

UTAH OIL AND GAS CONSERVATION COMMISSION

REMARKS WELL LOG ELECTRIC LOGS FILE **X** WATER SANDS LOCATION INSPECTED SUB REPORT abd

DATE FILED **5-28-85**

LAND: FEE & PATENTED **X** STATE LEASE NO PUBLIC LEASE NO INDIAN

DRILLING APPROVED **6-4-85 OIL (CAUSE NO. 131-14)**

SPOUDED IN

COMPLETED PUT TO PRODUCING

INITIAL PRODUCTION

GRAVITY API

GOR

PRODUCING ZONES

TOTAL DEPTH

WELL ELEVATION

DATE ABANDONED **PA - Application Rescinded 9-15-86**

FIELD ~~BLUEBELL~~ UNDESIGNATED

UNIT

COUNTY: **DUCHESNE**

WELL NO **NELSON 25C**

**API #43-013-31106**

LOCATION **1342' FSL** FT FROM (N) (S) LINE. **1453' FWL** FT FROM (E) (W) LINE **NE SW** 1/4 - 1/4 SEC **25**

TWP	RGE	SEC	OPERATOR	TWP	RGE	SEC	OPERATOR
<b>2S</b>	<b>3W</b>	<b>25</b>	<b>SOHIO PETROLEUM CO.</b>				



SOHIO PETROLEUM COMPANY  
EXPLORATION AND PRODUCTION

P. O. BOX 30  
CASPER, WYOMING 82602

May 24, 1985  
WHW: 98  
ID: 0569C

RECEIVED

MAY 28 1985

Utah Division of Oil, Gas & Mining  
355 West North Temple  
3 Triad Center, Suite 350  
Salt Lake City, UT 84180-1203

DIVISION OF OIL  
GAS & MINING

Attn: Ron Firth

Re: Application for Permit to Drill  
Nelson 25C  
Sec. 25, T2S, R3W  
Duchesne County, Utah

Attached you will find the original and two copies of the Application for Permit to Drill the Nelson 25C well. The Designation of Operator form from Amoco Production Company will be mailed separately.

It is requested that confidentiality be maintained on this well for the maximum allowable time period on proprietary information submitted for this well. All information will be appropriately marked prior to submittal to your office.

Please contact this office if further information is needed to process this application.

Sincerely,

W.H. Ward  
District Manager

jc

cc: J.H. Walters  
T. Rooney  
File

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

SUBMIT IN DUPLICATE\*  
(Other instructions on reverse side)

**CONFIDENTIAL**

5. Lease Designation and Serial No.

Fee

**APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK**

6. If Indian, Allottee or Tribe Name

NA

1a. Type of Work

DRILL

DEEPEN

PLUG BACK

7. Unit Agreement Name

NA

b. Type of Well

Oil Well

Gas Well

Other

Single Zone

Multiple Zone

8. Farm or Lease Name

Nelson

2. Name of Operator

Sohio Petroleum Company

RECEIVED

9. Well No.

25C

3. Address of Operator

P.O. Box 30, Casper, WY 82602

MAY 28 1985

10. Field and Pool, or Wildcat

Bluebell

4. Location of Well (Report location clearly and in accordance with any State requirements.)

At surface 1453' FWL, 1342' FSL NE/4 SW/4

11. Sec., T., R., M., or Blk. and Survey or Area

Sec. 25, T2S, R3W

At proposed prod. zone Same

DIVISION OF OIL  
GAS & MINING

14. Distance in miles and direction from nearest town or post office\*

± 10 miles west of Roosevelt, Utah

12. County or Parrish 13. State

Duchesne, Utah

15. Distance from proposed\* location to nearest property or lease line, ft. (Also to nearest drig. line, if any)

Lease Line: 1187'

16. No. of acres in lease

480

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.

- -

19. Proposed depth

±12000' *Was not*

20. Rotary or cable tools

Rotary

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

5570' GR

22. Approx. date work will start\*

June 15, 1985

23.

PROPOSED CASING AND CEMENTING PROGRAM

Size of Hole	Size of Casing	Weight per Foot	Setting Depth	Quantity of Cement
12 1/4"	9-5/8"	36#	2500'	±1000 sx. (to surface)
8-3/4"	7"	29#	9500'	±500 sx. (to +/-7000')
6"	5" Liner	18#	12000'-9300'	±150 sx. (to 9300')
20" conductor casing will be set at ±60' and cemented back to surface.				

Attachments

- 1) Surveyor's Plat
- 2) Drilling Program
- 3) BOPE Diagrams (2)

The Designation of Operator from Amoco Production Company will be mailed separately.

APPROVED BY THE STATE  
OF UTAH DIVISION OF  
OIL, GAS, AND MINING  
DATE: 6/4/85  
BY: John R. Base

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 geology and measured and true vertical depths. Give blowout preventer program, if any.

24.

Signed

W. Z. Ward  
W.H. Ward

Title District Manager

Date 5/23/84

(This space for Federal or State office use)

Permit No.

43-013-31106

Approval Date

Approved by

Title

Date

Conditions of approval, if any:

O+2: Division Oil Gas and Mining

cc: J.H. Walters, T. Rooney, File

\*See Instructions On Reverse Side

TR/jc

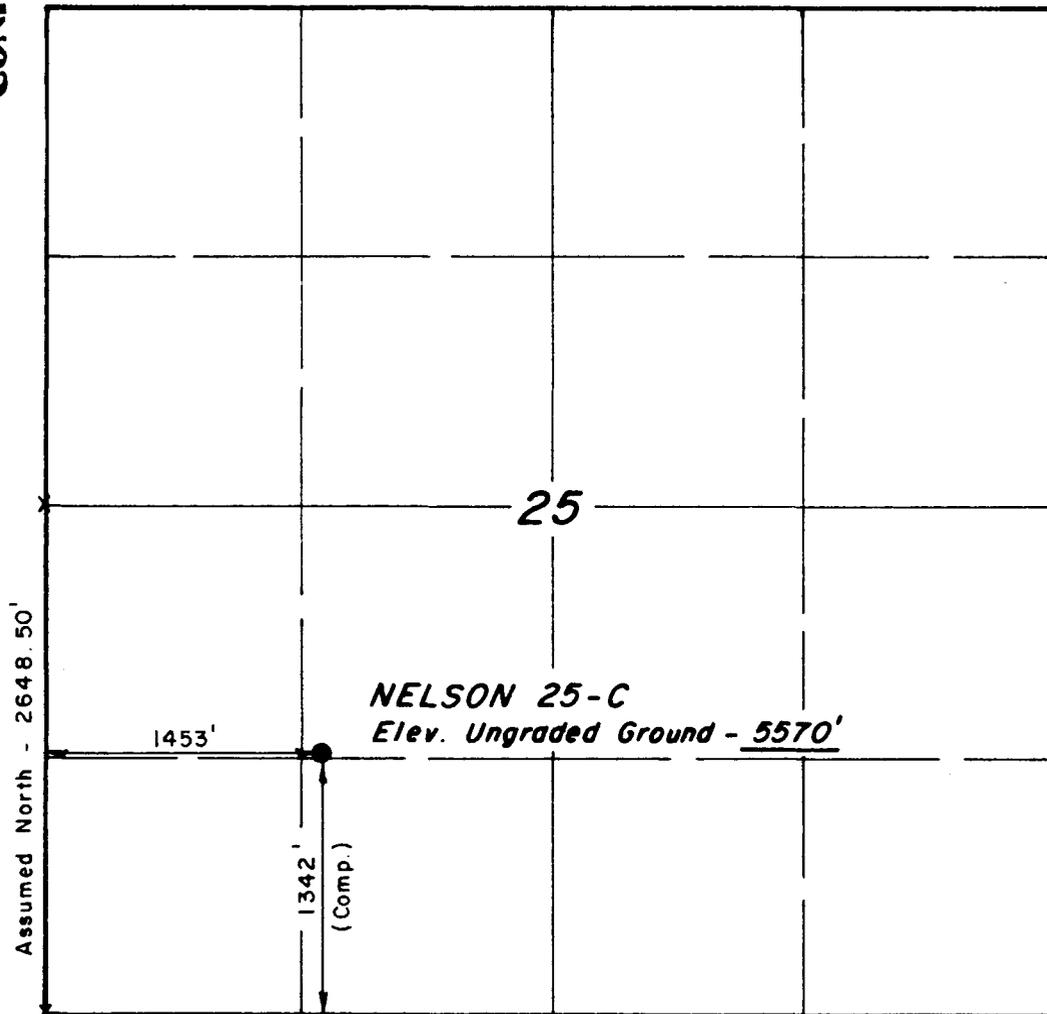
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T2S, R3W, U.S.B. & M.

PROJECT

SOHIO PETROLEUM

Well location, NELSON 25-C,  
located as shown in the NE 1/4  
SW 1/4 Section 25, T2S, R3W,  
U.S.B. & M. Duchesne County,  
Utah.



CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM  
FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY  
SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE  
BEST OF MY KNOWLEDGE AND BELIEF.

*James H. ...*  
 REGISTERED LAND SURVEYOR  
 REGISTRATION NO. 3154  
 STATE OF UTAH

ATTACHMENT 1  
SURVEYOR'S PLAT

X = Section Corners Located

UINTAH ENGINEERING & LAND SURVEYING  
P.O. BOX Q - 85 SOUTH - 200 EAST  
VERNAL, UTAH - 84078

SCALE	1" = 1000'	DATE	3/21/85
PARTY	LDT RK RP	REFERENCES	GLO Plat
WEATHER	Clear / Warm	FILE	SOHIO

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Attachment #2  
Drilling Plan  
Sohio Petroleum Company  
Nelson 25-C

1453' FWL, 1342' FSL  
Sec. 25, T2N, R3W  
Duchesne County, Utah

1) Geology: Surface, Markers and Possible Contents

Spud in Tertiary Uinta  
Middle Green River Marker - 8200'  
Wasatch - 10,360'

2) Proposed Casing Program

SF Tension 1.6/1.3  
Collapse 1.125  
Burst 1.25

<u>Hole</u>	<u>Depth</u>	<u>O.D.</u>	<u>Weight</u>	<u>Grade</u>	<u>Joint</u>	<u>New/Used</u>
12-1/4"	0-2500'	9-5/8	36#/ft.	K-55	ST&C	New
8-1/2"	0-9500'	7	29#/ft.	S-95	LT&C	New
6-1/8"	9500-12000'	5	18#	N-80	SFJP	New

Conductor Casing - 20" conductor will be set at 60' G.L.  
and cemented back to surface.

Proposed Cement Program:

Volumes and additives will change subject to conditions  
encountered during drilling operations.

Surface - (9-5/8" 0-2500') ± 600 sx. Lite + additives  
± 400 sx. Class 'H' + additives

Protection - (0-9500') Lead - 300 sx. Lite + additives  
Tail - 200 sx. Class 'H' + additives

Production - (9500-12000') ± 150 sx. Class 'H' + additives  
Liner

3) Pressure Control Equipment - See Attachments 2A and 2B  
After NU BOP's:

- 1) Ram type preventers shall be tested to 5000 W.P.
- 2) Annulus preventers shall be tested to 3000 psi.

Pipe rams shall be operated every 24 hours. The blind rams  
shall be operated after each trip.

Blowout prevention drills shall be held by each crew at  
least every week and the drills must be posted in the tour  
reports.

**CONFIDENTIAL**

3) Pressure Control Equipment - (Cont'd)

Stack will be fully tested after any use under pressure or if it is broken down at any time. Tests to the above pressure are to be conducted every 30 days.

The accumulator system will be 3000 psi working pressure with a minimum of 120 gallons with remote controls on the rig floor and manual controls at the unit.

4) Type and Characteristics of Circulating Muds:

		<u>Wt.</u>	<u>Vis.</u>	<u>W.L.</u>
0-2500'	Spud Mud	8.8-9.2	40-60	N/C
2500-9500'	Low Wgt./ Lightly Disp.	8.6-9.0	30-45	10-20
9500-12000'	Wghtd. Disp.	8.6-14.5	30-40	10±

An adequate supply of sorptive materials will be on hand in the event of unanticipated downhole problems. Weight additives will be on location as required.

5) Auxillary Equipment

Kelly cock, stabbing valve and pit level monitor from surface to total depth. A mud logger with gas detection will be on location from below surface casing setting point to total depth.

6) Testing, Coring and Logging Program:

A) Drill Stem Tests:

DST's will be run per conditions encountered while drilling the well. Potential tests are anticipated in the Wasatch and Green River.

B) Cores:

Cores will be run per conditions encountered while drilling the well. Cores are anticipated in either the Wasatch or Green River.

6) Testing, Coring and Logging Program - (Cont'd)

C) Logging

0-2500'	GR/Cal.
2500-9500'	GR/Cal./LDT/CNL/DLL
12000-9500'	DLL/MSFL
	LDT/CNL/GR/Caliper
	Sonic

D) Stimulation and completion procedures will be determined after evaluation of the drilling and testing information. Once determined, they will be submitted via a Sundry Notice for approval.

7) Anticipated Abnormal Conditions

Slightly pressured zones can be expected below intermediate casing. Weight material will be on location before drilling beneath intermediate.

8) The anticipated spud date is June 15, 1985. Drilling operations should last 51 days.

TO BE USED ON 9-5/8"  
FROM 2500' to T.D.

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ROTATING HEAD  
(OPTIONAL)

ANNULAR PREVENTER  
11" x 5000#

BLIND RAMS  
11" x 5000#

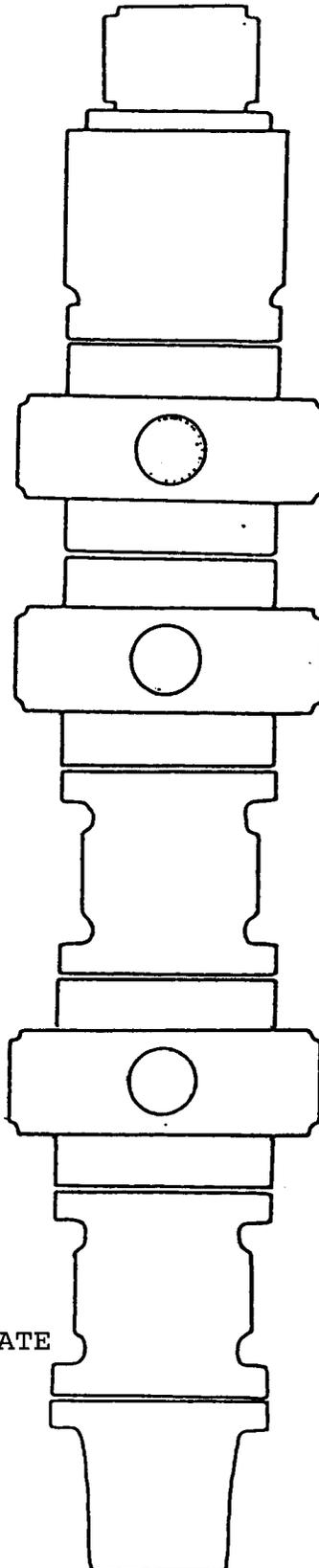
PIPE RAMS  
11" x 5000#

DRILLING SPOOL  
11" x 5000#  
w/5000# OUTLETS

PIPE RAMS  
11" x 5000#

OPTIONAL  
DRILLING SPOOL  
CASING SPOOL TO BE  
USED BELOW INTERMEDIATE

WELLHEAD



SOHIO PETROLEUM COMPANY  
NELSON 25C  
DUCHESNE COUNTY, UTAH

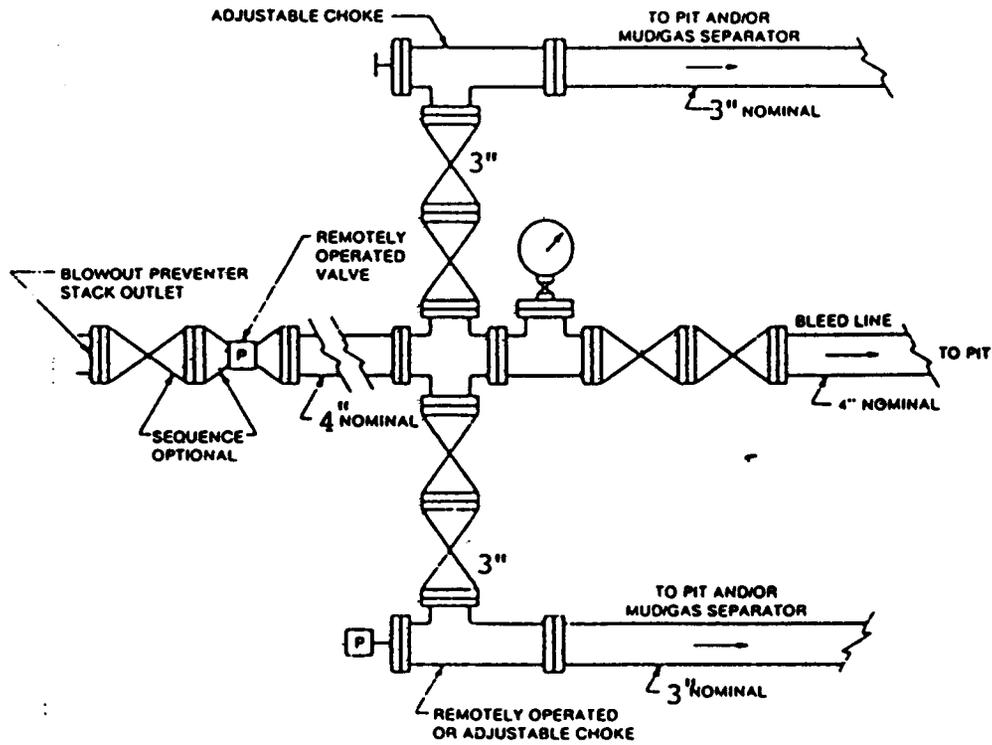
ATTACHMENT 3  
BOP DIAGRAM



SOHIO PETROLEUM COMPANY  
EXPLORATION AND PRODUCTION

P. O. BOX 30  
CASPER, WYOMING 82602

**CONFIDENTIAL**



Typical choke manifold assembly for 5M rated working pressure service

SOHIO PETROLEUM COMPANY  
NELSON 25C  
DUCHESNE COUNTY, UTAH

ATTACHMENT 3  
BOP DIAGRAM

# CONFIDENTIAL

OPERATOR Sophia Petroleum Co

DATE 5-30-85

WELL NAME Wilson 25C

SEC NE SW 25 T 25 R 3W COUNTY Duchene

43-013-31106  
API NUMBER

Free  
TYPE OF LEASE

CHECK OFF:

PLAT

BOND

NEAREST WELL

LEASE

FIELD

POTASH OR OIL SHALE

PROCESSING COMMENTS:

Original well - Sec 25

Need water permit

Designation of Operator - Amoco

APPROVAL LETTER:

SPACING:  A-3 \_\_\_\_\_ UNIT

c-3-a 131-14 8/11/71  
CAUSE NO. & DATE

c-3-b

c-3-c

STIPULATIONS:

1 - Water

2 - Designation of Operator - Amoco

3 - <sup>Reserve</sup> Pit shall be lined with a plastic liner to prevent ~~vertical~~ migration of drilling fluids from the pit.



STATE OF UTAH  
NATURAL RESOURCES  
Oil, Gas & Mining

Norman H. Bangerter, Governor  
Dee C. Hansen, Executive Director  
Dianne R. Nielson, Ph.D., Division Director

355 W. North Temple • 3 Triad Center • Suite 350 • Salt Lake City, UT 84180-1203 • 801-538-5340

June 4, 1985

Sohio Petroleum Company  
P. O. Box 30  
Casper, Wyoming 82602

Gentlemen:

Re: Well No. Nelson 25C - NE SW Sec. 25, T. 2S, R. 3W  
1342' FSL, 1453' FWL - Duchesne County, Utah

Approval to drill the above referenced oil well is hereby granted in accordance with the Order of Cause No. 131-14 dated August 11, 1971, subject to the following stipulations:

1. Prior to commencement of drilling, receipt by the Division of evidence providing assurance of an adequate and approved supply of water.
2. Receipt of a Designation of Operator from Amoco.
3. Reserve pit shall be lined with a plastic liner to prevent migration of drilling fluids from the pit.

In addition, the following actions are necessary to fully comply with this approval:

1. Spudding notification to the Division within 24 hours after drilling operations commence.
2. Submittal to the Division of completed Form OGC-8-X, Report of Water Encountered During Drilling.
3. Prompt notification to the Division should you determine that it is necessary to plug and abandon this well. Notify John R. Baza, Petroleum Engineer, (Office) (801) 538-5340, (Home) 298-7695 or R. J. Firth, Associate Director, (Home) 571-6068.
4. Compliance with the requirements and regulations of Rule C-27, Associated Gas Flaring, General Rules and Regulations, Oil and Gas Conservation.

Page 2  
Sohio Petroleum Company  
Well No. Nelson 25C  
June 4, 1985

5. This approval shall expire one (1) year after date of issuance unless substantial and continuous operation is underway or an application for an extension is made prior to the approval expiration date.

The API number assigned to this well is 43-013-31106.

Sincerely,

A handwritten signature in cursive script that reads "John R. Baza". The signature is written in dark ink and is positioned above the typed name.

John R. Baza  
Petroleum Engineer

as  
Enclosures

031103

Form 111 4-61-241

APPLICATION NO. 85-43-31

DISTRIBUTION SYSTEM

Application For Temporary Change of Point of Diversion, Place or Purpose of Use RECEIVED

STATE OF UTAH

JUL 01 1985

(To Be Filed in Duplicate)

DIVISION OF OIL GAS & MINING

Roosevelt Place

11 June 1985 Date

For the purpose of obtaining permission to temporarily change the point of diversion, place or purpose of use (Strike out written matter not needed)

of water, the right to the use of which was acquired by 17978 (43-3333) to that hereinafter described, application is hereby made to the State Engineer, based upon the following showing of facts, submitted in accordance with the requirements of the Laws of Utah.

- 1. The owner of right or application is Moon Lake Water Association
2. The name of the person making this application is Lyon R Winterton
3. The post office address of the applicant is P.O. Box 235, Roosevelt, Utah 84066

PAST USE OF WATER

- 4. The flow of water which has been used in second feet is 30 cfs
5. The quantity of water which has been used in acre feet is 3000 Ac. ft.
6. The water has been used each year from April 1 to November 1
7. The water has been stored each year from Jan 1 to Jan 1
8. The direct source of supply is Big Sand Wash in Duchesne County
9. The water has been diverted into Big Sand Wash Reservoir at a point located Sec 9, 16, 15, 21, 22 of T2S, R3W, USB & M

- 10. The water involved has been used for the following purpose: Irrigation
Total 72,000 acres

NOTE: If for irrigation, give legal subdivisions of land and total acreage which has been irrigated. If for other purposes, give place and purpose of use.

THE FOLLOWING TEMPORARY CHANGES ARE PROPOSED

- 11. The flow of water to be changed in cubic feet per second is
12. The quantity of water to be changed in acre-feet is 10
13. The water will be diverted by a PUMP at a point along Big Sand Wash approximately 1342' FSL, 1453' FWL, Section 25, T2S, R3W. A line will be laid from that point to the location about 400' to the north.
14. The change will be made from June 1 1985 to October 30 1985
15. The reasons for the change are Oil/gas exploration drilling (Schio)
16. The water involved herein has heretofore been temporarily changed years prior to this application.
17. The water involved is to be used for the following purpose: Drilling fluid associated with drilling operations

NOTE: If for irrigation, give legal subdivisions of land to be irrigated. If for other purposes, give place and purpose of proposed use.

EXPLANATORY

This water will be used to drill the Nelson 25-G well located NE/4 SW/4 Section 25, T2S, R3W, Duchesne County

A filing fee in the sum of \$7.50 is submitted herewith. I agree to pay an additional fee for either investigating or advertising this change, or both, upon the request of the State Engineer.

Signature of Applicant: Lyon R Winterton

**RULES AND REGULATIONS**

(Read Carefully)

This application blank is to be used only for temporary change of point of diversion, place or nature of use for a definitely fixed period not to exceed one year. If a permanent change is desired, request proper application blanks from the State Engineer.

Application for temporary change must be filed in duplicate, accompanied by a filing fee of \$7.50. Where the water affected is under supervision of a Water Commissioner, appointed by the State Engineer, time will be saved if the Application is filed with the Commissioner, who will promptly investigate the proposed change and forward both copies with filing fee and his report to the State Engineer. Applications filed directly with the State Engineer will be mailed to the Water Commissioner for investigation and report. If there be no Water Commissioner on the source, the Application must be filed with the State Engineer.

When the State Engineer finds that the change will not impair the rights of others he will authorize the change to be made. If he shall find, either by his own investigation or otherwise, that the change sought might impair existing rights he shall give notice to persons whose rights might be affected and shall give them opportunity to be heard before acting upon the Application. Such notice shall be given five days before the hearing either by regular mail or by one publication in a newspaper. Before making an investigation or giving notice the State Engineer will require the applicant to deposit a sum of money sufficient to pay the expenses thereof.

Address all communications to:

State Engineer  
State Capitol Building  
Salt Lake City, Utah

**STATE ENGINEER'S ENDORSEMENTS**

(Not to be filled in by applicant)

Change Application No. .... (River System)

1. .... Application received by Water Commissioner .... (Name of Commissioner)

Recommendation of Commissioner

2. 6/18/85 Application received over counter in State Engineer's Office by R.N.  
by mail

3. .... Fee for filing application \$7.50 received by .... : Rec. No. ....

4. .... Application returned, with letter, to ...., for correction.

5. .... Corrected application resubmitted over counter to State Engineer's Office.  
by mail

6. .... Fee for investigation requested \$ .....

7. .... Fee for investigation \$ ....., received by .... : Rec. No. ....

8. .... Investigation made by .... ; Recommendations: .....

9. .... Fee for giving notice requested \$ .....

10. .... Fee for giving notice \$ ....., received by .... : Rec. No. ....

11. .... Application approved for advertising by publication by .....

12. .... Notice published in .....

13. .... Notice of pending change application mailed to interested parties by ..... as follows:

14. .... Change application protested by ..... (Date Received and Name)

15. .... Hearing set for ....., at .....

16. .... Application recommended for rejection approval by .....

17. 6/19/85 Change Application rejected approved and returned to CBW

**THIS APPLICATION IS APPROVED SUBJECT TO THE FOLLOWING CONDITIONS:**

- 1. ....
- 2. ....
- 3. ....

G. Blake Webb For  
Robert L. Morgan P.E. State Engineer



STATE OF UTAH  
NATURAL RESOURCES  
Water Rights

Norman H. Bangerter, Governor  
Dee C. Hansen, Executive Director  
Robert L. Morgan, State Engineer

Eastern Area • State/County Building • 152 E. 100 North • Vernal, UT 84078-2110 • 801-789-3714

February 24, 1986

RECEIVED  
FEB 26 1986

DIVISION OF  
OIL, GAS & MINING

Duane Hall Trucking  
241 North 850 West  
Vernal, Utah 84078

RE: Temporary Change 86-43-2

Gentlemen:

The above numbered Temporary Change Application has been approved subject to prior rights.

A copy is herewith returned to you for your records and future reference.

Sincerely yours,

Allen K. Nielsen  
for Robert L. Morgan, P. E.  
State Engineer

RLM:AKN/1n

Enclosure



STATE OF UTAH  
NATURAL RESOURCES  
Oil, Gas & Mining

Norman H. Bangerter, Governor  
Dee C. Hansen, Executive Director  
Dianne R. Nielson, Ph.D., Division Director

355 W. North Temple • 3 Triad Center • Suite 350 • Salt Lake City, UT 84180-1203 • 801-538-5340

091703

September 15, 1986

Sohio Petroleum Company  
P.O. Box 30  
Casper, Wyoming 82602

Gentlemen:

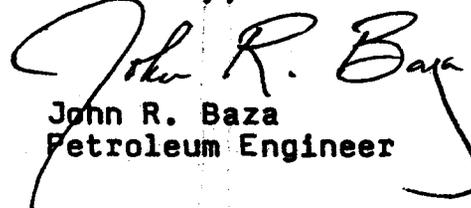
RE: Well No. Nelson 25C, Sec.25, T.2S, R.3W, Duchesne County, Utah,  
API NO. 43-013-31106

861015  
Due to excessive time delay in commencing drilling operations, approval to drill the subject well is hereby rescinded, effective one calendar month from the date of this notice.

If it is your intent to proceed with operations on the well, you must submit a request for extension of the approval to drill within the one month grace period. After the grace period, a new Application for Permit to Drill must be filed with this office for approval, prior to future drilling of the subject location.

If any previously unreported operations have been performed on this well location, it is imperative that you notify the Division of Oil, Gas and Mining immediately.

Sincerely,

  
John R. Baza  
Petroleum Engineer

sb  
cc: BLM-Vernal  
D. R. Nielson  
R. J. Firth  
Well file  
0278T-120