

**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
Energy Reserves Group, Inc.

3. ADDRESS OF OPERATOR
Box 3280, Casper, Wyoming 82602

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)*
 At surface
 At proposed prod. zone 1246' FSL 1468' FWL *SWSE*

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
Approximately 15.5 miles South West of Tucker, Utah

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

16. NO. OF ACRES IN LEASE
2,560'

17. NO. OF ACRES ASSIGNED TO THIS WELL
640

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

19. PROPOSED DEPTH
18,000'

20. ROTARY OR CABLE TOOLS
Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
9147' GR (ungraded)

22. APPROX. DATE WORK WILL START*
July, 1981

PROPOSED CASING AND CEMENTING PROGRAM

| SIZE OF HOLE | SIZE OF CASING | WEIGHT PER FOOT | SETTING DEPTH | QUANTITY OF CEMENT |
|--------------|----------------|-----------------|---------------|--------------------|
| 26" | 20" | Limited service | 100'± | cement to surface |
| 17-1/4" | 13-3/8" | 72# | 3000'± | Cement to surface |
| 12-1/4" | 9-5/8" | 47 + 53.5# | 13,000' | 2000 sx |
| 8-1/4" | 5-1/2" | 20 + 23 # | 18,000' | 800 sx |

Energy Reserves Group, Inc. plans to drill this well as explained on the attached plan of operations.

**APPROVED BY THE STATE
OF UTAH DIVISION OF
OIL, GAS, AND MINING**
 DATE: 8/10/81
 BY: M.L. Minder

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 [Signature] TITLE Field Services Adm. DATE 7-31-81

(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

Energy Reserves Group, Inc.
P.O. Box 3280
Casper, Wyoming 82602
Phone 307 265 7331



July 31, 1981

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

RECEIVED
AUG 3 1981

Re: Indianola Unit Well No. 1
Sec. 27, T11S-R5E,
Utah County, Utah

**DIVISION OF
OIL, GAS & MINING**

Gentlemen:

Energy Reserves Group, Inc. is proposing to drill an exploratory oil and gas test well at the above referenced location.

This site is located South of Soldier Summit. Access will be via Utah 31 to its junction with U.S.F.S. road referred to as Skyline Drive. Proceed North on Skyline Drive for approximately 15 miles to the site.

The Indianola Unit was approved on January 8, 1981, and was assigned Contract No. 14-08-0001-19482. The lands affected by this unit are within the Manti La Sal National Forest. We have been working with the U.S.F.S. and the U.S.G.S. since last fall in attempting to resolve access problems. We are presently upgrading the existing road to U.S.F.S. standards in order to be allowed access to the site. This project has involved considerable engineering and construction time. We anticipate that the project will be completed and ready for a rig by October 1, 1981. The well site has been moved several times since the original staking to accommodate various interests of the U.S.F.S. and Energy Reserves Group, Inc. The present site was chosen on the basis of having the least amount of operational and environmental problems as well as positive geological consideration.

It is anticipated that this project will last a minimum of 300 days if the well is non-productive and possibly longer if sufficient shows are encountered.

Please advise if any additional information is necessary.

Very truly yours,

ENERGY RESERVES GROUP, INC.

A handwritten signature in black ink, appearing to read "William J. Fiant".

William J. Fiant
Field Services Administrator

WJF/ef

10 POINT DRILLING PLAN

Indianola Unit
Well No. 1
Section 27, T11S-R5E
Utah County, Utah

1. The geologic name of the surface formation is Flagstaff Formation.
2. & 3. The estimated tops of important geologic markers are:

| | | |
|---------------------------------|---------|--------------|
| Emery S.s. | 6,500' | |
| Ferron S.s. | 8,000' | possible gas |
| Dakota S.s. | 8,800' | |
| Morrison Fm. | 9,500' | |
| Carmel Fm. | 11,600' | |
| Twin Creek Ls. | 11,900' | |
| Nugget - Navajo | 12,200' | |
| Chinle Fm. | 13,200' | |
| Meenkopi Fm. | 13,500' | |
| Thaynes - Sinbad | 14,300' | possible oil |
| Park City - Kaibab | 15,000' | primary oil |
| Diamond Creek S.s. White Rim | 15,500' | primary oil |
| Deseret (Mississippian) | 17,400' | primary oil |
| Total Depth | 18,000' | |

RECEIVED

1981

DIVISION OF
OIL, GAS & MINING

4. The proposed casing program is as follows:

0'-100', 20", Limited service, cemented to surface
0'-3,000', 13-3/8", 72#, N-80, ST&C, new casing, cemented to surface
0'-10,000', 9-5/8", 47#, SS-95, LT&C, new casing
10,000'-13,000', 9-5/8", 53.5#, SS -95, LT&C, new casing
0'-4,000', 5-1/2", 23#, SS-95, Butt., new casing
4,000'-12,000', 5-1/2", 20#, SS-95, LT&C, new casing
12,000'-16,600', 5-1/2", 20#, S-95, LT&C, new casing
16,600'-18,000', 5-1/2", 23#, S-95, LT&C, new casing

20" casing cemented to surface
13-3/8" casing cemented to surface
9-5/8" casing 13,000-12,000 500 sx class "G" 1.2 yield
9-5/8" casing 12,000-7,400' 1500 sx Lite cement 1.55 yield
5-1/2" casing 18,000'-17,000' 250 sx class "G" 1.2 yield
5-1/2" casing 17,000'-13,700' 550 sx. Lite cement 1.55 yield

*Heavier weights or more premium grades will be set thru any salt sections encountered.

5. Minimum BOE is as follows:

0'-13,000' - 12", series 1,500, 5,000# dual ram hydraulic preventor with a
12" series 1,500, 5,000# annular type preventor.

13,000'-18,000' - 12", 10,000#, dual ram hydraulic preventor, single ram
preventor and, 12", 10,000# annular preventor

The BOE will be tested initially to 70% of the yield strength of the casing. The BOE will then be tested every thirty days there after by setting a plug and testing to the full rated capacity of the equipment. The BOE will be operated on every trip.

6. The type and characteristics of the circulating system are as follows:

Mud will consist of fresh water base gel mud through out the entire operation. Max mud weight 9.7, Max Vis 55, P.H. 9-10.

7. The auxiliary equipment to be used:

- Upper and lower kelly cocks
- Bit floats will be available if needed
- Monitoring equipment for the mud system will PVT or equivalent as well as visual.
- A sub with a full opening valve and drill pipe thread will be available on the rig floor to be stabbed into the drill pipe when the kelly is not in the string.

8. The testing, logging and coring programs are as follows:

It is proposed to test all significant shows. Possible DST's in Ferron, Sinbad, Kaibab, White Rim, Mississippian if hole conditions permit.

Logs will consist of - Dual Induction Laterlog, Micro SFL w/GR, BHC - Sonic (intergrated), FDC-CNL, Dipmeter from base of surface to TD.

-No coring is planned

9. No abnormal pressures or temperatures are expected nor is H₂s considered to be a problem in this well.
10. It is anticipated that operations will begin as soon as regulatory approval has been granted. It will probably take from 300-400 days to drill and complete this well depending on the number and type of problems encountered.

MULTI POINT SURFACE USE PLAN

Indianola Unit Well No. 1
Sec. 27, T11S-R5E
Utah County, Utah

1. Existing Roads

(See Attached Topo Map)

- (A.) Location of proposed well is approximately 15 miles south west of Tucker, Utah.
- (B.) Access to the proposed site is: Proceed east from Fairview, Utah via Utah Highway 31 to its junction with Skyline Drive, proceed north along Skyline Drive for approximately 16 miles to a existing trail leading to the site. This trail has been barricaded by the USFS to restrict travel in the area.
- (C.) Utah Highway 31 is bitumous surfaced highway maintained year around by the Utah Department of Transportation. Skyline Drive is an improved dirt surface road with a minimum amount of drainage. The road is presently maintained by the USFS and is used only during periods of fair weather. Other roads in the vicinity are of equal or lesser quality than Skyline Drive.
- (D.) No improvement of Utah Highway 31 is necessary. Skyline Drive will require moderate amounts of construction to allow for year around traffic. Gravel will be obtained from lands within the Manti-La Sal National Forest at a site to be determined at a later date. Profiles will be provided at a later date.

2. Planned Access Roads

(See Attached Topo Map)

- (A.) Approximately 800' of new access road will be required. A profile of the new road will be provided prior to construction. Width will be a 20' running surface crowned with drainage ditches. One culvert will be required where the planned road leaves the existing road (Skyline Drive) 18". No turnouts will be necessary. Maximum grade will be 4%. It is planned to gravel the new access road for its entire length. The road will be centerlined flagged prior to construction. No cattleguards, gates or fence cuts will be required

3. Location of Existing Wells

There are no wells of any kind within a two mile radius of the proposed well site.

4. Location of Existing and/or Proposed Facilities

- (A.) There are no existing facilities located within a two mile radius of the proposed well site.
- (B.) In the event that production is established it will be necessary to install surface facilities to handle the produced hydrocarbons. At this time it is not possible to determine the method of producing the well or the facilities that may be required. If oil is encountered it will probably be hauled by truck from the area. If only gas is encountered it will be necessary to install a pipeline gathering system. Plans for surface producing facilities will be submitted after the well has been drilled and during completion operations.
- (C.) Rehabilitation plans will be submitted along with the facility plan.

5. Location and Type of Water Supply

- (A.) An effort to drill a water well will probably be made. The potential location will be determined by the water witching and USFS estimates. A special use permit will be obtained from the USFS and State Engineer prior to the drilling of this well. If these efforts prove unsuccessful it will be necessary to haul water by truck from the Hunnington Creek drainage.

5. Location and Type of Water Supply Cont.

- (A.) Water will be purchased from the Hunnington/Cleveland Irrigation District whom controls the water rights to Hunnington Creek. The haul route will be over existing routes as shown on the attached map.

6. Source of Construction Materials

The USFS has indicated that there are several potential sites where material may be obtained for the purpose of surfacing the access road and location. It will be necessary to conduct crushing operations in order to prepare the material for road use. Efforts to secure the necessary approval to obtain (definite) sources are being conducted at this time. It is our understanding that haul routes will be over existing roads and that no new road will be required. If approval to obtain gravel cannot be secured from the USFS arrangements will be made to purchase material from a private source off of government land.

7. Methods for Handling Waste Disposal

- (1.) Cuttings and drilling fluids will be retained in the reserve pit.
+
(2.)
- (3.) Produced fluids such as oil and or water will be produced into tanks. Water will be drained into earthen pits if the proper criteria is met.
- (4.) Sewage will be contained in a septic system installed to accomidate all trailers or living quarters on the location.
- (5.) Garbage and other waste material will be placed in totally enclosed trash cages and the trash hauled to an approved dump site.
- (6.) When the rig moves out the entire area will be policed up and all garbage and trash hauled to the dump site. The reserve pit will be fenced on the fourth side to prevent livestock of wildlife from entering. The pit will be pumped as dry as possible and left to dry before back filling. As soon as the pit has sufficeintly dried it will be back filled and returned to its original contour.

8. Ancillary Facilities

Due to the remoteness of this proposed site it is proposed to install a portable camp to be used during drilling and completion operations. The camp will consist of portable skid mounted units which will be bolted together to form a facility approximately 60' x 120'. The camp will support approximately 20 personnel. The area required for the camp will consist of 125' x 200' level area. This area does not have to be the same elevation as the drill pad and can be set on fill. It is planned to set the camp on the up wind side of the location (west end). In addition to the camp it will be necessary to have five camp type portable trailers to house company supervision personnel, geologists, mud loggers, rig supervisors and mud engineers.

It is also planned to pursue a permit from the USFS to construct a temporary landing strip in sections 14, 15, and 23 of T12S-R5E. The strip would consist of flat blading a 30' strip approximatley 4500' in length. This strip would be used to transport personnel, and related drilling equipment in periods of necessity. The area is parallel to Skyline Drive and is free of trees. Mountain Fuel Supply Company operates a natural gas transmission line along the proposed strip.

9. Well Site Layout
(See Attachment)

The attached plat reflects the proposed drill site cuts and fills. An additional plat showing the camp area and air strip will be submitted as soon as weather conditions allow ingress and egress to the site. The location and camp site will be sloped staked prior to location construction. It is not planned to line any pits.

10. Plans for Restoration of the Surface

If the well becomes a producer all disturbed areas no longer needed will be recontoured with top soil spread evenly over those areas and reseeded with a seed mixture as recommended by the USFS. The reserve pit will be fenced on all four sides and allowed to dry before back filling. Due to the elevation and short summers in this area it will probably be necessary to pump the majority of the fluid from the pit to allow for a reasonable drying period. The pumped fluids would be hauled to an approved dump site located in Fairview or Hunnington areas.

If the well results in a dry hole or failure we would follow the same procedure for the reserve pit. The rest of the disturbed areas will be recontoured to as near their original contour as possible. The top soil will be evenly spread over those areas and then reseeded with a mixture as recommended by the USFS. The 800' + of newly constructed access road will be recontoured and water barred if necessary, then reseeded. It will probably be necessary to construct some type of barricade to prevent recreation vehicles from entering the disturbed areas. The reconstructed road (Skyline Drive) will be dressed up and left for USFS use. Restoration will commence immediately upon completion or plugging and abandonment of the well, weather permitting.

11. Other Information

The well site is located in the Manti La Sal National Forest along the top of a very prominent ridge running north and south and parallel with Skyline Drive. Soil along the ridge top appears relatively shallow with deposits of limestone visible throughout the area. The flora consist of several species of conifer quaken aspens, sage brush, small shrubs and native grasses. Fauna includes elk, mule deer, coyotes, badger, rabbits, skunks, porkypine, and other small rodents and birds. Surface use activities include livestock grazing, hunting, fishing, camping, sight seeing, hiking and related winter sports activities, snowmobiling, cross country skiing, ect. All land involved in this proposal is public domain which is administered by the USFS. There are no live streams in the immediate area. There is evidence of many small intermittent (spring fed) drainages along both sides of the ridge. The closest continous running stream would be Fish Creek located approximately one mile south of the well site. There are no occupied dwellings within a five mile radius of the site. An archaeological inspection will be conducted when weather permits.

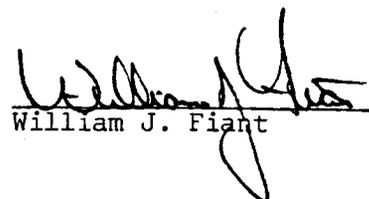
12. Lessee's or Operators Representatives

| | | |
|-------------------------|-----------------------|-----------------------|
| Bill Fiant | Roscoe Gillespie | Lee McLean |
| Box 3280 | Box 3280 | Box 3280 |
| Casper, Wyoming 82602 | Casper, Wyoming 82602 | Casper, Wyoming 82602 |
| Office No. 307-265-7331 | 307-265-7331 | 307-265-7331 |
| Home No. 307-265-2559 | 307-234-0745 | - |

13. Certification

I hereby certify that I, or persons under my direct supervision have inspected the proposed drill site and access route; that I am familiar with the conditions which presently exist; that the statements made in this plan are to the best of my knowledge true and correct; and that the work associated with operations proposed herein will be performed by ENERGY RESERVES GROUP and its contractors and sub-contractors and in conformity with this plan and terms and conditions under which it is approved.

11-18-80
Date


William J. Fiant

** FILE NOTATIONS **

DATE: Aug 10, 1981
OPERATOR: Energy Reserves Group, Inc.
WELL NO: Indianola unit #1
Location: Sec. 27 T. 11S R. 5E County: Utah

File Prepared: Entered on N.I.D:
Card Indexed: Completion Sheet:

API Number 43-049-30010

CHECKED BY:

Petroleum Engineer: M. J. Menden 8/10/81

Director: _____

Administrative Aide: Unit Well, OK on boundaries

APPROVAL LETTER:

Bond Required: Survey Plat Required:
Order No. _____ O.K. Rule C-3
Rule C-3(c), Topographic Exception - company owns or controls acreage
within a 660' radius of proposed site
Lease Designation Plotted on Map
Approval Letter Written
Hot Line P.I.

August 11, 1981

Energy Reserves Group, Inc.
Box 3280
Casper, Wyoming 82602

RE: Well No. Indianola Unit #1
Sec. 27th T. 11S, R. 5E,
Utah County, Utah

Insofar as this office is concerned, approval to drill the above referred to oil well is hereby granted in accordance with Section 40-6-11, Utah Code Annotated 1953; and predicated on Rule A-3, General Rules and Regulations and Rules of Practice and Procedure.

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

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

Enclosed please find Form OGC-8-X, which is to be completed whether or not water sands (aquifers) 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 number assigned to this well is 43-049-30012.

Sincerely,

DIVISION OF OIL, GAS AND MINING


Michael T. Minder
Petroleum Engineer

MTM/db
CC: USGS

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

Energy Reserves Group, Inc.

3. ADDRESS OF OPERATOR

Box 3280, Casper, Wyoming 82602

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(Also to nearest drlg. unit line, if any)

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18,000'

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

9147'

22. APPROX. DATE WORK WILL START*

OCT 1981

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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 William J. Adams TITLE Field Services Administrator DATE 11-10-80

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY W. J. Monte
CONDITIONS OF APPROVAL, IF ANY

FOR E. W. GUYNN
TITLE DISTRICT OIL & GAS SUPERVISOR

DATE OCT 0-6 1981

CONDITIONS OF APPROVAL ATTACHED
TO OPERATOR'S COPY

FLARING OR VENTING OF
GAS IS SUBJECT TO NTL 4-A
DATED 1/1/80

NOTICE OF APPROVAL

Ut State O & G

Identification No. 106-81

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

NEPA CATEGORICAL EXCLUSION REVIEW

PROJECT IDENTIFICATION

Operator ENERGY RESERVES GROUP
Project Type OIL WELL
Project Location 1246' FSL, 1468' FWL, SEC 27, T11S, R5E
Well No. 1 Lease No. U-13274
Date Project Submitted 11-21-80

FIELD INSPECTION

Date 7-8-81

Field Inspection
Participants

GEORGE DIWACHAK USGS
C. REED, M. McBrien, J. DUNCAN USFS
WALT NOWAK USFS
BILL FIANT, HARLEN COLLIER ERG
GENE STEWART Uintah ENG.
COOMBS HALL H.E. LOUDERNICK CO.

I have reviewed the proposal in accordance with the categorical exclusion review guidelines. This proposal would not involve any significant effects and, therefore, does not represent an exception to the categorical exclusions.

OCT 6 1981
Date Prepared

George J. Diwachak
Environmental Scientist

I concur

OCT 06 1981
Date

[Signature]
District Supervisor
FOR E. W. GYNN
DISTRICT OIL & GAS SUPERVISOR

CATEGORICAL EXCLUSION REVIEW INFORMATION SOURCE

| Criteria 516 DM 2.3.A | Federal/State Agency | | | Local and private corre- spondence (date) | Previous NEPA | Other studies and reports | Staff expertise | Onsite inspection (date) | Other |
|--|-------------------------------|--------------------------|-------------------|---|------------------|------------------------------------|--------------------|--------------------------------|-------|
| | Corre- spondence (date) | Phone check (date) | Meeting (date) | | | | | | |
| 1. Public health and safety | 1 (10-6-81) ↓ | | | | | | 6 | 6 (7-8-81) ↓ | 4,8 |
| 2. Unique charac- teristics | 1 | | | | | 2 | 6 | 6 | 4,8 |
| 3. Environmentally controversial | 1 | | | | | | 6 | 6 | 4,8 |
| 4. Uncertain and unknown risks | 1 | | | | | | 6 | 6 | 4,8 |
| 5. Establishes precedents | 1 | | | | | | 6 | 6 | 4,8 |
| 6. Cumulatively significant | 1 | | | | | | 6 | 6 | 4 |
| 7. National Register historic places | 1 | | | | | | | | |
| 8. Endangered/ threatened species | 1 | | | | | | | | |
| 9. Violate Federal, State, local, tribal law | 1 | | | | | | 6 | 6 | 4,8 |

CATEGORICAL EXCLUSION REVIEW COMMON REFERENCE LEGEND

1. Surface Management Agency Input (*ENVIRONMENTAL ASSESSMENT*)
2. Reviews Reports, or information received from Geological Survey (Conservation Division, Geological Division, Water Resource Division, Topographic Division)
3. Lease Stipulations/Terms
4. Application for Permit to Drill
5. Operator Correspondence
6. Field Observation
7. Private Rehabilitation Agreement
8. *RECOMMENDED STIPULATIONS*

RECOMMENDED STIPULATIONS

1. SEE USFS STIPULATIONS No. 1 through 16 INCLUDE ON PAGES 4, 5 AND 6 OF ENVIRONMENTAL ASSESSMENT PREPARED FOR PROPOSED ACTION (COPY ATTACHED)
2. THE LOCATION WILL BE MOVED TO 1256' FSL AND 1468' FVL AS DETERMINED AT THE PRE-DRILL INSPECTION AND AS NOTED IN THE SUNDRY NOTICE DATED 7/31/81
3. HYDROGEN SULFIDE DETECTORS SHALL BE INSTALLED AT THE CELLAR OR BELL NIPPLE AND MUD TANKS AT SHALE SHAKER
4. AT LEAST TWO WIND SOCKS WILL BE INSTALLED ON SITE AT READILY VISIBLE LOCATIONS
5. ADEQUATE SUPPLIES OF HYDROGEN SULFIDE MUD SCAVANGERS MUST BE ON LOCATION THROUGHOUT DRILLING
6. IF HYDROGEN SULFIDE GAS IS DISCOVERED, OPERATIONS SHALL CEASE UNTIL A CONTINGENCY PLAN, INCLUDING A FLAGGED ESCAPE ROUTE, IS IMPLEMENTED. A COPY OF THE H₂S CONTINGENCY PLAN SHALL BE SUBMITTED TO USGS.

Reserves Group's application:

Operations

- 1) An access route from Skyline Drive to the pad site must be designated by the Forest Supervisor prior to any further action taken on the proposal.
- 2) All topsoil must be removed from areas to be disturbed, and stockpiled and seeded. The stockpiled topsoil must be protected from erosion and disturbance.
- 3) During drilling operations the site must be kept clean and appear neat. All trash must be contained prior to disposal.
- 4) If a water well is drilled on the pad site, the proponent must obtain a permit from the State to drill the well and a right to use the water. Any documentation regarding the above or any other water source must be presented to the Forest Service prior to water use.
- 5) A snow removal plan must be submitted to and accepted by the Forest Service prior to October 1, 1981. This plan must address, at a minimum, how contaminated and uncontaminated snow will be removed from the pad site without damaging the sites' enclosing berm and without overflowing the reserve pits or polluting the surrounding area.
- 6) Sufficient testing must be conducted during and after the reserve pits are constructed to determine if a liner will be necessary. Results must be submitted to the Forest Service for review.
- 7) A 12 inch gravel layer must be placed over the entire pad area.
- 8) The berm enclosing the pad site must be a minimum of 3 feet wide and 1.5 feet high.
- 9) The location of the overland flow interceptor ditch must be changed from the middle of the cut slope to above the cut slope. The ditch size must be a minimum of 3 feet by 1 foot.
- 10) If liquid from the reserve pits is in danger of overflowing, the excess liquid must be removed from the Forest and disposed of properly.
- 11) A trash disposal plan must be submitted to, reviewed and approved by the Forest Service prior to November 1, 1981. The plan must show, at a minimum, that the incinerator will be equipped with an adequate spark arrestor (maximum 3/8" mesh screen), how non-combustibles and ash will be disposed of and clearance area around the incinerator site. Approval of this incinerator unit use must also be obtained from the State of Utah's Bureau of Air Quality.
- 12) If any significant archaeological or paleontological artifacts or values are encountered during site construction the Forest Officer in charge must be notified and operations in the vicinity of the discovery must immediately cease until the proper action has been taken.

- 13) No unauthorized cross-country or off-road vehicular travel will be allowed.

Reclamation

- 14) Upon completion of drilling operations, reclamation of disturbed areas will commence as soon as possible to be completed within three years. Total reclamation will be proponent's responsibility. Energy Reserves Group must submit a detailed reclamation plan to the Forest Service for review. That plan will include, at a minimum, the following items:

- Results of soil tests conducted on the soil stockpile showing nutrient (nitrogen, phosphorus, and potassium) deficiencies if any. Fertilizer must be applied to the soil during reclamation to compensate for any deficiencies.
- After the pits are dried, they will be backfilled with pad site gravels; the fills will be replaced in cut areas and the entire disturbed area will be reshaped to approximate original contours.
- Compacted subsoils shall be ripped prior to topsoil replacement. The topsoil will then be replaced to coincide with natural contours. If the access road gravel is uncontaminated it may be used for maintenance on Skyline Drive. If not, then the gravel will be placed in the reserve pit. The subsoils will be ripped and topsoil replaced.
- The replaced topsoil will be seeded with the following mixtures, fertilized if necessary, mulched and protected from erosion. The following seed mix shall be handspread at the rate of 20 pounds per acre and be certified to have a minimum 80% pure live seed and a maximum 1% weeds:

| | <u>lbs/acre</u> |
|-----------------------------------|-----------------|
| Smooth Brome (Northern Strain) | 6 |
| Orchardgrass (Intermountain area) | 3 |
| Intermediate Wheatgrass | 3 |
| Slender Wheatgrass | 3 |
| Alfalfa (ladak) | 2½ |
| Chickpea milkvetch | 1 |
| White Dutch Clover | 1½ |

- The entire disturbed area, except for the access road will be fenced. The fence will be 42 inches high, have sheep netting at the bottom and one or two strands of barb wire to maintain a maximum 10 inch spacing. The fence will be maintained by the proponent and will remain until revegetation is complete.
 - At it's intersection with Skyline Drive, the access road will be signed and physically closed to prevent continued use.
15. In the event of a discovery and producing well, a separate surface-use and operation plan will be required covering any additional surface

facilities. The Forest Service will prepare an environmental assessment at the time to evaluate the proposed production plan.

- 16. The proponent will be held completely responsible for insuring that supervisory and field personnel related to this project be knowledgeable of the stipulations listed here and in the Permit to Drill. Complete copies of these stipulations will be kept on hand and presented upon request.

III. AFFECTED ENVIRONMENT

The affected environment of the project area has been generally described in the "Final Environmental Statement: Ferron-Price Planning Unit, Manti-LaSal National Forest", and the "Land Management Plan, Ferron-Price Planning Unit, Manti-LaSal National Forest". Also, several site-specific environmental assessments describing related actions in adjacent areas are on file. Notably: "U.S.D.A. Forest Service Proposed Limestone Gravel Extraction Project Near Skyline Drive", 3/31/81; "A Proposed Four Mile Reconstruction Segment of Skyline Drive, Energy Reserves Group", 6/22/81; and "The Remaining 11 Mile Proposed Reconstruction Segment of Skyline Drive, Four Mile Haul Road and Gravel Extraction Site, Energy Reserves Group", 7/13/81.

Site-specific resource reports furnished by the Interdisciplinary Team supply additional environmental data pertinent to this proposed project. Excerpts of these reports are presented below. Copies of these reports and the aforementioned environmental assessments and Ferron-Price Planning Unit documents are all available for review at the Price Ranger District Office.

Description

The drill site and access road is located on a rounded ridgetop running south and east from Skyline Drive at an approximate altitude of 9,105 feet with slopes ranging from 0 to 20 percent. The proposed site is located 1,393 feet west and 1,248 feet north of the SE corner of Section 27, T. 11 S., R. 5 E., SLM.

Approximately 10 acres of land will be disturbed including the access road and cut and fill slopes. The area has a growing season of 80 days and is subject to frequent strong winds. These prevailing westerly winds tend to dry the area during the summer and cause severe snow drifting during the winter. Analysis of snow course data at Mammoth Guard Station shows a 51-year average April snowpack of 60 inches which corresponds to 21.1 inches of water content. The area is contained within the head-waters of Fish Creek, considered to be a high value fishery, which drains into Scofield Reservoir. No flowing water was noted in the area, although some channels do exist downslope on either side of the drill site. An intermittent spring is located directly downslope of the reserve pit site on the east side of the ridge. 4,000 feet of channel exist between this spring and several small beaver ponds which drain into Fish Creek.

Typically, the soils are deep (greater than 60 inches) with dark brown silt loam surfaces about four inches thick. These horizons represent the topsoil. At a depth of 24 inches, is a pale olive green horizon with textures ranging from silty

U. S. GEOLOGICAL SURVEY - CONSERVATION DIVISION

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-13274

OPERATOR: Energy Reserves Group WELL NO. 1

LOCATION: 1/2 C 1/2 SE 1/4 sec. 27, T. 11S, R. 5E, SLM
Utah County, Utah

1. Stratigraphy: Estimated tops:

| | | | | | |
|------------|---------|------------|---------|---------------|----------------|
| Flagstaff | surface | Dakota | 8800' | Moenkopi | 13,500' |
| North Horn | ~1100' | Morrison | 9500' | Thaynes | 14,300' |
| Mesaverde | | Carmel | 11,600' | Park City | 15,000' |
| Mancos | ~2800' | Twin Creek | 11,900' | Diamond Creek | 15,500' |
| Emergy | 6500' | Nugget | 12,200' | Decorat | 17,400' |
| Ferron | 8000' | Chinle | 13,200' | <u>TD</u> | <u>18,000'</u> |

2. Fresh Water:

Fresh water is probable in the Mesaverde. Useable water may occur in Mancos sandstones.

3. Leasable Minerals:

Coal in the Mesaverde (~1500' to 2800')

4. Additional Logs Needed:

Site is adequate

5. Potential Geologic Hazards:

Salt may occur in the Carmel (probably 50' or less).

6. References and Remarks:

Signature: Gregory W. Wood Date: 12-31-80

NOTICE OF SPUD

D

OCT 26 1981

Caller: Roscoe Gillespie - Energy Resource Group

Phone: _____

GAS & MIN. CO.

Well Number: Indianola Unit #1

Location: SE 1/4 27-112-5E

County: Utah State: Utah

Lease Number: U-13274

Lease Expiration Date: _____

Unit Name (If Applicable): Indianola Unit

Date & Time Spudded: 8:00 AM 10-24-81

Dry Hole Spudded Rotary: _____

Details of Spud (Hole, Casing, Cement, etc.) Drilled

42" hole to 43' GL 30" OD Casing - cemented
with 6 yds cement - completed 4:00
10-25-81

Rotary Rig Name & Number: Bill Martin Jr

Approximate Date Rotary Moves In: _____

FOLLOW WITH SUNDRY NOTICE

Call Received By: Deane

Date: October 26, 1981

Vernal
Utah Co. # ✓
See
TAM
APD Control
Original Well File

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil well gas well other

2. NAME OF OPERATOR
Energy Reserves Group, Inc.

3. ADDRESS OF OPERATOR
P. O. Box 3280, Casper, WY 82602

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: 1,246' FSL & 1,468' FEL (SW/SE)
AT TOP PROD. INTERVAL:
AT TOTAL DEPTH:

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

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

5. LEASE
U-13274

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME
Indianola Unit

8. FARM OR LEASE NAME

9. WELL NO.
1

10. FIELD OR WILDCAT NAME

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec. 27-T11N-R5E

12. COUNTY OR PARISH
Utah

13. STATE
Utah

14. API NO.

15. ELEVATIONS (SHOW DF, KDB, AND WD)
G.L. 9,147'

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

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

The above referenced well was spudded with a dry-hole-digger @ 8:00 a.m. 10-24-81.

Dr'd. & reamed to 42" to 43' - G.L.

Ran 45' of 30" O.D., 3/8" wall, plain end casing set @ 43' G.L. Cemented w/6 yds. of cement. Job completed @ 4:00 p.m., 10-25-81.

W.O.R.T.

Subsurface Safety Valve: Manu. and Type _____

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

SIGNED Roscoe C. Gillespie TITLE Dir'l. Supt.-RMD DATE October 26, 1981

(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**

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil well gas well other

2. NAME OF OPERATOR
Energy Reserves Group, Inc.

3. ADDRESS OF OPERATOR
P.O. Box 3280 - Casper, Wyoming 82602

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: 1,246' FSL & 1,468' FEL
AT TOP PROD. INTERVAL:
AT TOTAL DEPTH:

| | |
|--|-------------------|
| 5. LEASE U-13274 | |
| 6. IF INDIAN, ALLOTTEE OR TRIBE NAME | |
| 7. UNIT AGREEMENT NAME Indianola Unit | |
| 8. FARM OR LEASE NAME | |
| 9. WELL NO. 1 | |
| 10. FIELD OR WILDCAT NAME Wildcat | |
| 11. SEC., T., R., M. OR BLK. AND SURVEY OR AREA Sec. 27-T15-R5E | |
| 12. COUNTY OR PARISH Utah | 13. STATE Utah |
| 14. API NO. | |
| 15. ELEVATIONS (SHOW DF, KDB, AND WD) G.L. 9,147' K.B. 9,175' | |

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

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

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

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

Drld 17-1/2" hole to 2,070' & opened to 26" to 1,920'.

Ran 47 jts 20" O.D., 133#, K-55, R-3, S-5 Buttress Thread @ 1,886' (KB). Cemented w/2610 sx of Lite cement w/3% Salt, 2% 1/4# Flocele/sx; followed by 935 sx of Class "G" cement w/2% Flocele & 10# Gilsonite/sx. Plug down @ 9:45 PM 1-25-82 turns.

Nipped up and pressure tested BOPE to 2000 psi--held o.

2-2-82: Cleaning out 17-1/2" hole to 1,960'.

Subsurface Safety Valve: Manu. and Type _____ Ft.

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

SIGNED Russ C. Billigan TITLE Drlg Supt.- RMD DATE 2-02-82

(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

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil well gas well other

2. NAME OF OPERATOR
Energy Reserves Group, Inc.

3. ADDRESS OF OPERATOR
P.O. Box 3280 - Casper, Wyoming 82602

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: 1,246' FSL & 1,468' FEL
AT TOP PROD. INTERVAL:
AT TOTAL DEPTH:

5. LEASE
U-13274

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME
Indianola Unit

8. FARM OR LEASE NAME

9. WELL NO.
1

10. FIELD OR WILDCAT NAME
Wildcat

11. SEC., T., R., M. OR BLK. AND SURVEY OR AREA
Section 27-T11S-R5E

12. COUNTY OR PARISH
Utah

13. STATE
Utah

14. API NO.

15. ELEVATION SHOW OF KDB, AND WD)
U.L. 91411 K.B. 9,175'

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

REQUEST FOR APPROVAL TO: SUBSEQUENT REPORT OF:

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

PULL OR ALTER CASING

MULTIPLE COMPLETE

CHANGE ZONES

ABANDON*

(other) Well History

RECEIVED
APR 30 1982

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

DIVISION OF
OIL, GAS & MINING

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.)*

Drld 17-1/2" hole to 4,751'. Reduced hole to 12-1/4" & drld 12-1/4" hole to 7,940'. Reamed 12-1/4" hole to 17-1/2" to 4,757'.

Ran 112 jts of 13-3/8", 68#, S-80 & K-55, ST&C new casing landed @ 4,757' KB. Cemented w/3000 sx Dowell Foam cement followed by 250 sx Class "G" cement. Lost returns last 125 sx Foam cement. Job completed @ 12:01 AM 4-23-82

Nippled up & pressure tested BOPE to 5000 psi--held o.k. Drld cement & shoe and pressure tested csg seat to 300 psi.

4-26-82: Cleaning out 12-1/4" hole to 5,563'.

Subsurface Safety Valve: Manu. and Type _____ Ft.

18. I hereby certify that the foregoing is true and correct
SIGNED N.W. Thomas TITLE Drlg Foreman-RMD DATE 4-27-82

(This space for Federal or State office use)

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

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

BLOW OUT PREVENTION TEST

NAME OF COMPANY: ENERGY RESERVE GROUP

WELL NAME: Indianola #1

SECTION: SWSE 27 TOWNSHIP 11 S RANGE 5 E COUNTY: Utah

DRILLING CONTRACTOR: _____

RIG # _____

BOP TEST: DATE: 6-22-82

TIME: _____

DRILLING: _____

CASING: _____

H₂S: _____

REPORTED BY: _____

TELEPHONE NO. _____

DATE: 6-22-82 SIGNED AS

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

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil well gas well other

2. NAME OF OPERATOR
Energy Reserves Group, Inc.

3. ADDRESS OF OPERATOR
P.O. Box 3280 - Casper, Wyoming 82602

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: 1,246' FSL & 1,468' FEL
AT TOP PROD. INTERVAL:
AT TOTAL DEPTH:

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

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

5. LEASE
U-13274

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME
Indianola Unit

8. FARM OR LEASE NAME

9. WELL NO.
1

10. FIELD OR WILDCAT NAME
Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec. 27-T11-R5E

12. COUNTY OR PARISH
Utah

13. STATE
Utah

14. API NO.

15. ELEVATIONS (SHOW DF, KDB, AND WD)
G.L. 9,147'; K.B. 9,175'

RECEIVED
AUG 16 1982

DIVISION OF
OIL, GAS & MINING

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.)*

Drld 12-1/4" hole to 13,038' & ran logs. Reduced hole to 9-7/8" and drld to 13,800'.

Ran 302 jts of 9-7/8" & 9-5/8" O.D., 62.8#, 53.50#, 47.0# & 43.50#, S-105 & SS-95, LT&C, new casing set @ 13,019'. Cemented w/200 sx of HOWCO Lite cement w/10# Gilsonite and 1/4# Flocele/sx & 0.5% Halad-9 and 0.3% HR-8, followed w/ 325 sx of Type "H" cement w/1/4# Flocele/sx and 0.2% HR-8. Plug down @ 1:15 PM 8-4-82. No returns while cementing.

Ran temp survey. Top of cement @ 11,950'.

N.U. and pressure tested BOPE to 5000 psi; Casing to 2000 psi & casing seat to 10.0 ppg mud equivalent--held o.k.

8-11-82: Drlg 8-1/2" hole @ 13,905'.

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

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

SIGNED [Signature] TITLE Drlg Foreman - RMD DATE 8-11-82

(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

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil well gas well other

2. NAME OF OPERATOR
Sohio Petroleum Company

3. ADDRESS OF OPERATOR
Box 30, Casper, Wyoming 82602

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: 1246' FSL & 1468 FEL
AT TOP PROD. INTERVAL:
AT TOTAL DEPTH:

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

REQUEST FOR APPROVAL TO: SUBSEQUENT REPORT OF:

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

(other) Change of Operator

5. LEASE
U-13274

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME
Indianola Unit

8. FARM OR LEASE NAME

9. WELL NO.
1

10. FIELD OR WILDCAT NAME
Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec. 27, T11S, R5E

12. COUNTY OR PARISH | 13. STATE
Utah | Utah

14. API NO.

15. ELEVATIONS (SHOW DF, KDB, AND WD)
9147' GL

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

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

Sohio Petroleum Co. was designated as operator of the Indianola Unit Well #1 on 9-15-82, and ERG, Inc. resigned as operator.

A verbal report was made to Diane Horsley, MMS on 9-17-82 when final notification was received by Sohio in Casper. A verbal report was made to UFS in Price, Utah and the Division of Oil, Gas & Mining, Utah Geological & Mineral Survey in Salt Lake at the same time.

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

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

SIGNED W. H. Ward TITLE Dist. Supt. DATE 9-20-82
W. H. Ward

(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

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil well gas well other

2. NAME OF OPERATOR
Sohio Petroleum Co.

3. ADDRESS OF OPERATOR
P. O. Box 30, Casper, Wyoming 82602

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: NE SW SE Sec. 27, T11S, R5E
AT TOP PROD. INTERVAL:
AT TOTAL DEPTH:

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

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

5. LEASE
U-13274

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME
Indianola Unit

8. FARM OR LEASE NAME

9. WELL NO.
1

10. FIELD OR WILDCAT NAME
Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec. 27, T11S, R5E

12. COUNTY OR PARISH | 13. STATE
Utah | Utah

14. API NO.

15. ELEVATIONS (SHOW DF, KDB, AND WD)
9147' GL

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

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

RECEIVED
OIL, GAS, AND MINERAL
DIVISION

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

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

SIGNED F. J. Hoffer TITLE Asst. Dist. Supt. DATE 9-21-82

(This space for Federal or State office use)

APPROVED BY _____
CONDITIONS OF APPROVAL, IF ANY:

TITLE _____ DATE _____

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil well gas well other

2. NAME OF OPERATOR
Sohio Petroleum Co.

3. ADDRESS OF OPERATOR
P. O. Box 30, Casper, Wyoming 82602

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: NE SW SE Sec. 27, T11S, R5E
AT TOP PROD. INTERVAL:
AT TOTAL DEPTH:

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

5. LEASE
U-13274

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME
Indianola Unit

8. FARM OR LEASE NAME

9. WELL NO.
1

10. FIELD OR WILDCAT NAME
Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec. 27, T11S, R5E

12. COUNTY OR PARISH
Utah

13. STATE
Utah

14. API NO.

15. ELEVATIONS (SHOW DF, KDB, AND WD)
9147' GL

REQUEST FOR APPROVAL TO: SUBSEQUENT REPORT OF:

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

PULL OR ALTER CASING

MULTIPLE COMPLETE

CHANGE ZONES

ABANDON*

(other) Weekly Sundry Notice

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

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

RECEIVED
OCT 01 1982

DIVISION OF
OIL, GAS & MINING

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

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

SIGNED W. H. Ward TITLE Dist. Supt. DATE 9-29-82

(This space for Federal or State office use)

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



SOHIO PETROLEUM COMPANY
EXPLORATION AND PRODUCTION

P. O. BOX 30
CASPER, WYOMING 82602

October 1, 1982
WHW: 5

Mr. E. W. Guynn
Minerals Management Service
8426 Federal Building
125 South State Street
Salt Lake City, UT 84138

RE: Request for Approval to
Plug and Abandon
Indianola Unit #1
Utah County, Utah

Dear Mr. Guynn:

Enclosed are the original and three copies of the Request for Approval to Plug and Abandon the Indianola #1 well in Utah County, Utah. The procedure outlined has been verbally approved by Mr. Bill Martens of your office. Plugging will commence October 2, 1982.

Please advise if further information is required to approve this request.

Sincerely,



F. J. Hoffer

FJH/lea

cc: Cleon Feight, Utah Oil & Gas Commission (2 copies)
J. H. Walters
T. Rooney
File

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil well gas well other

2. NAME OF OPERATOR
Sohio Petroleum Company

3. ADDRESS OF OPERATOR
P. O. Box 30, Casper, Wyoming 82602

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: 1246' FSL, 1468' FEL
AT TOP PROD. INTERVAL:
AT TOTAL DEPTH:

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

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

5. LEASE
U-13274

6. IF INDIAN, ALLOTTEE OR TRIBE NAME
N/A

7. UNIT AGREEMENT NAME
Indianola

8. FARM OR LEASE NAME
Indianola

9. WELL NO.
#1

10. FIELD OR WILDCAT NAME
Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec. 27, T11S, R5E

12. COUNTY OR PARISH | 13. STATE
Utah | Utah

14. API NO.

15. ELEVATIONS (SHOW DF, KDB, AND WD)
9147' GR

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

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

Procedure to plug and abandon - approved verbally by Bill Martens, Minerals Management Service, Salt Lake City, Utah. Procedure Attached.

**APPROVED BY THE STATE
OF UTAH DIVISION OF
OIL, GAS, AND MINING**

DATE: 10/1/82
BY: [Signature]

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

18. I hereby certify that the foregoing is true and correct
SIGNED F. J. Hoffer TITLE Assistant District Supt. DATE 10-1-82
(This space for Federal or State office use)

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

PROCEDURE TO PLUG AND ABANDON

Indianola Unit #1

- (1) Balance a 200' plug 17040-16840'.
- (2) Pull up to 14670' and balance 200' plug 14670-14470'.
- (3) Pull up to 13100' and balance 200' plug 13100-12900'.
- (4) Tie pump truck to 13-3/8 x 20" annulus, establish injection and pump mud with approximately 20#/barrel LCM. Follow with 300 sx Howco Lite. Clear lines plus 1/2 barrel, shut in annulus.
- (5) Perforate 9-5/8" casing 4750-4754'.
- (6) Run gauge ring & junk basket to 4740'. Run & set 9-5/8" Howco EZSV @ 4740'.
- (7) Open 9-5/8" x 13-3/8" annulus, establish circulation.
- (8) Pump 300 sx Howco Lite, displace to EZSV & string out. Balance 25 sx (100') plug above EZSV.
- (9) If cement not to surface, WOC 4 hrs, tie pump truck to 9-5/8" x 13-3/8" annulus, pump 300 sx Howco Lite if possible, clear lines plus 1/2 barrel and shut in. ND BOP.
- (10) Spot 200' plug (70 sx) in top of 9-5/8" casing.
- (11) Check cement tops in 9-5/8 x 13-3/8" and 13-3/8" x 20"Annuli. Top off with Redimix if needed (volume based on TOC).
- (12) Install dry hole marker, clean site, fence pits.

ORAL APPROVAL TO PLUG AND ABANDON WELL

Operator Sohio Petroleum Representative Floyd Hoffer

Well No. #1-Indianola Location SE ¼ SW ¼ Section 27 Township 11S Range 5E
Unit

County Utah Field Wildcat State Utah

Unit Name and Required Depth Indianola Unit Base of fresh water sands Not reported

T.D. 17,049' Size hole and Fill per sack " ' and Top Mud Weight #/gal.

| Casing Size | Set At | Top of Cement | To Be Pulled | Plugging Requirements | | |
|-----------------------------|-----------------------------|-----------------------------|-----------------------------|---|-----------------------------|-----------------------------|
| | | | | From | To | Sacks Cement |
| <u>20"</u> | <u>1886'</u> | <u>surface</u> | <u> </u> | <u>1. TD up 200'</u> | <u> </u> | <u>As Necessary</u> |
| <u>13 3/8"</u> | <u>4757'</u> | <u>-</u> | <u> </u> | <u>2. 14,670'</u> | <u>14,470'</u> | <u>As Necessary</u> |
| <u>9 5/8"</u> | <u>13019'</u> | <u>11,950'</u> | <u> </u> | <u>3. 13,100'</u> | <u>12,900'</u> | <u>As Necessary</u> |
| <u>Formation</u> | <u>Top</u> | <u>Base</u> | <u>Shows</u> | <u>(9 5/8" casing - shoe @ 13,019')</u> | | |
| <u>Nugget</u> | <u>16,953'</u> | <u> </u> | <u> </u> | <u>4. 20" X 13 3/8" annulus</u> | <u> </u> | <u>300 Sacks</u> |
| <u> </u> | <u> </u> | <u> </u> | <u> </u> | <u>5. Perforating @ 4750' - 54'</u> | <u> </u> | <u>300 Sacks</u> |
| <u> </u> | <u> </u> | <u> </u> | <u> </u> | <u>with cement retainer @4740'.</u> | <u> </u> | <u> </u> |
| <u> </u> | <u> </u> | <u> </u> | <u> </u> | <u>(13 3/8" casing shoe @ 4757')</u> | <u> </u> | <u> </u> |
| <u> </u> | <u> </u> | <u> </u> | <u> </u> | <u>6. Above cement retainer @ 4750</u> | <u> </u> | <u>100 Sacks</u> |
| <u> </u> | <u> </u> | <u> </u> | <u> </u> | <u>7. 13 3/8" X 9 5/8" annulus</u> | <u>(in the 300 sacks</u> | <u> </u> |
| <u> </u> | <u> </u> | <u> </u> | <u> </u> | <u>event circulation was not obtained.)</u> | <u> </u> | <u> </u> |
| <u> </u> | <u> </u> | <u> </u> | <u> </u> | <u>8. 200'</u> | <u>surface</u> | <u>As Necessary</u> |
| <u> </u> | <u> </u> | <u> </u> | <u> </u> | <u>(inside 9 5/8" casing)</u> | <u> </u> | <u> </u> |

REMARKS

DST's, lost circulation zones, water zones, etc.,

Will not attempt any pipe recovery. Will check all annulus areas after rigging down equipment and will fill with cement if necessary.

Approved by R. J. Firth Date 10-1-82 Time a.m.
p.m.

CONFIDENTIAL
UNITED STATES

DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil well gas well other

2. NAME OF OPERATOR
Sohio Petroleum Co.

3. ADDRESS OF OPERATOR
P. O. Box 30, Casper, Wyoming 82602

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: NE SW SE Sec. 27, T11S, R5E
AT TOP PROD. INTERVAL:
AT TOTAL DEPTH:

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

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

5. LEASE
U-13274

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME
Indianola Unit

8. FARM OR LEASE NAME

9. WELL NO.
1

10. FIELD OR WILDCAT NAME
Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec. 27, T11S, R5E

12. COUNTY OR PARISH
Utah

13. STATE
Utah

14. API NO.

15. ELEVATIONS (SHOW DF, KDB, AND WD)
9147' GL

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

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

RECEIVED
OCT 08 1982
DIVISION OF
OIL, GAS & MINING

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

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

SIGNED F. J. Hoffer TITLE Dist. Supt. DATE 10-5-82

(This space for Federal or State office use)

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



SOHIO PETROLEUM COMPANY
Rocky Mountain Division

633 17TH STREET - SUITE 2200
DENVER, COLORADO 80202
(303) 892-5504

October 5, 1982

State of Utah
Department of Natural Resources
Division of Oil and Gas and Mining
Well Records Department
4241 State Office Building
Salt Lake City, Utah 84114

RE: **Indianola Unit #1**
Section 27, Township #11
South, Range 5 East
Utah County, Utah

Gentlemen:

This letter is a confirmation of the telephone conversation I had with Sandy Bates in your Oil and Gas Division October 4, 1982, concerning the release of information on the above-captioned well. Sohio, as Operator of the above-named well, hereby requests that all well logs and other information from the well be kept confidential under Rule C-5 of the Utah Oil and Gas Conservation Rules and Regulations.

Very truly yours,

Charles Goodin
Landman

CG:kdb

RECEIVED
OCT 07 1982

DIVISION OF
OIL, GAS & MINING



SOHIO PETROLEUM COMPANY
EXPLORATION AND PRODUCTION

P. O. BOX 30
CASPER, WYOMING 82602

October 12, 1982
WHW: 50

Mr. E. W. Guynn
Minerals Management Service
8426 Federal Building
125 South State Street
Salt Lake City, UT 84138

RE: Subsequent Report on
Plugging and Abandonment,
Indianola Unit #1
Utah Count, Utah

Dear Mr. Guynn:

Enclosed you will find the original and three copies of the Sundry Notice: Subsequent Report of Plugging and Abandonment of the Indianola Unit #1 well in Utah County, Utah. The procedure followed that which was approved by Mr. Bill Martens of your office. Plugging commenced October 2 and was completed October 4, 1982.

Please advise if further information is required to process this report.

Sincerely,

W. H. Ward
District Superintendent

cc: Cleon Feight, Utah Oil & Gas Commission (2 copies)
J. H. Walters
Terry Rooney
U. S. Forest Service
File

RECEIVED
OCT 14 1982

DIVISION OF
OIL, GAS & MINING

CONFIDENTIAL

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil well gas well other Dry Hole

2. NAME OF OPERATOR
Sohio Petroleum Company

3. ADDRESS OF OPERATOR
P. O. Box 30, Casper, WY 82602

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: 1246' FSL, 1468' FEL
AT TOP PROD. INTERVAL:
AT TOTAL DEPTH:

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

REQUEST FOR APPROVAL TO:

SUBSEQUENT REPORT OF:

- TEST WATER SHUT-OFF
- FRACTURE TREAT
- SHOOT OR ACIDIZE
- REPAIR WELL
- PULL OR ALTER CASING
- MULTIPLE COMPLETE
- CHANGE ZONES
- ABANDON***
- (other)

-
-
-
-
-
-
-
-

5. LEASE
U-13274

6. IF INDIAN, ALLOTTEE OR TRIBE NAME
N/A

7. UNIT AGREEMENT NAME
Indianola

8. FARM OR LEASE NAME
Indianola

9. WELL NO.
#1

10. FIELD OR WILDCAT NAME
Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec. 27, T11S, R5E

12. COUNTY OR PARISH | 13. STATE
Utah | Utah

14. API NO.

15. ELEVATIONS (SHOW DF, KDB, AND WD)
9147' GR

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

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

Plugging commenced October 2, 1982. Plugging completed October 4, 1982 @ 4:30 P.M.
(1) Spotted cmt plug - 90 sx from 17040 to 16840, 90 sx from 14670-14470, 125 sx from 13100 to 12900. (2) Pumped into 13-3/8 x 20" annulus w/400 psi, pumped 10 bbl mud, followed w/300 sx Howcolite, cleared lines plus 1/2 bbl & shut in annulus. (3) Perforated 9-5/8" csg from 4750' to 4754' w/2 SPF. (4) Ran gauge ring & junk basket to 4740', set EZSV retainer @ 4740'. (5) Pumped 300 sx Howcolite with 400 psi, no cmt return. (6) Set 25 sx plug on top of retainer. (7) Set 200' surface plug, 85 sx, in 9-5/8" csg. Well site will be cleaned, marked and rehabilitated.

**APPROVED BY THE STATE
OF UTAH DIVISION OF
OIL, GAS, AND MINING**

Subsurface Safety Valve: Manu. and Type _____

DATE: 10-12-82 Ft. _____
BY: [Signature]

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

SIGNED W. H. Ward TITLE Dist. Supt. DATE 10-12-82

(This space for Federal or State office use)

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

RECEIVED
OCT 14 1982

*See Instructions on Reverse Side

DIVISION OF
OIL, GAS & MINING

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

CONFIDENTIAL

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil well gas well other

2. NAME OF OPERATOR
Sohio Petroleum Co.

3. ADDRESS OF OPERATOR
P. O. Box 30, Casper, Wyoming 82602

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: NE SW SE Sec. 27, T11S, R5E
AT TOP PROD. INTERVAL:
AT TOTAL DEPTH:

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

REQUEST FOR APPROVAL TO:

- TEST WATER SHUT-OFF
- FRACTURE TREAT
- SHOOT OR ACIDIZE
- REPAIR WELL
- PULL OR ALTER CASING
- MULTIPLE COMPLETE
- CHANGE ZONES
- ABANDON*

SUBSEQUENT REPORT OF:

-
-
-
-
-
-
-
-

(other) Weekly Sundry Notice

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.)*

5. LEASE
U-13274

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME
Indianola Unit

8. FARM OR LEASE NAME

9. WELL NO.
1

10. FIELD OR WILDCAT NAME
Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec. 27, T11S, R5E

12. COUNTY OR PARISH | 13. STATE
Utah | Utah

14. API NO.

15. ELEVATIONS (SHOW DF, KDB, AND WD)
9147' GL

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

RECEIVED
OCT 15 1982

DIVISION OF
OIL, GAS & MINING

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

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

SIGNED W. H. WARD TITLE Dist. Supt. DATE 10-13-82
W. H. Ward

(This space for Federal or State office use)

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



SOHIO PETROLEUM COMPANY
EXPLORATION AND PRODUCTION

CONFIDENTIAL

P. O. BOX 30
CASPER, WYOMING 82602

October 14, 1982
WHW:67

Dave Rowley
Price River Water Users Assoc.
Route 1, Box 77
Helper, UT 84526

RE: Water Well
Indianola Unit #1
Utah County, Utah

Dear Mr. Rowley:

This letter is being sent to verify that plugging of the **water well** on location at the Indianola Unit #1 drill site is complete. The well was located 1584' FSL, 1286' FEL, Sec. 27, T11S, R5E.

The plugging procedure went as follows:

1. Pump pulled
2. Dumped 8 yards of Redimix down casing and filled well with cement
3. Casing was cut off 3 feet below surface
4. Plugged well will be covered with topsoil and revegetated

Plugging was completed October 11, 1982.

Please advise if you have any questions regarding this matter.

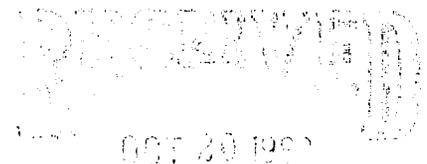
Sincerely,

Original Signed By
W H WARD

W. H. Ward
District Superintendent

TR:ed

cc: MMS, Salt Lake City
USFS, Price
Oil & Gas Commission, Salt Lake City
J. H. Walters
E. G. Werren
T. Rooney
File



DIVISION OF
OIL, GAS & MINING

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

15

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
Sohio Petroleum Company

3. ADDRESS OF OPERATOR
P.O. Box 30, Casper, Wyoming 82602

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)
At surface NE, SW, SE, Sec. 27, T11S, R5E
At top prod. interval reported below
At total depth

RECEIVED

OCT 25 1982

DIVISION OF OIL, GAS & MINING

5. LEASE DESIGNATION AND SERIAL NO.
U-13274

6. IF INDIAN, ALLOTTEE OR TRIBE NAME
NA

7. LEASE AGREEMENT NAME
Indianola

8. AREA OR LEASE NAME
Indianola

9. WELL NO.
#1

10. FIELD AND POOL, OR WILDCAT
Wildcat

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA
Sec. 27, T11S, R5E

CONFIDENTIAL

12. COUNTY OR PARISH
Utah

13. STATE
Utah

14. PERMIT NO. 43-049-3002 DATE ISSUED 10/6/81

15. DATE SPUNDED 10/24/81 16. DATE T.D. REACHED 9/26/82 17. DATE COMPL. (Ready to prod.) Plugged 10/4/82 18. ELEVATIONS (DF, REB, RT, OR, ETC.)* 9147' GR 19. ELEV. CASINGHEAD 9147'

20. TOTAL DEPTH, MD & TVD 17,049' 21. PLUG, BACK T.D., MD & TVD 22. IF MULTIPLE COMPL., HOW MANY* None 23. INTERVALS DRILLED BY → ROTARY TOOLS X CABLE TOOLS

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*
None - Well Plugged & Abandoned 10/4/82

25. WAS DIRECTIONAL SURVEY MADE
No

26. TYPE ELECTRIC AND OTHER LOGS RUN
DLL - MSEL, CNL-FDC, BHC Sonic Dipmeter

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 |
|---------------|----------------------|----------------|-----------|------------------------------|---------------|
| 30" Conductor | | 43' | 42" | to surface | None |
| 20" | 133# | 1886' | 26" | 2610 sx lite +935sx Cl G | None |
| 13-3/8 | 68# | 4757' | 17 1/2" | 3000sx foam cmt & 250sx Cl G | None |
| 9-7/8, 9-5/8" | 43.5, 47, 53.5, 62.8 | 13019' | 12 1/4" | 200sx lite, 325sx Cl H | None |

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 None PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) WELL STATUS (Producing or shut-in)

| 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
Logs were mailed previously

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

SIGNED W. H. Ward TITLE District Superintendent DATE 10-22-82

*(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.)

CONFIDENTIAL

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. |
|------------------------------|--------|--------|---|
| Price River | 2,000 | 4,750 | Wet sand 10-14% Porosity |
| Black Hawk | 4,850 | 6,780 | Increasing carbonous shale, decreasing sand |
| Star Point | 7,265 | 9,085 | 6-11% Thin Sands 2-6% |
| Star Point | 9,120 | 9,825 | Coal, Coal Gas |
| Emery | 11,530 | 11,830 | Thick tite sand, 2-6%, trace coal |
| Emery | 12,200 | 12,360 | Thick tite sand 2-6% |
| Ferron | 13,025 | 13,500 | Thin sands 2-8% |
| Dakota | 14,700 | 14,950 | Thin, tite sand, 2-6% |
| Cedar Mtn. | 15,150 | 15,400 | Thin, tite sand, 2-6% |
| Morrison | | | |
| Entrada | | | |
| Entrada | | | |
| No logs run above 2000 feet. | | | |

38. GEOLOGIC MARKERS

| NAME | TOP | |
|--|-------------|------------------|
| | MEAS. DEPTH | TRUE VERT. DEPTH |
| Price River | | 2162 |
| Castle Gate | | 3091 |
| Black Hawk | | 4025 |
| Star Point | | 6350 |
| Masuk | | 8752 |
| Emery | | 8950 |
| Blue Gate | | 9826 |
| Ferron | | 11189 |
| Tununk | | 11848 |
| Dakota | | 12176 |
| Cedar Mtn. | | 12284 |
| Morrison | | 12764 |
| Summerville | | 13632 |
| Curtis | | 14131 |
| Entrada | | 14663 |
| Arapien | | 15900 |
| Carmel LS | | 16451 |
| Navajo | | 16953 |
| Measured depth and true vertical depth are the same number | | |

TRANSMITTAL

3



TO:

Utah Div. O & G mining

AREA

DATE

10-25-82

conf

We are transmitting to you today via the following:

reg. mail

115 SE 27
Energy Reserves
#1 Indianola Unit

- mud log

- geo. report

Please acknowledge receipt of the above by signing and returning the yellow copy of this transmittal.

Yours very truly,
SOHIO PETROLEUM COMPANY

Received:

By:

Cari Furse

By:

K. Bailey

Date:

11-3-82

SOHIO PETROLEUM COMPANY

WEBB DIVISION

633 17TH ST., SUITE 2200

DENVER, COLORADO 80202



SOHIO PETROLEUM COMPANY
EXPLORATION AND PRODUCTION

P. O. BOX 30
CASPER, WYOMING 82602

October 22, 1982
WHW:119

E. W. Guynn
Minerals Management Service
8426 Federal Building
125 South State Street
Salt Lake City, UT 84138

CONFIDENTIAL

RE: Completion Report
Indianola Unit #1
Utah Co., Utah

Dear Mr. Guynn:

Enclosed you will find the original and 3 copies of the Completion Report for the Indianola Unit #1 well which was plugged and abandoned on October 4, 1982. All logs are being mailed to your office separately.

Please retain this information as confidential for at least 6 months.

Please advise if further information is required to process this report.

Sincerely,

Original Signed By:

W. H. Ward
District Superintendent

TR:ed
Enclosures

cc: Cleon Feight, Oil & Gas Commission ←
U. S. Forest Service
J. H. Walters
T. Rooney
File

RECEIVED
OCT 26 1982

DIVISION OF
OIL, GAS & MINING

UTAHUtah County, Indianola Unit #1

Sec. 27, T11S, R5E

Wildcat

9-5/8 &

9-7/8 Combo @

(D) Elev. 9147'GL, 13,019' @ (10-24-81)

AFE #60-1601(Drl)

#60-1602(Com)

Lse #None

Location: C SE Sec. 27, T11S, R5E

WI: Sohio & Others

- 9-11 TD 15,512', made 2'. Drlg. MW 8.8, Vis 55, WL 13.4, Ck 2/32, PH 9.3, Solids 2.7%, Sd - ½%, PV - 15, YP - 17, LCM - 12%, CL - 18000, Gel - 2/8, K+ - 20000, 1350 psi, 48 SPM, WOB - 26000, RPM 55, BHA - 7" slick. In hole w/bit #65: 8½" STC F7 w/3-18's, has made 2'½ hr. Test BOP to 9600 psi & hydril to 4600 psi. Repair rig. GIH to shoe at 13019' & broke circ. - lost 150 bbls. mud. GIH to 15420'. Washed & reamed to 15510'. Drld. 2'. Note: Strapped in - no correction.
- 9-12 TD 15,533', made 23'. Reaming at 14540' with new BHA. MW 8.9, Vis 60, WL 14.4, Ck 2/32, PH 9.6, Solids 2.8%, Sd ½%, PV 15, YP 16, LCM 15%, Cl 22000, KCl 19200, Gels - 4/15. Pump: 1500 psi, 49 SPM. WOB: 20-25000#, RPM 55. BHA: Bit, 6 pt. 10' - Teledrift sub, IBS, 1 - 7" DC, IBS, shock sub, 17-7" DC, jars, 3-7" DC, KSW, 5 jts. - Hevi Wate. Bit #65: 8½" STC F7 w/3-18's, out @ 15533'. Made 23' in 6½ hrs. Grade: T-2, B-eff., G-¼" under. Surveys: 15520' - 7½° (Teledrift); 15533' - 7½° (Totco). Drld. 15512' - 15520'. Took Teledrift survey - showed 7½°. Drld. to 15533'. Made short trip to 14500' - OK. Drop TOTCO & POH. TOTCO verified Teledrift. PU stiffer BHA & GIH. Tite spot at 14540'. Start washing & reaming - reaming easy. Have lost 90 bbl. mud while reaming.
- 9-13 TD 15,571', made 38'. Drlg. MW 9.0, Vis 60, WL 13.9, PH 10.4, Ck 2/32, Gels 6/21, PV 18, YP 14, Sol - 3%, Sd - ¼%, Cl 30000, KCL - 15000. Bit #66: 8½" STC F7 has made 38' - 8 hrs. BHA: Same - length 728' without Hevi Wate. Pump: 1050 psi, 42 SPM, WOB - 48000#, RPM 45. Reamed 14805-15099' and 15316-15533'. Drld. new hole to 15,571'. Had trouble on connection. Had to work pipe 4 hrs. in tite hole to make connection. Back to drlg. Lost 150 bbl. mud last 24 hrs. Survey: 15573' - 6½° (Teledrift, after report time).
- 9-14 TD 15,677', made 106', Drlg. 75% silt, 15% shale, 10% sd. MW 8.9+, Vis 75, WL 12.6, Ck 2/32, PH 10.3, oil 5%, Solids 2.9%, Sd 1/8, PV 18, YP 19, Cl 36,000, gels 11/45, pump - 1400 psi, 42 SPM, WOB 48,000#, RPM 45, BHA: same. Bit #66, 8½" Smith F-7 w/3-18's, has made 144' in 29 hrs. Surveys: all Teledrift, 15,609' - 6½°, 15,636' - 6½°, 15,677' - 6½°. Drld. from 15,571'-15,677'. At 15,587' lost pump pressure & pump strokes picked up. Had small mud gain in pit. PU & SI to check for flow, had no flow. Went back to drlg. lost 150 bbl. mud last 24 hrs.

- 9-15 TD 15,775', 98' last 24 hrs. TOH. Drlg. out of hole at 15,518', MW 8.9, Vis 64, WL 12.4, Ck 2/32, PH 10.4, oil 8%, solids 2.7%, sd tr, PV 15, YP 24, cl 38,000, gels 8/21, pump pressure 1400, 42 strokes, 6½" stroke, 18" liners, WOB 48,000, RPM 45. Bit #66, 8½ Smith F-7, made 242' - 47 hrs. Avg. 5.1'/hr. Surveys, all Teledrift, 15,699' - 6½°, 15,730 - 6½°, 15,762 - 6½°. Drl. from 15,677-15,775, drop survey. TOH to 15,604', work tite hole to 15,586', free for 3-4', drl. up to 15,555, free 4-5', drl. to 15,518', top IBS now at 15,468' in dog leg. Pumping freely on circ. DP dragging in dog leg. Lost 120 bbls. mud in last 24 hrs.
- 9-16 TD 15,817', made 42' last 24 hrs, drlg. MW 8.9+, Vis 65, WL 11.8, Ck 2/32, PH 10.2, oil 7%, Solids 2½%, Sd tr, PV 16, YP 21, Cl 39,500, gels 6/19, pump pressure 1400, SPM 41, liner size 6½", stroke 18", WOB 47,000#, RPM 45. Pump @ 336 gal./min., avg. velocity 174, round DP 354 on collars. KCl 14,700 ppm bringing up to 26,000. Bit #66, condition 3-3-OK. Bit #67, 8½ Hughes J55R, SJ156, 1-16 & 2-18's, in at 15,775', made 42' - 7 hrs., 6 ft./hr. Survey @ 15,775' with Totco 6½°; Teledrift @ 15,793' 7°, drlg. sd. Drld. up from 15,518-15,466', pull free, TOH, change out 6 pt. reamer, reamer worn out. Change Teledrift to 5-7½°, move keyseat wiper to 340' above bit. TIH from 15,556-15,775', singled in last 20', had to be reamed dn., no other problems in the hole, drl. from 15,775-15,817. no mud loss on trips, lost approx. 50 bbls. mud while working tite hole.
- 9-17 TD 15,959', made 142'. Operation drlg. MW 8.9, Vis 66, WL 12.2, Ck 2/32, PH 10.2, oil 7%, solids 2.4%, sd tr, PV 21, YP 22, Cl 42,700, gels 8/23, pump - 1500 psi, 44 SPM, WOB 47,000, RPM 45. BHA: bit, 6 pt., teledrift sub, IBS, 1 - 30' DC, IBS, shock sub, 9 - 30' DC, keyseat wiper, 8 - 30' DC, jars, 3 - 30' DC, 5 jts. Hevi Wate DP. Bit #67 8½ Hughes, J55R, with 1-16, 2-18's, made 184' - 30½ hrs. Surveys: 15,825 - 7°, 15,856 - 7°, 15,888 - 6½°, 15,919 - 6½°, 15,950 - 6½°. lost 50 bbls. mud in 24 hrs.

- 9-15 TD 15,775', 98' last 24 hrs. TOH. Drlg. out of hole at 15,518', MW 8.9, Vis 64, WL 12.4, Ck 2/32, PH 10.4, oil 8%, solids 2.7%, sd tr, PV 15, YP 24, cl 38,000, gels 8/21, pump pressure 1400, 42 strokes, 6½" stroke, 18" liners, WOB 48,000, RPM 45. Bit #66, 8½ Smith F-7, made 242' - 47 hrs. Avg. 5.1'/hr. Surveys, all Teledrift, 15,699' - 6½°, 15,730 - 6½°, 15,762 - 6½°. Drl. from 15,677-15,775, drop survey. TOH to 15,604', work tite hole to 15,586', free for 3-4', drl. up to 15,555, free 4-5', drl. to 15,518', top IBS now at 15,468' in dog leg. Pumping freely on circ. DP dragging in dog leg. Lost 120 bbls. mud in last 24 hrs.
- 9-16 TD 15,817', made 42' last 24 hrs, drlg. MW 8.9+, Vis 65, WL 11.8, Ck 2/32, PH 10.2, oil 7%, Solids 2½%, Sd tr, PV 16, YP 21, Cl 39,500, gels 6/19, pump pressure 1400, SPM 41, liner size 6½", stroke 18", WOB 47,000#, RPM 45. Pump @ 336 gal./min., avg. velocity 174, round DP 354 on collars. KCl 14,700 ppm bringing up to 26,000. Bit #66, condition 3-3-OK. Bit #67, 8½ Hughes J55R, SJ156, 1-16 & 2-18's, in at 15,775', made 42' - 7 hrs., 6 ft./hr. Survey @ 15,775' with Totco 6½°; Teledrift @ 15,793' 7°, drlg. sd. Drld. up from 15,518-15,466', pull free, TOH, change out 6 pt. reamer, reamer worn out. Change Teledrift to 5-7½°, move keyseat wiper to 340' above bit. TIH from 15,556-15,775', singled in last 20', had to be reamed dn., no other problems in the hole, drl. from 15,775-15,817. no mud loss on trips, lost approx. 50 bbls. mud while working tite hole.
- 9-17 TD 15,959', made 142'. Operation drlg. MW 8.9, Vis 66, WL 12.2, Ck 2/32, PH 10.2, oil 7%, solids 2.4%, sd tr, PV 21, YP 22, Cl 42,700, gels 8/23, pump - 1500 psi, 44 SPM, WOB 47,000, RPM 45. BHA: bit, 6 pt., teledrift sub, IBS, 1 - 30' DC, IBS, shock sub, 9 - 30' DC, keyseat wiper, 8 - 30' DC, jars, 3 - 30' DC, 5 jts. Hevi Wate DP. Bit #67 8½ Hughes, J55R, with 1-16, 2-18's, made 184' - 30½ hrs. Surveys: 15,825 - 7°, 15,856 - 7°, 15,888 - 6½°, 15,919 - 6½°, 15,950 - 6½°. lost 50 bbls. mud in 24 hrs.
- 9-18 TD 16,118', 159' last 24 hrs. Drlg. MW 8.9+, Vis 68, WL 12.8, Ck 2/32, MBT 18.6, Ph 10.5, oil 8%, solids 2.4, sd tr, PV 18, YP 19, Cl 43,500, gels 6/17, Potassium 21,000, pump pressure 1500, SPM 46, liner size 6½, strokes 18", WOB 47,000, RPM 45, BHA: same. Bit #67, 8½ Hughes J-55R, made 343' - 54 hrs. Cutting 6.3' per hr. Dev. 15,982 - 6½; 16,013 - 6½; 16,044 - 7°; 16,075 - 6½°; 16,107 - 7°.
- 9-19 TD 16,264', 146' last 24 hrs. Drlg. MW 8.9+, Vis 62, WL 12.4, Ck 2/32, MBT 16.7, PH 11.1, oil 7%, solids 2.6, Sd tr, PV 21, YP 18, Cl 44,000, gels 4/15, potassium 24,000, pump pressure 1500, SPM 45, liner size 6½, strokes 18", WOB 47,000, RPM 48, BHA: same. Bit #67 made 489' - 77½ hrs. Dev. 16,137 - 6½°; 16,169 - 7°; 16,200 - 6½°; 16,231 - 7°. Made wiper trip, had 3 tite spots, cleaned up, went back to drlg.

- 9-20 TD 16,417', 153' last 24 hrs. Drlg. MW 8.9, Vis 63, WL 12.8, Ck 2/32, MBT 16.4, PH 10.3, oil 8%, solids 2.9, sd tr, PV 18, YP 19, Cl 45,600, gels 4/14, potassium 25,500, pump pressure 1600, SPM 47, liner size 6½, stroke 18", WOB 45, RPM 45. BHA: same. Bit #67, made 642' - 96½ hrs. Cutting averaging 6.6'/hr. Dev. 16,262 - 7°; 16,293 - 7°; 16,354 - 7°; 16,385 - 7°. Made 12 stands, short trip, at 16,264 had tite spots at 15,641, 15,543, & 15,481. Drl. to 16,320, had approx. 4', drl. 3 min./ft. & 3' to drl. 2 min./ft. Circ. btms. up, Cl incr. from 41-43,000 & Ca incr. from 60-100 units. Drl. ahead, lost 75 bbls. mud in last 24 hrs.
- 9-21 TD 16,448, made 31'. Drlg. MW 8.9, Vis 65, WL 13.8, Ck 2/32, MBT 16.7, PH 10.3, oil 8%, solids 2.7%, Sd ¼, PV 20, YP 23, LCM 0, Cl 43,000, gels 8/21, K 25,000, pump 1650 psi, 47 SPM, WOB 40,000, RPM 45. BHA: bit, 6 pt., teledrift, IBS, 1 - 7" DC, IBS shock sub, 17 - 7" DC's, jars, 3 - 7" DC, keyseat wiper, crossover, 5 jts. Hevi Wate, overall length 878.42'. Bit #67, 8½, Hughes J-55R, w/2-18's & 1 - 16, made 661' - 99 hrs. Grade: T-3, B-4, G-OK. Bit #68, 8½ Hughes J55R, 2-18's, 1-16, made 12' - 1½ hr. Surveys: (Teledrift) at 16,417' - 7½°, (Totco) at 16,436 - 7½°. Circ. drlg. break at 16,436', drop Totco & POH. Changed out 3 jts. worn Grade E DP. Move keyseat wiper to top of DC. Cut & slip drlg. line, broke circ. at shoe, wash 60' to btm., back to drlg.
- 9-22 TD 16,595', made 147', Drlg. 60% shale, 25% limestone, 10% silt, 5% sand. MW 9.0, Vis 62, WL 13.6, Ck 2/32, MBT 16.1, PH 10.2, oil 7%, solids 3.1%, sd ¼, PV 22, YP 11, LCM 0, 42,000 Cl, gels 6/27, K 25,500, pump 1700 psi, 46 SPM, WOB 45,000, RPM 45, BHA: same. Bit #68 8½ Hughes J-55R, 2 - 18's, 1 - 16, made 159' - 25 hrs. Surveys: 16,469' - 7°, 16,510 - 7½°, 16,541 - 7½°, 16,572 - 7½°, all tele-drift surveys.
- 9-23 TD 16,756', made 161'. Drlg. MW 9, Vis 59, WL 12, Ck 2/32, MBT 16.1, PH 10.3, oil 7%, solids 3.1%, sd. 1/8, PV 20, YP 17, Cl 42,000, gels 6/28, K 25,000, pump 1700 psi, 45 SPM, WOB 46,000, RPM 48, BHA: same. Bit #68, made 320' - 48½ hrs. Surveys: 16,603' - 7°, 16,634' - 7½°, 16,665' - 7°, 16,727' - 7½°, all Teledrift. Have lost 60 bbls. mud in last 24 hrs.
- 9-24 TD 16,913', made 157', Drlg. MW 9, Vis 65, WL 12, Ck 2/32, MBT 16.2, PH 10.5, oil 6%, solids 3.1, sd tr, PV 16, YP 20, Cl 41,000, gels 6/25, K 24,500, pump - 1700 psi, SPM 45, WOB 35-45,000, RPM 45-50. Bit #68, made 477' - 72 hrs. Surveys: 16,727' - 7½°, 16,759' - 7½°, 16,798' - 7½°, 16,821' - 7°, 16,852' - 7°, 16,883' - 7½°, all Teledrift.

- 9-25 TD 16,962', made 0'. Checking BHA. MW 9.0, Vis 72, WL 12.2, Ck 2/32, MBT 16.1, PH 10.4, oil 6%, Sol. 3.1, Sd tr, PV 17, YP 19, Cl 42,000, gel 8/21, K 24,000, Pump: 1700 psi, 44 SPM. WOB 40-45,000, RPM 40-50, BHA: same except LD 1 jt. Hevi Wate w/ cracked pin. Bit #68, 8½" HTC J55R w/2-18, 1-16, made 526' - 79 hrs, T-5, B-eff., G-ok. Bit #69, 8½" STC F7 w/3-18, in at 16,962' - 7½°. Drld. to 16,962'. Circ. samples, pump slug & POH. Had several tite spots between 15,751' and 15,071'. Magna-flux BHA. LD 1 jt. Hevi Wate, shock sub, and 2-7" DC. Change out Teledrift & set at 6 - 8½°. Lost 125 bbls. mud last 24 hrs. Now GIH.
- 9-26 TD 17,044', made 82', Drlg. MW 9.0, Vis 73, WL 13.4, Ck 2/32, MBT 15.7, PH 10.35, oil 6%, Sol 3.6, Sd 1/8, PV 22, YP 20, Cl 33,000, gels 11/30, K 23,000, pump 1700 psi, SPM 44, WOB 40-45,000, RPM 40. BHA same. Bit #69 made 82' - 15½ hrs. Surveys: 17,005' - 6½°, 17,037' - 6½°. TIH, break circ. at 9-5/8" shoe & 15,055. FIH, wash 30' to btm. No fill. Lost 200 bbl. mud last 24 hrs.
- 9-27 TD 17,049', made 5'. Circ & cond. mud to log. MW 9.0, Vis 68, WL 12.6, Ck 2/32, MBT 15.8, PH 10.2, oil 6%, solids 3.4, Sd 1/8, PV 20, YP 15, Cl 35,000, gels 5/22, K 25,000, pump 1600 psi, SPM 44, BHA: same. Bit #69, made 87' - 18½ hrs. Torqued up, left 3 cones & bearing in hole. Bit #70, 8½" Hughes J-77, SN - 20,147, 3 - 18, in at 17,049. Circ. Drld. to 17,049', torque up, POH, left 3 cones in hole. TIH, circ. & cond. mud to log.
- 9-28 TD 17,049', made 0'. Logging. Circ, tallied out of hole for logs. RU Schlumberger, start logging at 3 PM. Strap TD 17,069.75', Geograph TD 17,049', Schlumberger TD 17,032'. Ran DLL, Neutron Density, Sonic logs.
- 9-29 TD 17,049', made 0', operation: tally in hole to run velocity log. MW 8.9, Vis 61, WL 10.4, Ck 1/32, MBT 14, PH 10.2, oil 5%, Solids 2.6%, Sd 1/8, PV 17, YP 13, Cl 35,000, gels 5/17, K 25,000, pump - 1800 psi, 34 SPM. BHA: same. Logged, ran DLL & MSFL, CNL-FDC, Sonic, & Dipmeter. Dipmeter reached 17,026', tallied in hole w/ drl. string, broke circ. @ 13,000 & 15,000', tally in hole, circ. & cond. mud. Cut drlg. line. Tallying out of hole for velocity log. Have 18" snow on location.
- 9-30 TD 17,049', made 0'. Operation: LD collars & TIH. Finished running Seismic Log. Run DC & Hevi Wate DP in hole, POH, LD, prep. to TIH. 30" snow, still heavy.
- 10-1 TD 17,049', made 0'. Operation: GIH w/bit. MW 8.9, Vis 42. Finish LD BHA. GIH open-ended. Circ. @ 13,000' and at 15,000'. TIH to 16,184', set dn. & tite hole. Circ & POH removing DP rubbers. PU bit & 2 - 7" DC. Reran bit #70. GIH to clean out prior to P&A.

- 10-2 TD 17,049', made 0', operation short trip. MW 8.9, Vis 64, WL 11.2, Ck 2/32, MBT 16.5, PH 10.2, Oil 6%, Solids 2.9, Sand- $\frac{1}{4}$, PV 18, YP 20, Chlorides 28,000, Gels 8/19, K 24,500. Pump 900 psi, 45 SPM. Bit weight 0-5,000#, RPM 45, BHA: bit, sub, 2 7" DC & crossover. Bit is rerun of #70 with no jets, run for clean out. WIH, cut drlg line, circ @ 13,000', tag tite hole and wash & ream from 16,000 to 16,553', hole was free to 16,904, washed & reamed from 16,904 to 17,049. Made 12 stand short trip, working on tite spot 40' off btm.
- 10-3 TD 17,049, made 0', operation POH. MW 8.9, Vis 61. Worked tite hole from 17,019' to 17,049, POH & LD BHA. GIH w/DP open ended. Broke circ @13,000', went into btm., circ & cond, RU Halliburton, spotted cmt plug as follows, 90 sx from 17,040 to 16,840, 90 sx from 14,670 to 14,470, and 125 sx from 13,100 to 12,900. POH.
- 10-4 TD 17,049, made 0', operation LD DP. Finished out of hole. Pump into 13-3/8 x 20" annulus with 400 psi. Pump 10 bbls mud and followed with 300 sx Howco Lite. Did not go on vacuum. Cleared lines. Over displaced $\frac{1}{2}$ bbls and SI. Perf 9-5/8" csg from 4750 to 54 with 2 holes per ft. Ran gauge ring and junk basket to 4740'. Ran & set Halliburton EZSV retainer @ 4740', Ran DP & stung into retainer. Broke circ, had circ after 20 bbls mud pumped. Mix & pump 300 sx Howco Lite. Cmt with 400 psi, circ throughout job, had no cmt returns to surface. Laid 25 sx plug on top of retainer. POH. LD DP.
- 10-5 Finish LD DP. Set 200' (85 sk.) surf. plug in 9-5/8". Well P&A 4:30 PM 10/4/82. Clean mud tanks. Start ND BOP. Now under blizzard conditions - have 6-8" snow & still snowing.
- 10-6 Finish ND BOP, rel. rig at 7 PM, 10-5-82. Now RD. Final Report.

Energy Reserves Group, Inc.
P.O. Box 3280
Casper, Wyoming 82602-3280
307 265 7331



January 24, 1983

State of Utah
National Resources & Energy
Oil, Gas & Mining
4241 State Office Building
Salt Lake City, Utah 84114

Attn: Sandy - Well Records

Dear Sandy:

As per our telecon January 23, 1983 I would like to keep information confidential on the Indianola Well No. 1 in the C, SE/4, Sec. 27-T11S-R5E, Utah Co., Utah until further notice.

Thank you.

ENERGY RESERVES GROUP, INC.

Lance R. Neiberger
District Engineer
Rocky Mountain District

LRN:er1

cc: Mike Conlon
Well File



DIVISION OF
OIL, GAS & MINING

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil well gas well other

2. NAME OF OPERATOR
Sohio Petroleum Company

3. ADDRESS OF OPERATOR
Box 30, Casper, Wyoming 82602

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: 1246' FSL & 1468 FEL
AT TOP PROD. INTERVAL:
AT TOTAL DEPTH:

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

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

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.)*

WELL HISTORY FOR MONTH OF September 1983

RECEIVED
SEP 26 1983

DIVISION OF
OIL, GAS & MINING

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

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

SIGNED W. H. Ward TITLE Dist. Manager DATE 9/23/83

(This space for Federal or State office use)

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

WELL HISTORIES

Indianola Unit #1 Page 4

9/01/83
Moving dirt on location.

9/02/83
Leveling location. Cost \$129,000.

9/03-9/06/83
Moving 4000 yds daily.

9/07/83
Moving dirt. Dirt work cost \$72,000.

9/08/83
No Report

9/09/83
Will start dbl. shift on Skyline location on Monday. Cost \$86,165.

9/10-9/12/83
No Report

9/13/83
No Report

9/14/83
D9/D8/Backhoe/2 trucks. Spent \$114,678 on dirt.

9/15/83
Total Dirt \$127,500.

9/16/83
No report.

9/17-18/83
No report.

9/19/83
Contouring nearly done. \$151,700 on
dirt. \$57,000 on wtr.

9/20/83
No report.

9/21/83
No report.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

RECEIVED
OCT 21 1983

SUNDRY NOTICES AND REPORTS ON WELLS
(Do not use this form for proposals to drill or to deepen or plug the well or to plug a reservoir. Use Form 9-331-C for such proposals.)

DIVISION OF
OIL, GAS & MINING

1. oil well gas well other

2. NAME OF OPERATOR
Sohio Petroleum Company

3. ADDRESS OF OPERATOR
Box 30, Casper, Wyoming 82602

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: 1246' FSL & 1468 FEL
AT TOP PROD. INTERVAL:
AT TOTAL DEPTH:

5. BASE NO. 113274

6. FEDERAL, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME
Indianola Unit

8. FARM OR LEASE NAME

9. WELL NO.
1

10. FIELD OR WILDCAT NAME
Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec. 27, T11S, R5E

12. COUNTY OR PARISH
Utah

13. STATE
Utah

14. API NO.

15. ELEVATIONS (SHOW DF, KDB, AND WD)
9147' GL

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

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

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

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

WELL HISTORY FOR MONTH OF October, 1983

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

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

SIGNED W. H. Ward TITLE Dist. Manager DATE October 21, 1983

(This space for Federal or State office use)

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

WELL HISTORIES

UTAH
SOHIO
Indianola Unit #1
Utah County
1246' FSL, 1468' FWL
Sec. 27, T11S, R5E
Wildcat
LSE # U-13274
AFE #60-1601, 60-1620, 60-1216
WI Varies
18,000' Mississippian
Rig: Loffland #221 Spud: 10/24/81
RR: 10/5/82
Mud: Magcobar
Elev: 9147' GL
Csg: 20" @ 1886', 13 3/8" @ 4757'
9 5/8" @ 13,019'
TD: 17,049' PBD
AFE (DHC) \$15,200,000/\$6,851,500
Est. Final Cost: \$15,949,452/\$7,160,117
Supplement #1 to AFE 60-1620
\$1,015,499/\$507,750 AFE 60-1601 &
60-1216 were under expended

7/13/83

Evaporating reserve pit. Combined volume in both pits is 40,000 bbls approximately. Second evaporator being built.

7/14/83

RU 2nd evaporator.

7/15/83

Hooked up 2nd evaporator. Ran 12 hrs and removed 4", 2,000 bbls. water.

Daily \$1100

Cum \$11,100

7/18/83

Evaporating reserves. Thursday - 2000 BW, Friday - 1500 BW, Saturday - 1500 BW, Sunday - 1500 BW.

Cum \$14,550

7/19/83

Evaporating 1750 BW. Lines & septic tanks dug up and set out.

Daily \$3,750 Cum \$18,300

7/20/83

Evaporated 1500 BW.

Daily \$1,250 Cum \$19,550

7/21/83

Evaporated 1500 BW. Total 11250.

Daily \$1,250 Cum \$37,350

7/22/83

No report.

7/23/83

Empty South Pit of water.

7/24/83

Move all equipment onto North Pit.

7/25/83

No report

7/26/83

Evap. 1200 BW. Working on back pit.

Daily \$30,644 Cum \$51,444

WELL HISTORIES

Indianola Unit #1 Page 2

7/27/83

Evap. 1500 BW. Crusher site finished.
Daily \$1,250 Cum \$53,800

7/28/83

No report.

7/29/83

Evap. - 1500-1600 BW. Have evaporated 25000.
Cum \$58,500

7/30/83

Evap. - 1700 BW.
Cum \$59,750

7/31/83 & 8/01/83

Evaporating reserve last 5 days evaporated 8250 BW.
Cum \$62,250

8/02/83

Evaporated 1500 BW 8/1/83. Total to date - 31500 BW.
Cost - \$1250 8/1/83
Evaporation Cost to 8/2/83 - \$35,000
Total Cost \$63,500

8/03/83

Evaporated 1500 BW. Total to date - 33000 bbl.
Daily \$1250
Evaporation Cum \$36,250
Total Cost \$64,750

8/04/83

Evap. 1500 bbl.
Daily \$1250
Cum Water \$37,500
Cum Total Job \$66,000

8/05/83

Evap. 1200 BW. Total 35,700 BW.
Cum \$67,300

8/06/83

Evap. 1500 BW. Total 37,200 BW.
Daily \$1300
Cum \$68,600

8/08/83

Evap. 1500 BW Saturday.
Evap. 1500 BW Sunday.
Evap. 40,200 BW Total.
Total Cost \$71,200.

8/09/83

Evap. 1500 BW.
Total \$72,500

8/10/83

Evap. 1200 BW. Total 42,900 BW
Cum \$73,800

8/11/83

Evap. 1500 bbl. Total 44,400 bbl
Cost \$45,600 water
Total \$75,100

WELL HISTORIES

Indianola Unit #1 Page 3

8/12/83

1500 bbl, 10/11/83. Total 45,900 bbl

Cost \$46,900 water

Total \$78,000

Will start spreading gravel into the reserve pit.

8/13/83

Evap. 1500 bw. Total 47,400 bbl.

Cost \$48,200 water

Total \$80,400

Started filling south end reserve pit.

8/14/83

No report

8/15/83

2 Days evap. 3000 BW. Total 50,400 BW.

Total \$84,500

8/16/83

Evap. 1200 BW. Total 51,600 BW. Filling south reserve.

Cum \$85,800

8/17/83

Evap. 1500 BW. Total 53,100 BW.

\$53,400 Water

\$87,100 Total

8/18/83

\$54,700 Water

\$100,400 Total (Picked up dirt)

8/19/83

No Report.

8/20/83, 8/21/83, 8/22/83

56,000 BW. Finished evap. wtr.

Cum \$102,400

8/23/83

MI 245 Cat Backhoe & 2 - 50T Dump Trucks. Moving Dirt.

8/24/83

Moving dirt, filling reserve pit.

8/25/83

Moved 9160 yds total. Total cost \$118,350.

8/26/83

Moved 4800 yds, 13,960 yds total. Cost \$123,850.

8/27-28-29/83

Moved 4320 yds, total 18,260. Cost \$129,350.

8/30/83

No report.

8/31/83

Terry Rooney & Bill Keith met w/Forest Service representative on 8-30-83.

Seeding was approved for present time. Main work to be done is dirt work on location & access road.

WELL HISTORIES

Indianola Unit #1 Page 4

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Moving dirt on location.

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Leveling location. Cost \$129,000.

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Moving 4000 yds daily.

9/07/83

Moving dirt. Dirt work cost \$72,000.

9/08/83

No Report

9/09/83

Will start dbl. shift on Skyline location on Monday. Cost \$86,165.

9/10/83 thru 9/13/83

No Report

9/14/83

D9/D8/Backhoe/2 trucks. Spent \$114,678 on dirt.

9/15/83

Total Dirt \$127,500.

9/16/83 thru 9/18/83

No report.

9/19/83

Contouring nearly done. \$151,700 on dirt. \$57,000 on wtr.

9/20/83 thru 9/23/83

No report.

9/24/83

Dirt Work \$214,000, Wtr \$57,000.

9/25/83 thru 10/18/83

No Report.

10/19/83

Rehab complete. Final Report