

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
 WILLIAM W. WHITLEY

3. ADDRESS OF OPERATOR
 1600 Broadway, Suite 1705, Denver, Colorado 80202

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)*
 At surface 1330' PSL, 560' FEL SE/4 NE/4 SE/4
 At proposed prod. zone same

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
 10.0 miles SE of Bluff, Utah

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any) 560'

16. NO. OF ACRES IN LEASE 120

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.

19. PROPOSED DEPTH 5600'

20. ROTARY OR CABLE TOOLS Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.) 4426' G.L., 4438' K.B.

22. APPROX. DATE WORK WILL START* June 1, 1981

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
17 1/2"	13-3/8"	48	80'	100 sx <i>circ to surf.</i>
12 1/2"	8-5/8"	24	1200'	600 sx "
7-7/8"	5 1/2" or	14.5 or	5600'	150 sx
	4 1/2"	10.5	5600'	200 sx

1. Drill 17 1/2" diameter hole to 80' and cement conductor pipe.
2. Drill 12 1/2" diameter hole to 1200' and cement to surface to shut off Navajo sand water.
3. Drill 7-7/8" diameter hole through Desert Creek formation.
4. Test all significant oil and gas shows with drill stem tests.
5. Run Dual Induction SFL electric log, and GR Neutron-Density porosity open hole log.
6. Run 4 1/2" or 5 1/2" production casing and production test well if hydrocarbon shows warrant.

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

24. SIGNED Robert W. Peterson TITLE Petroleum Engineer DATE May 6, 1981

(This space for Federal or State office use)

PERMIT NO. 43-037-30676 APPROVAL DATE _____

APPROVED BY _____ TITLE _____ DATE _____

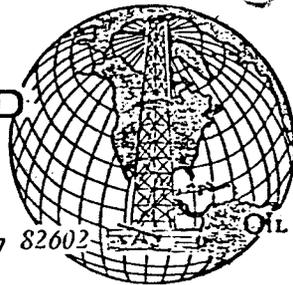
APPROVED BY THE DIVISION OF OIL, GAS, AND MINING

DATE: 5-26-81 *See Instructions On Reverse Side

BY: M. J. Minder

5. LEASE DESIGNATION AND SERIAL NO. ML-035887
 6. IF INDIAN, ALLOTTEE OR TRIBE NAME _____
 7. UNIT AGREEMENT NAME _____
 8. FARM OR LEASE NAME _____
 9. WELL NO. State 1-23
 10. FIELD AND POOL, OR WILDCAT Turner Bluff
 11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Section 23-40S-22E
 12. COUNTY OR PARISH San Juan 13. STATE Utah

WILLIAM C. KIRKWOOD



Suite 300 Market Square Building — 307/265-5178

P. O. Drawer 3439 — Casper, Wyoming 82602

OIL & GAS EXPLORATION & PRODUCTION

May 8, 1981

Mr. Michael Minder
Division of Oil, Gas & Mining
1588 West North Temple
Salt Lake City, UT 84116

Re: #1-23 State Well
NESE Section 26-40S-22E
(1330' FSL, S60' FEL)
San Juan County, Utah

Gentlemen:

This is to advise that William C. Kirkwood has no objection to William W. Whitley's off pattern location as captioned.

Yours very truly ,

WILLIAM C KIRKWOOD

Stanley H. Spalding

paz

DESIGNATION OF OPERATOR

The undersigned is, on the records of the Department of Natural Resources, Division of State Lands, holder of lease, ML 035887 :

and hereby designates

NAME: William W. Whitley
ADDRESS: 1600 Broadway, Suite 1705
Denver, Colorado 80202

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

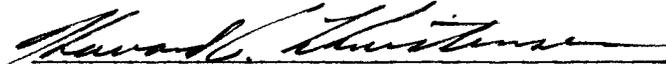
Township 40 South, Range 22 East, SLM
Section 23: N/2 SE/4; SE/4 SE/4

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

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

The lessee agrees promptly to notify the Division of State Lands of any change in the designated operator.

NORD-MONTARA PETROLEUM COMPANY (previously
known as Montara Petroleum Company)


(Signature of Lessee)

Howard T. Christensen, Secretary
Two Greenspoint Plaza, Suite 500
16825 North Chase Drive

(Address)
Houston, Texas 77060

May 12, 1981
(Date)



william w. whitley
1705 colorado state bank building
1600 broadway
denver · colorado · 80202
phone (303) 861·2469

May 14, 1981

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

ATTN: Mr. Michael T. Minder

Re: #1-23 State
Utah State Lease No. ML-035887
1330' FSL, 560' FEL
SE NE SE Section 23-40S-22E
San Juan County, Utah

Dear Mr. Minder:

Enclosed you will find in duplicate:

1. Application for Permit to Drill the above referenced well.
2. Plat
3. Copy of a letter from William C. Kirkwood stating he has no objection to the well being located 560' from his lease line. (You probably already have a copy of this in your files.)
4. Designation of Operator from Nord-Montara Petroleum Company to William W. Whitley.

If there is anything further you require, please let us know.

Very truly yours,

Sally Scheiman
Sally Scheiman

/ss
Enclosures

RECEIVED

MAY 15 1981

DIVISION OF
OIL, GAS & MINING



william w. whitley
1705 colorado state bank building
1600 broadway
denver · colorado · 80202
phone (303) 861-2469

May 15, 1981

RECEIVED
MAY 18 1981

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

DIVISION OF
OIL, GAS & MINING

Attn: Mr. Michael Minder

Re: 1-23 State well
TURNER BLUFF
SE NE SE Section 23-T40S-R22E
San Juan County, Utah
Lease ML-035887

Dear Mr. Minder:

We propose to drill the 1-23 State well at an off-pattern location (1330' FSL, 560' FEL Section 23, T40S-R22E). The only firm owning an offset lease that would be affected by this off-pattern location is Kirkwood Oil & Gas. Mr. Kirkwood, by letter of May 8, 1981 has waived any objection to that location. My partners and I own or control all other oil and gas leases surrounding the proposed location.

Yours very truly,

William W. Whitley

WWW:ss

RECEIVED
MAY 18 1981

DIVISION OF
OIL, GAS & MINING

5/22/81 (call S. Scheiman)
No reason given nor radius of 660'
ownership!

** FILE NOTATIONS **

DATE: 5/22/81

OPERATOR: Wm. W. Whitley

WELL NO: STATE 1-23

Location: Sec. 23 T. 40s R. 22E County: SAN JUAN

File Prepared:

Entered on N.I.D:

Card Indexed:

Completion Sheet:

API Number 43-037-30676

CHECKED BY:

Petroleum Engineer: M. J. Munder 5-22-81 given verbal approval to commence, conditioned on a letter requesting topo exception and 660' clearance.

Director: _____

Administrative Aide: _____

APPROVAL LETTER:

Bond Required:

Survey Plat Required:

Order No. 185-2 1/23/80

O.K. Rule C-3

Rule C-3(c), Topographic Exception - company owns or controls acreage within a 660' radius of proposed site

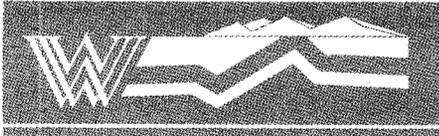
Lease Designation

Plotted on Map

Approval Letter Written

Hot Line

P.I.



M
william w. whitley
1705 colorado state bank building
1600 broadway
denver · colorado · 80202
phone (303) 861-2469

May 22, 1981

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

Attn: Mr. Michael T. Minder

*Mike -
Approved 5/23/81*

Re: Proposed Exception Well Location
#1-23 State well
Utah State Lease ML-035887
1330' FSL, 560' FEL
SE NE SE Section 23-T40S-R22E
San Juan County, Utah

Dear Mr. Minder:

As stated in my letter of February 25, 1981, it was my intention to drill the proposed well at a location 1450' FSL, 500' FEL Section 23-T40S-R22E. Due to topographic obstacles, however, it was necessary to stake the well 1330' FSL and 560' FEL, Section 23-T40S-R22E.

With the exception of the oil and gas lease owned by William C. Kirkwood in SW/4 Section 24-T40S-R22E, I own all oil and gas leases within a radius of 660' from proposed well location.

Please let me know if you have any additional questions regarding the well's location.

Very truly yours,

William W. Whitley
William W. Whitley

WWW:ss

RECEIVED

MAY 26 1981

DIVISION OF
OIL, GAS & MINING

June 3, 1981

William W. Whitley
1600 Broadway, Suite 1705
Denver, Colorado 80202

Re: Well No. State 1-23
Sec. 23, T. 40S, R.222E, NE SE
San Juan County, Utah

Insofar as this office concerned, approval to drill the above referred to oil well on said unorthodox location is hereby granted in accordance with Rule C-3(c), General Rules and Regulations and Rules of Practice and Procedure. However, this Division requires that a letter be sent to this office stating that Your company owns or controls the acreage within a 660' radius of the proposed well site, and a written statement as to the necessity of unorthodox location.

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 43-037-30676.

Sincerely,

DIVISION OF OIL, GAS, AND MINING


Michael T. Minder
Petroleum Engineer

MTM/ko

FILE IN TRIPLICATE
FORM OGC-8-X

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING
1588 West North Temple
Salt Lake City, Utah 84116

REPORT OF WATER ENCOUNTERED DURING DRILLING

Well Name & Number #1-23 State
Operator William W. Whitley Address 1600 Broadway, Suite 1705
Contractor Bayless Drilling Co. Address 216 S. Hill, Farmington, NM
Location NE 1/4 SE 1/4 Sec. 23 T. 40S R. 22E County San Juan

Water Sands

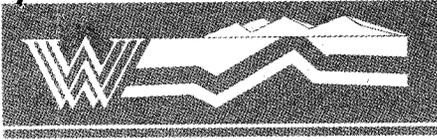
	Depth		Volume	Quality
	From	To	Flow Rate or Head	Fresh or Salty
1.	604'	1150'	8" stream	Fresh
2.				
3.				
4.				
5.				

(Continue on reverse side if necessary)

Formation Tops

Remarks

- NOTE: (a) Report on this form as provided for in Rule C-20, General Rules and Regulations and Rules of Practice and Procedure.
(b) If a water analysis has been made of the above reported zone, please forward a copy along with this form.



william w. whitley
1705 colorado state bank building
1600 broadway
denver · colorado · 80202
phone (303) 861-2469

June 9, 1981

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

ATTN: Mr. Michael T. Minder

Re: #1-23 State well
TURNER BLUFF
Section 23-T40S-R22E
San Juan County, Utah
Utah State Lease ML-035887

Dear Mr. Minder:

Enclosed you will find:

1. 3 copies of the Well Completion or Recompletion Report and Log
2. 3 copies of the Report of Water Encountered During Drilling
3. 1 set of field prints; the final prints should have been forwarded directly to you by Schlumberger, or will be soon.

The Well Completion Report lacks the Permit Number. Oral permission was received to commence the well and to plug and abandon the well, both before written permission has been received in our office!

If you need further information for your records, we will be happy to try to furnish it.

Very truly yours,

Sally Scheiman

/ss
Enclosures

DIVISION OF
OIL, GAS & MINING

STATE OF UTAH
OIL & GAS CONSERVATION COMMISSION

SUBMIT IN DUPLICATE*

(See other instructions on reverse side)

5. LEASE DESIGNATION AND SERIAL NO.
ML-035887

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

State

9. WELL NO.

#1-23

10. FIELD AND POOL, OR WILDCAT

Turner Bluff

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

Sec. 23-T40S=R22E

12. COUNTY OR PARISH

San Juan

13. STATE

Utah

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

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

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

2. NAME OF OPERATOR
William W. Whitley

3. ADDRESS OF OPERATOR
1600 Broadway, Suite 1705, Denver, CO 80202

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*
At surface 1330' FSL, 560' FEL
At top prod. interval reported below
At total depth same

14. PERMIT NO. DATE ISSUED
43-037-30674 5-26-81

15. DATE SPUDDED 5-23-81
16. DATE T.D. REACHED 6-5-81
17. DATE COMPL. (Ready to prod.) P & A 6/7/81
18. ELEVATIONS (DF, RKB, RT, OR, ETC.)* 4426' GL, 4438' KB
19. ELEV. CASINGHEAD

20. TOTAL DEPTH, MD & TVD 5576' DTD
21. PLUG, BACK T.D., MD & TVD
22. IF MULTIPLE COMPL., HOW MANY*
23. INTERVALS DRILLED BY Rotary
ROTARY TOOLS CABLE TOOLS

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*
None
25. WAS DIRECTIONAL SURVEY MADE
yes

26. TYPE ELECTRIC AND OTHER LOGS RUN
Dual Induction-SFL and Simultaneous Compensated Neutron-Density
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
13-3/8"	48#		17 1/2"	100 sx	
8-5/8"	24#	1192' KB	12 1/4"	50 sx thickset w/2% CaCl ₂ 500 sx Howco Lite w/3% " 10#/sk Gilsonite, 1/2#/sk Floseal, 150 sx Class B w/3% CaCl ₂ & 6# TUBING RECORD Calseal/sk.	

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)

31. PERFORATION RECORD (Interval, size and number)

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED

33.* PRODUCTION

DATE FIRST PRODUCTION		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

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

SIGNED W.W. Whitley TITLE Operator DATE 6/9/81

*(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.), formations 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 19: Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments. **Items 22 and 24:** If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

Item 29: "Sacks Cement": Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool. **Item 33:** Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.)

37. SUMMARY OF POROUS ZONES:

SHOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS THEREOF; CORED INTERVALS; AND ALL DRILL-STEM TESTS, INCLUDING DEPTH INTERVAL TESTED, CUSHION USED, TIME TOOL OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES

FORMATION	TOP		BOTTOM	DESCRIPTION, CONTENTS, ETC.	GEOLOGIC MARKERS	
	DEPTH	MEAS.			NAME	MEAS. DEPTH
DST #1 Lower Ismay	5360'		5485'	IF (15 min) - Opened w/weak blow, 2" water displacement, NGTS. ISI (60 min) - FO 90 min. Opened w/fair blow, 6" water displacement, steady thruout. FSI 180 min. Recovered 310' SO&GCM. Rec. fr. sample chamber: 1300 WCO, 800 cc O&GCM, 110 psig, .2 cu ft gas. ISI 1972, FSI 2026, IF 27-27, FF 54-108, IHP & FHP 2514, BHT 138° F. Res fluids in sample chamber: .256 @ 73° F, 14,848 CL...Retorted 94% water, 2% oil, 4% solids	Chinle Shinarump Moenkopi Cutler Hermosa Upper Ismay	1292' 2046' 2200' 2346' 4310' 5232'
	5487'		5586'	IF 60 min - very weak blow. FF 60 min - no blow. Rec. 112' SWCM. Sample chamber 21 psig: 2400 cc SWCM, no gas. ISIP 60 min - 1971, FSIP 120 min - 1756 IFP 60 min - 27-54, FFP 60 min - 54-54, IHP & FHP 2622	Lower Ismay Paradox Shale Desert Creek Base Desert Creek Total Depth	5352' 5406' 5449' 5552' 5576'

WILLIAM W. WHITLEY CO.

#1-23 STATE
SE NE SE
Sec 23-T40S-R22E
SAN JUAN CO., UTAH

REGISTERED

JUL 10 1911

DIVISION OF
OIL, GAS & MINING

WILLIAM W. WHITLEY CO.

#1-23 STATE
SE NE SE SEC 23-T40S-R22E
SAN JUAN CO., UTAH

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2. Bit Record Sheet	2
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4. Gas Shows & DST's Sheets	4 - 10
5. Core Log Sheets	

(1) Copy-Final Mud Log (5" = 100')

(1) Copy-Final Mud Log (2.5"=100')

Drilling Contractor: Bayless Drilling Co. Rig # 5
Farmington, N.M.

Drilling Foreman: Mr. Abel Lobato

Mud Logger: Mr. Tim Pietsch
Smith Mud Logging
Delta, Colorado 81416

Drilling Fluid: American Mud Co.
Mr. John Coursey
Mr. Bill Harris

Drill Stem Tests: Mr. Dave Davis, Halliburton Test #1

Wire Line Logs: Mr. A.T. Johnson
Schlumberger
Farmington, N.M.

#1-23 STATE

BIT RECORD

<u>BIT #</u>	<u>TYPE</u>	<u>DEPTH OUT</u>	<u>FOOTAGE</u>	<u>HOURS</u>
1	DTJ	1195	1195	23 3/4
2	D6J	1868	673	15
3	F2X	3188	1320	42 1/2
4	F2X	3646	458	16 3/4
5	F3	4918	1272	62 3/4
6	HS-51	5406	488	27 1/4
7 (RR#4)	F2X	5485	79	4
8	F3	5576	91	5 3/4

#1-23 STATE

DEVIATION RECORD

<u>DEPTH</u>	<u>DEVIATION</u>
296	1/4°
697	2 1/4°
1195	2°
1680	2 1/2°
1868	1 1/2°
2385	1°
2878	3/4°
3188	1/2°
3646	1°
4918	1°
5406	3/4°
5576	2 1/2°

SUMMARY OF DAILY ACTIVITY

PAGE 1

<u>DATE</u>	<u>ACTIVITY</u>	<u>MIDNITE DEPTH</u>	<u>24 HOUR FOOTAGE</u>
5-30-81	Unit #1695 on location, Rigged up.	4313	
5-31-81	Drilling	4758	445
6-01-81	Drilling, T.O.H., T.I.H., DRILLING	5031	273
6-02-81	Drilling, T.O.H., T.I.H., Drilling	5406	375
6-03-81	Drilling, T.O.H., T.I.H., Drilling, T.O.H. for DST, T.I.H. to test	5485	79
6-04-81	DST tool out of hole, T.I.H. for bit, Circulate, Drilling, Circulate, T.O.H. for Wire Line	5576	91
6-05-81	Wire Line, DST,	5576	---
6-06-81	Finish DST, T.O.H.	5576	---

SMITH MUD LOGGING
SHOW & DST SHEET

SHOW # 1 INTERVAL 5367 TO 5387

COMPANY: WILLIAM W. WHITLEY CO.

DATE: 6-02-81 SHOW
6-03-81 DST

WELL: #1-23 STATE

FIELD: TURNER BLUFF

	BEFORE SHOW	DURING SHOW	AFTER SHOW
DRILLING RATE	12-14 Min/2 ft	6-7 Min/2 Ft	11-12 Min/2 ft
TOTAL GAS UNITS	2 Div.	40 Div.	2 Div.
CHROMATOGRAPH	--	--	--
% METHANE			
% ETHANE			
% PROPANE			
% BUTANE (ISO) (NORM)	.0000%	.09%	.000000%
% PENTANES			

SAMPLE LITHOLOGY 100 % Limestone LtGY DkGY WHT
TR Shale ORNG BLK FRM CALC
TR Sandstone ORNG RND SBRND CMT

SAMPLE FLUO-CUT Brilliant Green - No Cut

DST # 1 INTERVAL 5360 TO 5485

	Time	Top Chart @5337'	PRESSURE (psi)	Bottom Chart@5480'
INITIAL HYDROSTATIC		2514		2572
INITIAL OPEN	15 min.	27-27		81-95
INITIAL SHUT-IN	60 min.	1972		2057
SECOND OPEN	90 min.	54-108		122-163
SECOND SHUT-IN	180 min.	2026		2084
FINAL HYDROSTATIC		2514		2572

BHT (°F.): 138° MUD RESISTIVITY: 1.25 @ 59° in pit
 1st FLOW: Open with weak blow Steady throughout @ 1" in bucket NGTS
 2nd FLOW: Open with weak blow @ 1" to fair blow @ 10 min. 6" in bucket

RECOVERY	310' MUD - TR OIL	NITRATES	3.oz pressure	CHLORIDES	NGT
DRILL PIPE:	TOP 1.23 @ 72°	---		2666.66	
	MIDDLE --	---		--	
	BOTTOM .322 @ 73°	---		11212.12	
SAMPLE CHAMBER:	.256 @ 73°	---		14848.48	
MUD WEIGHT:	9.0	VISCOSITY	36	W/L	12.0
					2848.48

RETORT: 94% Water 2% Oil 4% Solids From Sample Chamber

LOGGING TECHNOLOGIST: TIM PIETSCH

Test done by HALLIBURTON - Farmington, N.M.
DAVE DAVIS, TEST HAND

SMITH MUD LOGGING
SHOW & DST SHEET

SHOW # 2 INTERVAL 5506 TO 5508

COMPANY: **WILLIAM W. WHITLEY CO.**

DATE: **6-02-81**

WELL: **#1-23 STATE**

FIELD **TURNER BLUFF**

	BEFORE SHOW	DURING SHOW	AFTER SHOW
DRILLING RATE			
TOTAL GAS UNITS	2	10	2
CHROMATOGRAPH			
% METHANE		.13%	
% ETHANE		.05%	
% PROPANE		.03%	
% BUTANE (ISO) (NORM)		.04%	
% PENTANES			

SAMPLE LITHOLOGY 80% SH RD BRN BLK FRM CALC DOLMTC
20% LS GY
TR ANHY

SAMPLE FLUO-CUT YELLOW FLUO - Slow Cut Rare 3-4 pcs

DST # _____ INTERVAL _____ TO _____

TIME

PRESSURE 9psi)

INITIAL HYDROSTATIC

INITIAL OPEN

INITIAL SHUT-IN

SECOND OPEN

SECOND SHUT-IN

FINAL HYDROSTATIC

BHT (°F.):

MUD RESISTIVITY:

1st FLOW: _____

2nd FLOW: _____

RECOVERY

		NITRATES	CHLORIDES
DRILL PIPE:	TOP _____		
	MIDDLE _____		
	BOTTOM _____		

SAMPLE CHAMBER: _____

MUD WEIGHT: _____ VISCOSITY _____ W/L _____

LOGGING TECHNOLOGIST: _____

SMITH MUD LOGGING
SHOW & DST SHEET

SHOW # 3 INTERVAL 5510 TO 5514

COMPANY: **WILLIAM W. WHITLEY CO.**

DATE: **6-02-81**

WELL: **#1-23 STATE**

FIELD **TURNER BLUFF**

BEFORE SHOW DURING SHOW AFTER SHOW

DRILLING RATE			
TOTAL GAS UNITS			
CHROMATOGRAPH			
% METHANE		.11%	
% ETHANE		.01%	
% PROPANE		.04%	
% BUTANE (ISO) (NORM)		.09%	
% PENTANES			

SAMPLE LITHOLOGY 20% SH RD BRN BLK FRM CALC DOLMTC

60% LS GY to WHT

10% DOL TN 10% ANHY WHT

SAMPLE FLUO-CUT DULL YELLOW - No Cut

DST # _____ INTERVAL _____ TO _____

TIME

PRESSURE 9psi)

INITIAL HYDROSTATIC

INITIAL OPEN

INITIAL SHUT-IN

SECOND OPEN

SECOND SHUT-IN

FINAL HYDROSTATIC

BHT (°F.):

MUD RESISTIVITY:

1st FLOW: _____

2nd FLOW: _____

RECOVERY

NITRATES

CHLORIDES

DRILL PIPE:

TOP _____

MIDDLE _____

BOTTOM _____

SAMPLE CHAMBER: _____

MUD WEIGHT: _____

VISCOSITY _____

W/L _____

LOGGING TECHOLOGIST: _____

SMITH MUD LOGGING
SHOW & DST SHEET

SHOW # 4 INTERVAL 5530 TO 5544

COMPANY: WILLIAM W. WHITLEY CO.

DATE: 6-02-81

WELL: #1-23 STATE

FIELD TURNER BLUFF

	BEFORE SHOW	DURING SHOW	AFTER SHOW
DRILLING RATE	6-7 Min/2ft	3-4 Min/2ft	6-7 Min/2ft
TOTAL GAS UNITS	6	30	6
CHROMATOGRAPH			
% METHANE		.14%	
% ETHANE		.03%	
% PROPANE		.04%	
% BUTANE (ISO) (NORM)		.13%	
% PENTANES			

SAMPLE LITHOLOGY 100% LS GY
TR SH - ANHY - DOL

SAMPLE FLUO-CUT DULL YELLOW - No Cut

DST # _____ INTERVAL _____ TO _____

TIME

PRESSURE 9psi)

INITIAL HYDROSTATIC

INITIAL OPEN

INITIAL SHUT-IN

SECOND OPEN

SECOND SHUT-IN

FINAL HYDROSTATIC

BHT (°F.):

MUD RESISTIVITY:

1st FLOW: _____

2nd FLOW: _____

RECOVERY

NITRATES

CHLORIDES

DRILL PIPE: TOP		
MIDDLE		
BOTTOM		

SAMPLE CHAMBER: _____

MUD WEIGHT: _____ VISCOSITY _____ W/L _____

LOGGING TECHNOLOGIST: _____

SMITH MUD LOGGING
SHOW & DST SHEET

SHOW # 5 INTERVAL 5545 TO 5566

COMPANY: **WILLIAM W. WHITLEY CO.**

DATE: **6-02-81**

WELL: **#1-23 STATE**

FIELD **TURNER BLUFF**

	BEFORE SHOW	DURING SHOW	AFTER SHOW
DRILLING RATE	5/6 Min/2ft	4/6 Min/2ft	4Min/2ft
TOTAL GAS UNITS		24	
CHROMATOGRAPH			
% METHANE		.16%	
% ETHANE		.02%	
% PROPANE		.04%	
% BUTANE (ISO) (NORM)		.14%	
% PENTANES			

SAMPLE LITHOLOGY 100% LS GY
TR SH - ANHY - DOL

SAMPLE FLUO-OUT DULL YELLOW FLUO - No Cut

DST # _____ INTERVAL _____ TO _____

Time PRESSURE 9psi)

INITIAL HYDROSTATIC _____
INITIAL OPEN _____
INITIAL SHUT-IN _____
SECOND OPEN _____
SECOND SHUT-IN _____
FINAL HYDROSTATIC _____

BHT (°F.): _____ MUD RESISTIVITY: _____
1st FLOW: _____
2nd FLOW: _____

RECOVERY		NITRATES	CHLORIDES
DRILL PIPE:	TOP _____		
	MIDDLE _____		
	BOTTOM _____		
SAMPLE CHAMBER:	_____		
MUD WEIGHT:	_____ VISCOSITY _____ W/L _____		

LOGGING TECHNOLOGIST: _____

SMITH MUD LOGGING
SHOW & DST SHEET

SHOW # 6 INTERVAL 5568 TO 5576

COMPANY: **WILLIAM W. WHITLEY CO.**

DATE: **6-02-81**

WELL: **#1-23 STATE**

FIELD **TURNER BLUFF**

	BEFORE SHOW	DURING SHOW	AFTER SHOW
DRILLING RATE	4 Min/2ft	3 Min/2ft	----
TOTAL GAS UNITS		24	
CHROMATOGRAPH			
% METHANE		.83%	
% ETHANE		.02%	
% PROPANE		.04%	
% BUTANE (ISO) (NORM)		.12%	
% PENTANES			

SAMPLE LITHOLOGY **100% SH BLK**

SAMPLE FLUO-CUT **DULL YELLOW FLUO - No Cut**

DST # _____ INTERVAL _____ TO _____

TIME

PRESSURE 9psi)

INITIAL HYDROSTATIC

INITIAL OPEN

INITIAL SHUT-IN

SECOND OPEN

SECOND SHUT-IN

FINAL HYDROSTATIC

BHT (°F.):

MUD RESISTIVITY:

1st FLOW: _____

2nd FLOW: _____

RECOVERY

DRILL PIPE:

TOP _____

MIDDLE _____

BOTTOM _____

SAMPLE CHAMBER: _____

MUD WEIGHT: _____

VISCOSITY _____

W/L _____

NITRATES

CHLORIDES

LOGGING TECHNOLOGIST: _____

SHOW # 2 INTERVAL _____ TO _____

COMPANY: **WILLIAM W. WHITLEY CO.**

DATE: **6-0681**

WELL: **#1-23 STATE**

FIELD **TURNER BLUFF**

BEFORE SHOW DURING SHOW AFTER SHOW

DRILLING RATE			
TOTAL GAS UNITS			
CHROMATOGRAPH			
% METHANE			
% ETHANE			
% PROPANE			
% BUTANE (ISO) (NORM)			
% PENTANES			

SAMPLE LITHOLOGY

SAMPLE FLUO-CUT

DST # 2 INTERVAL 5487 TO 5576 TD

	TIME	TOP CHART@5465'	PRESSURE (psi)	BOTTOM CHART@5572'
INITIAL HYDROSTATIC		2622		2654
INITIAL OPEN	60 Min.	27-54		54-81
INITIAL SHUT-IN	120 Min.	1971		2030
SECOND OPEN	60 Min.	54-54		81-95
SECOND SHUT-IN	120 Min.	1756		1813
FINAL HYDROSTATIC		2622		2654

BHT (°F.): **138°**

MUD RESISTIVITY: **.92 @ 68° at pit**

1st FLOW: **Initial open Very Weak Blow @ 1" Throughout NGTS**

2nd FLOW: **Opened Tool - No Blow, Closed Tool NGTS**

RECOVERY **112' Slightly Watercut Mud 2400cc @ 21psig**

DRILL PIPE:	TOP	MIDDLE	BOTTOM	NITRATES	CHLORIDES
	.910 @ 70°				4000 ppm

	.87 @ 68°				4303.03
SAMPLE CHAMBER:	.63 @ 66°				6060.60
MUD WEIGHT:	93	VISCOSITY	45	W/L	4121.21@pit

LOGGING TECHNOLOGIST: **TIM PIETSCH**

TEST DONE BY HALLIBURTON - FARMINGTON, N.M.

DAVE DAVIS, TEST HAND

Utah State Lease ML-035887
#1-23 State Well
1330' FSL, 560' FEL, Sec. 23-T40S-R22E
San Juan County, Utah

Well Completion Report and Log: Directional Surveys
Page 2

1/4 ^o	at	297'
2 1/2 ^o	at	697'
2 ^o	at	1295'
1 1/2 ^o	at	1868'
3/4 ^o	at	2878'
1/2 ^o	at	3188'
1 ^o	at	3646'
1 ^o	at	4918'
3/4 ^o	at	5406'
2 1/2 ^o	at	5576' T.D.

DIVISION OF
OIL, GAS & MINING

JUN 11 1961

1

July 6, 1981

William W. Whitley
1705 Colorado State Bank Building
1600 Broadway
Denver, Colorado 80202

Re: Well No. #1-23 State
Sec. 23, T. 40S, R. 22E
San Juan County, Utah

Gentlemen:

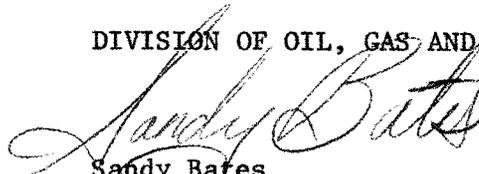
According to our records, a "Well Completion Report" filed with this office 6-9-81, from above referred to well indicates the following electric logs were run: Dual Induction-SFL and Simultaneous Compensated Neutron-Density. As of to-date this office has not received these logs.

Rule C-5, General Rules and Regulations and Rules of Practice and Procedure, requires that a well log shall be filed with the Commission together with a copy of the electric and radioactivity logs.

Your prompt attention to the above will be greatly appreciated.

Sincerely,

DIVISION OF OIL, GAS AND MINING



Sandy Bates
Clerk-Typist

/lm