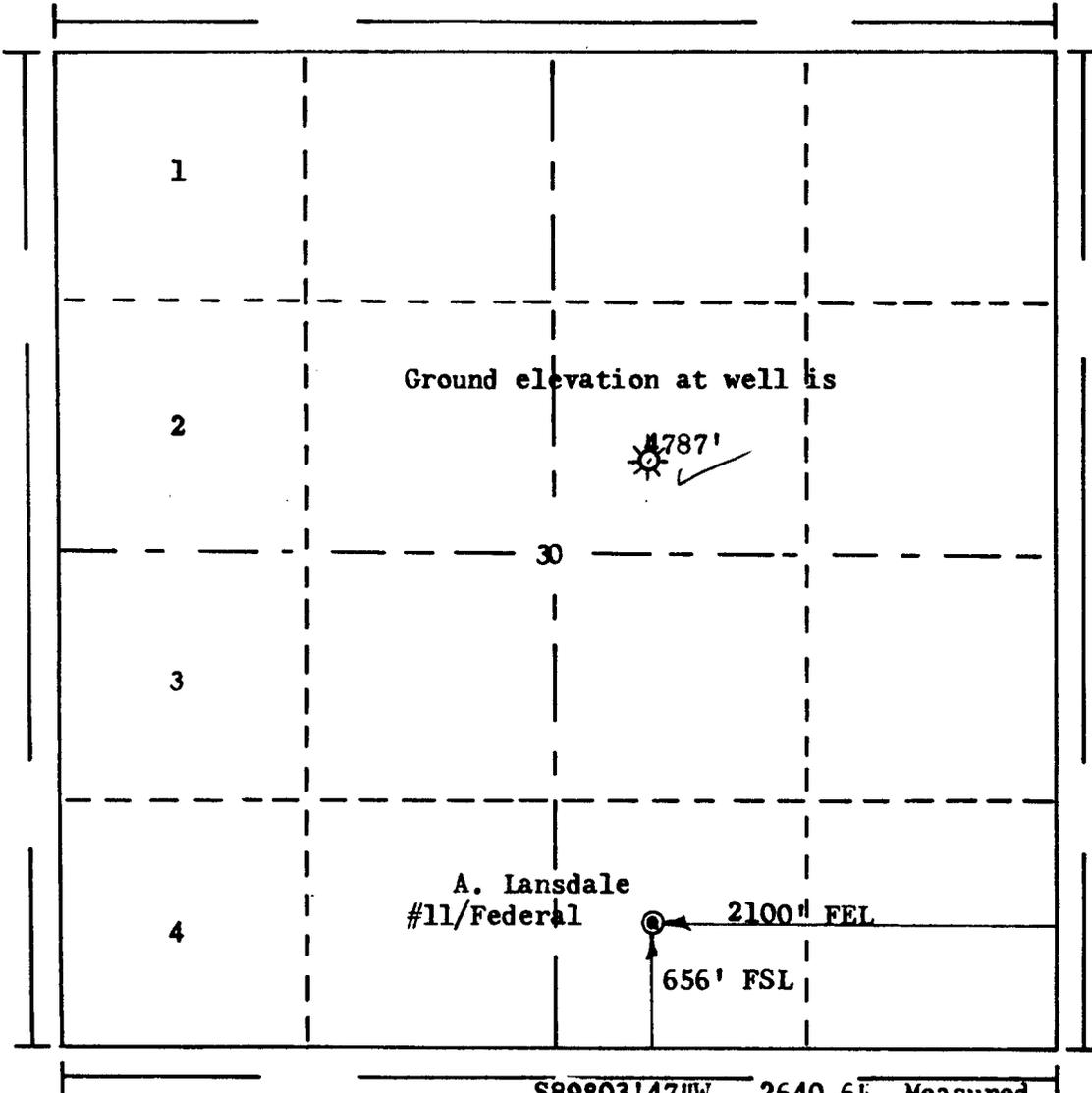
PERMIT NO. 43-C19-30478 APPROVAL DATE _____

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:



R. 25 E



T. 18 S

N0°02'13"W
2641.5'
Measured

S89°03'47"W 2640.6' Measured

Scale... 1" = 1000'

Powers Elevation Company, Inc. of Denver, Colorado
has in accordance with a request from Darrell Cooper
for Environmental Engineering

determined the location of A. Lansdale #11 Federal
to be 2100' FEL & 656' FSL Section 30 Township 18 S
Range 25 East of the Salt Lake & Base Meridian, Utah
Grand County, Utah

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

Date: 9/20/78

T. Nelson
Licensed Land Surveyor No.
State of Utah

LS 2711

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

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

SUBJECT: APD MINERAL EVALUATION REPORT

LEASE NO. U-16928

OPERATOR: A. LANSDALE

WELL NO. 11

LOCATION: 1/4 SW 1/4 SE 1/4 sec. 30, T. 18 S., R. 25 E., SLM

GRAND County, UTAH

1. Stratigraphy: OPERATOR ESTIMATES ARE REASONABLE.

2. Fresh Water: WRP REPORTS NO WELLS IN VICINITY OF THIS TEST. BUT THAT USABLE WATER MAY OCCUR IS SANDSTONE UNITS OF THE MANCOS SHALE.

3. Leasable Minerals: VALUABLE PROSPECTIVELY FOR COAL IN THE DAKOTA. DAKOTA COAL IS LIKELY TO BE THIN, LENTICULAR AND SUBECONOMIC.

4. Additional Logs Needed: OPERATOR DOES NOT SPECIFY A LOGGING PROGRAM. ADEQUATE LOGS IDENTIFYING DAKOTA COALS WOULD BE HELPFUL IN FUTURE COAL EVALUATION PROGRAMS. LOGGING TO INCLUDE SONIC, RESISTIVITY, GAMMA RAY ETC.

5. Potential Geologic Hazards: NONE ANTICIPATED

6. References and Remarks: WITHIN HARLEY DOME KGS
USGS FILES SLC., UT.

Signature: TRA

Date: 10-18-78

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

Usual Environmental Analysis

Lease No. U-16928

Operator A. Lansdale

Well No. 11 Federal

Location SW1/4 SE1/4

Sec. 30

T. 18S R. 25E

County Grand

State Utah

Field Harley Dome Gas

Status: Surface Ownership Federal

Minerals Federal

Joint Field Inspection Date October 23, 1978

Participants and Organizations:

<u>Rocky Curnutt</u>	<u>BLM, Moab</u>
<u>Brian Mills</u>	<u>BLM, Moab</u>
<u>Darryl Cooper</u>	<u>Operator Representative</u>
<u>Ray Foster</u>	<u>USGS</u>
<u> </u>	<u> </u>

Related Environmental Analyses and References: Planning Unit -
Unit Resource Analysis -

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

*Pad 145X200
Pit 25X25
1.1 mi new access
Flow line not used.
Stockpile topsoil
2.8 cc*

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

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

Date 10/23/78

Noted - G. Diwachak

Proposed Action:

On October 2, 1978, A. Lansdale filed an Application for Permit to Drill the No. 11 Federal development well, a 1,500 ft. gas test of the Morrison formation; located at an elevation of 4,787 ft. in the SW 1/4 SE1/4 Sec. 30, T18S, R25E on Federal mineral lands and Federal surface; lease No. U-16928. 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 USGS District Office in Salt Lake City, Utah and the USGS Northern Rocky Mountain Area Office in Casper, Wyoming.

A working agreement has been reached with 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 145 ft. wide x 200 ft. long and a reserve pit 25 ft., x 25 ft. A new access road would be constructed 16 ft. wide x 1.1 miles long from an existing road. The operator proposes to construct production facilities on disturbed area of the proposed drill pad, if productive.

If production is established, plans for a gas flow line would be submitted to the appropriate agencies for approval. The anticipated starting date is upon approval and duration of drilling activities would be about 30 days.

Location and Natural Setting:

The proposed drillsite is approximately 30 miles northeast of Cisco, Utah, the nearest town. A poor road runs to within one mile of the location. This well is in the Harley Dome Gas field.

Topography:

Gentle rolling terrain in a level area gently sloping to the south.

Geology:

The surface geology is Mancos shale. 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 blow out 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 plans to use air drilling methods which would eliminate lost circulation problems. A geologic review of the proposed action has been furnished by the Area Geologist, 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 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 2.8 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 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 percipitation 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:

Drainage is to the south toward Westwater Creek, a tributary of 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 signs 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:

Area vegetation consists of grasses and shadscale.

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

Proposed action would remove about 2.8 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. This is outlined in item 10 of the multi-point surface use plan.

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 of coyotes, rabbits, some antelope, 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 a passersby in 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, Utah.

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 the 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 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 USGS 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 2.8 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 or 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 and irretrievable commitment 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 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. Sullivan

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



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
 A. Lansdale

3. ADDRESS OF OPERATOR
 c/o Environmental Engineering Company
 1720 South Poplar, Suite 5, Casper, Wyoming 82601

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*)
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 (Also to nearest drlg. unit line, if any) - -

16. NO. OF ACRES IN LEASE
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19. PROPOSED DEPTH
 1,500'

20. ROTARY OR CABLE TOOLS
 Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
 4,787' GR

22. APPROX. DATE WORK WILL START*
 As soon as possible

5. LEASE DESIGNATION AND SERIAL NO.
 U-16928

6. IF INDIAN, ALLOTTEE OR TRIBE NAME
 - -

7. UNIT AGREEMENT NAME
 - -

8. FARM OR LEASE NAME
 Federal

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 Harley Dome Gas Field

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 SW 1/4 SE 1/4 Sec. 30,
 T18S., R25E.

12. COUNTY OR PARISH
 Grand

13. STATE
 Utah

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3. The hole will be drilled to 1,500' to test Morrison zone.
4. The hole will be drilled with air; and, if commercial production is obtained, 4 1/2" casing will be run and cemented.

Exhibits Attached

- | | |
|--------------------------------|---|
| A. Location & Elevation Plat | E. Topographic Map of Area |
| B. 10 Pt. Completion Program | F. Access Road and Radius Map of Existing Wells |
| C. Blowout Preventer Diagram | G. Drill Pad Layout |
| D. Multipoint Surface Use Plan | H. Drill Rig & Production Facilities Layout |

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 Robert E. Lauth TITLE Geological Consultant DATE 9-29-78
 (This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____
 APPROVED BY [Signature] TITLE ACTING DISTRICT ENGINEER DATE NOV 9 1978
 CONDITIONS OF APPROVAL, IF ANY:

NOTICE OF APPROVAL

CONDITIONS OF APPROVAL ATTACHED TO OPERATOR'S COPY

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

Horizon Test

STATE OF UTAH
DIVISION OF OIL, GAS, AND MINING

** FILE NOTATIONS **

Date: Nov. 13, 1978

Operator: A. Mansdale

Well No: Federal # 11

Location: Sec. 30 T. 18S R. 25E County: Grand

File Prepared:

Entered on N.I.D.:

Card Indexed:

Completion Sheet:

API Number: 43-019-30478

CHECKED BY:

Administrative Assistant: [Signature]

Remarks: OK

Petroleum Engineer: OK Pat

Remarks:

Director: 7

Remarks:

2585 From S.I.G.W

INCLUDE WITHIN APPROVAL LETTER:

Bond Required:

Survey Plat Required:

Order No. 102-6

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:

~~Letter Written~~ / Approved

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPL
(Other instructions on re-
verse side)

Form approved.
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

U-16928

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

--

7. UNIT AGREEMENT NAME

--

8. FARM OR LEASE NAME

Lansdale

9. WELL NO.

11

10. FIELD AND POOL, OR WILDCAT

Harley Dome

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

Sec. 30-T18S-R25E.

12. COUNTY OR PARISH

Grand

13. STATE

Utah

1.

OIL WELL GAS WELL OTHER

2. NAME OF OPERATOR

A. Lansdale

3. ADDRESS OF OPERATOR c/o Environmental Engineering Company
1720 South Poplar, Suite 5, Casper, Wyoming 82601

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

656' FSL, 2,100' FEL

14. PERMIT NO.

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

4,787' Gr.

16.

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

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

PULL OR ALTER CASING

FRACTURE TREAT

MULTIPLE COMPLETE

SHOOT OR ACIDIZE

ABANDON*

REPAIR WELL

CHANGE PLANS

(Other) Information Report

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

REPAIRING WELL

FRACTURE TREATMENT

ALTERING CASING

SHOOTING OR ACIDIZING

ABANDONMENT*

(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.)*

Notice of Spud date: - November 11, 1978

1. A 10 1/2" hole was drilled to 120'.
2. 8 5/8" casing run and set w/50 sx cmt. (circulated)
3. Nov. 12, 1978. W. O. C.

C O P Y

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

SIGNED E. R. Haymaker

Cons. Eng. for

TITLE A. Lansdale

DATE Nov. 13, 1978

(This space for Federal or State office use)

APPROVED BY _____
CONDITIONS OF APPROVAL, IF ANY:

TITLE _____

DATE _____

SCOTT M. MATHESON
Governor



OIL, GAS, AND MINING BOARD

GORDON E. HARMSTON
Executive Director,
NATURAL RESOURCES

CLEON B. FEIGHT
Director

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

November 22, 1978

A. Lansdale
c/o Environmental Engineering Co.
1720 South Poplar
Suite 5
Casper, Wyoming 82601

Re: Well No. Federal #11
Sec. 30, T. 18 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. 102-6.

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 43-019-30478.

Very truly yours,

DIVISION OF OIL, GAS, AND MINING

CLEON B. FEIGHT
Director

cc: U.S. Geological Survey



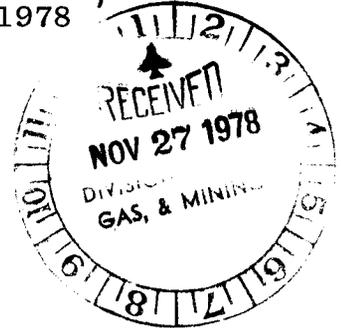
ENVIRONMENTAL ENGINEERING COMPANY

Professional Engineering Services

1720 So. Poplar
Suite 5
Casper, Wyoming 82601
Tel. (307) 234-6186
266-6314

November 24, 1978

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



Dear Sir:

In checking with Jacobs Drilling Company, the driller for well A. Lansdale Federal #11, Sec. 30, T. 18 S., R. 25 E., Grand County, Utah, and Robert E. Lauth, geologist, we find that spudding commenced on this well November 19, 1978. The rig number is Jacobs #2.

We hope that this information is satisfactory. There was confusion as to whether Mr. Jacobs or Mr. Lauth had filed the commencement notice.

Thank you.

Very truly yours,


Frank C. Sieglitz
Environmental Engineering Co.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPL
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

U-16928

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Lansdale

9. WELL NO.

11

10. FIELD AND POOL, OR WILDCAT

Harley Dome

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

Sec. 30-18S-25E SLM.

12. COUNTY OR PARISH 13. STATE

Grand

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

A. Lansdale

3. ADDRESS OF OPERATOR c/o Haymaker & Associates

1720 South Poplar, Suite 5, Casper, Wyoming

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

656' FSL, 2,100' FEL

SW $\frac{1}{4}$ SE $\frac{1}{4}$ Sec. 30

14. PERMIT NO.

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

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

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

(Other)

PULL OR ALTER CASING

MULTIPLE COMPLETE

ABANDON*

CHANGE PLANS

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other)

REPAIRING WELL

ALTERING CASING

ABANDONMENT*

(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.)*

Operator proposes to abandon location as follows:

1. Fill hole with heavy mud (9.2#/gallon).
2. Plug #1: 820'-920' across perforations - 10 sx cmt.
3. Pull free 4 1/2" casing if available.
4. Plug #2: Across top of stub 1/2 in, 1/2 out - 25 sx cmt.
5. Plug #3: Across shoe of surf. casing 1/2 in, 1/2 out; 75 ft. to 180 ft. - 25 sx cmt.
6. Plug #4: Set regulation marker with 10 sx cmt. at surface.
7. Fence pits, fill all holes, pick up debris and rehabilitate when possible.

APPROVED BY THE DIVISION OF
OIL, GAS, AND MINING

DATE: 6-12-79

BY: M.S. Munder

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

SIGNED

E. R. Haymaker
E. R. Haymaker

TITLE

Consulting Eng., P.E. 2140
for A. Lansdale

DATE

6/8/79

(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.

15

REVISED

5. LEASE DESIGNATION AND SERIAL NO.

U-16928

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Lansdale

9. WELL NO.

11

10. FIELD AND POOL, OR WILDCAT

Harley Dome

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

SW $\frac{1}{4}$ SE $\frac{1}{4}$ Sec. 30, T. 18 S.,
R. 25 E., S.L.M.

12. COUNTY OR PARISH

Grand

13. STATE

Utah

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

A. Lansdale

3. ADDRESS OF OPERATOR c/o Haymaker and Associates

1720 South Poplar, Suite 5, Casper, Wyoming 82401

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

At surface 656' FSL, 2,100' FEL
At top prod. interval reported below Same
At total depth Same

14. PERMIT NO.

43-019-30478

DATE ISSUED

11-22-78

15. DATE SPUDDED

11-19-78

16. DATE T.D. REACHED

11-27-78

17. DATE COMPL. (Ready to prod.)

NA

18. ELEVATIONS (DF, REB, RT, GR, ETC.)*

4,778'

19. ELEV. CASINGHEAD

20. TOTAL DEPTH, MD & TVD

1,534'

21. PLUG, BACK T.D., MD & TVD

1,200'

22. IF MULTIPLE COMPL., HOW MANY*

No

23. INTERVALS DRILLED BY

Rotary

ROTARY TOOLS

Rotary

CABLE TOOLS

No

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

830' to 848'

25. WAS DIRECTIONAL SURVEY MADE

No

26. TYPE ELECTRIC AND OTHER LOGS RUN

Schlumberger Dual Induction Gamma Ray Logs:-

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# K-55	120'	10 1/2"	50 sacks	
4 1/2"	9# H-40	1,200'	6 1/4"	210 sacks	

29. LINER RECORD

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

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)
2 3/8"	830'	825'

31. PERFORATION RECORD (Interval, size and number)

Perf. 830' to 848' w/2 shots/ft.

Ordered to Shut In Operations by B.L.M.

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED

33.* PRODUCTION

DATE FIRST PRODUCTION 11-29-78 PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) Open Flow through Tubing WELL STATUS (Producing or shut-in) Shut In - Will abd.

DATE OF TEST 11-29-78 HOURS TESTED 10 CHOKER SIZE 1/4" PROD'N. FOR TEST PERIOD → OIL—BBL. - GAS—MCF. 75 WATER—BBL. - GAS-OIL RATIO

FLOW. TUBING PRESS. 210 CASING PRESSURE 310 SI CALCULATED 24-HOUR RATE → OIL—BBL. 0 GAS—MCF. 180 Mcfd WATER—BBL. 3 BW/D est. OIL GRAVITY-API (CORR.)

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

Well not connected.

TEST WITNESSED BY

Ross Jacobs

35. LIST OF ATTACHMENTS

All Logs sent to Salt Lake City District Office

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED E. R. Haymaker
E. R. Haymaker

TITLE Pet. Eng. #2140

DATE 6/8/79

*(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		38. GEOLOGIC MARKERS	
FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.
			MEAS. DEPTH
			TOP
			TRUE VERT. DEPTH
Lower Dakota	830'	848	Gas
Morr.-SW	1,400	-	Wet
			Dakota 825'
			Cedar Mtn. 900
			Morrison 970
			Salt Wash 1,400
			Summerly 1,500
			T.D. 1,534