

FILE NOTATIONS

Entered in NID File

Entered On S R Sheet

Location Map Pinned

Card Indexed

I W R for State or Fee Land

Checked by Chief *PMB*

Copy NID to Field Office

Approval Letter

Disapproval Letter

COMPLETION DATA:

Date Well Completed *8-16-64*

OW..... WW..... TA.....

GW..... OS..... PA

Location Inspected

Bond released

State of Fee Land

LOGS FILED

Driller's Log *9-8-64*

Electric Logs (No.) *2*

E..... I..... E-I..... GR..... GR-N..... Micro.....

Lat..... Mi-L..... Sonic *gr*..... Others.....

Sub report of Abandonment

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
 J. Gregory Merrion & Weldon C. Julander

3. ADDRESS OF OPERATOR
 P. O. Box 507, Farmington, New Mexico

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*)
 At surface 650' FNL and 820' FEL ✓
 At proposed prod. zone Same NW NE NE ✓

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
 15 mi. north of New Red Mesa Trading Post, Arizona

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drig. unit line, if any)
 4460 (650)

16. NO. OF ACRES IN LEASE
 2560

17. NO. OF ACRES ASSIGNED TO THIS WELL
 80

18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.
 1765

19. PROPOSED DEPTH
 4900' ✓

20. ROTARY OR CABLE TOOLS
 Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
 5084' G.L.

22. APPROX. DATE WORK WILL START*
 8-1-64

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12-1/4	8-5/8"	24#	300	250
7-7/8	5-1/2"	15.5#	4900	200

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24. SIGNED J. Gregory Merrion TITLE Operator DATE 7-22-64
 (This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

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

Weldon C. Julander
COMPANY J. GREGORY MERRION & ASSOCIATES

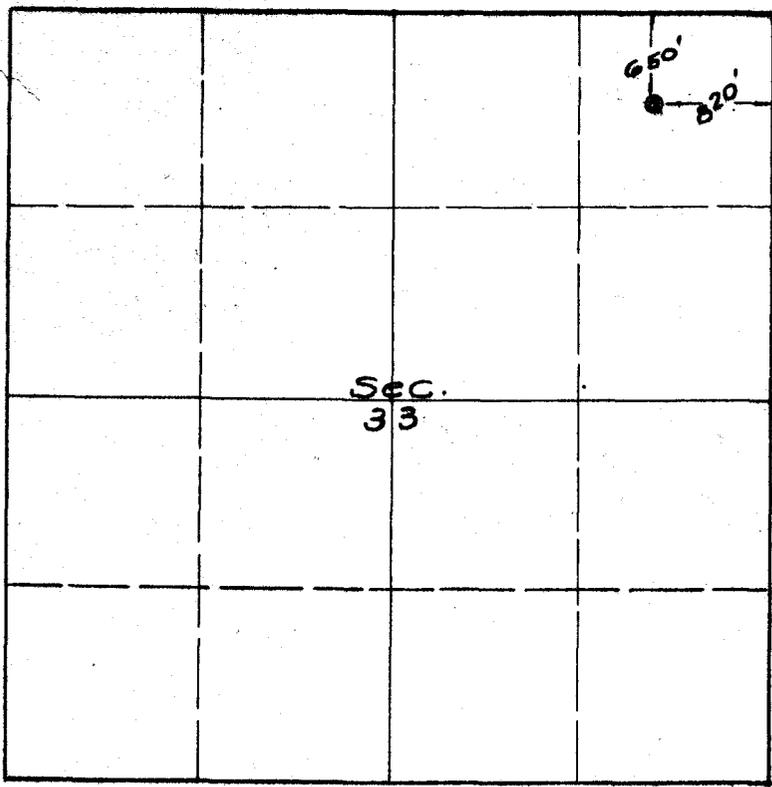
Well Name & No. NORTH BOUNDARY BUTTE No. 2 Lease No. _____

Location 650 FEET FROM THE NORTH LINE AND 820 FEET FROM THE EAST LINE.

Being in NE 1/4

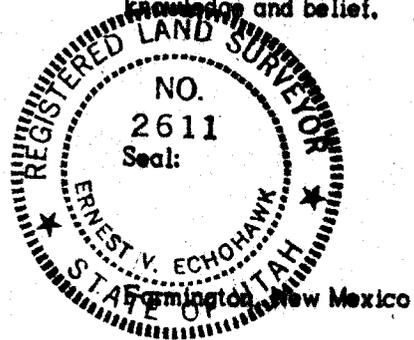
Sec. 33, T42 S., R22 E., ~~SE 1/4~~, SALT LAKE MERIDIAN, SAN JUAN COUNTY, UTAH.

Ground Elevation 5084



Surveyed JULY 20, 1964

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.



Ernest V. Echohawk

Ernest V. Echohawk
Registered Land Surveyor
N. M. Reg. #1545
UTAH REG. No. 2611

July 27, 1964

Mr. J. Gregory Harrison & Mr. Weldon C. Julander
P. O. Box 507
Farmington, New Mexico

Re: Notice of Intention to Drill Well No.
NORTH BOUNDARY BUTTE #2, 650' ENL & 820'
ENL, NW NE NE of Section 33, T. 42 S.,
R. 22 E., SLEM, San Juan County, Utah.

Gentlemen:

Insofar as this office is concerned, approval to drill said well is hereby granted. However, this approval is conditional upon a Designation of Agent being filed with this Commission in accordance with Rule A-4, General Rules and Regulations and Rules of Practice and Procedure, Utah State Oil and Gas Conservation Commission.

As soon as you have determined that it will be necessary to plug and abandon the above mentioned well, you are hereby requested to immediately notify the following:

PAUL W. BIRCHELL, Chief Petroleum Engineer
Office: DA 8-5771 or DA 8-5772
Home: CR 7-2890 - Salt Lake City, Utah

This approval terminates within 90 days if this well has not been spudded within said period.

Enclosed please find Form OGCC-8-X, which is to be completed if water sands (aquifers) are encountered while drilling, particularly assessable near surface water sands. Your cooperation with respect to completing this form will be greatly appreciated.

Yours very truly,

OIL & GAS CONSERVATION COMMISSION

GLENN B. FRIGHT
EXECUTIVE DIRECTOR

GBF:kgw

cc: P. T. McGrath, Dist. Eng., U. S. Geological Survey, Farmington, New Mexico
H. L. Coonts, Pet. Eng., Oil & Gas Conservation Commission, Moab, Utah

PLUGGING PROGRAM FORM

Name of Company J. Gregory Marston, Ltd Verbal Approval Given To: Mr. Marston

Well Name: North Boundary Pute #2 Sec. 33 T. 42S R. 29E County: San Juan

Verbal Approval was given to plug the above mentioned well in the following manner:

T.D. is at 4856 ft in the lower Ismay which the operator is presently DST.

Following are Electric Log tops:

Spudded in Navajo - surface Coring set at 2670' in Haystack.

Chinle (top not picked) → logs show no porosity

Lheronamp @ 1460 → logs show no porosity

De Chelly @ 1790

Hermosa @ 3865

Paradox sh @ 4710

Upper Ismay @ 4730

Lower Ismay @ 4780

The following plugs were recommended:

- 1) 4700 ft to T.D.
- 2) 3900 to 3900 (across top of Hermosa)
- 3) 1750 to 1850 (across DeChelly - 50 ft thick)
- 4) 100 ft $\frac{1}{2}$ in and $\frac{1}{2}$ out of surface Coring
- 5) Plug at surface with marker.

Note: Operator did not have U.S.G.S approval and Mr. Marston was checking over logs. - I informed Mr. Marston to follow U.S.G.S program but the

Date Verbally Approved: Aug 15, 1964 Signed: Paul W. Burchell
above would be minimum requirements.

H.

STATE OF UTAH
 OIL & GAS CONSERVATION COMMISSION
 310 NEWHOUSE BUILDING
 SALT LAKE CITY 11, UTAH

REPORT OF WATER ENCOUNTERED DURING DRILLING

Well Name & Number: J. Gregory Merrion and Weldon C. Julander, N. Boundary Butte #2

Operator J. Gregory Merrion P.O.Box 507
 Address Farmington, N.M. Phone 325-0151

Contractor Loffland Bros. Co. P.O.Box 688
 Address Farmington, N.M. Phone 325-5001

Location: NE 1/4 NE 1/4 Sec. 33 T. 42 ^{KK} R. 22 ^E
S KK San Juan County, Utah.

Water Sands:

<u>Depth</u>		<u>Volume</u>	<u>Quality</u>
<u>From</u>	<u>To</u>	<u>Flow Rate or Head</u>	<u>Fresh or Salty</u>
1.	_____	_____	_____
2.	_____	_____	_____
3.	_____	_____	_____
4.	_____	_____	_____
5.	_____	_____	_____

(Continued on reverse side if necessary)

Formation Tops:

Wingate 298' KB, 285' GL

Remarks:

There is a water well from Wingate on the lease. Water sand on electric log from 298' KB to 565' KB. In accordance with USGS directions, top of last cement plug was placed at 881' KB (69' above top of Chinle). Plate is welded on top of surface casing.

NOTE: (a) Upon diminishing supply of forms, please inform the Commission
 (b) Report on this form as provided for in Rule C-20, General Rules and Regulations and Rules of Practice and Procedure. (See back of form)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE*

(See other instructions on reverse side)

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

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

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

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

2. NAME OF OPERATOR
J. Gregory Merrion and Weldon C. Julander

3. ADDRESS OF OPERATOR
P. O. Box 507, Farmington, New Mexico

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*
At surface **650' FNL & 820' FEL, Section 33, T-42-S, R-22-E**
At top prod. interval reported below **San Juan County, Utah**
At total depth **Same**

5. LEASE DESIGNATION AND SERIAL NO.
14-20-603-236

6. IF INDIAN, ALLOTTEE OR TRIBE NAME
Navajo Tribal

7. UNIT AGREEMENT NAME
None

8. FARM OR LEASE NAME
North Boundary Butte

9. WELL NO.
2

10. FIELD AND POOL, OR WILDCAT
Akah-N. Boundary Butte

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA
33-42S-22E-6.L.M.

12. COUNTY OR PARISH
San Juan

13. STATE
Utah

14. PERMIT NO. _____ DATE ISSUED **7-2-64**

15. DATE SPUNDED **7-31-64** 16. DATE T.D. REACHED **8-15-64** 17. DATE COMPL. (Ready to prod.) **8-16-64** 18. ELEVATIONS (DF, RKB, RT, GR, ETC.)* **5097 KB, 5084 GL** 19. ELEV. CASINGHEAD **5082**

20. TOTAL DEPTH, MD & TVD **5084** 21. PLUG, BACK T.D., MD & TVD **None** 22. IF MULTIPLE COMPL., HOW MANY? **None** 23. INTERVALS DRILLED BY **5084** ROTARY TOOLS _____ CABLE TOOLS _____

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*
None

25. WAS DIRECTIONAL SURVEY MADE
No

26. TYPE ELECTRIC AND OTHER LOGS RUN
ES, OR-Sonic - Caliper

27. WAS WELL CORED
No

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

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
8-5/8"	24	267'	12-1/4"	225 sax	None

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)
	None			

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)
	None	

31. PERFORATION RECORD (Interval, size and number)
None

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
	None

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	CHOKES SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO

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

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) _____ TEST WITNESSED BY _____

35. LIST OF ATTACHMENTS _____

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

SIGNED Gregory Merrion TITLE Operator DATE 9-1-64

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

INSTRUCTIONS

General: This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office. See instructions on items 22 and 24, and 33, below regarding separate reports for separate completions.

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

Item 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

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

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

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

37. SUMMARY OF POROUS ZONES: SHOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS THEREOF; CORED INTERVALS; AND ALL DRILL-STEM TESTS, INCLUDING DEPTH INTERVAL TESTED, CUSHION USED, TIME TOOL OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES		38. GEOLOGIC MARKERS		
FORMATION	TOP	DESCRIPTION, CONTENTS, ETC.	NAME	
	BOTTOM		MEAS. DEPTH	
			TOP	
			TRUE VERT. DEPTH	
Bluff (Lower Ismay)	4790	Sulfur Water	Wingate Chinle Shinarump Moenkopi Permian Cutler Hermosa Paradox Shale Ismay - Upper Lower	Same " " " " " " " "
	4856		298 950 1462 1652 1798 1835 3863 4716 4730 4790	

SEP 8 1964

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT INSTRUCTIONS ON REVERSE SIDE

Form approved.
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

14-20-603-236

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

Navajo Tribal

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)

7. UNIT AGREEMENT NAME

None

8. FARM OR LEASE NAME

North Boundary Butte

9. WELL NO.

2

10. FIELD AND POOL, OR WILDCAT

Akai

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

33-42S-22E, S.L.M.

12. COUNTY OR PARISH

San Juan

13. STATE

Utah

1. OIL WELL GAS WELL OTHER Dry Hole

2. NAME OF OPERATOR

J. Gregory Merrion and Weldon C. Julander

3. ADDRESS OF OPERATOR

P. O. Box 507, Farmington, New Mexico

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

At surface

650' FWL & 820' FEL, Section 33, T-42-S, R-22-E
SLM, San Juan County, Utah

14. PERMIT NO.

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

5084 GL

5097 KB

12. COUNTY OR PARISH

San Juan

13. STATE

Utah

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

NOTICE OF INTENTION TO :

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

(Other)

PULL OR ALTER CASING

MULTIPLE COMPLETE

ABANDON*

CHANGE PLANS

SUBSEQUENT REPORT OF :

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other)

REPAIRING WELL

ALTERING CASING

ABANDONMENT*

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

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

DST 4756 - 4856, initial shut in 15 minutes, tool open one hour, strong blow immediately. Gas to surface in 35 minutes at estimated rate of 25 MCF/da. Final shut in 30 min. Recovered 90' GCM, 90' G & WCM, 90' G & MCW and 3130' sulfur water.

IHP 2253; ISIP 1513; IFP 1135; FFP 1507; PSIP 1507; PHP 2252

Plugged and abandoned well by placing 60 sax cement 4856 - 4678, 45 sax cement from 3900 - 3781 and 45 sax from 1000 to 881. Welded plate in top of surface casing with 3" marker. Well plugged and abandoned 8-16-64.

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

SIGNED

Gregory Merrion

TITLE

Operator

DATE

9-1-64

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

J. GREGORY MERRION
PETROLEUM ENGINEER
P. O. BOX 507
FARMINGTON, NEW MEXICO 87401

September 2, 1964

Oil & Gas Conservation Commission
310 Newhouse Building
Salt Lake City, Utah 84111

Attention: Mr. Paul W. Burchell ✓
Chief Engineer

Gentlemen:

Attached please find Federal forms on our North Boundary Butte #2 well, San Juan County, Utah. In addition, we have completed your Form OGCC-8-X covering the Wingate water sand.

Regarding plugging of this well, your plugging instructions were slightly modified by the U.S.G.S. who instructed us to place a 100 foot plug at the top of the Chinle rather than across the De Chelly, and eliminate the plug at the bottom of the surface pipe because of the possibility of later making a water well from the Wingate. ✓

In accordance with our conversation, I assume that this modification will be acceptable to you. ✓

Yours very truly,

J. Gregory Merrion and Weldon C. Julander

By: J. Gregory Merrion
J. Gregory Merrion

JGM:ah

Encl.

September 11, 1964

J. Gregory Merriem & Weldon C. Julander
P. O. Box 507
Farmington, New Mexico

Re: Well No. North Boundary Butte #2
Sec. 33, T. 42 S., R. 22 E.,
San Juan County, Utah

Gentlemen:

This letter is to advise you that the electric and/or
radioactivity logs for the above mentioned well are due
and have not been filed with this Commission.

Thank you for your cooperation in this request.

Very truly yours,

OIL & GAS CONSERVATION COMMISSION

KATHY G. WARNER
RECORDS CLERK

KGW:enp

J. GREGORY MERRION
PETROLEUM ENGINEER
P. O. BOX 507
FARMINGTON, NEW MEXICO 87401

September 17, 1964

Released by Top Mark 19, 1965

The State of Utah
Oil & Gas Conservation Commission
348 East South Temple
Salt Lake City, Utah

Gentlemen:

We would appreciate your keeping information on the enclosed logs confidential until otherwise advised.

Thank you.

Yours very truly,

J. Gregory Merrion
J. Gregory Merrion

JGM:ah

Encl.

9-16-64