FILE NOTATIONS

Entered in NID File	..✓.....	Checked by Chief	RWB.....
Location Map Pinned	..✓.....	Approval Letter	1-29-74
Card Indexed	..✓.....	Disapproval Letter	.....

COMPLETION DATA:

Date Well Completed	Location Inspected .....
OW..... WW..... TA.....	Bond released
GW..... OS..... PA.....	State or Fee Land .....

LOGS FILED

Driller's Log.....

Electric Logs (No.) .....

E..... I..... Dual I Lat..... GR-N..... Micro.....

BHC Sonic GR..... Lat..... Mi-L..... Sonic.....

CBLog..... CCLog..... Others.....

Telephone 269-7991

P.O. Box 1448

WESTCOAST OIL & GAS CORP.

Scurry-Rainbow Building
709-8th Avenue South West
Calgary, Alberta. T2P 1H5

January 14, 1974

United States Department of Interior
Geological Survey
P. O. Box 1809
DURANGO, Colorado 81301

Attention: Jerry Long

Dear Sir:

Attached is a Westcoast Oil & Gas Corp. application for permit to drill a wildcat well in search of oil in San Juan County , Utah. The well will be located 505' south of the north boundary and 720' east of the west boundary of Sec. 10, Twp. 28 s, Rge. 23 E of the SLM. Also attached are location plats showing existing roads, planned access roads, flow line and tank battery location, and location layout.

Existing roads and trails will be used where possible. There will be no camp at this location. We plan to truck water from Kane Springs and store in a reserve pit at the location. All waste will be disposed of into a waste pit and this pit will be covered with dirt at the conclusion of operations.

The proposed road and location are in an "unimproved" area. This area supports light vegetation sufficient for cattle grazing. As soon as practical, after the completion of drilling operations, the surface will be restored and all pits covered with dirt to conform with the surrounding area. The disturbed area will be seeded with grass seed.

If additional information is needed on this application, please contact the undersigned at Westcoast Oil & Gas Corp., Calgary, Alberta, at the above mentioned address.

Yours very truly,

WESTCOAST OIL & GAS CORP.

W. J. Scott
Production Engineer

RECEIVED
JAN 17 1974
U. S. GEOLOGICAL SURVEY
DURANGO, COLO.

WJS/ddv
Encls.

Form 9-331 C
(May 1963)

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1425.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK: DRILL [X] DEEPEN [ ] PLUG BACK [ ]

b. TYPE OF WELL: OIL WELL [X] GAS WELL [ ] OTHER SINGLE ZONE [ ] MULTIPLE ZONE [ ]

2. NAME OF OPERATOR: Westcoast Oil & Gas Corp.

3. ADDRESS OF OPERATOR: 709 - 8th Avenue S.W., Calgary, Alberta T2P 1H5

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*)
At surface: 505' from north line
720' from west line Sec. 10, Twp. 28S, Rge. 23E
At proposed prod. zone: As above

NENWNW

5. LEASE DESIGNATION AND SERIAL NO.: U 10329

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT AGREEMENT NAME:

8. FARM OR LEASE NAME:

9. WELL NO.: Muleshoe No. 1

10. FIELD AND POOL, OR WILDCAT: Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: 10-28S-23E SLM

12. COUNTY OR PARISH: San Juan

13. STATE: Utah

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
From Moab, Utah approx. 13 miles SE on Hwy. #160, then turn east on road to Black Ridge for 6½ miles to location.

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any): 505 ft.

16. NO. OF ACRES IN LEASE: 2412.4

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.: no other well

19. PROPOSED DEPTH: 9,300'

20. ROTARY OR CABLE TOOLS: Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.): 6388 feet upgraded

22. APPROX. DATE WORK WILL START*: Jan. 15 - 20, 1974

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
17½"	13-3/8"	48#/ft	350'	to surface
12¼"	9-5/8"	36#/ft	3500'	to surface
8-3/4"	7"	26#/ft	9300'	500 sax (Production csg. if required)

Mud: 0 - 300 - native mud and gel
350 - 3500 - attempt to air drill
3500 - 9300 - low solids non dispersed and weight control as indicated by well conditions. Will salt saturate to drill salt zone.

Propose to drill a 9,300' test to the McCracken in search for oil.
BOP's - 900 series hydraulically activated. Double gate and bag type.
Tests to be made daily and recorded on tower sheets.

AOK
out of Potash designated area

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 P. Eng DATE Jan 11/74

(This space for Federal or State office use)

PERMIT NO. 43-037-30147 APPROVAL DATE

APPROVED BY TITLE DATE

CONDITIONS OF APPROVAL, IF ANY:

RECEIVED
JAN 17 1974
U. S. GEOLOGICAL SURVEY
DURANGO, COLO.

Extra

*See Instructions On Reverse Side

Utah O&G Comm

COMPANY WESTCOAST OIL & GAS CORPORATION

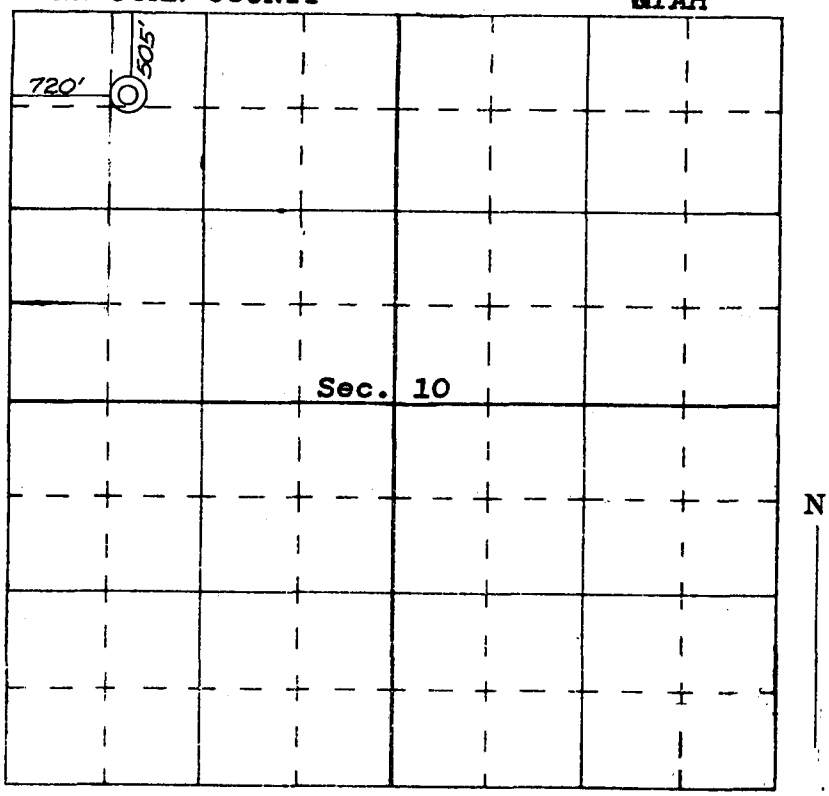
LEASE MULESHOE WELL NO. 1

SEC. 10, T. 28 South, R. 23 East, S.L.M.

LOCATION 505 Feet from the North line and
720 Feet from the West line

ELEVATION 6388 Ungraded Ground

SAN JUAN COUNTY UTAH



SCALE—4 INCHES EQUALS 1 MILE

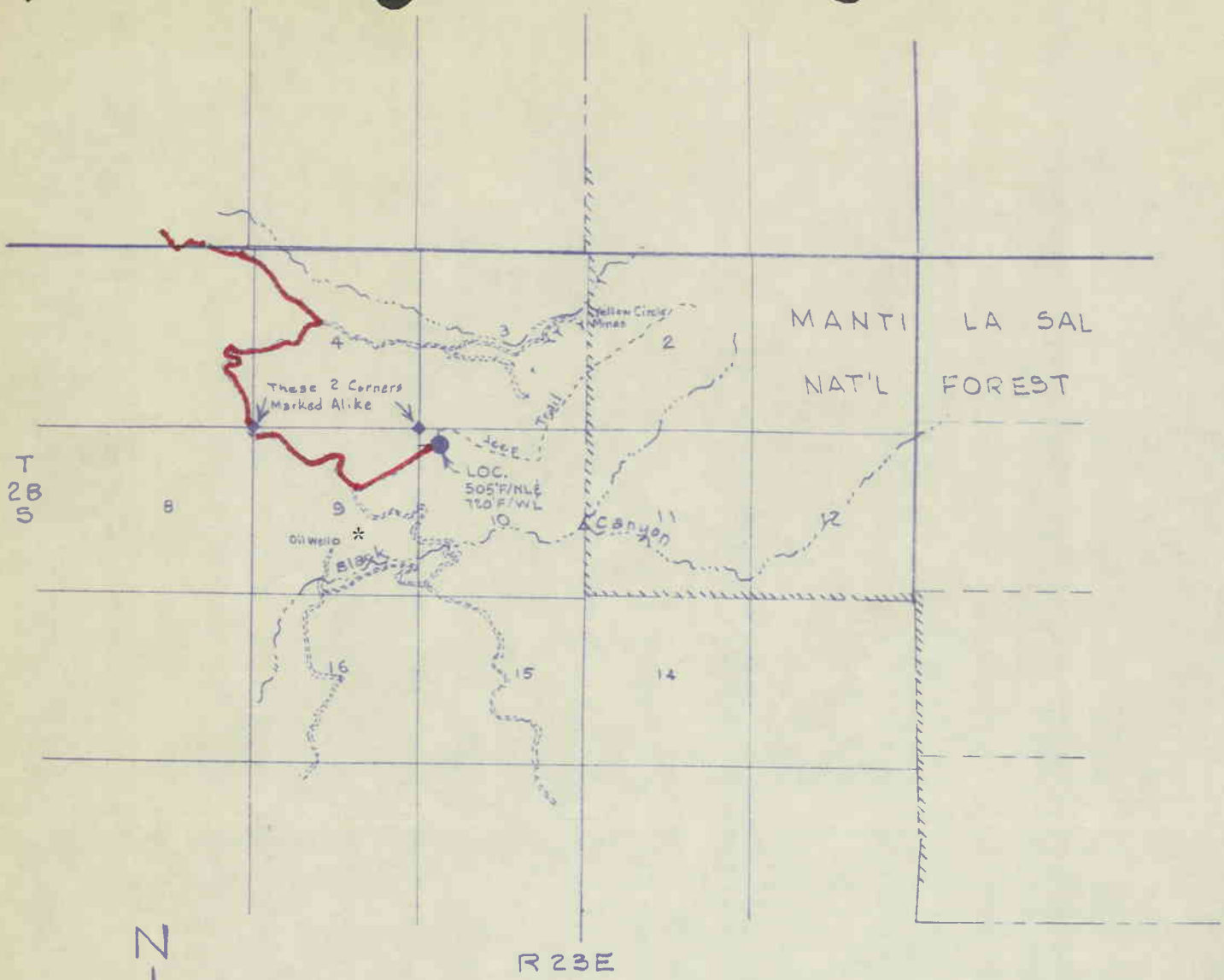
THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTE OF ACTUAL SURVEYS MADE BY ME UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

Registered Land Surveyor.

JAMES P. LEESE
UTAH REG. NO. 1472

SURVEYED 11 December, 19 73

SAN JUAN ENGINEERING COMPANY, FARMINGTON, N. M.



NOTE: The N.W. Cor. of Sec. 9 & the N.W. Cor. of sec. 10 are marked the same.

* Oilwell indicated on Topographic maps but no physical or historical record of same.

Vicinity Map For

WEST COAST OIL & GAS CO.

Showing

Well Location in NW/4 of Sec. 10, T28S, R23E, S.L.M., San Juan County, Utah

Scale: 1" = 1mile

Date: 12 Dec, 1973

San Juan Engineering Company — Farmington, New Mexico

SECTION PLAT

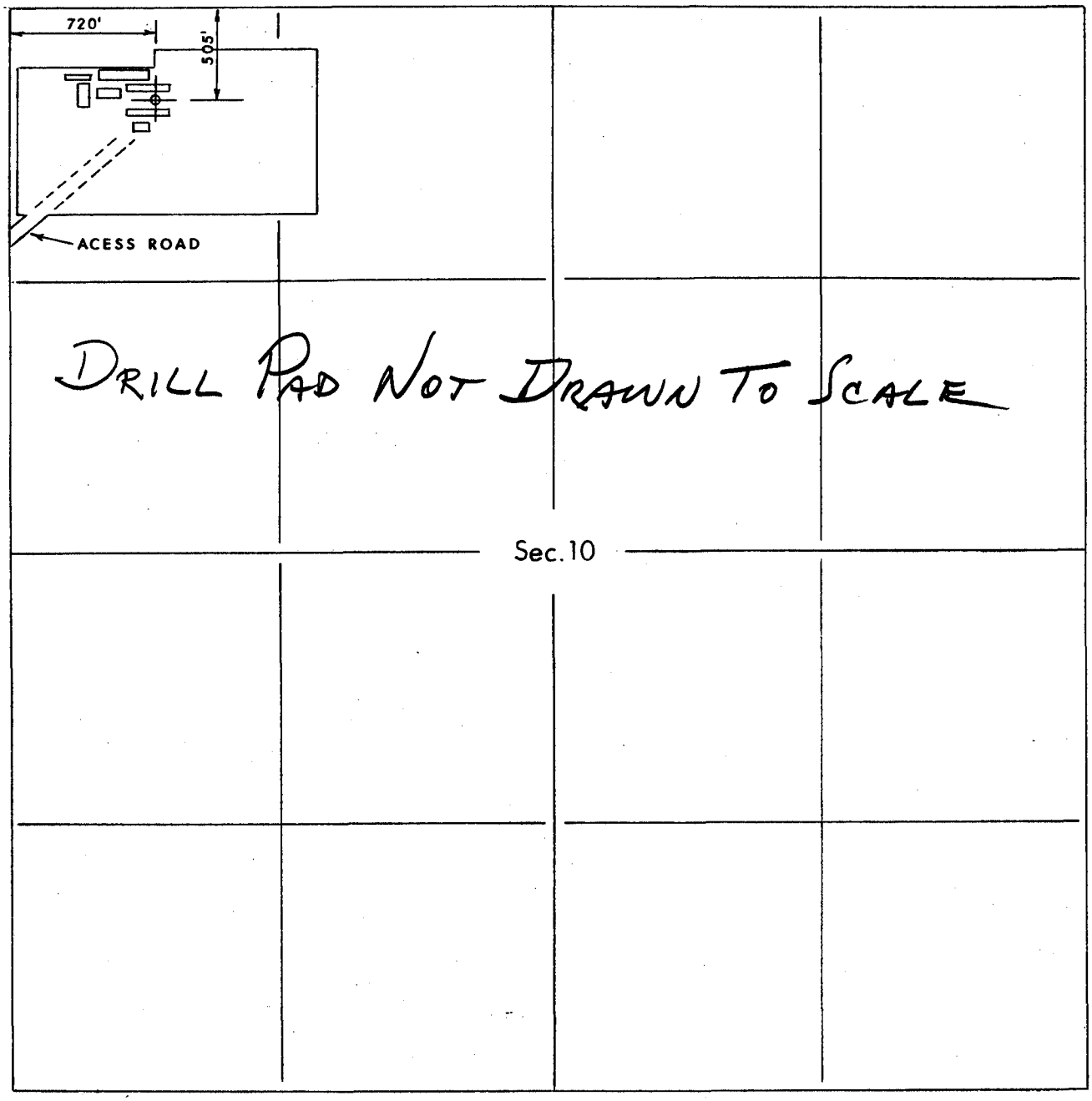
Scale : 1" = 800'

STATE : UTAH

County: San Juan

LOCATION : 505' FNL & 720' FWL

SECTION 10 TOWNSHIP 28 S RANGE 23E



WELL SITE LAY-OUT

WESTCOAST OIL & GAS CORPORATION

SECTION PLAT

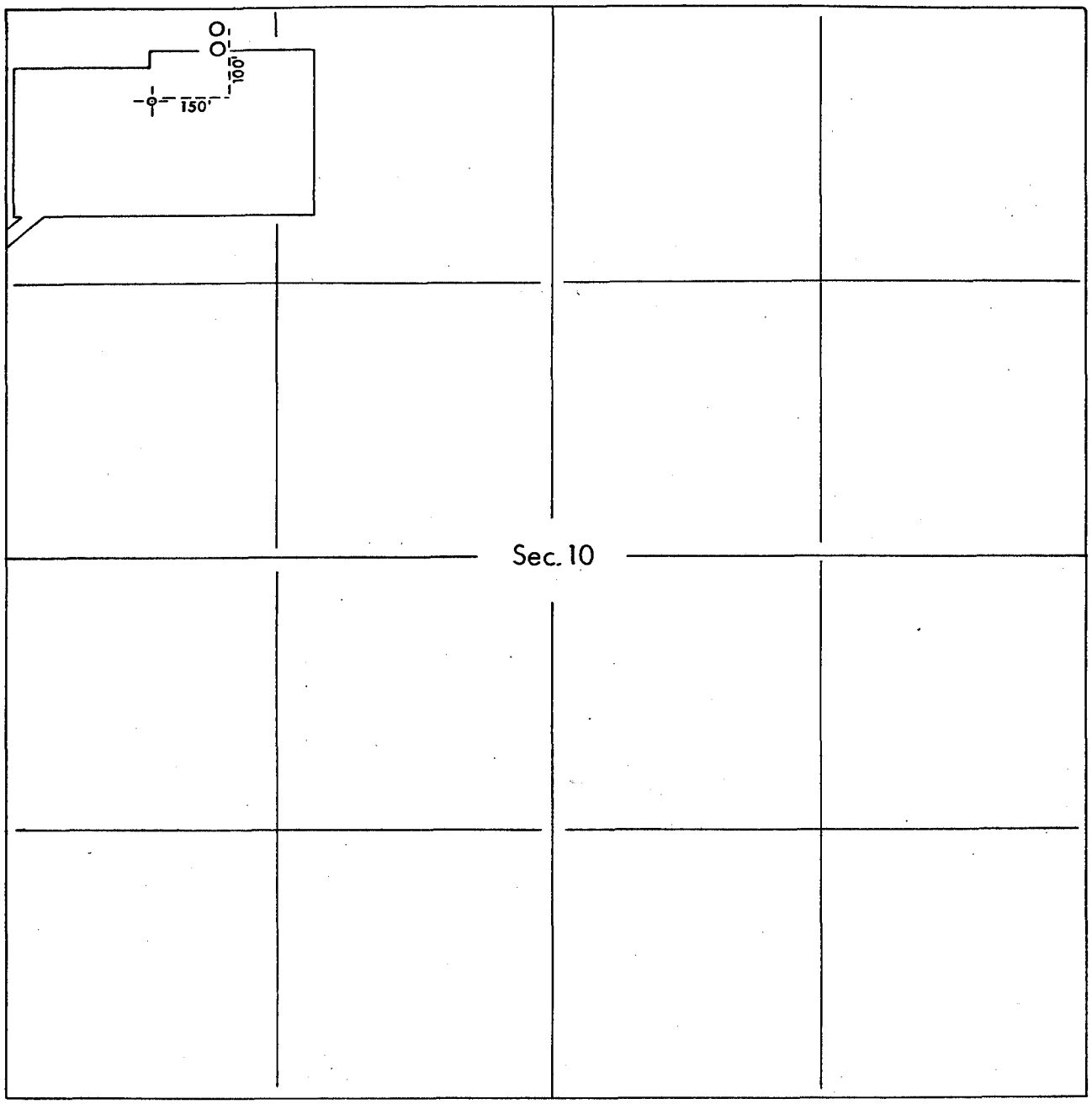
Scale : 1" = 800'

STATE : UTAH

County: San Juan

LOCATION : 505' FNL & 720' FWL

SECTION 10 TOWNSHIP 28S RANGE 23E



TANK BATTERY LAY-OUT

Not to Scale

WESTCOAST OIL & GAS CORPORATION

January 29, 1974

Westcoast Oil and Gas Corporation
709 - 8th Avenue S.W.
Calgary, Alberta
Canada

Re: Well No. Muleshoe Fed. #1
Sec. 10, T. 28 S, R. 23 E,
San Juan County, Utah

Gentlemen:

Insofar as this office is concerned, approval to drill the above referred to well is hereby granted in accordance with the 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:

PAUL W. BURCHELL - Chief Petroleum Engineer
HOME: 277-2890
OFFICE: 328-5771

Enclosed please find Form OGC-8-X, which is to be completed whether or not water sands (aquifers) are encountered during drilling. Your cooperation relative to the above will be greatly appreciated.

The API number assigned to this well is 43-037-30147.

Very truly yours,

DIVISION OF OIL & GAS CONSERVATION

CLEON B. FEIGHT
DIRECTOR

CBF:sd
cc: U.S. Geological Survey

CALVIN L. RAMPTON
Governor

GORDON E. HARMSTON
Executive Director,
NATURAL RESOURCES

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL & GAS CONSERVATION

1588 WEST NORTH TEMPLE
SALT LAKE CITY, UTAH 84116
328-5771

OIL & GAS CONSERVATION BOARD

DELBERT M. DRAPER, JR.
Chairman
CHARLES R. HENDERSON
ROBERT R. NORMAN
WESLEY R. DICKERSON
EVART J. JENSEN

Gulf [redacted] 3/31/74

Vertical
Malesko #1
sec 10 T28 R23
U.S.L.S.
Run test in Cane Creek Marker
In top of Devonian

Cane Creek - 9206
Base of Salt - 9406
Molas - 9480
Miss - 9510 - ¢ tested not water
Ouray - 10,010
Elbert 10,134
McCracken 10,262
T.D. - 10375

9⅝" hole

(1) Cores top of Ouray - 100' 9960-10,060
50 sh.

(2) 01 ¢ in Miss - 200' - 9500 to 9700
105 sh

(3) 9300 to 9425 - 60 sh - Base of salt

Well test Cane Creek - 9206-9268

(4) 8700 - top of ~~Dt~~ Ouray

(5) top Hermosa

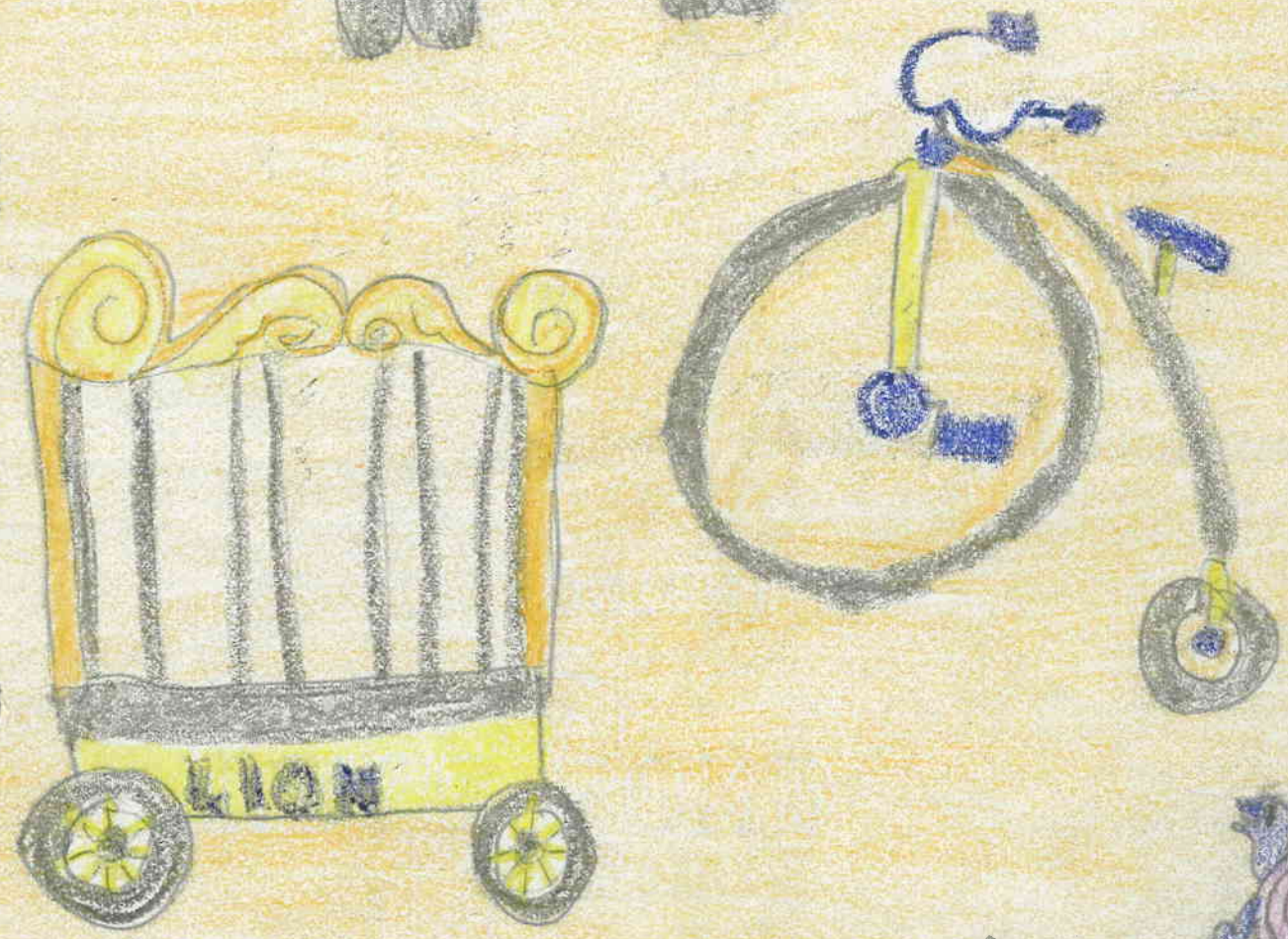
(6) 9⅝ @ 3402' - well bore
1200' bit cont. (BLB?)

(7) Plug at bot of 9⅝ contaminated (in Cattle

(8) Equalizer -

(9) Cement in bottom + cement between surface
and intermediate -

Bread
Meat
Cut
Vegetable
Dessert
Margarine
Fruit
potato chips



P. Rurchese

Form OGCC-1 b

STATE OF UTAH

OIL & GAS CONSERVATION COMMISSION

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

SUNDRY NOTICES AND REPORTS ON WELLS

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

1. OIL WELL ☐ GAS WELL ☐ OTHER Dry

2. NAME OF OPERATOR
Westcoast Oil & Gas Corp.

3. ADDRESS OF OPERATOR
709 - 8th Avenue S.W., Calgary, Alberta T2P 1H5

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.)
At surface
505' from north line
720' from west line Sec. 10, T28S-R23E

5. LEASE DESIGNATION AND SERIAL NO.
U 10329

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

9. WELL NO.
Muleshoe No. 1

10. FIELD AND POOL, OR WILDCAT
Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
10-28S-23E SLM

14. PERMIT NO.
API# 43-037-30147

15. ELEVATIONS (Show whether DF, RT, GR, etc.)
GR - 6385' K.B. - 6400'

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	☐	PULL OR ALTER CASING	☐
FRACTURE TREAT	☐	MULTIPLE COMPLETE	☐
SHOOT OR ACIDIZE	☐	ABANDON*	X
REPAIR WELL	☐	CHANGE PLANS	☐
(Other)			☐

SUBSEQUENT REPORT OF:

WATER SHUT-OFF	☐	REPAIRING WELL	☐
FRACTURE TREATMENT	☐	ALTERING CASING	☐
SHOOTING OR ACIDIZING	☐	ABANDONMENT*	☐
(Other)			☐

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

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

Plug #1	9960' - 10,060'	50 scks
Plug #2	9500' - 9700'	105 scks
Plug #3	9300' - 9425'	60 scks
Plug #4	8400' - 8500'	60 scks
Plug #5	6350' - 6450'	60 scks
Plug #6	3350' - 3450'	80 scks
Plug #7	2300' - 2400'	50 scks
Plug #8	5 scks @ surface	

Casing cut off 3' below ground level and dry hole marker installed.

As per instructions from Mr. J. Long. Durango, Colorado

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

SIGNED L. H. Nesh TITLE Agent for Operator DATE 19 April, 1974

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

Telephone 269-7991

P.O. Box 1448

WESTCOAST OIL & GAS CORP.

Scurry-Rainbow Building
709-8th Avenue South West
Calgary, Alberta. T2P 1H5

April 22, 1974

State of Utah
Department of Natural Resources
Division of Oil & Gas Conservation
1588 West North Temple
SALT LAKE CITY, Utah 84116

Gentlemen:

Re: Westcoast et al Muleshoe #1

Enclosed for your records is a water analysis with respect to the above mentioned well.

Yours very truly,

WESTCOAST OIL & GAS CORP.

W.J. Scott
Production Engineer

/ddv
Encl.

CL1-12A (REV. 1964)

well file

CHEMICAL & GEOLOGICAL LABORATORIES

P. O. Box 2794
Casper, Wyoming

WATER ANALYSIS REPORT

OPERATOR: West Coast Oil & Gas Corp.
WELL NO.: Mule Shoe No. 1
FIELD: Wildcat
COUNTY: San Juan
STATE: Utah

DATE: March 29, 1974
LAB NO.:
LOCATION: NW NW 10-28S-23E
FORMATION: Missippian
INTERVAL: 9619-9665
SAMPLE FROM: DST No. 1 (sample chamber)

REMARKS & CONCLUSIONS: cloudy water with slightly cloudy filtrate

Cations	mg/1	meq/1	Anions	mg/1	meq/1
Sodium	53449	2325.05	Sulfate	4300	89.44
Potassium	2820	72.19	Chloride	85500	2411.10
Lithium			Carbonate	0	-
Calcium	1444	72.06	Bicarbonate	366	6.00
Magnesium	453	37.24	Hydroxide		
Iron			Hydrogen sulfide	Absent	
Total Cations		2506.54	Total Anions		2506.54

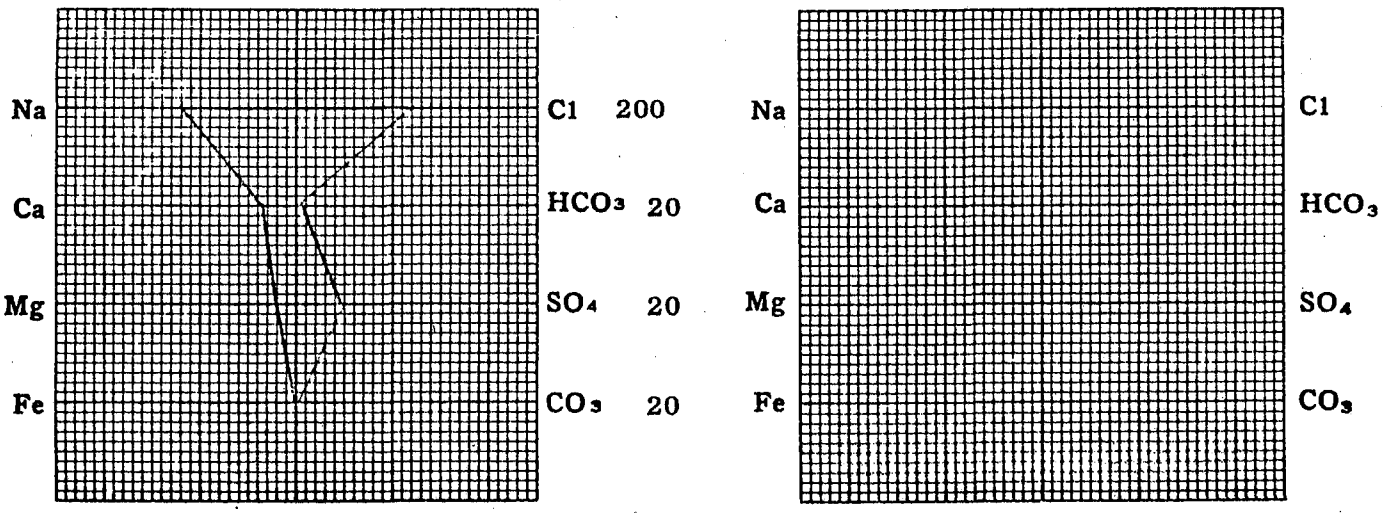
Total dissolved solids, mg/1 - - - - - 148146
NaCl equivalent, mg/1 - - - - - - - 146296
Observed pH - - - - - - - - - - - 6.8

Specific resistance @ 68°F.:
Observed - - - - 0.065 ohm-meters
Calculated - - - - 0.060 ohm-meters

WATER ANALYSIS PATTERN

Sample above described

Scale
MEQ per Unit



(Na value in above graphs includes Na, K, and Li)
NOTE: Mg/1=Milligrams per liter Meq/1= Milligram equivalents per liter
Sodium chloride equivalent=by Dunlap & Hawthorne calculation from components

Helton Engineering, Inc.
CONSULTING PETROLEUM ENGINEERS AND GEOLOGISTS
301 FRATT BUILDING
BILLINGS, MONTANA 59101
PHONE (406) 259-4125

April 22, 1974

State of Utah
Department of Natural Resources
Division of Oil & Gas Conservation
1588 West North Temple
Salt Lake City, Utah 84100

Attention: Mr. Paul Burchell

Dear Sir:

Re: Westcoast etal Mule Shoe #1
NW NW Section 10, T28S-R23E
San Juan County, Utah

Attached are copies of your Forms OGCC-16 and OGCC-3 covering the drilling of the subject well.

Best regards,

Ken Neish

K. H. Neish
Helton Engineering, Inc.

KHN:llm

Form OGCC-3

STATE OF UTAH

OIL & GAS CONSERVATION COMMISSION

SUBMIT IN DUPLICATE*
(See other instructions on reverse side)

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

5. LEASE DESIGNATION AND SERIAL NO.: U 10329

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT AGREEMENT NAME:

8. FARM OR LEASE NAME:

9. WELL NO.: Muleshoe No. 1

10. FIELD AND POOL, OR WILDCAT: Wildcat

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA: 10-28S-23E SLM

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 Abandon

2. NAME OF OPERATOR: Westcoast Oil & Gas Corp.

3. ADDRESS OF OPERATOR: 709 - 8th Avenue S.W., Calgary, Alberta T2P 1H5

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

At surface: 505' from north line

At top prod. interval reported below: 720' from west line Sec. 10, T28S-R23E

At total depth:

14. PERMIT NO.: API# 43-037-30147 — DATE ISSUED: Jan. 25, 1974

12. COUNTY OR PARISH: San Juan — 13. STATE: Utah

15. DATE SPUDDED: 1/27/74 — 16. DATE T.D. REACHED: 3/30/74 — 17. DATE COMPL. (*Ready to prod.*): 4/4/74 — 18. ELEVATIONS (DF, RKB, RT, GR, ETC.)*: GR-6385' K.B.-6400' — 19. ELEV. CASINGHEAD:

20. TOTAL DEPTH, MD & TVD: 10,375' K.B. — 21. PLUG, BACK T.D., MD & TVD: — 22. IF MULTIPLE COMPL., HOW MANY*: — 23. INTERVALS DRILLED BY: → — ROTARY TOOLS: 0-10375' — CABLE TOOLS:

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

25. WAS DIRECTIONAL SURVEY MADE: No

26. TYPE ELECTRIC AND OTHER LOGS RUN: Laterolog, Acoustilog, Dipmeter, Velocity survey

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#	355'	17½"	325 scks	None
9-5/8"	36#	3402'	12¼"	1728 scks	None

29. LINER RECORD

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

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)

31. PERFORATION RECORD (*Interval, size and number*)

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

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 R. H. Nesh — TITLE Agent for Operator — DATE 19 April, 1974

*(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

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.
Mississippian	9620	9750	DST #1 9619'-9665' 10-60-150-300 Recovered 1970' water cushion & 2800' salt water. IHP-5200 IFP-914-1143 ISIP-3295 FFP-1143-2369 FSIP-3295 FHP-5185
Cane Creek	9206	9268	DST #2 9140-9361 Misrun.
Cane Creek	9206	9268	DST #3 9210-9370 10-30-45-60 Recovered 1514' water cushion & 279' slightly gas cut mud. IHP-5033 IFP-873-873 ISIP-1446 FFP-947-947 FSIP-3055 FHP-5033 Plug #1 9960'-10,060' 50 scks Plug #2 9500'-9700' 105 scks Plug #3 9300'-9425' 60 scks Plug #4 8400'-8500' 60 scks Plug #5 6350'-6450' 60 scks Plug #6 3350'-3450' 80 scks Plug #7 2300'-2400' 50 scks Plug #8 5 scks @ surface

38. GEOLOGIC MARKERS

NAME	TOP MEAS. DEPTH	TOP TRUE VERT. DEPTH
Morrison	500	
Summerville	840	
Entrada	860	
Carmel	1255	
Navajo	1310	
Kayenta	1805	
Wingate	2033	
Chinlee	2376	
Moenkopi	2585	
Cutler	2922	
Hermosd	6412	
Paradox	7926	
Ismay	8450	
Top Salt	8772	
Cane Creek	9206	
Base Salt	9406	
Molas	9480	
Mississippian	9510	
Ouray	10,010	
Elbert	10,134	
McCracken	10,262	

WESTCOAST OIL AND GAS CORPORATION
Muleshoe No. 1
nw nw Sec. 10, T28S, R23E
San Juan County, Utah

TOOKE ENGINEERING
Consulting services

Victor B. Gras
Geologist

WELL DATA

OPERATOR:	Westcoast Oil and Gas Corporation, Scurry - Rainbow Building. 709 Eighth Ave. S.W. Calgary, Alberta
WELL:	Muleshoe No.1
LOCATION:	505' N and 720' W Sec.10, T28S, R23E, San Juan County, Utah.
ELEVATION:	Ground 6388' KB 6400'
WELL SPUDDED:	January 27, 1974
DRILLING COMPLETED:	March 30, 1974.
DRILLING CONTRACTOR:	Loffland Brothers Drilling Company. Rig #237. Toolpusher - Jack Gwinn.
DRILLING FLUID:	Water and mud by International Drilling Fluids. Engineer - Rich Maertz.
MUD LOGGING UNIT:	Tooke Engineering TR 6
CASING:	13 3/8" landed at 355' 9 5/8' landed at 3402'
HOLE:	Drilled 8 3/4' below 9 5/8' csg.
SAMPLES:	One bagged set for Amstrat. One envelope set for Westcoast Oil and Gas, and one envelope set for Utah Geological and Mineralogical Survey.
GEOLOGICAL SUPERVISION:	Victor B. Gras. I provided wellsite geological supervision from 5000' commencing February 16 to 10,375' ending March 30, 1974. I made a lithologic study of samples from 0' to 5000' after arrival at the wellsite and drafted lithology on the Tooke Engineering log.

FORMATION TOPS

UNIT	SAMPLE	E-LOG
Dakota	Surface	
Morrison	500	
Summerville	840	
Entrada	880	
Carmel	1320	1255
Navajo	1350	1310
Kayenta	1830	1805
Wingate	2020	2033
Chinle	2370	2376
Moenkopi	2610	2585
Cutler	2860	2922
Hermosa	6410	6412
Paradox	7950	7926
Ismay	8440	8450
Salt	8780	8772
Cane Creek		9206-9269
Base Salt	9410	9406
Molas	9490	9480
Mississippian	9520	9510
Ouray	10,000	10,010
Elbert	10,110	10,134
McCracken	10,285	10,262
T.D.	10,375	10,374

SAMPLE DESCRIPTIONS

DAKOTA AT SURFACE:

0 - 110	Shale, varigated purple, green and light gray, very hard interbedded with sandstone, tan, fine to coarse grained, very hard, no porosity.
110 - 160	Sandstone, pale yellow, fine to coarse grained, hard, brittle, tight.
160 - 300	Alternating sandstone as above and shale, light to medium gray, purple, brown, detrital, hard.
300 - 380	No samples.
380 - 390	Sandstone, white, fine to very coarse grained, angular, tight, vuggy, very hard with interstatial clay.
390 - 440	Shale, light gray, pale lavender, green, light brown, siliceous, very hard.
440 - 480	Sandstone as before becoming very argillaceous.
480 - 500	Shale, gray, very hard with inclusions of black tar.

MORRISON:

500 - 540	Shale, reddish brown, hard.
540 - 560	Shale, gray, very silty, hard.
560 - 640	Sandstone, light tan, fine to very coarse grained, angular tight, hard with white interstatial clay.
640 - 730	Shale, brown, hard interbedded occasionally with sandstone as above.
730 - 760	Sandstone white, very fine grained hard, tight.
760 - 780	Brown shale as before
780 - 800	Sandstone, white, very fine grained hard, clay tight.
800 - 840	Shale, brown, silty, hard.

SUMMERVILLE:

840 - 880	Silstone, red, hard.

ENTRADA:

880 - 1320	Sandstone, tan, very fine to fine grained, hard to to loose, clay tite.

CARMEL:

1320 - 1350	Shale, brown, very detrital, hard.

NAVAJO:

1350 - 1600	Sandstone, light tan, very fine to fine grained, angular, loose with frosted, rounded, coarse grains.

KAYENTA:

1830 - 1860	Siltstone, light red, hard.
1860 - 1920	Sandstone, maroon, very fine grained, very argillaceous, tight hard and siltstone, maroon, hard.
1920 - 2000	Sandstone, pink to white, fine to coarse grained, sub - angular to sub - round, tight, friable.
2000 - 2020	Siltstone, pink, very argillaceous, hard.

WINGATE:

2020 - 2160	Sandstone, pink, very fine grained, loose.
2160 - 2200	Sandstone, pink, very fine grained argillaceous, hard tight.
2200 - 2370	Sandstone, light tan, very fine grained, angular to sub - round, loose.

CHINLE:

2370 - 2400	Siltstone, tan to light brown, some sandy, hard.
2400 - 2440	Shale, maroon, silty, firm and sandstone, pink, very fine grained, argillaceous, hard, clay tight,
2440 - 2510	Shale, maroon, hard.
2510 - 2540	Same and siltstone, red, firm, sandy.
2540 - 2610	Siltstone as above.

MOENKOPI:

2610 - 2650	Shale, maroon mottled with light green, hard.
2650 - 2670	Shale, gray-green, firm.
2670 - 2690	Shale, maroon hard.
2690 - 2720	Sandstone light brown, very fine grained very silty to very argillaceous, hard.
2720 - 2740	Limestone, gray, crypto-crystalline, hard; Shale, gray, hard; Sandstone, light gray, very fine grained, very calcareous, hard, tight.
2740 - 2800	Shale and sandstone as above.
2800 - 2860	Shale, gray, hard, slightly calcareous.

CUTLER:

2860 - 2890	Sandstone, light gray - white very fine grained, clay tight, with abundant mica flakes; some brown shale and brown siltstone.
2890 - 2970	Shale, brown, hard, some silty to sandy, purple in bottom half of interval with chert at 2950'.
2970 - 3070	Shale, light gray, purple, some brown, hard.
3070 - 3100	Same with coarse grained loose sandstone.
3100 - 3160	Siltstone, brown, micaceous, hard; shale, purple and green, hard; sandstone, white to brown, very coarse grained to grit, argillaceous, tight.
3160 - 3470	Shale, brown, purple mottled with light green and purple, hard.
3470 - 3500	Siltstone, brown, red, soft.
3500 - 3610	Shale, reddish - brown, silty, hard
3610 - 3680	Shale, brown, silty, hard.
3680 - 4070	Shale, red, brown, reddish - brown, some mottled with light green, some silty hard.
4070 - 4410	Siltstone, red, brown, micaceous, soft.

4410 - 4580	Same and shale, brown, silty, some hard.
4580 - 4620	Shale, brown, some pink some silty.
4620 - 4910	Siltstone, brown, soft.
4910 - 5000	Same and shale, brown, firm.
5000 - 5040	Shale, red.
5040 - 5070	Sandstone, pink, loose, very fine grained, sub-angular.
5070 - 5130	Shale, red, some lavender, light green and light gray, soft.
5130 - 5190	Siltstone, red, soft.
5190 - 5310	Sandstone, red, very fine grained, loose, angular, very argillaceous.
5310 - 5345	Shale, red, very sandy.
5345 - 5500	Shale, red, very silty, soft with some pink siltstone.
5500 - 5570	Sandstone, pink, arkasic, very fine grained with some white anhydrite.
5570 - 5600	Shale, red, silty, soft.
5600 - 5650	Sandstone, red, very fine grained, very argillaceous loose.
5650 - 5670	Shale as above.
5670 - 5695	Sandstone as above.
5695 - 5715	Siltstone, red, soft with some pink, calcareous.
5715 - 5725	Sandstone, brown, fine grained, arkosic, loose.
5725 - 5780	Siltstone, reddish - brown, soft, with some flakes biotite, and round sand grains.
5780 - 5810	Sandstone, red, very fine grained, very argillaceous, loose.
5810 - 5960	Siltstone, red and reddish - brown, sandy, soft, micaceous.
5960 - 6000	Sandstone, pink to reddish-brown, argillaceous, micaceous, loose.

6000 - 6100	Siltstone, red, sandy, soft, micaceous.
6100 - 6180	Same alternating with sandstone, white to reddish-brown, very fine grained, micaceous, loose.
6180 - 6220	Sandstone, pink, very fine grained, silty, micaceous, loose.
6220 - 6340	Siltstone, red, very sandy, argillaceous, micaceous.
6340 - 6400	Shale, red, soft and siltstone as above.
6400 - 6410	Sandstone, red, fine grained, argillaceous, micaceous, loose.

HERMOSA:

6410 - 6450	Limestone. light gray, crypto - crystalline, soft interbedded with sandstone, pink, fine to medium grained, loose sub-angular to sub-round.
6450 - 6460	Shale, maroon, silty, soft with detrital coarse grain.
6460 - 6490	Limestone, light gray-white, crypto-crystalline firm with soft red shale breaks.
6490 - 6530	Shale, red, dark gray - green hard and some brown micaceous.
6530 - 6540	Anhydrite, clear.
6540 - 6565	Limestone, light gray - white, sandy, hard with some red shale partings.
6565 - 6575	Sandstone, light gray, very coarse grained to grit, angular to sub-round, loose, no fluoresence.
6575 - 6600	Limestone, light gray to black, cryptocrystalline, hard.
6600 - 6620	Siltstone, brown, very micaceous, soft.
6620 - 6640	Sandstone, light gray, very coarse grained to grit, angular to sub-round with some gray to light brown chert and some red shale.
6640 - 6660	No samples.
6660 - 6670	Limestone, gray, black, crypto-crystalline, hard, no fluorescence.

6670 - 6710	Shale, dark gray, black, very calcareous, firm.
6710 - 6805	Limestone, light to medium gray, crypto-crystalline, hard, black, micro-crystalline, hard, non-porous.
6805 - 6850	Siltstone, brown, micaceous; shale red and brown; conglomerate of quartz and chert fragments.
6850 - 6880	Limestone, white buff, crypto-crystalline, firm, no porosity or fluorescence.
6880 - 6910	Limestone, light to medium gray, crypto-crystalline, firm.
6910 - 6930	Sandstone, light gray, very fine to coarse grained, biatitic, loose.
6930 - 6980	Brown shale and siltstone; chert quartz fragments. conglomerate.
6980 - 7400	Limestone, crypto-crystalline, color varying from brown to light gray to black, sandy to argillaceous in places with some red shale partings.
7400 - 7435	Siltstone, brown, biotitic, calcareous, soft and shale, dark greenish-gray, hard.
7435 - 7500	Limestone, light gray, crypto-crystalline, hard, some sandy with brown chert in bottom 40 feet.
7500 - 7545	Limestone as above light gray to black interbedded with red shale.
7545 - 7730	Limestone, light to medium gray, grading from crypto-crystalline to micro-crystalline sandy in places with occasional red shale partings.
7730 - 7755	Sandstone, light gray, very fine grained very calcareous, tight, firm with abundant black grains.
7755 - 7950	Limestone, light to medium gray, crypto-crystalline and black, micro-crystalline, some is argillaceous.
7950 - 8010	Limestone, gray to black, crypto-crystalline, hard with interbedded black shale and some anhydrite.
8010 - 8055	Limestone, light gray, micro-crystalline, sandy, hard.
8055 - 8340	Limestone, light to dark gray, crypto-crystalline and black

8055 - 8340	(Cont.) micro-crystalline, hard to soft with occasional black or red shale partings and traces anhydrite.
8340 - 8375	Limestone, white, crypto-crystalline, sandy to silt, soft.
8375 - 8385	Siltstone, light gray-white, very calcareous, soft.
8385 - 8420	Limestone as above.
8420 - 8440	Sandstone, white, very fine grained very calcareous, soft, friable.

ISMAY:

8440 - 8460	Anhydrite, light gray to white.
8460 - 8470	Limestone, gray, crypto-crystalline, hard.
8470 - 8525	Shale, black, calcareous, sooty, soft.
8525 - 8550	Limestone, light gray-white, micro-crystalline, silty, non-porous.
8550 - 8570	Anhydrite, white to light gray-white, soft to hard.
8570 - 8580	Dolomite, light gray-white, hard and limestone, black crypto-crystalline, hard.
8580 - 8630	Anhydrite, white, soft.
8630 - 8710	Shale, black sooty, calcareous, soft with some red shale detrital with coarse, rounded, frosted, grains.
8710 - 8750	Limestone, light to medium gray crypto-crystalline soft to firm and black shale as above.
8750 - 8760	Anhydrite, white to light gray with some hexagonal crystals.
8760 - 8780	Limestone, dark gray to black, crypto-crystalline, firm.

PARADOX SALT:

8780 - 9045	Salt, clear.
9045 - 9080	Interbedded limestone, gray micro-crystalline, soft tight and shale, black, firm.
9080 - 9210	Salt.

9210 - 9240	Shale, black, firm and siltstone, dark brown, calcareous, soft.
9240 - 9275	Limestone, light gray, micro-crystalline, soft, non-porous and anhydrite, white.
9275 - 9410	Salt.
9410 - 9430	Shale, black, slightly calcareous, hard to soft with some white anhydrite.
9430 - 9440	Shale, dark gray, soft and limestone dark brownish-gray, micro crystalline, no porosity or fluorescence.
9440 - 9460	Shale, black, calcareous, hard and non-calcareous, soft.
9460 - 9480	Limestone, dark gray, crypto-crystalline, very hard, non-porous and light gray, crypto-crystalline, soft.
9480 - 9490	Limestone, white, crypto-crystalline, chalky, soft and brownish-gray, crypto-crystalline, very hard.

MOLAS:

9490 - 9500	Shale, green, dolomitic, hard and chert, translucent light gray and light brown.
9500 - 9520	Shale, red clay, soft some firm.

MISSISSIPPIAN:

9520 - 9590	Limestone, light gray-white to white, crypto-crystalline, some finely crystalline, non-porous, hard to soft.
9590 - 9625	Limestone, brownish-gray, crypto to micro-crystalline, hard.
9625 - 9665	Limestone, tan, micro-crystalline, soft, very slightly porous, no fluorescence, some dolomite with some vugs and some porosity.
9665 - 9680	Limestone, white, chalky, soft.
9680 - 9700	Limestone as above and dolomite, light gray, finely crystalline, vuggy porous, hard.
9700 - 9730	Dolomite as above.
9730 - 9790	Limestone, white, crypto-crystalline, chalky, soft, no porous, no fluorescence.

9790 - 9800	Limestone, brownish-gray, micro-crystalline, hard, non-porous.
9800 - 9895	Dolomite, brownish-gray grading to light gray to white, microto finely crystalline, vuggy, hard, porous.
9895 - 9955	Dolomite, dark brownish-gray, micro-crystalline, very hard, non-porous with amber chert from 9920' to 9930'.
9955 - 10,000	Limestone, light gray, crypto-crystalline, chalky, soft, sticky.

DEVONIAN---OURAY:

10,000 - 10,020	Dolomite light gray-white, tan, crypto-crystalline, hard and dark brownish-gray, micro-crystalline, hard, non-porous.
10,020 - 10,030	Tan dolomite as above and some light green shale.
10,030 - 10,040	Limestone, white, chalky, crypto-crystalline, soft and tan, dark gray, crypto-crystalline, hard.
10,040 - 10,110	As above, white only with trace of green shale partings.

ELBERT:

10,110 - 10,120	Dolomite, light gray, very finely crystalline, non-porous, firm, no fluorescence.
10,120 - 10,140	Dolomite, tan, crypto-crystalline, hard with some partings shale, pale green, slightly dolomitic, hard.
10,140 - 10,160	Dolomite, light gray-white tan, pale green, crypto to micro-crystalline, hard with some pale green shale.
10,160 - 10,185	Dolomite, brown, green, crypto-crystalline, hard.
10,185 - 10,205	Sandstone, white, very fine to very coarse grained, unsorted dolomitic, angular to rounded, tight, firm.
10,205 - 10,240	Dolomite, tan, pale green, brown, crypto to micro-crystalline, firm to hard with detrital quartz, very coarse, rounded, frosted.
10,240 - 10,285	Dolomite as above no detrital and some is light gray-white.

McCRACKEN:

10,285 - 10,290	Sandstone, white, very fine to coarse grained, angular dolomitic, tight, quartzitic with some very coarse rounded, frosted grains and sparse glauconite grains.

10,290 - 10,300	Dolomitic, white, light gray, crypto to micro-crystalline, firm to hard, some sandstone as above.
10,300 - 10,310	Dolomite, gray mottled with black, silty to sandy, firm.
10,310 - 10,340	Sandstone, white, very fine to medium grained, tight, some quartzitic, hard, angular, no fluorescence.
10,340 - 10,350	Sandstone as above, quartzitic.
10,350 - 10,375	Quartzitic, dark gray, dolomitic, very hard.

CORE LABORATORIES, INC.
Petroleum Reservoir Engineering
DALLAS, TEXAS

WATER ANALYSIS

File 746-13

Company Westcoast Oil & Gas Corp. Well Name Muleshoe #1 Sample No.

Formation Depth ± 1700' Sampled From Blooie line

Location NW 10-285-23E Field County San Juan State Utah

Date Sampled Date Analyzed 22 March 74 Engineer Richard Sheppard

Total Dissolved Solids 1413 mg/L calculated

Sp. Gr. 1.0014 @ 60 °F .9986 @ 74 °F.

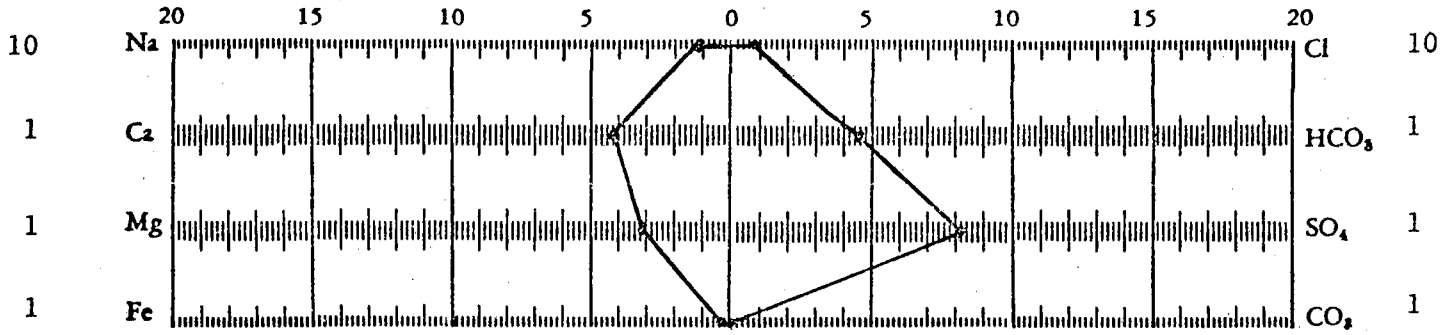
Resistivity 3.736 ohm-meters @ 74 °F. measured

Hydrogen Sulfide absent

pH 8.16 @ 74 °F.

*Constituents	meq/L	mg/L		Constituents	meq/L	mg/L	
Sodium	13.35	307		Chloride	8.52	302	
Calcium	4.14	83		Bicarbonate	4.60	281	
Magnesium	3.37	41		Sulfate	8.10	389	(Gr.
Iron	.36	10		Carbonate	-0-	-0-	
Barium	-0-	-0-	(Grav.)	Hydroxide	-0-	-0-	

*All analyses except iron determination performed on a filtered sample.



Scale: meq/L

CL-790

UTAH Oil & Gas

CORE LABORATORIES, INC.
Petroleum Reservoir Engineering
DALLAS, TEXAS

WATER ANALYSIS

File 746-13

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Iron	.36	10		Carbonate	-0-	-0-	
Barium	-0-	-0-	(Grav.)	Hydroxide	-0-	-0-	

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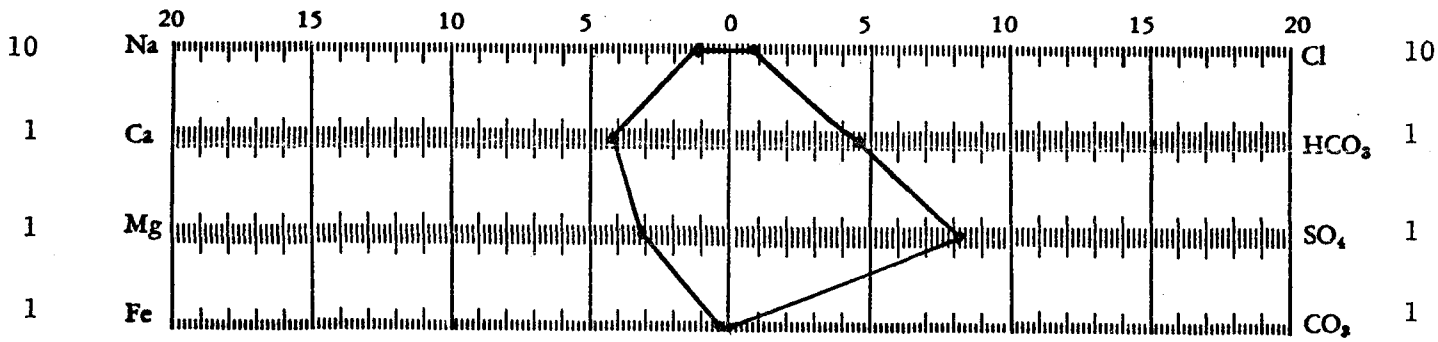


Scale: meq/L

CL-790

CHEMICAL & GEOLOGICAL LABORATORIES

P. O. Box 2794
Casper, Wyoming 82601

GAS ANALYSIS REPORT

Company: West Coast Oil & Gas Corp. Date: March 25, 1974 Lab. No. 12300-3
Well No.: Mule Shoe #1 Location: NW NW 10-28S-23E
Field: Wildcat Formation: Mississippian
County: San Juan Depth: 9619 - 9665
State: Utah Sampling point: DST No. 1
Line pressure: - psig; Sample pressure: ½ psig; Temperature: - ° F; Container number: 179 L
Remarks:

Component	With Air	Mole % or Volume % Air Free	Gallons per MCF
Oxygen	12.13	0	
Nitrogen	87.87	100.00	
Carbon dioxide	0	-	
Hydrogen sulfide	0	-	
Methane	-	-	-
Ethane	-	-	-
Propane	-	-	-
Iso-butane	-	-	-
N-butane	-	-	-
Iso-pentane	-	-	-
N-pentane	-	-	-
Hexanes & higher	-	-	-
Total	100.00	100.00	-

GPM of pentanes & higher fraction: -

Gross btu/cu. ft. @60° F. & 14.7 psia (dry basis): -
Specific gravity (calculated from analysis): 0.984 / 0.967
Specific gravity (measured): Insufficient sample / Insufficient sample

Remarks: Sample contains 57.76% air and the balance is nitrogen, no hydrocarbons in container.

FORM OGC-8-X
File in Quadruplicate

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

REPORT OF WATER ENCOUNTERED DURING DRILLING

Well Name and Number Westcoast etal Mule Shoe #1

Operator Westcoast Oil & Gas Corp.

Address 709 - 8th Avenue S.W. Calgary, Alberta Canada

Contractor Loffland Bros. Drilling Co.

Address Farmington, New Mexico

Location NW 1/4, NW 1/4; Sec. 10 ; T. 28 S; R. 23 E/W:, San Juan County.

Water Sands:

	Depth: From - To -	Volume: Flow Rate or Head -	Quality: Fresh or Salty -
1.	1040 - 1825	20 bbls/hr. estimated while air drilling.	Fresh
2.			
3.			
4.			
5.			

(Continue on Reverse Side of Necessary)

Formation Tops:

Entrada - 860'
Carmel - 1255'
Navajo - 1310'

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

FORM OGC-8-X
File in Quadruplicate

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

REPORT OF WATER ENCOUNTERED DURING DRILLING
* *

Well Name and Number Westcoast etal Mule Shoe #1

Operator Westcoast Oil & Gas Corp.

Address 709 - 8th Avenue S.W., Calgary, Alberta Canada

Contractor Loffland Bros. Drilling Co.

Address Farmington, New Mexico

Location NW 1/4, NW 1/4; Sec. 10 ; T. 28 S R. 23 E W:, San Juan County.

Water Sands:

	Depth: From - To -	Volume: Flow Rate or Head -	Quality: Fresh or Salty -
1.	9619 - 9665	15 bbls./hr.	Salty
2.	DST #1 Mississippian		
3.			
4.			
5.			

(Continue on Reverse Side of Necessary)

Formation Tops:

Mississippian - 9510'

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

Telephone (403) 269-7991

WESTCOAST OIL & GAS CORP.

Scurry-Rainbow Building
709-8th Avenue S.W.
Calgary, Alberta, Canada T2P 1H5

April 29, 1974

State of Utah
Department of Natural Resources
Division of Oil and Gas Conservation
1588 West North Temple
SALT LAKE CITY, Utah 84116

Gentlemen:

Re: Westcoast et al Muleshoe #1

With respect to the above mentioned well we are enclosing the following:

Report of Water Encountered During Drilling

Well Completion Report and Log

Notice of Abandonment

Yours very truly,

WESTCOAST OIL & GAS CORP.

W. J. Scott
Production Engineer

/ddv
Encls.

U O & G C:

These logs should be kept confidential for 6 months.

Westcoast Oil & Gas Corp.
Muleshoe #1
10-28S-23E

Gil Green

VB Gras

Helton Engineering, Inc.
CONSULTING PETROLEUM ENGINEERS AND GEOLOGISTS
301 FRATT BUILDING
BILLINGS, MONTANA 59101
PHONE (406) 259-4125

May 8, 1974

State of Utah
Department of Natural Resources
Division of Oil & Gas Conservation
1588 West North Temple
Salt Lake City, Utah 84100

Attention: Mr. Paul Burchell

Dear Sir:

Re: Westcoast etal Mule Shoe #1
San Juan County, Utah

Attached as requested is a copy of our report covering the drilling of the subject well.

Best regards,

Ken Neish

K. H. Neish
Helton Engineering, Inc.

KHN:lm

WESTCOAST OIL & GAS CORP.

Westcoast etal Mule Shoe #1
NW NW Section 10, T28S-R23E
San Juan County, Utah

MAY 10 1974

Helton Engineering, Inc.
301 Fratt Building
Billings, Montana 59101

Westcoast etal Mule Shoe #1
NW NW Section 10, T28S-R23E

WELL DATA SUMMARY

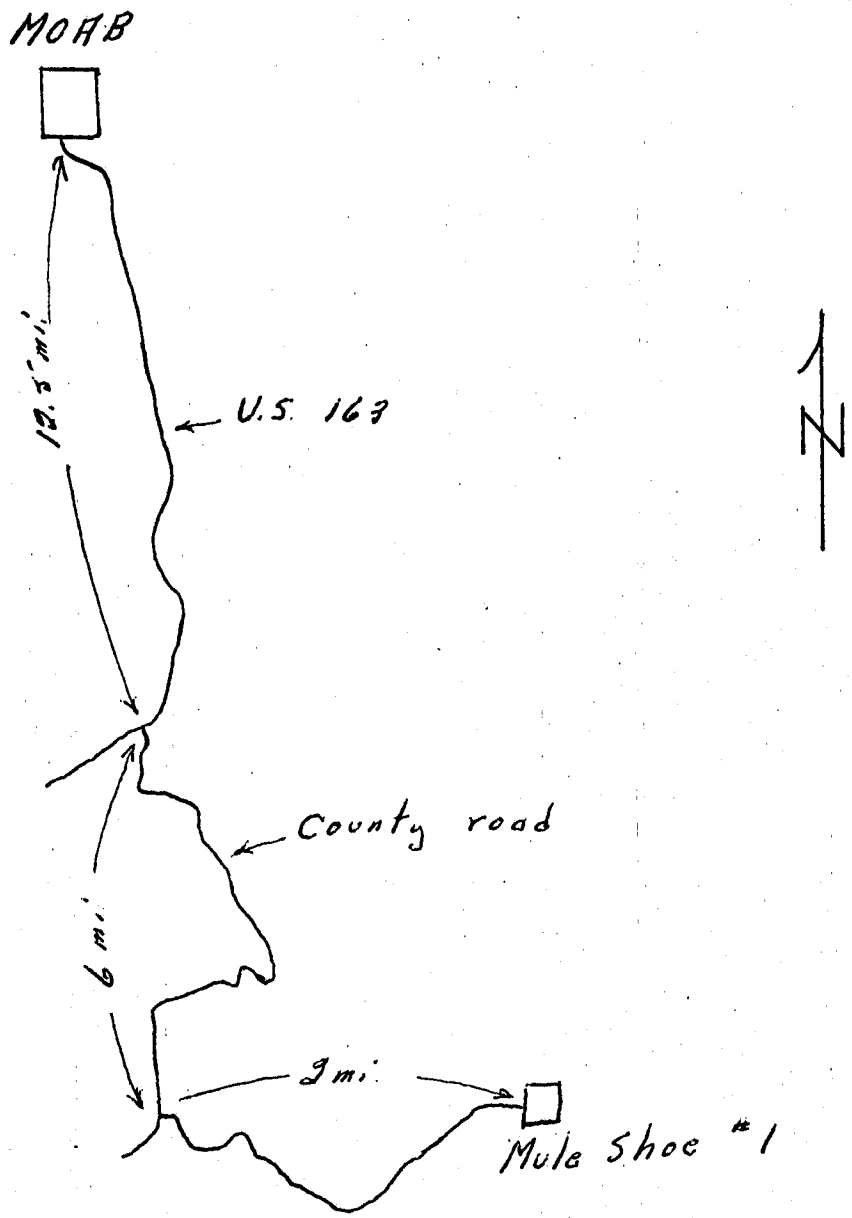
Well Name:	Westcoast etal Mule Shoe #1
Location:	NW NW Section 10, T28S-R23E San Juan County, Utah
Operator:	Westcoast Oil & Gas Corp.
Permit Number:	API #43 - 037 - 30147
Elevation:	Ground - 6385' K.B. - 6400'
Co-ordinates:	505' FNL & 720' FWL
Total Depth:	10,375'
Status:	P&A
Spud Date:	8:00 PM January 27, 1974
Rig Released:	4:00 PM April 4, 1974
Hole Size:	17½" to 355'; 12¼" to 3457'; 8¾" to 10,375'
Surface Casing:	Ran 9 joints 359', 13-3/8", 48#, H-40, Range III casing. Landed @ 355' K.B. Cemented w/325 scks + 2% $CaCl_2$. POB - 5:30 PM 1/30/74
Intermediate Casing:	Ran 94 joints 9-5/8", 32.3# & 36#, H-40 & J-55, Range III casing. Landed @ 3402' K.B. Cemented w/1553 scks Type G w/10% D534 + ¼ #/sck D29. POB - 2:45 PM 2/9/74. Recemented w/175 scks down annulus.
Logs:	Laterolog 2" & 5" 3403' to 10,368' BHC Acoustilog 2" & 5" 355' to 3,455' BHC Acoustilog 2" & 5" 3403' to 10,364' Dipmeter Velocity survey
Drill Stem Tests:	DST #1 9619' - 9665' Mississippian 10 - 60 - 150 - 300 Recovered 1970' water cushion & 2800' salt water. IHP - 5200 IFP - 914 - 1143 ISIP - 3295 FFP - 1143 - 2369 FSIP - 3295 FHP - 5185

Drill Stem Tests:	DST #2 9140 - 9361 Cane Creek Misrun. DST #3 9210 - 9370 Cane Creek 10 - 30 - 45 - 60 Recovered 1514' water cushion & 279' slightly gas cut mud. IHP - 5033 IFP - 873 - 873 ISIP - 1446 FFP - 947 - 947 FSIP - 3055 FHP - 5033
Drilling Contractor:	Loffland Brothers Drilling Co. Rig #237 Jack Gwinn - Toolpusher
Wellsite Engineer:	O. L. Gilliland & Ken Neish
Wellsite Geologist:	Victor Gras

HELTON ENGINEERING, INC.

LOCATION SKETCH

(Directions to Location)



Form 9-331 C
(May 1963)

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1425.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

5. LEASE DESIGNATION AND SERIAL NO.: U 10329

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT AGREEMENT NAME:

8. FARM OR LEASE NAME:

9. WELL NO.: Muleshoe No. 1

10. FIELD AND POOL, OR WILDCAT: Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: 10-28S-23E SLM

12. COUNTY OR PARISH: San Juan

13. STATE: Utah

1a. TYPE OF WORK: DRILL [X] DEEPEN [ ] PLUG BACK [ ]

b. TYPE OF WELL: OIL WELL [X] GAS WELL [ ] OTHER SINGLE ZONE [X] MULTIPLE ZONE [ ]

2. NAME OF OPERATOR: Westcoast Oil & Gas Corp.

3. ADDRESS OF OPERATOR: 709 - 8th Avenue S.W., Calgary, Alberta T2P 1H5

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*)
At surface: 505' from north line
720' from west line Sec. 10, Twp. 28S, Rge. 23E
At proposed prod. zone: As above

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*: From Moab, Utah approx. 13 miles SE on Hwy. #160, then turn east on road to Black Ridge for 6½ miles to location.

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any): 505 ft.

16. NO. OF ACRES IN LEASE: 2412.4

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.: no other well

19. PROPOSED DEPTH: 9,300'

20. ROTARY OR CABLE TOOLS: Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.): 6388 feet upgraded

22. APPROX. DATE WORK WILL START*: Jan. 15 - 20, 1974

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
17½"	13-3/8"	48#/ft	350'	to surface
12¼"	9-5/8"	36#/ft	3500'	to surface
8-3/4"	7"	26#/ft	9300'	500 sax (Production csg. if required)

Mud: 0 - 300 - native mud and gel
350 - 3500 - attempt to air drill
3500 - 9300 - low solids non dispersed and weight control as indicated by well conditions. Will salt saturate to drill salt zone.

Propose to drill a 9,300' test to the McCracken in search for oil.
BOP's - 900 series hydraulically activated. Double gate and bag type.
Tests to be made daily and recorded on tower sheets.

Note Attached BLM Requirements —

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 P. Eng DATE Jan 11/74

(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY: BLM APPROVAL OF SURFACE PLAN ON 1/25/74
Jerry W. Long
JERRY W. LONG
DISTRICT ENGINEER

*See Instructions On Reverse Side

U. S. GEOLOGICAL SURVEY
DURANGO, COLO.

OIL APPROVAL TO DRILL 1/25/74

COMPANY WESTCOAST OIL & GAS CORPORATION

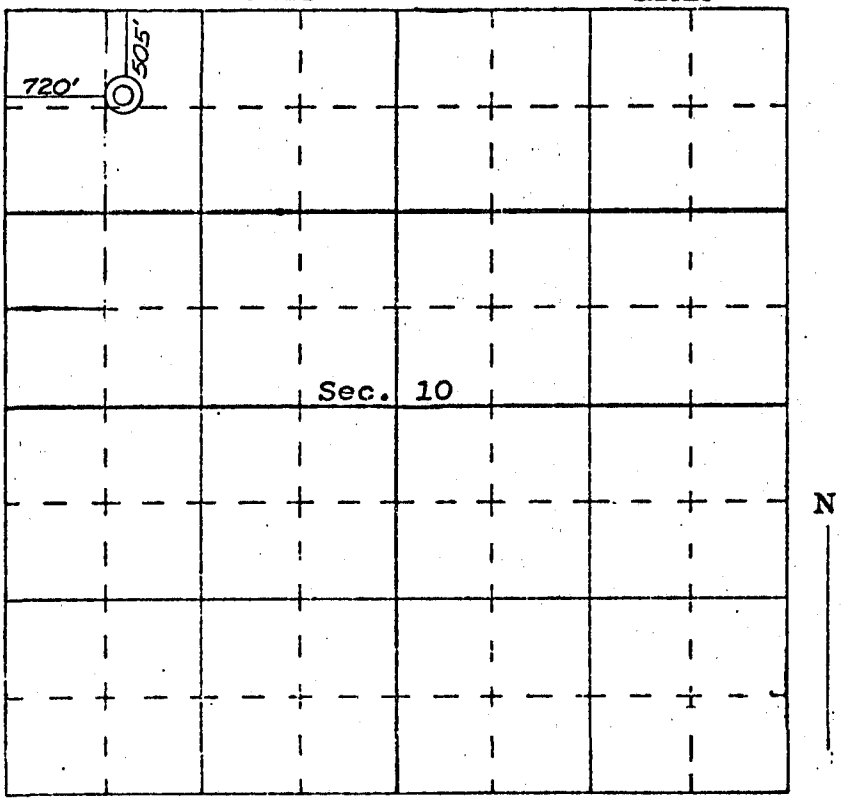
LEASE MULESHOE WELL NO. 1

SEC. 10, T. 28 South, R. 23 East, S.L.M.

LOCATION 505 Feet from the North line and
720 Feet from the West line

ELEVATION 6388 Ungraded Ground

SAN JUAN COUNTY UTAH



SCALE—4 INCHES EQUALS 1 MILE

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

Registered Land Surveyor.

JAMES P. LEESE
UTAH REG. NO. 1472

SURVEYED 11 December, 19 73

SAN JUAN ENGINEERING COMPANY, FARMINGTON, N. M.

HELTON ENGINEERING, INC.

DAILY WELL REPORT
(AS OF 8:00 A.M.)

WELL Westcoast etal Mule Shoe #1 DAY No. 1 DATE 1/28/74

DEPTH 40 FEET MADE 40 HRS. ON BOTTOM 10

OPERATION Drilling

SURVEYS

LAST PIPE TALLY _____ BOARD _____ CORRECTION: YES ____ NO ____

WT. OF STRING M LBS. _____ WT. ON BIT M LBS. 3 ROTARY RPM 120

PUMP No. 1 Emsco D700 IN USE x LINERS 6½ x 16 SPM 60 PRESS. 150

PUMP No. 2 _____ IN USE _____ LINERS _____ SPM _____ PRESS. _____

DRILL PIPE O.D. 4½ THD. XH DRILL COLLARS O.D. 9 THD. _____ No. IN HOLE 1

BIT No.	SIZE	TYPE	DEPTH IN	DEPTH OUT	FT. MADE	TOTAL HRS. RUN	JET SIZE IN 32nds	COND T	COND B	COND G	REMARKS
1A	12¼	DGJ	0		40	10	3-15/32				Running
REAM BIT No.											
CORE No.							FEET CUT	FEET REC.			

MUD Water

WT. ____ VIS ____ WL ____ GEL ____ FC ____

PH ____ APP VIS ____ PLAS VIS ____ YLD. PT. ____

WATER ____ OIL ____ CL- ____ PPM

SOLIDS ____ SAND ____ CA ++ ____ PPM

DESILTER ____ hr. OUT ____ LB./GAL.

DESANDER ____ hr. OUT ____ LB./GAL.

DEGASSER ____ hr. OUT ____ LB./GAL.

TOT MUD DUMPED ____ bbls/day ____

MUD ADDED

RIG TIME

1. DRILLING 10
2. TRIPPING
3. SERVICE & BOPS
4. REAMING
5. SLIP & CUTLINE
6. SURVEYING
7. CIRCULATING
8. CLEAN TO BTM
9. COND. MUD
10. REPAIRING
11. CORING
12. TESTING
13. LOGGING
14. CASING
15. W.O.C.

OTHERS (SPECIFY)

16.
17.
18.
19.
20.

DRILLING & GEOLOGICAL REMARKS (Sequence of Operations to be inserted below)

Rigged up Loffland Brothers Drilling Co. Rig #237
Drilled 12¼" hole from surface to 40'.

Spudded 8:00 PM 1/27/74

WEATHER: TEMP. ____ °F

FORM No. 15R

HELTON ENGINEERING, INC.

DAILY WELL REPORT

(AS OF 8:00 A.M.)

WELL Westcoast etal Mule Shoe #1 DAY No. 2 DATE 1/29/74

DEPTH 380 FEET MADE 340 HRS. ON BOTTOM 22

OPERATION Drilling

SURVEYS								
	60	¾	380	1¼				
	150	¾						

LAST PIPE TALLY _____ BOARD _____ CORRECTION: YES ____ NO ____

WT. OF STRING M LBS. _____ WT. ON BIT M LBS. 35 ROTARY RPM 120

PUMP No. 1 Emsco D700 IN USE X LINERS 6½ x 16 SPM 60 PRESS. 450

PUMP No. 2 _____ IN USE _____ LINERS _____ SPM _____ PRESS. _____

DRILL PIPE O.D. 4½ THD. XH DRILL COLLARS O.D. 8" & 9" THD. _____ No. IN HOLE 6

BIT No.	SIZE	TYPE	DEPTH IN	DEPTH OUT	FT. MADE	TOTAL HRS. RUN	JET SIZE IN 32nds	CONC T	CONC B	CONC G	REMARKS
1A	12¼	DGJ	0	41	41	12	3-15/32	6	4	I	
2A	12¼	ODVJ	41	380	339	20	3-15/32	6	4	I	
REAM BIT No.											
CORE No.							FEET CUT	FEET REC.			

MUD Gel-Water

WT. 8.7 VIS 36 WL _____ GEL _____ FC _____

PH _____ APP VIS _____ PLAS VIS _____ YLD. PT. _____

WATER _____ OIL _____ CL- _____ PPM

SOLIDS _____ SAND _____ CA + + _____ PPM

DESILTER _____ hr. OUT _____ LB./GAL.

DESANDER _____ hr. OUT _____ LB./GAL.

DEGASSER _____ hr. OUT _____ LB./GAL.

TOT MUD DUMPED _____ bbls/day _____

MUD ADDED Gel - 24
Benex - 6
Lime - 4

RIG TIME

1. DRILLING	22	6. SURVEYING	1	11. CORING		OTHERS (SPECIFY) 16.	
2. TRIPPING	1	7. CIRCULATING		12. TESTING		17.	
3. SERVICE & BOPS		8. CLEAN TO BTM		13. LOGGING		18.	
4. REAMING		9. COND. MUD		14. CASING		19.	
5. SLIP & CUTLINE		10. REPAIRING		15. W.O.C.		20.	

DRILLING & GEOLOGICAL REMARKS (Sequence of Operations to be inserted below)

Drilled 12¼" hole from 40' to 41'. Pulled bit #1A and ran in with bit #2A.
Drilled 12¼" hole from 41' to 380'.

WEATHER: TEMP. _____ °F

FORM No. 15R

HELTON ENGINEERING, INC.

DAILY WELL REPORT

(AS OF 8:00 A.M.)

WELL Westcoast etal Mule Shoe #1 DAY No. 3 DATE 1/30/74

DEPTH 380 FEET MADE ---- HRS. ON BOTTOM 17

OPERATION Reaming to 17½" @ 280'

SURVEYS

LAST PIPE TALLY _____ BOARD _____ CORRECTION: YES ____ NO ____

WT. OF STRING M LBS. _____ WT. ON BIT M LBS. 35 ROTARY RPM 120

PUMP No. 1 D700 IN USE X LINERS 6½ x 16 SPM 60 PRESS. 200

PUMP No. 2 D500 IN USE _____ LINERS _____ SPM _____ PRESS. _____

DRILL PIPE O.D. 4½ THD. XH DRILL COLLARS O.D. 8" & 9" THD. _____ No. IN HOLE 6

BIT No.	SIZE	TYPE	DEPTH IN	DEPTH OUT	FT. MADE	TOTAL HRS. RUN	JET SIZE IN 32nds	COND T	COND B	COND G	REMARKS
REAM BIT No.											
3A	17½	Hole opener	0		230	14½					
4A	17½	Hole opener	230		50	2½	FEET CUT	FEET REC.			

MUD Gel-water

WT. 9.1 VIS 35 WL _____ GEL _____ FC _____

PH _____ APP VIS _____ PLAS VIS _____ YLD. PT. _____

WATER _____ OIL _____ CL- _____ PPM

SOLIDS _____ SAND _____ CA + + _____ PPM

DESILTER _____ hr. OUT _____ LB./GAL.

DESANDER _____ hr. OUT _____ LB./GAL.

DEGASSER _____ hr. OUT _____ LB./GAL.

TOT MUD DUMPED _____ bbls/day _____

MUD ADDED

RIG TIME

1. DRILLING _____
2. TRIPPING 1½
3. SERVICE & BOPS _____
4. REAMING 17
5. SLIP & CUTLINE _____
6. SURVEYING _____
7. CIRCULATING _____
8. CLEAN TO BTM _____
9. COND. MUD _____
10. REPAIRING _____
11. CORING _____
12. TESTING _____
13. LOGGING _____
14. CASING _____
15. W.O.C. _____

OTHERS (SPECIFY)

16. Work on pump - 5½
17. _____
18. _____
19. _____
20. _____

DRILLING & GEOLOGICAL REMARKS (Sequence of Operations to be inserted below)

Pulled bit #2A. Reamed 12¼" hole to 17½" from surface to 230'. Changed liners and swabs in D500 pump. Pulled bit #3A (Security HD hole opener) and ran in with bit #4A (Security 3 point hole opener). Reamed 12¼" hole to 17½" from 230' to 280'.

WEATHER: TEMP. _____ °F _____

FORM No. 15R

HELTON ENGINEERING, INC.

DAILY WELL REPORT
(AS OF 8:00 A.M.)

WELL Westcoast etal Mule Shoe #1 DAY No. 4 DATE 1/31/74

DEPTH 380 FEET MADE ---- HRS. ON BOTTOM 3¾

OPERATION WOC

SURVEYS

LAST PIPE TALLY _____ BOARD _____ CORRECTION: YES ____ NO ____

WT. OF STRING M LBS. _____ WT. ON BIT M LBS. 30 ROTARY RPM 120

PUMP No. 1 D700 IN USE X LINERS 6½ x 16 SPM 60 PRESS. 300

PUMP No. 2 _____ IN USE _____ LINERS _____ SPM _____ PRESS. _____

DRILL PIPE O.D. 4½ THD. XH DRILL COLLARS O.D. 8" & 9" THD. _____ No. IN HOLE 7

BIT No.	SIZE	TYPE	DEPTH IN	DEPTH OUT	FT. MADE	TOTAL HRS. RUN	JET SIZE IN 32nds	CONC T	CONC B	CONC G	REMARKS
REAM BIT No.											
4A	17½	Hole opener	230	355	125	6¼					
CORE No.							FEET CUT	FEET REC.			

MUD Gel-water

WT. 9.2 VIS 35 WL _____ GEL _____ FC _____

PH _____ APP VIS _____ PLAS VIS _____ YLD. PT. _____

WATER _____ OIL _____ CL- _____ PPM

SOLIDS _____ SAND _____ CA ++ _____ PPM

DESILTER _____ hr. OUT _____ LB./GAL.

DESANDER _____ hr. OUT _____ LB./GAL.

DEGASSER _____ hr. OUT _____ LB./GAL.

TOT MUD DUMPED _____ bbls/day _____

MUD ADDED

RIG TIME

1. DRILLING		6. SURVEYING		11. CORING		OTHERS (SPECIFY) 16.	
2. TRIPPING	1	7. CIRCULATING	1	12. TESTING		17.	
3. SERVICE & BOPS		8. CLEAN TO BTM		13. LOGGING		18.	
4. REAMING	3¾	9. COND. MUD		14. CASING	5½	19.	
5. SLIP & CUTLINE		10. REPAIRING		15. W.O.C.	12¾	20.	

DRILLING & GEOLOGICAL REMARKS (Sequence of Operations to be inserted below)

Reamed 12¼" hole to 17½" from 280' to 355'. Pulled bit #4A. Ran and cemented 13-3/8" surface casing.

Ran 9 joints 359', 13-3/8", 48#, H-40, Range III casing. Landed @ 355' K.B.
Cemented w/325 scks regular cement + 2% $CaCl_2$. POB - 5:30 PM 1/30/74.
Used guide shoe, float collar and 4 centralizers. Good cement returns.

WEATHER: TEMP. _____ °F _____

FORM NO. 15R

HELTON ENGINEERING, INC.

DAILY WELL REPORT

(AS OF 8:00 A.M.)

WELL Westcoast etal Mule Shoe #1 DAY No. 5 DATE 2/1/74

DEPTH 380 FEET MADE ---- HRS. ON BOTTOM ----

OPERATION Nippling up

SURVEYS								

LAST PIPE TALLY _____ BOARD _____ CORRECTION: YES ____ NO ____

WT. OF STRING M LBS. _____ WT. ON BIT M LBS. _____ ROTARY RPM _____

PUMP No. 1 _____ IN USE _____ LINERS _____ SPM _____ PRESS. _____

PUMP No. 2 _____ IN USE _____ LINERS _____ SPM _____ PRESS. _____

DRILL PIPE O.D. _____ THD. _____ DRILL COLLARS O.D. _____ THD. _____ No. IN HOLE _____

BIT No.	SIZE	TYPE	DEPTH IN	DEPTH OUT	FT. MADE	TOTAL HRS. RUN	JET SIZE IN 32nds	COND T	COND B	COND G	REMARKS
REAM BIT No.											
CORE No.							FEET CUT	FEET REC.			

MUD

WT. _____ VIS _____ WL _____ GEL _____ FC _____

PH _____ APP VIS _____ PLAS VIS _____ YLD. PT. _____

WATER _____ OIL _____ CL- _____ PPM

SOLIDS _____ SAND _____ CA + + _____ PPM

DESILTER _____ hr. OUT _____ LB./GAL.

DESANDER _____ hr. OUT _____ LB./GAL.

DEGASSER _____ hr. OUT _____ LB./GAL.

TOT MUD DUMPED _____ bbls/day _____

MUD ADDED

RIG TIME

1. DRILLING		6. SURVEYING		11. CORING		OTHERS (SPECIFY) 16.	WO Hydril - 5
2. TRIPPING		7. CIRCULATING		12. TESTING		17.	
3. SERVICE & BOPS		8. CLEAN TO BTM		13. LOGGING		18.	
4. REAMING		9. COND. MUD		14. CASING		19.	
5. SLIP & CUTLINE		10. REPAIRING		15. W.O.C.	19	20.	

DRILLING & GEOLOGICAL REMARKS (Sequence of Operations to be inserted below)

Nippled up and waited on Hydril BOP and spool.

WEATHER: TEMP. _____ °F _____

FORM No. 15R

HELTON ENGINEERING, INC.

DAILY WELL REPORT
(AS OF 8:00 A.M.)

WELL Westcoast etal Mule Shoe #1 DAY No. 6 DATE 2/2/74

DEPTH 600 FEET MADE 220 HRS. ON BOTTOM 9½

OPERATION Drilling w/air

SURVEYS

LAST PIPE TALLY _____ BOARD _____ CORRECTION: YES ____ NO ____

WT. OF STRING M LBS. 65 WT. ON BIT M LBS. 30 ROTARY RPM 60

PUMP No. 1 _____ IN USE _____ LINERS _____ SPM _____ PRESS. _____

PUMP No. 2 _____ IN USE _____ LINERS _____ SPM _____ PRESS. _____

DRILL PIPE O.D. 4½ THD. XH DRILL COLLARS O.D. 8" & 9" THD. _____ No. IN HOLE 9

BIT No.	SIZE	TYPE	DEPTH IN	DEPTH OUT	FT. MADE	TOTAL HRS. RUN	JET SIZE IN 32nds	COND T	COND B	COND G	REMARKS
1	12¼	YHG	380		220	9½	none				Running
REAM BIT No.											
CORE No.							FEET CUT	FEET REC.			

MUD Air

WT. _____ VIS _____ WL _____ GEL _____ FC _____

PH _____ APP VIS _____ PLAS VIS _____ YLD. PT. _____

WATER _____ OIL _____ CL-- _____ PPM

SOLIDS _____ SAND _____ CA + + _____ PPM

DESILTER _____ hr. OUT _____ LB./GAL.

DESANDER _____ hr. OUT _____ LB./GAL.

DEGASSER _____ hr. OUT _____ LB./GAL.

TOT MUD DUMPED _____ bbls/day _____

MUD ADDED

RIG TIME

1. DRILLING 9½
2. TRIPPING 4½
3. SERVICE & BOPS
4. REAMING
5. SLIP & CUTLINE
6. SURVEYING
7. CIRCULATING
8. CLEAN TO BTM
9. COND. MUD
10. REPAIRING
11. CORING
12. TESTING
13. LOGGING
14. CASING
15. W.O.C.

OTHERS (SPECIFY)

16. Nipple up & press test BOP's - 10
17.
18.
19.
20.

DRILLING & GEOLOGICAL REMARKS (Sequence of Operations to be inserted below)

Finished nippling up BOP's. Ran in w/12¼" bit to plug. Pressure tested BOP's and manifold to 2000 psi. Drilled out cement and cleaned out rat hole to 380'. Pressure tested to 200 psi. w/air. Tripped out and put shock sub, reamer and 1 stabilizer in string. Ran in and drilled 12¼" hole from 380' to 600' with air mist. 2100 cfm @ 80 psi.

WEATHER: TEMP. _____ °F _____

FORM No. 15R

HELTON ENGINEERING, INC.

DAILY WELL REPORT

(AS OF 8:00 A.M.)

WELL Westcoast etal Mule Shoe #1 DAY No. 8 DATE 2/4/74

DEPTH 1825 FEET MADE 785 HRS. ON BOTTOM 22½

OPERATION Drilling

SURVEYS								
	1244	1½						
	1754	1¾						

LAST PIPE TALLY _____ BOARD _____ CORRECTION: YES ____ NO ____

WT. OF STRING M LBS. 83 WT. ON BIT M LBS. 35 ROTARY RPM 60

PUMP No. 1 _____ IN USE _____ LINERS _____ SPM _____ PRESS. _____

PUMP No. 2 _____ IN USE _____ LINERS _____ SPM _____ PRESS. _____

DRILL PIPE O.D. 4½ THD. XH DRILL COLLARS O.D. 8" & 9" THD. _____ No. IN HOLE 9

BIT No.	SIZE	TYPE	DEPTH IN	DEPTH OUT	FT. MADE	TOTAL HRS. RUN	JET SIZE IN 32nds			CONC T	CONC B	CONC G	REMARKS
2	12¼	SCH5J	781		1044	31½							Running
REAM BIT No.													
CORE No.							FEET CUT			FEET REC.			

MUD Air-mist

WT. _____ VIS _____ WL _____ GEL _____ FC _____

PH _____ APP VIS _____ PLAS VIS _____ YLD. PT. _____

WATER _____ OIL _____ CL- _____ PPM

SOLIDS _____ SAND _____ CA + + _____ PPM

DESILTER _____ hr. OUT _____ LB./GAL.

DESANDER _____ hr. OUT _____ LB./GAL.

DEGASSER _____ hr. OUT _____ LB./GAL.

TOT MUD DUMPED _____ bbls/day _____

MUD ADDED

RIG TIME

1. DRILLING	22½	6. SURVEYING	1½	11. CORING		OTHERS (SPECIFY) 16.	
2. TRIPPING		7. CIRCULATING		12. TESTING		17.	
3. SERVICE & BOPS		8. CLEAN TO BTM		13. LOGGING		18.	
4. REAMING		9. COND. MUD		14. CASING		19.	
5. SLIP & CUTLINE		10. REPAIRING		15. W.O.C.		20.	

DRILLING & GEOLOGICAL REMARKS (Sequence of Operations to be inserted below)

Drilled 12¼" hole from 1040' to 1825' w/air 2100 cfm @ 275 psi

Bottom hole assembly: 1 square drill collar, reamer, stabilizer, shock sub, 7-8" drill collars and 2-9" drill collars.

WEATHER: TEMP. _____ °F _____

FORM NO. 15R

HELTON ENGINEERING, INC.

DAILY WELL REPORT

(AS OF 8:00 A.M.)

WELL Westcoast etal Mule Shoe #1 DAY No. 9 DATE 2/5/74

DEPTH 2470 FEET MADE 645 HRS. ON BOTTOM 23¼

OPERATION Drilling

SURVEYS								
	2259	2¼						

LAST PIPE TALLY _____ BOARD _____ CORRECTION: YES ____ NO ____

WT. OF STRING M LBS. 95 WT. ON BIT M LBS. 35 ROTARY RPM 60

PUMP No. 1 _____ IN USE _____ LINERS _____ SPM _____ PRESS. _____

PUMP No. 2 _____ IN USE _____ LINERS _____ SPM _____ PRESS. _____

DRILL PIPE O.D. 4½ THD. XH DRILL COLLARS O.D. 8" & 9" THD. _____ No. IN HOLE 9

BIT No.	SIZE	TYPE	DEPTH IN	DEPTH OUT	FT. MADE	TOTAL HRS. RUN	JET SIZE IN 32nds			COND T	COND B	COND G	REMARKS
2	12¼	SCH5J	781		1689	54¾							Running
REAM BIT No.													
CORE No.							FEET CUT			FEET REC.			

MUD Air-mist

WT. _____ VIS _____ WL _____ GEL _____ FC _____

PH _____ APP VIS _____ PLAS VIS _____ YLD. PT. _____

WATER _____ OIL _____ CL- _____ PPM

SOLIDS _____ SAND _____ CA ++ _____ PPM

DESILTER _____ hr. OUT _____ LB./GAL.

DESANDER _____ hr. OUT _____ LB./GAL.

DEGASSER _____ hr. OUT _____ LB./GAL.

TOT MUD DUMPED _____ bbls/day _____

MUD ADDED

RIG TIME

1. DRILLING 23¼
2. TRIPPING
3. SERVICE & BOPS
4. REAMING
5. SLIP & CUTLINE
6. SURVEYING ¾
7. CIRCULATING
8. CLEAN TO BTM
9. COND. MUD
10. REPAIRING
11. CORING
12. TESTING
13. LOGGING
14. CASING
15. W.O.C.

OTHERS (SPECIFY)

16.
17.
18.
19.
20.

DRILLING & GEOLOGICAL REMARKS (Sequence of Operations to be inserted below)

Drilled 12¼" hole from 1825' to 2470' w/air 2100 cfm @ 300 psi.

WEATHER: TEMP. _____ °F

FORM No. 15R

HELTON ENGINEERING, INC.

DAILY WELL REPORT
(AS OF 8:00 A.M.)

WELL Westcoast etal Mule Shoe #1 DAY No. 10 DATE 2/6/74

DEPTH 2920 FEET MADE 450 HRS. ON BOTTOM 19

OPERATION Drilling

SURVEYS

LAST PIPE TALLY _____ BOARD _____ CORRECTION: YES ____ NO ____

WT. OF STRING M LBS. 101,000 WT. ON BIT M LBS. 35 ROTARY RPM 60

PUMP No. 1 _____ IN USE _____ LINERS _____ SPM _____ PRESS. _____

PUMP No. 2 _____ IN USE _____ LINERS _____ SPM _____ PRESS. _____

DRILL PIPE O.D. 4½ THD. XH DRILL COLLARS O.D. 8" & 9" THD. _____ No. IN HOLE 9

BIT No.	SIZE	TYPE	DEPTH IN	DEPTH OUT	FT. MADE	TOTAL HRS. RUN	JET SIZE IN 32nds	COND T	COND B	COND G	REMARKS
2	12¼	SCH5J	781		2139	73¾					Running
REAM BIT No.											
CORE No.							FEET CUT	FEET REC.			

MUD Air-mist

WT. ____ VIS ____ WL ____ GEL ____ FC ____

PH ____ APP VIS ____ PLAS VIS ____ YLD. PT. ____

WATER ____ OIL ____ CL- ____ PPM

SOLIDS ____ SAND ____ CA ++ ____ PPM

DESILTER ____ hr. OUT ____ LB./GAL.

DESANDER ____ hr. OUT ____ LB./GAL.

DEGASSER ____ hr. OUT ____ LB./GAL.

TOT MUD DUMPED ____ bbls/day ____

MUD ADDED

RIG TIME

1. DRILLING 19
2. TRIPPING
3. SERVICE & BOPS
4. REAMING
5. SLIP & CUTLINE
6. SURVEYING 1¼
7. CIRCULATING
8. CLEAN TO BTM
9. COND. MUD
10. REPAIRING
11. CORING
12. TESTING
13. LOGGING
14. CASING
15. W.O.C.

OTHERS (SPECIFY)

16. Blowing well - 1¾
17. Work on comp - 2
18.
19.
20.

DRILLING & GEOLOGICAL REMARKS (Sequence of Operations to be inserted below)

Drilled 12¼" hole from 2470' to 2920' w/air 2100 cfm @ 300 psi. Circulated air blowing well clean. Pulled 15 stands and repaired booster.

WEATHER: TEMP. ____ °F ____

FORM No. 15R

HELTON ENGINEERING, INC.

DAILY WELL REPORT

(AS OF 8:00 A.M.)

WELL Westcoast etal Mule Shoe #1 DAY No. 11 DATE 2/7/74

DEPTH 3300 FEET MADE 380 HRS. ON BOTTOM 15¼

OPERATION Drilling

SURVEYS

LAST PIPE TALLY _____ BOARD _____ CORRECTION: YES ____ NO ____

WT. OF STRING M LBS. 107,000 WT. ON BIT M LBS. 40 ROTARY RPM 60

PUMP No. 1 _____ IN USE _____ LINERS _____ SPM _____ PRESS. _____

PUMP No. 2 _____ IN USE _____ LINERS _____ SPM _____ PRESS. _____

DRILL PIPE O.D. 4½ THD. XH DRILL COLLARS O.D. 8" & 9" THD. _____ No. IN HOLE 9

BIT No.	SIZE	TYPE	DEPTH IN	DEPTH OUT	FT. MADE	TOTAL HRS. RUN	JET SIZE IN 32nds			COND T	COND B	COND G	REMARKS
2	12¼	SCH5J	781	3207	2426	86				2	8		
3	12¼	T2H J	3207		93	3							Running
REAM BIT No.													
CORE No.							FEET CUT			FEET REC.			

MUD Air-mist

WT. _____ VIS _____ WL _____ GEL _____ FC _____

PH _____ APP VIS _____ PLAS VIS _____ YLD. PT. _____

WATER _____ OIL _____ CL- _____ PPM

SOLIDS _____ SAND _____ CA ++ _____ PPM

DESILTER _____ hr. OUT _____ LB./GAL.

DESANDER _____ hr. OUT _____ LB./GAL.

DEGASSER _____ hr. OUT _____ LB./GAL.

TOT MUD DUMPED _____ bbls/day _____

MUD ADDED

RIG TIME

1. DRILLING 15¾
2. TRIPPING 5¾
3. SERVICE & BOPS
4. REAMING
5. SLIP & CUTLINE
6. SURVEYING
7. CIRCULATING
8. CLEAN TO BTM 3
9. COND. MUD
10. REPAIRING
11. CORING
12. TESTING
13. LOGGING
14. CASING
15. W.O.C.

OTHERS (SPECIFY)

16.
17.
18.
19.
20.

DRILLING & GEOLOGICAL REMARKS (Sequence of Operations to be inserted below)

Drilled 12¼" hole from 2920' to 3207'. Pulled bit #2 and ran in w/bit #3.
Reamed and washed 240' to bottom. Drilled from 3207' to 3300'.

WEATHER: TEMP. _____ °F

FORM No. 15R

HELTON ENGINEERING, INC.

DAILY WELL REPORT
(AS OF 8:00 A.M.)

WELL Westcoast etal Mule Shoe #1 DAY No. 12 DATE 2/8/74

DEPTH 3457 FEET MADE 157 HRS. ON BOTTOM 8

OPERATION Tripping

SURVEYS								
	3457	2¼						

LAST PIPE TALLY _____ BOARD _____ CORRECTION: YES ____ NO ____

WT. OF STRING M LBS. 110,000 WT. ON BIT M LBS. 45 ROTARY RPM 60

PUMP No. 1 _____ IN USE _____ LINERS _____ SPM _____ PRESS. _____

PUMP No. 2 _____ IN USE _____ LINERS _____ SPM _____ PRESS. _____

DRILL PIPE O.D. 4½ THD. XH DRILL COLLARS O.D. 8" & 9" THD. _____ No. IN HOLE 9

BIT No.	SIZE	TYPE	DEPTH IN	DEPTH OUT	FT. MADE	TOTAL HRS. RUN	JET SIZE IN 32nds			COND T	COND B	COND G	REMARKS
3	12¼	T2H J	3207	3457	250	11				1	3	I	
REAM BIT No.													
CORE No.							FEET CUT			FEET REC.			

MUD

WT. 8.6 VIS 48 WL _____ GEL _____ FC _____

PH _____ APP VIS _____ PLAS VIS _____ YLD. PT. _____

WATER _____ OIL _____ CL-- _____ PPM

SOLIDS _____ SAND _____ CA + + _____ PPM

DESILTER _____ hr. OUT _____ LB./GAL.

DESANDER _____ hr. OUT _____ LB./GAL.

DEGASSER _____ hr. OUT _____ LB./GAL.

TOT MUD DUMPED _____ bbls/day _____

MUD ADDED

RIG TIME

1. DRILLING 8
2. TRIPPING 3
3. SERVICE & BOPS _____
4. REAMING _____
5. SLIP & CUTLINE _____
6. SURVEYING ¾
7. CIRCULATING ½
8. CLEAN TO BTM _____
9. COND. MUD _____
10. REPAIRING _____
11. CORING _____
12. TESTING _____
13. LOGGING 1¼
14. CASING _____
15. W.O.C. _____

OTHERS (SPECIFY)

16. Blowing well & mixing mud - 10½
17. _____
18. _____
19. _____
20. _____

DRILLING & GEOLOGICAL REMARKS (Sequence of Operations to be inserted below)

Drilled 12¼" hole from 3300' to 3457' w/air. Pulled out to log. Hit bridge @ 2900' w/logging tool. Ran in hole and blew well while mixing pit of mud.

WEATHER: TEMP. _____ °F _____

FORM No. 15R

HELTON ENGINEERING, INC.

DAILY WELL REPORT

(AS OF 8:00 A.M.)

WELL Westcoast etal Mule Shoe #1 DAY No. 13 DATE 2/9/74

DEPTH 3457 FEET MADE --- HRS. ON BOTTOM ---

OPERATION Running 9-5/8" casing

SURVEYS

LAST PIPE TALLY _____ BOARD _____ CORRECTION: YES ____ NO ____

WT. OF STRING M LBS. _____ WT. ON BIT M LBS. _____ ROTARY RPM _____

PUMP No. 1 _____ IN USE _____ LINERS _____ SPM _____ PRESS. _____

PUMP No. 2 _____ IN USE _____ LINERS _____ SPM _____ PRESS. _____

DRILL PIPE O.D. 4½ THD. XH DRILL COLLARS O.D. _____ THD. _____ No. IN HOLE _____

BIT No.	SIZE	TYPE	DEPTH IN	DEPTH OUT	FT. MADE	TOTAL HRS. RUN	JET SIZE IN 32nds	COND T	COND B	COND G	REMARKS
REAM BIT No.											
CORE No.							FEET CUT	FEET REC.			

MUD Gel-water

WT. 8.7 VIS 50 WL _____ GEL _____ FC _____

PH _____ APP VIS _____ PLAS VIS _____ YLD. PT. _____

WATER _____ OIL _____ CL- _____ PPM

SOLIDS _____ SAND _____ CA + + _____ PPM

DESILTER _____ hr. OUT _____ LB./GAL.

DESANDER _____ hr. OUT _____ LB./GAL.

DEGASSER _____ hr. OUT _____ LB./GAL.

TOT MUD DUMPED _____ bbls/day _____

MUD ADDED Gel - 216 Kwik seal - 40
Sawdust - 80 Cottonseed Hulls - 25

RIG TIME

1. DRILLING _____
2. TRIPPING _____
3. SERVICE & BOPS _____
4. REAMING _____
5. SLIP & CUTLINE _____
6. SURVEYING _____
7. CIRCULATING 7
8. CLEAN TO BTM 4¾
9. COND. MUD _____
10. REPAIRING _____
11. CORING _____
12. TESTING _____
13. LOGGING 4¼
14. CASING 6
15. W.O.C. _____

OTHERS (SPECIFY)

16. Mix mud - 2
17. _____
18. _____
19. _____
20. _____

DRILLING & GEOLOGICAL REMARKS (Sequence of Operations to be inserted below)

Mixed mud and cleaned out bridges from 2900' to 3457'. Ran Dresser BHC Acoustilog, could not get to bottom w/Density log. Started running 9-5/8" casing.

WEATHER: TEMP. _____ °F _____

FORM No. 15R

HELTON ENGINEERING, INC.

DAILY WELL REPORT

(AS OF 8:00 A.M.)

WELL Westcoast etal Mule Shoe #1 DAY No. 14 DATE 2/10/74

DEPTH 3457 FEET MADE --- HRS. ON BOTTOM ---

OPERATION WOC & nippling up

SURVEYS								

LAST PIPE TALLY _____ BOARD _____ CORRECTION: YES ____ NO ____

WT. OF STRING M LBS. _____ WT. ON BIT M LBS. _____ ROTARY RPM _____

PUMP No. 1 _____ IN USE _____ LINERS _____ SPM _____ PRESS. _____

PUMP No. 2 _____ IN USE _____ LINERS _____ SPM _____ PRESS. _____

DRILL PIPE O.D. _____ THD. _____ DRILL COLLARS O.D. _____ THD. _____ No. IN HOLE _____

BIT No.	SIZE	TYPE	DEPTH IN	DEPTH OUT	FT. MADE	TOTAL HRS. RUN	JET SIZE IN 32nds			COND T	COND B	COND G	REMARKS
REAM BIT No.													
CORE No.							FEET CUT			FEET REC.			

MUD

WT. _____ VIS _____ WL _____ GEL _____ FC _____

PH _____ APP VIS _____ PLAS VIS _____ YLD. PT. _____

WATER _____ OIL _____ CL-- _____ PPM

SOLIDS _____ SAND _____ CA + + _____ PPM

DESILTER _____ hr. OUT _____ LB./GAL.

DESANDER _____ hr. OUT _____ LB./GAL.

DEGASSER _____ hr. OUT _____ LB./GAL.

TOT MUD DUMPED _____ bbls/day _____

MUD ADDED

RIG TIME

1. DRILLING		6. SURVEYING		11. CORING		OTHERS (SPECIFY) 16.	
2. TRIPPING		7. CIRCULATING		12. TESTING		17.	
3. SERVICE & BOPS		8. CLEAN TO BTM		13. LOGGING		18.	
4. REAMING		9. COND. MUD		14. CASING	10	19.	
5. SLIP & CUTLINE		10. REPAIRING		15. W.O.C.	14	20.	

DRILLING & GEOLOGICAL REMARKS (Sequence of Operations to be inserted below)

Ran and cemented 9-5/8" intermediate casing. WOC and started nippling up.

Ran 94 jts 9-5/8", 32.3#, and 36# H-40 and J-55, Range III casing. Landed @ 3402' K.B. Cemented w/1553 scks Type G w/10% D534 and ¼# D29/sck POB - 2:45 PM 2/9/74. No cement returns. Recemented w/175 scks neat cement down annulus.

WEATHER: TEMP. _____ °F _____

FORM No. 15R

HELTON ENGINEERING, INC.

DAILY WELL REPORT
(AS OF 8:00 A.M.)

WELL Westcoast etal Mule Shoe #1 DAY No. 15 DATE 2/11/74

DEPTH 3575 FEET MADE 118 HRS. ON BOTTOM 8

OPERATION Drilling

SURVEYS								
	3520	2¼						

LAST PIPE TALLY _____ BOARD _____ CORRECTION: YES ____ NO ____

WT. OF STRING M LBS. 110 WT. ON BIT M LBS. 40 ROTARY RPM 60

PUMP No. 1 Emsco D700 IN USE x LINERS 5½ x 16 SPM 60 PRESS. 1600

PUMP No. 2 _____ IN USE _____ LINERS _____ SPM _____ PRESS. _____

DRILL PIPE O.D. 4½ THD. XH DRILL COLLARS O.D. 6¼ THD. H90 No. IN HOLE 18

BIT No.	SIZE	TYPE	DEPTH IN	DEPTH OUT	FT. MADE	TOTAL HRS. RUN	JET SIZE IN 32nds			COND T	COND B	COND G	REMARKS
4	8¾	MH4G	3457		118	8	11	11	12				Running
REAM BIT No.													
CORE No.							FEET CUT			FEET REC.			

MUD Water

WT. _____ VIS _____ WL _____ GEL _____ FC _____

PH _____ APP VIS _____ PLAS VIS _____ YLD. PT. _____

WATER _____ OIL _____ CL- _____ PPM

SOLIDS _____ SAND _____ CA ++ _____ PPM

DESILTER _____ hr. OUT _____ LB./GAL.

DESANDER _____ hr. OUT _____ LB./GAL.

DEGASSER _____ hr. OUT _____ LB./GAL.

TOT MUD DUMPED _____ bbls/day _____

MUD ADDED

RIG TIME

1. DRILLING 8
2. TRIPPING 5¾
3. SERVICE & BOPS
4. REAMING
5. SLIP & CUTLINE
6. SURVEYING ½
7. CIRCULATING
8. CLEAN TO BTM
9. COND. MUD
10. REPAIRING
11. CORING
12. TESTING
13. LOGGING
14. CASING
15. W.O.C.

OTHERS (SPECIFY)

16. Drill cement & shoe - 4
17. Press test BOP's - 5¾
18.
19.
20.

DRILLING & GEOLOGICAL REMARKS (Sequence of Operations to be inserted below)

Layed down 8" drill collars and picked up 6¼" collars. Ran in and tagged PBTD. Pressure tested BOP's to 3000 psi. Drilled 37' cement and shoe. Drilled 8¾" hole from 3457' to 3575'.

Bottom hole assembly
3 point reamer @ bit, stabilizer @ 30' above bit.

WEATHER: TEMP. _____ °F _____

FORM NO. 15R

HELTON ENGINEERING, INC.

DAILY WELL REPORT

(AS OF 8:00 A.M.)

WELL Westcoast etal Mule Shoe #1 DAY No. 16 DATE 2/12/74

DEPTH 3910 FEET MADE 335 HRS. ON BOTTOM 19¾

OPERATION Drilling

SURVEYS								
	3817	2						

LAST PIPE TALLY _____ BOARD _____ CORRECTION: YES ____ NO ____

WT. OF STRING M LBS. 140 WT. ON BIT M LBS. 40 ROTARY RPM 60

PUMP No. 1 D700 IN USE X LINERS 5½ x 16 SPM 60 PRESS. 2200

PUMP No. 2 _____ IN USE _____ LINERS _____ SPM _____ PRESS. _____

DRILL PIPE O.D. 4½ THD. XH DRILL COLLARS O.D. 6¼ THD. H90 No. IN HOLE 18

BIT No.	SIZE	TYPE	DEPTH IN	DEPTH OUT	FT. MADE	TOTAL HRS. RUN	JET SIZE IN 32nds			COND T	COND B	COND G	REMARKS
4	8¾	MH4G	3457	3817	360	23¾	11	11	12	6	6	I	
5	8¾	F3S	3817		93	4	3	11/32					Running
REAM BIT No.													
CORE No.							FEET CUT			FEET REC.			

MUD Water

WT. _____ VIS _____ WL _____ GEL _____ FC _____

PH _____ APP VIS _____ PLAS VIS _____ YLD. PT. _____

WATER _____ OIL _____ CL- _____ PPM

SOLIDS _____ SAND _____ CA ++ _____ PPM

DESILTER _____ hr. OUT _____ LB./GAL.

DESANDER _____ hr. OUT _____ LB./GAL.

DEGASSER _____ hr. OUT _____ LB./GAL.

TOT MUD DUMPED _____ bbls/day _____

MUD ADDED

RIG TIME

1. DRILLING	19¾	6. SURVEYING	¼	11. CORING		OTHERS (SPECIFY) 16.	
2. TRIPPING	4	7. CIRCULATING		12. TESTING		17.	
3. SERVICE & BOPS		8. CLEAN TO BTM		13. LOGGING		18.	
4. REAMING		9. COND. MUD		14. CASING		19.	
5. SLIP & CUTLINE		10. REPAIRING		15. W.O.C.		20.	

DRILLING & GEOLOGICAL REMARKS (Sequence of Operations to be inserted below)

Drilled 8¾" hole from 3575' to 3817'. Pulled bit #4 and ran in w/bit #5.
Drilled 8¾" hole from 3817' to 3910'.

WEATHER: TEMP. _____ °F

FORM No. 15R

HELTON ENGINEERING, INC.

DAILY WELL REPORT
(AS OF 8:00 A.M.)

WELL Westcoast etal Mule Shoe #1 DAY No. 17 DATE 2/13/74

DEPTH 4380 FEET MADE 470 HRS. ON BOTTOM 21¾

OPERATION Drilling

SURVEYS								
	4300	2						

LAST PIPE TALLY _____ BOARD _____ CORRECTION: YES ____ NO ____

WT. OF STRING M LBS. 144 WT. ON BIT M LBS. 40 ROTARY RPM 50

PUMP No. 1 D700 IN USE x LINERS 5½ x 16 SPM 60 PRESS. 1800

PUMP No. 2 _____ IN USE _____ LINERS _____ SPM _____ PRESS. _____

DRILL PIPE O.D. 4½ THD. XH DRILL COLLARS O.D. 6¼ THD. H90 No. IN HOLE 18

BIT No.	SIZE	TYPE	DEPTH IN	DEPTH OUT	FT. MADE	TOTAL HRS. RUN	JET SIZE IN 32nds			CONG T	CONG B	CONG G	REMARKS
5	8¾	F3S	3817		563	25¾	3	11	32				Running
REAM BIT No.													
CORE No.							FEET CUT			FEET REC.			

MUD Water

WT. _____ VIS _____ WL _____ GEL _____ FC _____

PH _____ APP VIS _____ PLAS VIS _____ YLD. PT. _____

WATER _____ OIL _____ CL- _____ PPM

SOLIDS _____ SAND _____ CA ++ _____ PPM

DESILTER _____ hr. OUT _____ LB./GAL.

DESANDER _____ hr. OUT _____ LB./GAL.

DEGASSER _____ hr. OUT _____ LB./GAL.

TOT MUD DUMPED _____ bbls/day _____

MUD ADDED Benex - 3

RIG TIME

1. DRILLING	21¾	6. SURVEYING	¾	11. CORING		OTHERS (SPECIFY) 16.	
2. TRIPPING		7. CIRCULATING		12. TESTING		17.	
3. SERVICE & BOPS		8. CLEAN TO BTM		13. LOGGING		18.	
4. REAMING		9. COND. MUD		14. CASING		19.	
5. SLIP & CUTLINE		10. REPAIRING	1½	15. W.O.C.		20.	

DRILLING & GEOLOGICAL REMARKS (Sequence of Operations to be inserted below)

Drilled 8¾" hole from 3910' to 4380'. Repaired mud line.

WEATHER: TEMP. _____ °F _____

FORM No. 15R

HELTON ENGINEERING, INC.

DAILY WELL REPORT
(AS OF 8:00 A.M.)

WELL Westcoast etal Mule Shoe #1 DAY No. 18 DATE 2/14/74

DEPTH 4890 FEET MADE 510 HRS. ON BOTTOM 23¼

OPERATION Drilling

SURVEYS								
	4810	6¼						

LAST PIPE TALLY _____ BOARD _____ CORRECTION: YES ____ NO ____

WT. OF STRING M LBS. 150 WT. ON BIT M LBS. 40 ROTARY RPM 50

PUMP No. 1 D700 IN USE X LINERS 5½ x 16 SPM 60 PRESS. 1800

PUMP No. 2 _____ IN USE _____ LINERS _____ SPM _____ PRESS. _____

DRILL PIPE O.D. 4½ THD. XH DRILL COLLARS O.D. 6¼ THD. H90 No. IN HOLE 18

BIT No.	SIZE	TYPE	DEPTH IN	DEPTH OUT	FT. MADE	TOTAL HRS. RUN	JET SIZE IN 32nds			COND T	COND B	COND G	REMARKS
5	8¾	F3S	3817		1073	49	3	11	32				Running
REAM BIT No.													
CORE No.							FEET CUT			FEET REC.			

MUD Salt water

WT. _____ VIS _____ WL _____ GEL _____ FC _____

PH _____ APP VIS _____ PLAS VIS _____ YLD. PT. _____

WATER _____ OIL _____ CL- _____ PPM

SOLIDS _____ SAND _____ CA ++ _____ PPM

DESILTER _____ hr. OUT _____ LB./GAL.

DESANDER _____ hr. OUT _____ LB./GAL.

DEGASSER _____ hr. OUT _____ LB./GAL.

TOT MUD DUMPED _____ bbls/day _____

MUD ADDED Benex - 8

RIG TIME

1. DRILLING 23¼
2. TRIPPING _____
3. SERVICE & BOPS _____
4. REAMING _____
5. SLIP & CUTLINE _____
6. SURVEYING ¾
7. CIRCULATING _____
8. CLEAN TO BTM _____
9. COND. MUD _____
10. REPAIRING _____
11. CORING _____
12. TESTING _____
13. LOGGING _____
14. CASING _____
15. W.O.C. _____

OTHERS (SPECIFY)

16. _____
17. _____
18. _____
19. _____
20. _____

DRILLING & GEOLOGICAL REMARKS (Sequence of Operations to be inserted below)

Drilled 8¾" hole from 4380' to 4890'.

WEATHER: TEMP. _____ °F _____

FORM No. 15R

HELTON ENGINEERING, INC.

DAILY WELL REPORT

(AS OF 8:00 A.M.)

WELL Westcoast etal Mule Shoe #1 DAY No. 19 DATE 2/15/74

DEPTH 5000 FEET MADE 110 HRS. ON BOTTOM 14¾

OPERATION Drilling

SURVEYS								
	4910	9	4970	9				
	4960	10						

LAST PIPE TALLY _____ BOARD _____ CORRECTION: YES ____ NO ____

WT. OF STRING M LBS. 150 WT. ON BIT M LBS. 15 ROTARY RPM 50

PUMP No. 1 D700 IN USE X LINERS 5½ x 16 SPM 60 PRESS. 1500

PUMP No. 2 _____ IN USE _____ LINERS _____ SPM _____ PRESS. _____

DRILL PIPE O.D. 4½ THD. XH DRILL COLLARS O.D. 6¼ THD. H90 No. IN HOLE 18

BIT No.	SIZE	TYPE	DEPTH IN	DEPTH OUT	FT. MADE	TOTAL HRS. RUN	JET SIZE IN 32nds			COND T	COND B	COND G	REMARKS
5	8¾	F3S	3817	4966	1149	54¾	3	11	/32	1	1	I	
6	8¾	L4HJ	4966	4986	20	5	3	11	/32				
7	8¾	ODVJ	4986		14	4	3	11	/32				
REAM BIT No.													
CORE No.							FEET CUT			FEET REC.			

MUD Salt water

WT. _____ VIS _____ WL _____ GEL _____ FC _____

PH _____ APP VIS _____ PLAS VIS _____ YLD. PT. _____

WATER _____ OIL _____ CL- _____ PPM

SOLIDS _____ SAND _____ CA ++ _____ PPM

DESILTER _____ hr. OUT _____ LB./GAL.

DESANDER _____ hr. OUT _____ LB./GAL.

DEGASSER _____ hr. OUT _____ LB./GAL.

TOT MUD DUMPED _____ bbls/day _____

MUD ADDED Benex - 2

RIG TIME

1. DRILLING 14¾
2. TRIPPING 8¾
3. SERVICE & BOPS _____
4. REAMING _____
5. SLIP & CUTLINE _____
6. SURVEYING ½
7. CIRCULATING _____
8. CLEAN TO BTM _____
9. COND. MUD _____
10. REPAIRING _____
11. CORING _____
12. TESTING _____
13. LOGGING _____
14. CASING _____
15. W.O.C. _____

OTHERS (SPECIFY)

16. _____
17. _____
18. _____
19. _____
20. _____

DRILLING & GEOLOGICAL REMARKS (Sequence of Operations to be inserted below)

Drilled 8¾" hole from 4890' to 4966'. Pulled bit #5, installed stabilizers 60' and 120' above bit. Ran in w/bit #6. Drilled from 4966' to 4986'. Pulled bit #6 and ran in w/bit #7.

WEATHER: TEMP. _____ °F _____

FORM No. 15R

HELTON ENGINEERING, INC.

DAILY WELL REPORT

(AS OF 8:00 A.M.)

WELL Westcoast etal Mule Shoe #1 DAY No. 20 DATE 2/16/74

DEPTH 5100 FEET MADE 100 HRS. ON BOTTOM 22¼

OPERATION Drilling

SURVEYS								
	5000	9	5079	8½				
	5039	8¾						

LAST PIPE TALLY _____ BOARD _____ CORRECTION: YES ____ NO ____

WT. OF STRING M LBS. 152 WT. ON BIT M LBS. 15 ROTARY RPM 60

PUMP No. 1 D700 IN USE X LINERS 5½ x 16 SPM 60 PRESS. 1560

PUMP No. 2 _____ IN USE _____ LINERS _____ SPM _____ PRESS. _____

DRILL PIPE O.D. 4½ THD. XH DRILL COLLARS O.D. 6¼ THD. H90 No. IN HOLE 18

BIT No.	SIZE	TYPE	DEPTH IN	DEPTH OUT	FT. MADE	TOTAL HRS. RUN	JET SIZE IN 32nds	COND T	COND B	COND G	REMARKS
7	8¾	ODVJ	4986		114	26¼	3 11/32				Running
REAM BIT No.											
CORE No.							FEET CUT		FEET REC.		

MUD Salt water

WT. _____ VIS _____ WL _____ GEL _____ FC _____

PH _____ APP VIS _____ PLAS VIS _____ YLD. PT. _____

WATER _____ OIL _____ CL-- _____ PPM

SOLIDS _____ SAND _____ CA + + _____ PPM

DESILTER _____ hr. OUT _____ LB./GAL.

DESANDER _____ hr. OUT _____ LB./GAL.

DEGASSER _____ hr. OUT _____ LB./GAL.

TOT MUD DUMPED _____ bbls/day _____

MUD ADDED Benex - 5

RIG TIME

1. DRILLING 22¼
2. TRIPPING _____
3. SERVICE & BOPS _____
4. REAMING _____
5. SLIP & CUTLINE _____
6. SURVEYING 1¾
7. CIRCULATING _____
8. CLEAN TO BTM _____
9. COND. MUD _____
10. REPAIRING _____
11. CORING _____
12. TESTING _____
13. LOGGING _____
14. CASING _____
15. W.O.C. _____

OTHERS (SPECIFY)

16. _____
17. _____
18. _____
19. _____
20. _____

DRILLING & GEOLOGICAL REMARKS (Sequence of Operations to be inserted below)

Drilled 8¾" hole from 5000' to 5100'.

WEATHER: TEMP. _____ °F _____

FORM No. 15R

HELTON ENGINEERING, INC.

DAILY WELL REPORT
(AS OF 8:00 A.M.)

WELL Westcoast etal Mule Shoe #1 DAY No. 21 DATE 2/17/74

DEPTH 5215 FEET MADE 115 HRS. ON BOTTOM 16½

OPERATION Drilling

SURVEYS								
	5105	8¼	5143	8				
	5125	8	5174	8				

LAST PIPE TALLY _____ BOARD _____ CORRECTION: YES ____ NO ____

WT. OF STRING M LBS. 153 WT. ON BIT M LBS. 15 ROTARY RPM 60

PUMP No. 1 D700 IN USE X LINERS 5½ x 16 SPM 60 PRESS. 1500

PUMP No. 2 _____ IN USE _____ LINERS _____ SPM _____ PRESS. _____

DRILL PIPE O.D. 4½ THD. XH DRILL COLLARS O.D. 6¼ THD. H90 No. IN HOLE 18

BIT No.	SIZE	TYPE	DEPTH IN	DEPTH OUT	FT. MADE	TOTAL HRS. RUN	JET SIZE IN 32nds			CONC T	CONC B	CONC G	REMARKS
7	8¾	ODVJ	4986	5127	141	33½	11	11	11	6	7	I	
8	8¾	ODVJ	5127		88	9¼	11	11	11				
REAM BIT No.													
CORE No.							FEET CUT			FEET REC.			

MUD Salt water

WT. _____ VIS _____ WL _____ GEL _____ FC _____

PH _____ APP VIS _____ PLAS VIS _____ YLD. PT. _____

WATER _____ OIL _____ CL- _____ PPM

SOLIDS _____ SAND _____ CA ++ _____ PPM

DESILTER _____ hr. OUT _____ LB./GAL.

DESANDER _____ hr. OUT _____ LB./GAL.

DEGASSER _____ hr. OUT _____ LB./GAL.

TOT MUD DUMPED _____ bbls/day _____

MUD ADDED Benex - 10

RIG TIME

1. DRILLING 16½
2. TRIPPING 3½
3. SERVICE & BOPS _____
4. REAMING _____
5. SLIP & CUTLINE _____
6. SURVEYING 2½
7. CIRCULATING _____
8. CLEAN TO BTM _____
9. COND. MUD _____
10. REPAIRING 1½
11. CORING _____
12. TESTING _____
13. LOGGING _____
14. CASING _____
15. W.O.C. _____

OTHERS (SPECIFY)

16. _____
17. _____
18. _____
19. _____
20. _____

DRILLING & GEOLOGICAL REMARKS (Sequence of Operations to be inserted below)

Drilled 8¾" hole from 5100' to 5127'. Pulled bit #7.
Repacked swivel and cleaned tanks. Ran in w/bit #8.
Drilled 8¾" hole from 5127 to 5215'.

WEATHER: TEMP. _____ °F _____

FORM No. 15R

HELTON ENGINEERING, INC.

DAILY WELL REPORT
(AS OF 8:00 A.M.)

WELL Westcoast etal Mule Shoe #1 DAY No. 22 DATE 2/18/74

DEPTH 5375 FEET MADE 160 HRS. ON BOTTOM 18½

OPERATION Drilling

SURVEYS								
	5230	8	5365	8				
	5308	7						

LAST PIPE TALLY _____ BOARD _____ CORRECTION: YES ____ NO ____

WT. OF STRING M LBS. 153 WT. ON BIT M LBS. 20 ROTARY RPM 60

PUMP No. 1 D700 IN USE X LINERS 5½ x 16 SPM 60 PRESS. 1500

PUMP No. 2 _____ IN USE _____ LINERS _____ SPM _____ PRESS. _____

DRILL PIPE O.D. 4½ THD. XH DRILL COLLARS O.D. 6¼ THD. H90 No. IN HOLE 18

BIT No.	SIZE	TYPE	DEPTH IN	DEPTH OUT	FT. MADE	TOTAL HRS. RUN	JET SIZE IN 32nds			COND T	COND B	COND G	REMARKS
8	8¾	ODVJ	5127	5308	181	20¼	3	11	/32	6	4	I	
9	8¾	J33	5308		67	7½	3	11	/32				Running
REAM BIT No.													
CORE No.							FEET CUT			FEET REC.			

MUD Salt water

WT. _____ VIS _____ WL _____ GEL _____ FC _____

PH _____ APP VIS _____ PLAS VIS _____ YLD. PT. _____

WATER _____ OIL _____ CL-- _____ PPM

SOLIDS _____ SAND _____ CA + + _____ PPM

DESILTER _____ hr. OUT _____ LB./GAL.

DESANDER _____ hr. OUT _____ LB./GAL.

DEGASSER _____ hr. OUT _____ LB./GAL.

TOT MUD DUMPED _____ bbls/day _____

MUD ADDED Benex - 4

RIG TIME

1. DRILLING 18½
2. TRIPPING 3¾
3. SERVICE & BOPS
4. REAMING
5. SLIP & CUTLINE
6. SURVEYING 1¾
7. CIRCULATING
8. CLEAN TO BTM
9. COND. MUD
10. REPAIRING
11. CORING
12. TESTING
13. LOGGING
14. CASING
15. W.O.C.

OTHERS (SPECIFY)

16.
17.
18.
19.
20.

DRILLING & GEOLOGICAL REMARKS (Sequence of Operations to be inserted below)

Drilled 8¾" hole from 5215' to 5308'. Pulled bit #8 and ran in w/bit #9.
Drilled from 5308' to 5375'.

Bottom hole assembly
3 point reamer @ bit
stabilizer 30' above bit

WEATHER: TEMP. _____ °F _____

FORM No. 15R

HELTON ENGINEERING, INC.

DAILY WELL REPORT
(AS OF 8:00 A.M.)

WELL Westcoast etal Mule Shoe #1 DAY No. 23 DATE 2/19/74

DEPTH 5496 FEET MADE 121 HRS. ON BOTTOM 18¾

OPERATION Drilling

SURVEYS								
	5388	8	5491	8¼				
	5459	8¼						

LAST PIPE TALLY _____ BOARD _____ CORRECTION: YES ____ NO ____

WT. OF STRING M LBS. 154 WT. ON BIT M LBS. 30 ROTARY RPM 60

PUMP No. 1 D700 IN USE X LINERS 5½ x 16 SPM 60 PRESS. 1500

PUMP No. 2 _____ IN USE _____ LINERS _____ SPM _____ PRESS. _____

DRILL PIPE O.D. 4½ THD. XH DRILL COLLARS O.D. 6¼ THD. H90 No. IN HOLE 18

BIT No.	SIZE	TYPE	DEPTH IN	DEPTH OUT	FT. MADE	TOTAL HRS. RUN	JET SIZE IN 32nds			COND T	COND B	COND G	REMARKS
9	8¾	J33	5308		188	26¼	3	11	32				Running
REAM BIT No.													
CORE No.							FEET CUT			FEET REC.			

MUD Salt water

WT. ____ VIS ____ WL ____ GEL ____ FC ____

PH ____ APP VIS ____ PLAS VIS ____ YLD. PT. ____

WATER ____ OIL ____ CL-- ____ PPM

SOLIDS ____ SAND ____ CA + + ____ PPM

DESILTER ____ hr. OUT ____ LB./GAL.

DESANDER ____ hr. OUT ____ LB./GAL.

DEGASSER ____ hr. OUT ____ LB./GAL.

TOT MUD DUMPED ____ bbls/day ____

MUD ADDED Benex - 5

RIG TIME

1. DRILLING 18¾
2. TRIPPING 3¼
3. SERVICE & BOPS
4. REAMING
5. SLIP & CUTLINE
6. SURVEYING 1¾
7. CIRCULATING
8. CLEAN TO BTM
9. COND. MUD
10. REPAIRING
11. CORING
12. TESTING
13. LOGGING
14. CASING
15. W.O.C.

OTHERS (SPECIFY)

16.
17.
18.
19.
20.

DRILLING & GEOLOGICAL REMARKS (Sequence of Operations to be inserted below)

Drilled 8¾" hole from 5375' to 5401'. Pulled out of hole and changed bottom hole assembly. Ran back in hole. Drilled from 5401' to 5496'.

Bottom hole assembly
3 point reamer @ bit
stabilizers @ 60' and 120' above bit

WEATHER: TEMP. ____ °F ____

FORM No. 15R

HELTON ENGINEERING, INC.

DAILY WELL REPORT
(AS OF 8:00 A.M.)

WELL Westcoast etal Mule Shoe #1 DAY No. 24 DATE 2/20/74

DEPTH 5596 FEET MADE 100 HRS. ON BOTTOM 15

OPERATION Drilling

SURVEYS								
	5521	8¼	5583	7¾				
	5553	8						

LAST PIPE TALLY _____ BOARD _____ CORRECTION: YES ____ NO ____

WT. OF STRING M LBS. 155 WT. ON BIT M LBS. 20 ROTARY RPM 60

PUMP No. 1 D700 IN USE X LINERS 5½ x 16 SPM 60 PRESS. 1500

PUMP No. 2 _____ IN USE _____ LINERS _____ SPM _____ PRESS. _____

DRILL PIPE O.D. 4½ THD. XH DRILL COLLARS O.D. 6¼ THD. H90 No. IN HOLE 18

BIT No.	SIZE	TYPE	DEPTH IN	DEPTH OUT	FT. MADE	TOTAL HRS. RUN	JET SIZE IN 32nds			COND T	COND B	COND G	REMARKS
9	8¾	J33	5308		288	41¼	3	11	32				Running
REAM BIT No.													
CORE No.							FEET CUT			FEET REC.			

MUD Salt water

WT. _____ VIS _____ WL _____ GEL _____ FC _____

PH _____ APP VIS _____ PLAS VIS _____ YLD. PT. _____

WATER _____ OIL _____ CL- _____ PPM

SOLIDS _____ SAND _____ CA + + _____ PPM

DESILTER _____ hr. OUT _____ LB./GAL.

DESANDER _____ hr. OUT _____ LB./GAL.

DEGASSER _____ hr. OUT _____ LB./GAL.

TOT MUD DUMPED _____ bbls/day _____

MUD ADDED Benex - 4

RIG TIME

1. DRILLING 15
2. TRIPPING 4
3. SERVICE & BOPS ¾
4. REAMING _____
5. SLIP & CUTLINE _____
6. SURVEYING 1¾
7. CIRCULATING ¼
8. CLEAN TO BTM _____
9. COND. MUD _____
10. REPAIRING _____
11. CORING _____
12. TESTING _____
13. LOGGING _____
14. CASING _____
15. W.O.C. _____

OTHERS (SPECIFY)

16. WO stabilizer - 1¼
17. Cut drlg line - 1
18. _____
19. _____
20. _____

DRILLING & GEOLOGICAL REMARKS (Sequence of Operations to be inserted below)

Drilled 8¾" hole from 5496' to 5532'. Pulled out and replaced stabilizer rubber. Ran in hole. Drilled from 5532' to 5596'.

WEATHER: TEMP. _____ °F _____

FORM No. 15R

HELTON ENGINEERING, INC.

DAILY WELL REPORT

(AS OF 8:00 A.M.)

WELL Westcoast etal Mule Shoe #1 DAY No. 25 DATE 2/21/74

DEPTH 5832 FEET MADE 236 HRS. ON BOTTOM 21

OPERATION Drilling

SURVEYS								
	5703	7	5802	6¼				
	5760	6¾						

LAST PIPE TALLY _____ BOARD _____ CORRECTION: YES ____ NO ____

WT. OF STRING M LBS. 157 WT. ON BIT M LBS. 30 ROTARY RPM 60

PUMP No. 1 D700 IN USE X LINERS 5½ x 16 SPM 60 PRESS. 1500

PUMP No. 2 _____ IN USE _____ LINERS _____ SPM _____ PRESS. _____

DRILL PIPE O.D. 4½ THD. XH DRILL COLLARS O.D. 6¼ THD. H90 No. IN HOLE 18

BIT No.	SIZE	TYPE	DEPTH IN	DEPTH OUT	FT. MADE	TOTAL HRS. RUN	JET SIZE IN 32nds			CONC T	CONC B	CONC G	REMARKS
9	8¾	J33	5308		524	62¼	3	11	32				Running
REAM BIT No.													
CORE No.							FEET CUT			FEET REC.			

MUD Water

WT. _____ VIS _____ WL _____ GEL _____ FC _____

PH _____ APP VIS _____ PLAS VIS _____ YLD. PT. _____

WATER _____ OIL _____ CL- _____ PPM

SOLIDS _____ SAND _____ CA ++ _____ PPM

DESILTER _____ hr. OUT _____ LB./GAL.

DESANDER _____ hr. OUT _____ LB./GAL.

DEGASSER _____ hr. OUT _____ LB./GAL.

TOT MUD DUMPED _____ bbls/day _____

MUD ADDED Benex - 2

RIG TIME

1. DRILLING 21
2. TRIPPING _____
3. SERVICE & BOPS _____
4. REAMING _____
5. SLIP & CUTLINE _____
6. SURVEYING 3
7. CIRCULATING _____
8. CLEAN TO BTM _____
9. COND. MUD _____
10. REPAIRING _____
11. CORING _____
12. TESTING _____
13. LOGGING _____
14. CASING _____
15. W.O.C. _____

OTHERS (SPECIFY)

16. _____
17. _____
18. _____
19. _____
20. _____

DRILLING & GEOLOGICAL REMARKS (Sequence of Operations to be inserted below)

Drilled 8¾" hole from 5596' to 5832'.

WEATHER: TEMP. _____ °F _____

FORM No. 15R

HELTON ENGINEERING, INC.

DAILY WELL REPORT

(AS OF 8:00 A.M.)

WELL Westcoast etal Mule Shoe #1 DAY No. 7 DATE 2/3/74

DEPTH 1040 FEET MADE 440 HRS. ON BOTTOM 19¾

OPERATION Drilling

SURVEYS								
	688	¾						

LAST PIPE TALLY _____ BOARD _____ CORRECTION: YES ____ NO ____

WT. OF STRING M LBS. 70 WT. ON BIT M LBS. 35 ROTARY RPM 60

PUMP No. 1 _____ IN USE _____ LINERS _____ SPM _____ PRESS. _____

PUMP No. 2 _____ IN USE _____ LINERS _____ SPM _____ PRESS. _____

DRILL PIPE O.D. 4½ THD. XH DRILL COLLARS O.D. 8" & 9" THD. _____ No. IN HOLE 9

BIT No.	SIZE	TYPE	DEPTH IN	DEPTH OUT	FT. MADE	TOTAL HRS. RUN	JET SIZE IN 32nds	CONC T	CONC B	CONC G	REMARKS
1	12¼	YHG	380	781	401	20¼	none	6	2	I	
2	12¼	SCH5J	781		259	9	none				Running
REAM BIT No.											
CORE No.							FEET CUT	FEET REC.			

MUD Air

WT. _____ VIS _____ WL _____ GEL _____ FC _____

PH _____ APP VIS _____ PLAS VIS _____ YLD. PT. _____

WATER _____ OIL _____ CL- _____ PPM

SOLIDS _____ SAND _____ CA ++ _____ PPM

DESILTER _____ hr. OUT _____ LB./GAL.

DESANDER _____ hr. OUT _____ LB./GAL.

DEGASSER _____ hr. OUT _____ LB./GAL.

TOT MUD DUMPED _____ bbls/day _____

MUD ADDED

RIG TIME

1. DRILLING 19¾
2. TRIPPING 4
3. SERVICE & BOPS
4. REAMING
5. SLIP & CUTLINE
6. SURVEYING ¼
7. CIRCULATING
8. CLEAN TO BTM
9. COND. MUD
10. REPAIRING
11. CORING
12. TESTING
13. LOGGING
14. CASING
15. W.O.C.

OTHERS (SPECIFY)

16.
17.
18.
19.
20.

DRILLING & GEOLOGICAL REMARKS (Sequence of Operations to be inserted below)

Drilled 12¼" hole from 600' to 781'. Pulled bit #1 and ran in w/bit #2. Drilled 12¼" hole from 781' to 1040'.

Note: Drilling w/air mist, 3 compressors and 1 booster 2100 cfm @ 150 psi.

WEATHER: TEMP. _____ °F

FORM No. 15R

HELTON ENGINEERING, INC.

DAILY WELL REPORT
(AS OF 8:00 A.M.)

WELL Westcoast etal Mule Shoe #1 DAY No. 26 DATE 2/22/74

DEPTH 6132 FEET MADE 300 HRS. ON BOTTOM 20½

OPERATION Drilling

SURVEYS								
	5857	6½	5984	6	6126	6		
	5920	6	6058	6				

LAST PIPE TALLY _____ BOARD _____ CORRECTION: YES ____ NO ____

WT. OF STRING M LBS. 158 WT. ON BIT M LBS. 30 ROTARY RPM 60

PUMP No. 1 D700 IN USE X LINERS 5½ x 16 SPM 60 PRESS. 1500

PUMP No. 2 _____ IN USE _____ LINERS _____ SPM _____ PRESS. _____

DRILL PIPE O.D. 4½ THD. XH DRILL COLLARS O.D. 6¼ THD. H90 No. IN HOLE 18

BIT No.	SIZE	TYPE	DEPTH IN	DEPTH OUT	FT. MADE	TOTAL HRS. RUN	JET SIZE IN 32nds			COND T	COND B	COND G	REMARKS
9	8¾	J33	5308		824	82¾	3	11	/32				Running
REAM BIT No.													
CORE No.							FEET CUT			FEET REC.			

MUD Water

WT. _____ VIS _____ WL _____ GEL _____ FC _____

PH _____ APP VIS _____ PLAS VIS _____ YLD. PT. _____

WATER _____ OIL _____ CL- _____ PPM

SOLIDS _____ SAND _____ CA ++ _____ PPM

DESILTER _____ hr. OUT _____ LB./GAL.

DESANDER _____ hr. OUT _____ LB./GAL.

DEGASSER _____ hr. OUT _____ LB./GAL.

TOT MUD DUMPED _____ bbls/day _____

MUD ADDED Benex - 6

RIG TIME

1. DRILLING	20½	6. SURVEYING	3½	11. CORING		OTHERS (SPECIFY) 16.	
2. TRIPPING		7. CIRCULATING		12. TESTING		17.	
3. SERVICE & BOPS	–	8. CLEAN TO BTM		13. LOGGING		18.	
4. REAMING		9. COND. MUD		14. CASING		19.	
5. SLIP & CUTLINE		10. REPAIRING		15. W.O.C.		20.	

DRILLING & GEOLOGICAL REMARKS (Sequence of Operations to be inserted below)

Drilled 8¾" hole from 5832' to 6132'.

WEATHER: TEMP. _____ °F _____

FORM No. 15R

HELTON ENGINEERING, INC.

DAILY WELL REPORT
(AS OF 8:00 A.M.)

WELL Westcoast etal Mule Shoe #1 DAY No. 27 DATE 2/23/74

DEPTH 6420 FEET MADE 288 HRS. ON BOTTOM 21¼

OPERATION Drilling

SURVEYS								
	6170	6	6300	6¼				
	6237	6	6371	6¼				

LAST PIPE TALLY _____ BOARD _____ CORRECTION: YES ____ NO ____

WT. OF STRING M LBS. 159 WT. ON BIT M LBS. 30 ROTARY RPM 60

PUMP No. 1 D700 IN USE X LINERS 5½ x 16 SPM 60 PRESS. 1500

PUMP No. 2 _____ IN USE _____ LINERS _____ SPM _____ PRESS. _____

DRILL PIPE O.D. 4½ THD. XH DRILL COLLARS O.D. 6¼ THD. H90 No. IN HOLE 18

BIT No.	SIZE	TYPE	DEPTH IN	DEPTH OUT	FT. MADE	TOTAL HRS. RUN	JET SIZE IN 32nds			COND T	COND B	COND G	REMARKS
9	8¾	J33	5308		1112	104	3	11	/32				Running
REAM BIT No.													
CORE No.							FEET CUT			FEET REC.			

MUD Water

WT. _____ VIS _____ WL _____ GEL _____ FC _____

PH _____ APP VIS _____ PLAS VIS _____ YLD. PT. _____

WATER _____ OIL _____ CL-- _____ PPM

SOLIDS _____ SAND _____ CA + + _____ PPM

DESILTER _____ hr. OUT _____ LB./GAL.

DESANDER _____ hr. OUT _____ LB./GAL.

DEGASSER _____ hr. OUT _____ LB./GAL.

TOT MUD DUMPED _____ bbls/day _____

MUD ADDED Benex - 9

RIG TIME

1. DRILLING 21¼
2. TRIPPING _____
3. SERVICE & BOPS _____
4. REAMING _____
5. SLIP & CUTLINE _____
6. SURVEYING 2¾
7. CIRCULATING _____
8. CLEAN TO BTM _____
9. COND. MUD _____
10. REPAIRING _____
11. CORING _____
12. TESTING _____
13. LOGGING _____
14. CASING _____
15. W.O.C. _____

OTHERS (SPECIFY)

16. _____
17. _____
18. _____
19. _____
20. _____

DRILLING & GEOLOGICAL REMARKS (Sequence of Operations to be inserted below)

Drilled 8¾" hole from 6132' to 6420'.

WEATHER: TEMP. _____ °F _____

FORM No. 15R

HELTON ENGINEERING, INC.

DAILY WELL REPORT

(AS OF 8:00 A.M.)

WELL Westcoast etal Mule Shoe #1 DAY No. 28 DATE 2/24/74

DEPTH 6478 FEET MADE 58 HRS. ON BOTTOM 4¾

OPERATION Drillihg

SURVEYS								
	6458	7						

LAST PIPE TALLY _____ BOARD _____ CORRECTION: YES ____ NO ____

WT. OF STRING M LBS. 160 WT. ON BIT M LBS. 30 ROTARY RPM 60

PUMP No. 1 D700 IN USE X LINERS 5½ x 16 SPM 60 PRESS. 1500

PUMP No. 2 _____ IN USE _____ LINERS _____ SPM _____ PRESS. _____

DRILL PIPE O.D. 4½ THD. XH DRILL COLLARS O.D. 6¼ THD. H90 No. IN HOLE 18

BIT No.	SIZE	TYPE	DEPTH IN	DEPTH OUT	FT. MADE	TOTAL HRS. RUN	JET SIZE IN 32nds			COND T	COND B	COND G	REMARKS
9	8¾	J33	5308	6477	1169	108½	3	11	/32	1	1		
10	8¾	F3	6477		1	¼	3	11	/32				Running
REAM BIT No.													
CORE No.							FEET CUT			FEET REC.			

MUD Water

WT. _____ VIS _____ WL _____ GEL _____ FC _____

PH _____ APP VIS _____ PLAS VIS _____ YLD. PT. _____

WATER _____ OIL _____ CL- _____ PPM

SOLIDS _____ SAND _____ CA + + _____ PPM

DESILTER _____ hr. OUT _____ LB./GAL.

DESANDER _____ hr. OUT _____ LB./GAL.

DEGASSER _____ hr. OUT _____ LB./GAL.

TOT MUD DUMPED _____ bbls/day _____

MUD ADDED Benex - 8

RIG TIME

1. DRILLING 4¾
2. TRIPPING 4¾
3. SERVICE & BOPS _____
4. REAMING _____
5. SLIP & CUTLINE _____
6. SURVEYING ¼
7. CIRCULATING _____
8. CLEAN TO BTM ¾
9. COND. MUD _____
10. REPAIRING _____
11. CORING _____
12. TESTING _____
13. LOGGING _____
14. CASING _____
15. W.O.C. _____

OTHERS (SPECIFY)

16. Check DC's - 6
17. WO Kelly - 7½
18. _____
19. _____
20. _____

DRILLING & GEOLOGICAL REMARKS (Sequence of Operations to be inserted below)

Drilled 8¾" hole from 6420 to 6477'. Pulled bit #9. Checked drill collars, found pins on 3 drill collars and Kelly to be cracked. Replaced drill collars and Kelly and ran in w/bit #10. Drilled from 6477' to 6478'.

WEATHER: TEMP. _____ °F _____

FORM No. 15R

HELTON ENGINEERING, INC.

DAILY WELL REPORT

(AS OF 8:00 A.M.)

WELL Westcoast Mule Shoe #1 DAY No. 29 DATE 2/25/74

DEPTH 6690 FEET MADE 212 HRS. ON BOTTOM 21¾

OPERATION Drilling

SURVEYS								
	6520	7½	6657	7				
	6588	7						

LAST PIPE TALLY _____ BOARD _____ CORRECTION: YES ____ NO ____

WT. OF STRING M LBS. 161 WT. ON BIT M LBS. 30 ROTARY RPM 60

PUMP No. 1 D700 IN USE X LINERS 5½ x 16 SPM 60 PRESS. 1500

PUMP No. 2 _____ IN USE _____ LINERS _____ SPM _____ PRESS. _____

DRILL PIPE O.D. 4½ THD. XH DRILL COLLARS O.D. 6¼ THD. H90 No. IN HOLE 18

BIT No.	SIZE	TYPE	DEPTH IN	DEPTH OUT	FT. MADE	TOTAL HRS. RUN	JET SIZE IN 32nds			COND T	COND B	COND G	REMARKS
10	8¾	F3	6477		213	22	3	11	/32				Running
REAM BIT No.													
CORE No.							FEET CUT			FEET REC.			

MUD Gel-chemical

WT. 8.7 VIS 32 WL 40 GEL 4/6 FC 2/32

PH 10.5 APP VIS _____ PLAS VIS 4 YLD. PT. 6

WATER _____ OIL _____ CL- _____ PPM

SOLIDS _____ SAND _____ CA + + _____ PPM

DESILTER _____ hr. OUT _____ LB./GAL.

DESANDER _____ hr. OUT _____ LB./GAL.

DEGASSER _____ hr. OUT _____ LB./GAL.

TOT MUD DUMPED _____ bbls/day _____

MUD ADDED Gel - 91 Soda ash - 2 Caustic soda -4
Benex - 12 CMC - 3

RIG TIME

1. DRILLING	21¾	6. SURVEYING	2¼	11. CORING		OTHERS (SPECIFY) 16.	
2. TRIPPING		7. CIRCULATING		12. TESTING		17.	
3. SERVICE & BOPS		8. CLEAN TO BTM		13. LOGGING		18.	
4. REAMING		9. COND. MUD		14. CASING		19.	
5. SLIP & CUTLINE		10. REPAIRING		15. W.O.C.		20.	

DRILLING & GEOLOGICAL REMARKS (Sequence of Operations to be inserted below)

Drilled 8¾" hole from 6478' to 6690'.

WEATHER: TEMP. _____ °F

FORM No. 15R

HELTON ENGINEERING, INC.

DAILY WELL REPORT

(AS OF 8:00 A.M.)

WELL Westcoast etal Mule Shoe #1 DAY No. 30 DATE 2/26/74

DEPTH 6904 FEET MADE 214 HRS. ON BOTTOM 21

OPERATION Drilling

SURVEYS								
	6720	7						
	6805	6¾						

LAST PIPE TALLY _____ BOARD _____ CORRECTION: YES ____ NO ____

WT. OF STRING M LBS. 162 WT. ON BIT M LBS. 30 ROTARY RPM 60

PUMP No. 1 D700 IN USE x LINERS 5½ x 16 SPM 60 PRESS. 1650

PUMP No. 2 _____ IN USE _____ LINERS _____ SPM _____ PRESS. _____

DRILL PIPE O.D. 4½ THD. XH DRILL COLLARS O.D. 6¼ THD. H90 No. IN HOLE 18

BIT No.	SIZE	TYPE	DEPTH IN	DEPTH OUT	FT. MADE	TOTAL HRS. RUN	JET SIZE IN 32nds			CONG T	CONG B	CONG G	REMARKS
10	8¾	F3	6477		427	43	3	11	32				Running
REAM BIT No.													
CORE No.							FEET CUT			FEET REC.			

MUD Gel-chemical

WT. 8.5 VIS 34 WL _____ GEL _____ FC _____

PH 8.5 APP VIS _____ PLAS VIS _____ YLD. PT. _____

WATER _____ OIL _____ CL- _____ PPM

SOLIDS _____ SAND _____ CA ++ _____ PPM

DESILTER _____ hr. OUT _____ LB./GAL.

DESANDER _____ hr. OUT _____ LB./GAL.

DEGASSER _____ hr. OUT _____ LB./GAL.

TOT MUD DUMPED _____ bbls/day _____

MUD ADDED

RIG TIME

1. DRILLING	21	6. SURVEYING	1¾	11. CORING		OTHERS (SPECIFY) 16.	
2. TRIPPING		7. CIRCULATING		12. TESTING		17.	
3. SERVICE & BOPS		8. CLEAN TO BTM		13. LOGGING		18.	
4. REAMING		9. COND. MUD		14. CASING		19.	
5. SLIP & CUTLINE		10. REPAIRING	1¼	15. W.O.C.		20.	

DRILLING & GEOLOGICAL REMARKS (Sequence of Operations to be inserted below)

Drilled 8¾" hole from 6690' to 6904'

WEATHER: TEMP. _____ °F

FORM No. 15R

HELTON ENGINEERING, INC.

DAILY WELL REPORT

(AS OF 8:00 A.M.)

WELL Westcoast etal Mule Shoe #1 DAY No. 31 DATE 2/27/74

DEPTH 7098 FEET MADE 194 HRS. ON BOTTOM 17¼

OPERATION Drilling

SURVEYS								
	6939	7						
	7055	7¾						

LAST PIPE TALLY _____ BOARD _____ CORRECTION: YES ____ NO ____

WT. OF STRING M LBS. 162 WT. ON BIT M LBS. 35 ROTARY RPM 60

PUMP No. 1 D700 IN USE X LINERS 5½ x 16 SPM 60 PRESS. 1650

PUMP No. 2 _____ IN USE _____ LINERS _____ SPM _____ PRESS. _____

DRILL PIPE O.D. 4½ THD. XH DRILL COLLARS O.D. 6¼ THD. H90 No. IN HOLE 18

BIT No.	SIZE	TYPE	DEPTH IN	DEPTH OUT	FT. MADE	TOTAL HRS. RUN	JET SIZE IN 32nds			COND T	COND B	COND G	REMARKS
10	8¾	F3	6477	7060	583	56½	3	11	32	1	1	I	
11	8¾	4JS	7060		38	3¾	3	11	32				Running
REAM BIT No.													
CORE No.							FEET CUT			FEET REC.			

MUD

WT. 8.7 VIS 32 WL 22 GEL _____ FC 2/32

PH 9.5 APP VIS _____ PLAS VIS 5 YLD. PT. 3

WATER _____ OIL _____ CL- _____ PPM

SOLIDS 2½ SAND Tr. CA + + _____ PPM

DESILTER _____ hr. OUT _____ LB./GAL.

DESANDER _____ hr. OUT _____ LB./GAL.

DEGASSER _____ hr. OUT _____ LB./GAL.

TOT MUD DUMPED _____ bbls/day _____

MUD ADDED Gel - 55 CMC - 5

Benex - 10 Caustic-5

RIG TIME

1. DRILLING 17¼
2. TRIPPING 5
3. SERVICE & BOPS _____
4. REAMING _____
5. SLIP & CUTLINE _____
6. SURVEYING 1¼
7. CIRCULATING _____
8. CLEAN TO BTM ½
9. COND. MUD _____
10. REPAIRING _____
11. CORING _____
12. TESTING _____
13. LOGGING _____
14. CASING _____
15. W.O.C. _____

OTHERS (SPECIFY)

16. _____
17. _____
18. _____
19. _____
20. _____

DRILLING & GEOLOGICAL REMARKS (Sequence of Operations to be inserted below)

Drilled 8¾" hole from 6904' to 7060'. Pulled bit #10 and ran in w/bit #11.
Washed 35' to bottom. Drilled from 7060' to 7098'.

WEATHER: TEMP. _____ °F _____

FORM No. 15R

HELTON ENGINEERING, INC.

DAILY WELL REPORT

(AS OF 8:00 A.M.)

WELL Westcoast etal Mule Shoe #1 DAY No. 32 DATE 2/28/74

DEPTH 7225 FEET MADE 127 HRS. ON BOTTOM 22

OPERATION Drilling

SURVEYS								
	7128	8½						
	7160	8¼						

LAST PIPE TALLY _____ BOARD _____ CORRECTION: YES ____ NO ____

WT. OF STRING M LBS. 163 WT. ON BIT M LBS. 20 ROTARY RPM 60

PUMP No. 1 D700 IN USE X LINERS 5½ x 16 SPM 58 PRESS. 1650

PUMP No. 2 _____ IN USE _____ LINERS _____ SPM _____ PRESS. _____

DRILL PIPE O.D. 4½ THD. XH DRILL COLLARS O.D. 6¼ THD. H90 No. IN HOLE 18

BIT No.	SIZE	TYPE	DEPTH IN	DEPTH OUT	FT. MADE	TOTAL HRS. RUN	JET SIZE IN 32nds			COND T	COND B	COND G	REMARKS
11	8¾	4JS	7060		165	25¾	3	11	/32				Running
REAM BIT No.													
CORE No.							FEET CUT			FEET REC.			

MUD

WT. 8.6 VIS 35 WL 18.0 GEL _____ FC _____

PH 10.5 APP VIS _____ PLAS VIS _____ YLD. PT. _____

WATER _____ OIL _____ CL- _____ PPM

SOLIDS _____ SAND _____ CA + + _____ PPM

DESILTER _____ hr. OUT _____ LB./GAL.

DESANDER _____ hr. OUT _____ LB./GAL.

DEGASSER _____ hr. OUT _____ LB./GAL.

TOT MUD DUMPED _____ bbls/day _____

MUD ADDED Gel - 10 Caustic - 6
CMC - 1

RIG TIME

1. DRILLING 22
2. TRIPPING _____
3. SERVICE & BOPS _____
4. REAMING _____
5. SLIP & CUTLINE _____
6. SURVEYING 2
7. CIRCULATING _____
8. CLEAN TO BTM _____
9. COND. MUD _____
10. REPAIRING _____
11. CORING _____
12. TESTING _____
13. LOGGING _____
14. CASING _____
15. W.O.C. _____

OTHERS (SPECIFY)

16. _____
17. _____
18. _____
19. _____
20. _____

DRILLING & GEOLOGICAL REMARKS (Sequence of Operations to be inserted below)

Drilled 8¾" hole from 7098' to 7225'.

WEATHER: TEMP. _____ °F _____

FORM No. 15R

HELTON ENGINEERING, INC.

DAILY WELL REPORT
(AS OF 8:00 A.M.)

WELL Westcoast etal Mule Shoe #1 DAY No. 33 DATE 3/1/74

DEPTH 7335 FEET MADE 110 HRS. ON BOTTOM 23

OPERATION Drilling

SURVEYS								
	7256	8¼						
	7319	8¼						

LAST PIPE TALLY _____ BOARD _____ CORRECTION: YES ____ NO ____

WT. OF STRING M LBS. 163 WT. ON BIT M LBS. 22 ROTARY RPM 60

PUMP No. 1 D700 IN USE X LINERS 5½ x 16 SPM 60 PRESS. 1650

PUMP No. 2 _____ IN USE _____ LINERS _____ SPM _____ PRESS. _____

DRILL PIPE O.D. 4½ THD. XH DRILL COLLARS O.D. 6¼ THD. H90 No. IN HOLE 18

BIT No.	SIZE	TYPE	DEPTH IN	DEPTH OUT	FT. MADE	TOTAL HRS. RUN	JET SIZE IN 32nds	CONC T	CONC B	CONC G	REMARKS
11	8¾	4JS	7060		275	48¾	2 11/32				Running
REAM BIT No.											
CORE No.							FEET CUT	FEET REC.			

MUD

WT. 8.9 VIS 33 WL 15.6 GEL 3/13 FC 2/32

PH 10.5 APP VIS _____ PLAS VIS 6 YLD. PT. 4

WATER _____ OIL _____ CL- _____ PPM

SOLIDS 4 SAND Tr. CA + + _____ PPM

DESILTER _____ hr. OUT _____ LB./GAL.

DESANDER _____ hr. OUT _____ LB./GAL.

DEGASSER _____ hr. OUT _____ LB./GAL.

TOT MUD DUMPED _____ bbls/day _____

MUD ADDED Gel-17 CMC-1 Lignite-4
Caustic-8 Soda Ash-1

RIG TIME

1. DRILLING 23
2. TRIPPING _____
3. SERVICE & BOPS _____
4. REAMING _____
5. SLIP & CUTLINE _____
6. SURVEYING 1
7. CIRCULATING _____
8. CLEAN TO BTM _____
9. COND. MUD _____
10. REPAIRING _____
11. CORING _____
12. TESTING _____
13. LOGGING _____
14. CASING _____
15. W.O.C. _____

OTHERS (SPECIFY)

16. _____
17. _____
18. _____
19. _____
20. _____

DRILLING & GEOLOGICAL REMARKS (Sequence of Operations to be inserted below)

Drilled 8¾" hole from 7225' to 7335'

WEATHER: TEMP. _____ °F _____

FORM No. 15R

HELTON ENGINEERING, INC.

DAILY WELL REPORT
(AS OF 8:00 A.M.)

WELL Westcoast etal Mule Shoe #1 DAY No. 34 DATE 3/2/74

DEPTH 7452 FEET MADE 117 HRS. ON BOTTOM 22

OPERATION Drilling

SURVEYS								
	7395	8						
	7438	8½						

LAST PIPE TALLY _____ BOARD _____ CORRECTION: YES ____ NO ____

WT. OF STRING M LBS. 164 WT. ON BIT M LBS. 22 ROTARY RPM 60

PUMP No. 1 D700 IN USE X LINERS 5½ x 16 SPM 60 PRESS. 1650

PUMP No. 2 _____ IN USE _____ LINERS _____ SPM _____ PRESS. _____

DRILL PIPE O.D. 4½ THD. XH DRILL COLLARS O.D. 6¼ THD. H90 No. IN HOLE 18

BIT No.	SIZE	TYPE	DEPTH IN	DEPTH OUT	FT. MADE	TOTAL HRS. RUN	JET SIZE IN 32nds			COND T	COND B	COND G	REMARKS
11	8¾	4JS	7060		392	70¾	3	11	/32				Running
REAM BIT No.													
CORE No.							FEET CUT			FEET REC.			

MUD

WT. 8.8 VIS 32 WL 16.0 GEL _____ FC 2/32

PH 10.5 APP VIS _____ PLAS VIS _____ YLD. PT. _____

WATER _____ OIL _____ CL-- _____ PPM

SOLIDS _____ SAND _____ CA ++ _____ PPM

DESILTER _____ hr. OUT _____ LB./GAL.

DESANDER _____ hr. OUT _____ LB./GAL.

DEGASSER _____ hr. OUT _____ LB./GAL.

TOT MUD DUMPED _____ bbls/day _____

MUD ADDED Gel - 15 CMC - 1
Rayvan - 5 Caustic - 3

RIG TIME

1. DRILLING 22
2. TRIPPING _____
3. SERVICE & BOPS ¼
4. REAMING _____
5. SLIP & CUTLINE _____
6. SURVEYING 1¾
7. CIRCULATING _____
8. CLEAN TO BTM _____
9. COND. MUD _____
10. REPAIRING _____
11. CORING _____
12. TESTING _____
13. LOGGING _____
14. CASING _____
15. W.O.C. _____

OTHERS (SPECIFY)

16. _____
17. _____
18. _____
19. _____
20. _____

DRILLING & GEOLOGICAL REMARKS (Sequence of Operations to be inserted below)

Drilled 8¾" hole from 7335' to 7452'.

WEATHER: TEMP. _____ °F _____

FORM No. 15R

HELTON ENGINEERING, INC.

DAILY WELL REPORT

(AS OF 8:00 A.M.)

WELL Westcoast etal Mule Shoe #1 DAY No. 35 DATE 3/3/74

DEPTH 7530 FEET MADE 78 HRS. ON BOTTOM 20¾

OPERATION Tripping

SURVEYS								
	7502	9						

LAST PIPE TALLY _____ BOARD _____ CORRECTION: YES ____ NO ____

WT. OF STRING M LBS. 165 WT. ON BIT M LBS. 25 ROTARY RPM 60

PUMP No. 1 D700 IN USE X LINERS 5½ x 16 SPM 59 PRESS. 1700

PUMP No. 2 _____ IN USE _____ LINERS _____ SPM _____ PRESS. _____

DRILL PIPE O.D. 4½ THD. XH DRILL COLLARS O.D. 6¼ THD. H90 No. IN HOLE 18

BIT No.	SIZE	TYPE	DEPTH IN	DEPTH OUT	FT. MADE	TOTAL HRS. RUN	JET SIZE IN 32nds			COND T	COND B	COND G	REMARKS
11	8¾	4JS	7060	7530	470	91½	3	11	/32	4	8	I	
REAM BIT No.													
CORE No.							FEET CUT			FEET REC.			

MUD

WT. 8.7 VIS 34 WL 15.2 GEL _____ FC 2/32

PH 11.0 APP VIS _____ PLAS VIS 6 YLD. PT. 4

WATER _____ OIL _____ CL- _____ PPM

SOLIDS 4 SAND Tr. CA ++ _____ PPM

DESILTER _____ hr. OUT _____ LB./GAL.

DESANDER _____ hr. OUT _____ LB./GAL.

DEGASSER _____ hr. OUT _____ LB./GAL.

TOT MUD DUMPED _____ bbls/day _____

MUD ADDED Gel - 45

RIG TIME

1. DRILLING	20¾	6. SURVEYING	1	11. CORING		OTHERS (SPECIFY) 16.	
2. TRIPPING	2¼	7. CIRCULATING		12. TESTING		17.	
3. SERVICE & BOPS		8. CLEAN TO BTM		13. LOGGING		18.	
4. REAMING		9. COND. MUD		14. CASING		19.	
5. SLIP & CUTLINE		10. REPAIRING		15. W.O.C.		20.	

DRILLING & GEOLOGICAL REMARKS (Sequence of Operations to be inserted below)

Drilled 8¾" hole from 7452 to 7530'. Started out of hole w/bit #11.

WEATHER: TEMP. _____ °F

FORM No. 15R

HELTON ENGINEERING, INC.

DAILY WELL REPORT
(AS OF 8:00 A.M.)

WELL Westcoast etal Mule Shoe #1 DAY No. 36 DATE 3/4/74

DEPTH 7546 FEET MADE 16 HRS. ON BOTTOM 4

OPERATION Tripping

SURVEYS

LAST PIPE TALLY _____ BOARD _____ CORRECTION: YES ____ NO ____

WT. OF STRING M LBS. 166 WT. ON BIT M LBS. 25 ROTARY RPM 60

PUMP No. 1 D700 IN USE X LINERS 5½ x 16 SPM 60 PRESS. 1700

PUMP No. 2 _____ IN USE _____ LINERS _____ SPM _____ PRESS. _____

DRILL PIPE O.D. 4½ THD. XH DRILL COLLARS O.D. 6¼ THD. H90 No. IN HOLE 18

BIT No.	SIZE	TYPE	DEPTH IN	DEPTH OUT	FT. MADE	TOTAL HRS. RUN	JET SIZE IN 32nds	CONC T	CONC B	CONC G	REMARKS
12	8¾	Y23G	7530	7546	16	4	3 11/32	1	1	I	
REAM BIT No.											
CORE No.							FEET CUT	FEET REC.			

MUD

WT. 8.9 VIS 34 WL 13.2 GEL 3/11 FC 2/32

PH 10.0 APP VIS _____ PLAS VIS 7 YLD. PT. 3

WATER _____ OIL _____ CL- _____ PPM

SOLIDS 4 SAND Tr. CA + + _____ PPM

DESILTER _____ hr. OUT _____ LB./GAL.

DESANDER _____ hr. OUT _____ LB./GAL.

DEGASSER _____ hr. OUT _____ LB./GAL.

TOT MUD DUMPED _____ bbls/day _____

MUD ADDED

RIG TIME

1. DRILLING 4
2. TRIPPING 8½
3. SERVICE & BOPS
4. REAMING
5. SLIP & CUTLINE
6. SURVEYING
7. CIRCULATING
8. CLEAN TO BTM
9. COND. MUD
10. REPAIRING
11. CORING
12. TESTING
13. LOGGING
14. CASING
15. W.O.C.

OTHERS (SPECIFY)

16. Fishing - 11½
17.
18.
19.
20.

DRILLING & GEOLOGICAL REMARKS (Sequence of Operations to be inserted below)

Finished pulling bit #11 and started in hole w/new bit. Lost pin out of slips in hole. Pulled out and ran in w/mill tooth bit. Drilled from 7530' to 7546'. Pulled bit #12 and ran in w/magnet. Recovered iron in hole and ran in w/bit #13.

WEATHER: TEMP. _____ °F

FORM No. 15R

HELTON ENGINEERING, INC.

DAILY WELL REPORT
(AS OF 8:00 A.M.)

WELL Westcoast etal Mule Shoe #1 DAY No. 37 DATE 3/5/74

DEPTH 7690 FEET MADE 144 HRS. ON BOTTOM 21¾

OPERATION Drilling

SURVEYS								
	7598	8¼						

LAST PIPE TALLY _____ BOARD _____ CORRECTION: YES ____ NO ____

WT. OF STRING M LBS. 168 WT. ON BIT M LBS. 25 ROTARY RPM 60

PUMP No. 1 D700 IN USE X LINERS 5½ x 16 SPM 58 PRESS. 1600

PUMP No. 2 D500 IN USE ____ LINERS 5 x 16 SPM ____ PRESS. ____

DRILL PIPE O.D. 4½ THD. XH DRILL COLLARS O.D. 6¼ THD. H90 No. IN HOLE 18

BIT No.	SIZE	TYPE	DEPTH IN	DEPTH OUT	FT. MADE	TOTAL HRS. RUN	JET SIZE IN 32nds			COND T	COND B	COND G	REMARKS
13	8¾	J33	7546		144	21¾	11	11	12				Running
REAM BIT No.													
CORE No.							FEET CUT			FEET REC.			

MUD

WT. 8.9 VIS 32 WL 13.2 GEL 3/11 FC 2/32

PH 10.5 APP VIS ____ PLAS VIS 7 YLD. PT. 3

WATER ____ OIL ____ CL- ____ PPM

SOLIDS 4 SAND 0.1 CA + + ____ PPM

DESILTER ____ hr. OUT ____ LB./GAL.

DESANDER ____ hr. OUT ____ LB./GAL.

DEGASSER ____ hr. OUT ____ LB./GAL.

TOT MUD DUMPED ____ bbls/day ____

MUD ADDED Gel - 10 Caustic - 2

CMC - 1

RIG TIME

1. DRILLING 21¾
2. TRIPPING 1
3. SERVICE & BOPS ¼
4. REAMING ____
5. SLIP & CUTLINE ____
6. SURVEYING 1
7. CIRCULATING ____
8. CLEAN TO BTM ____
9. COND. MUD ____
10. REPAIRING ____
11. CORING ____
12. TESTING ____
13. LOGGING ____
14. CASING ____
15. W.O.C. ____

OTHERS (SPECIFY)

16. ____
17. ____
18. ____
19. ____
20. ____

DRILLING & GEOLOGICAL REMARKS (Sequence of Operations to be inserted below)

Finished running in w/bit #13. Drilled 8¾" hole from 7546' to 7690'.

WEATHER: TEMP. ____ °F ____

FORM No. 15R

HELTON ENGINEERING, INC.

DAILY WELL REPORT

(AS OF 8:00 A.M.)

WELL Westcoast Ötal Mule Shoe #1 DAY No. 38 DATE 3/6/74

DEPTH 7810 FEET MADE 120 HRS. ON BOTTOM 22¼

OPERATION Drilling

SURVEYS								
	7700	8						
	7788	8½						

LAST PIPE TALLY _____ BOARD _____ CORRECTION: YES ____ NO ____

WT. OF STRING M LBS. 170 WT. ON BIT M LBS. 30 ROTARY RPM 60

PUMP No. 1 D700 IN USE X LINERS 5½ x 16 SPM 58 PRESS. 1600

PUMP No. 2 _____ IN USE _____ LINERS _____ SPM _____ PRESS. _____

DRILL PIPE O.D. 4½ THD. XH DRILL COLLARS O.D. 6¼ THD. H90 No. IN HOLE 18

BIT No.	SIZE	TYPE	DEPTH IN	DEPTH OUT	FT. MADE	TOTAL HRS. RUN	JET SIZE IN 32nds			COND T	COND B	COND G	REMARKS
13	8¾	J33	7546		264	44	11	11	12				Running
REAM BIT No.													
CORE No.							FEET CUT			FEET REC.			

MUD

WT. 8.7 VIS 32 WL 13.2 GEL 3/11 FC 2/32

PH 11.5 APP VIS _____ PLAS VIS 7 YLD. PT. 3

WATER _____ OIL _____ CL-- _____ PPM

SOLIDS 4 SAND Tr. CA + + _____ PPM

DESILTER _____ hr. OUT _____ LB./GAL.

DESANDER _____ hr. OUT _____ LB./GAL.

DEGASSER _____ hr. OUT _____ LB./GAL.

TOT MUD DUMPED _____ bbls/day _____

MUD ADDED Caustic - 6

CMC - 1

RIG TIME

1. DRILLING	22¼	6. SURVEYING	1¾	11. CORING		OTHERS (SPECIFY) 16.	
2. TRIPPING		7. CIRCULATING		12. TESTING		17.	
3. SERVICE & BOPS		8. CLEAN TO BTM		13. LOGGING		18.	
4. REAMING		9. COND. MUD		14. CASING		19.	
5. SLIP & CUTLINE		10. REPAIRING		15. W.O.C.		20.	

DRILLING & GEOLOGICAL REMARKS (Sequence of Operations to be inserted below)

Drilled 8¾" hole from 7690' to 7810'.

WEATHER: TEMP. _____ °F _____

FORM No. 15R

HELTON ENGINEERING, INC.

DAILY WELL REPORT

(AS OF 8:00 A.M.)

WELL Westcoast Mule Shoe #1 DAY No. 39 DATE 3/7/74

DEPTH 7925 FEET MADE 115 HRS. ON BOTTOM 22

OPERATION Drilling

SURVEYS								
	7859	7½						
	7914	9½						

LAST PIPE TALLY _____ BOARD _____ CORRECTION: YES ____ NO ____

WT. OF STRING M LBS. 172 WT. ON BIT M LBS. 35 ROTARY RPM 60

PUMP No. 1 D700 IN USE X LINERS 5½ x 16 SPM 58 PRESS. 1600

PUMP No. 2 _____ IN USE _____ LINERS _____ SPM _____ PRESS. _____

DRILL PIPE O.D. 4½ THD. XH DRILL COLLARS O.D. 6¼ THD. H90 No. IN HOLE 18

BIT No.	SIZE	TYPE	DEPTH IN	DEPTH OUT	FT. MADE	TOTAL HRS. RUN	JET SIZE IN 32nds			COND T	COND B	COND G	REMARKS
13	8¾	J33	7546		379	66	11	11	12				Running
REAM BIT No.													
CORE No.							FEET CUT			FEET REC.			

MUD

WT. 8.8 VIS 32 WL 19 GEL 6/15 FC 2/32

PH 11.0 APP VIS _____ PLAS VIS 6 YLD. PT. 3

WATER _____ OIL _____ CL- _____ PPM

SOLIDS 3 SAND Tr. CA ++ _____ PPM

DESILTER _____ hr. OUT _____ LB./GAL.

DESANDER _____ hr. OUT _____ LB./GAL.

DEGASSER _____ hr. OUT _____ LB./GAL.

TOT MUD DUMPED _____ bbls/day _____

MUD ADDED Gel - 40 CMC-2

Caustic - 5 Benex - 8

RIG TIME

1. DRILLING	22	6. SURVEYING	2	11. CORING		OTHERS (SPECIFY) 16.	
2. TRIPPING		7. CIRCULATING		12. TESTING		17.	
3. SERVICE & BOPS		8. CLEAN TO BTM		13. LOGGING		18.	
4. REAMING		9. COND. MUD		14. CASING		19.	
5. SLIP & CUTLINE		10. REPAIRING		15. W.O.C.		20.	

DRILLING & GEOLOGICAL REMARKS (Sequence of Operations to be inserted below)

Drilled 8¾" hole from 7810' to 7925'.

WEATHER: TEMP. _____ °F

FORM No. 15R

HELTON ENGINEERING, INC.

DAILY WELL REPORT
(AS OF 8:00 A.M.)

WELL Westcoast etal Mule Shoe #1 DAY No. 40 DATE 3/8/74

DEPTH 8075 FEET MADE 150 HRS. ON BOTTOM 23

OPERATION Drilling

SURVEYS								
	8017	10						

LAST PIPE TALLY _____ BOARD _____ CORRECTION: YES ____ NO ____

WT. OF STRING M LBS. 174 WT. ON BIT M LBS. 25 ROTARY RPM 60

PUMP No. 1 D700 IN USE X LINERS 5½ x 16 SPM 60 PRESS. 1600

PUMP No. 2 _____ IN USE _____ LINERS _____ SPM _____ PRESS. _____

DRILL PIPE O.D. 4½ THD. XH DRILL COLLARS O.D. 6¼ THD. H90 No. IN HOLE 18

BIT No.	SIZE	TYPE	DEPTH IN	DEPTH OUT	FT. MADE	TOTAL HRS. RUN	JET SIZE IN 32nds			COND T	COND B	COND G	REMARKS
13	8¾	J33	7546		529	89	11	11	12				Running
REAM BIT No.													
CORE No.							FEET CUT			FEET REC.			

MUD

WT. 8.7 VIS 33 WL 17.0 GEL 6/16 FC 2/32

PH 11.0 APP VIS _____ PLAS VIS 6 YLD. PT. 4

WATER _____ OIL _____ CL-- _____ PPM

SOLIDS 3 SAND Tr. CA ++ _____ PPM

DESILTER _____ hr. OUT _____ LB./GAL.

DESANDER _____ hr. OUT _____ LB./GAL.

DEGASSER _____ hr. OUT _____ LB./GAL.

TOT MUD DUMPED _____ bbls/day _____

MUD ADDED Caustic - 2

RIG TIME

1. DRILLING	23	6. SURVEYING	1	11. CORING		OTHERS (SPECIFY) 16.	
2. TRIPPING		7. CIRCULATING		12. TESTING		17.	
3. SERVICE & BOPS		8. CLEAN TO BTM		13. LOGGING		18.	
4. REAMING		9. COND. MUD		14. CASING		19.	
5. SLIP & CUTLINE		10. REPAIRING		15. W.O.C.		20.	

DRILLING & GEOLOGICAL REMARKS (Sequence of Operations to be inserted below)

Drilled 8¾" hole from 7925' to 8075'.

WEATHER: TEMP. _____ °F _____

FORM NO. 15R

HELTON ENGINEERING, INC.

DAILY WELL REPORT
(AS OF 8:00 A.M.)

WELL Westcoast etal Mule Shoe #1 DAY No. 41 DATE 3/9/74

DEPTH 8176 FEET MADE 101 HRS. ON BOTTOM 14

OPERATION Tripping

SURVEYS								
	8113	9						

LAST PIPE TALLY _____ BOARD _____ CORRECTION: YES ____ NO ____

WT. OF STRING M LBS. 175 WT. ON BIT M LBS. 25 ROTARY RPM 60

PUMP No. 1 D700 IN USE x LINERS 5½ x 16 SPM 59 PRESS. 1600

PUMP No. 2 _____ IN USE _____ LINERS _____ SPM _____ PRESS. _____

DRILL PIPE O.D. 4½ THD. XH DRILL COLLARS O.D. 6¼ THD. H90 No. IN HOLE 18

BIT No.	SIZE	TYPE	DEPTH IN	DEPTH OUT	FT. MADE	TOTAL HRS. RUN	JET SIZE IN 32nds			COND T	COND B	COND G	REMARKS
13	8¾	J33	7546	8176	630	103	11	11	12	6	4	I	
REAM BIT No.													
CORE No.							FEET CUT			FEET REC.			

MUD

WT. 8.5 VIS 36 WL 44.0 GEL 7/16 FC 2/32

PH 10.5 APP VIS _____ PLAS VIS 6 YLD. PT. 6

WATER _____ OIL _____ CL-- _____ PPM

SOLIDS 4 SAND Tr. CA + + _____ PPM

DESILTER _____ hr. OUT _____ LB./GAL.

DESANDER _____ hr. OUT _____ LB./GAL.

DEGASSER _____ hr. OUT _____ LB./GAL.

TOT MUD DUMPED _____ bbls/day _____

MUD ADDED Caustic - 2

RIG TIME

1. DRILLING	14	6. SURVEYING	1	11. CORING		OTHERS (SPECIFY) 16.	
2. TRIPPING	7½	7. CIRCULATING		12. TESTING		17.	
3. SERVICE & BOPS		8. CLEAN TO BTM		13. LOGGING		18.	
4. REAMING		9. COND. MUD		14. CASING		19.	
5. SLIP & CUTLINE		10. REPAIRING	1½	15. W.O.C.		20.	

DRILLING & GEOLOGICAL REMARKS (Sequence of Operations to be inserted below)

Drilled 8¾" hole from 8075' to 8176'. Pulled bit #13. Replaced rotary drive sprocket. Ran in hole w/bit #14.

WEATHER: TEMP. _____ °F _____

FORM No. 15R

HELTON ENGINEERING, INC.

DAILY WELL REPORT
(AS OF 8:00 A.M.)

WELL Westcoast etal Mule Shoe #1 DAY No. 42 DATE 3/10/74

DEPTH 8290 FEET MADE 114 HRS. ON BOTTOM 24

OPERATION Drilling

SURVEYS

LAST PIPE TALLY ____ BOARD ____ CORRECTION: YES ____ NO ____

WT. OF STRING M LBS. 176 WT. ON BIT M LBS. 25 ROTARY RPM 60

PUMP No. 1 D700 IN USE X LINERS 5½ x 16 SPM 60 PRESS. 1600

PUMP No. 2 ____ IN USE ____ LINERS ____ SPM ____ PRESS. ____

DRILL PIPE O.D. 4½ THD. XH DRILL COLLARS O.D. 6¼ THD. H90 No. IN HOLE 18

BIT No.	SIZE	TYPE	DEPTH IN	DEPTH OUT	FT. MADE	TOTAL HRS. RUN	JET SIZE IN 32nds			CONG T	CONG B	CONG G	REMARKS
14	8¾	F53	8176		114	24	11	11	12				Running
REAM BIT No.													
CORE No.							FEET CUT			FEET REC.			

MUD

WT. 8.7 VIS 31 WL 41.0 GEL 7/16 FC 2/32

PH 10.5 APP VIS ____ PLAS VIS 5 YLD. PT. 4

WATER ____ OIL ____ CL- ____ PPM

SOLIDS 4 SAND Tr. CA + + ____ PPM

DESILTER ____ hr. OUT ____ LB./GAL.

DESANDER ____ hr. OUT ____ LB./GAL.

DEGASSER ____ hr. OUT ____ LB./GAL.

TOT MUD DUMPED ____ bbls/day ____

MUD ADDED Caustic - 2

RIG TIME

1. DRILLING 24
2. TRIPPING ____
3. SERVICE & BOPS ____
4. REAMING ____
5. SLIP & CUTLINE ____
6. SURVEYING ____
7. CIRCULATING ____
8. CLEAN TO BTM ____
9. COND. MUD ____
10. REPAIRING ____
11. CORING ____
12. TESTING ____
13. LOGGING ____
14. CASING ____
15. W.O.C. ____

OTHERS (SPECIFY)

16. ____
17. ____
18. ____
19. ____
20. ____

DRILLING & GEOLOGICAL REMARKS (Sequence of Operations to be inserted below)

Drilled 8¾" hole from 8176' to 8290'.

WEATHER: TEMP. ____ °F ____

FORM No. 15R

HELTON ENGINEERING, INC.

DAILY WELL REPORT
(AS OF 8:00 A.M.)

WELL Westcoast etal Mule Shoe #1 DAY No. 43 DATE 3/11/74

DEPTH 8420 FEET MADE 130 HRS. ON BOTTOM 22½

OPERATION Drilling

SURVEYS								
	8407	10						

LAST PIPE TALLY _____ BOARD _____ CORRECTION: YES ____ NO ____

WT. OF STRING M LBS. 178 WT. ON BIT M LBS. 30 ROTARY RPM 47

PUMP No. 1 D700 IN USE X LINERS 5½ x 16 SPM 58 PRESS. 1600

PUMP No. 2 _____ IN USE _____ LINERS _____ SPM _____ PRESS. _____

DRILL PIPE O.D. 4½ THD. XH DRILL COLLARS O.D. 6¼ THD. H90 No. IN HOLE 18

BIT No.	SIZE	TYPE	DEPTH IN	DEPTH OUT	FT. MADE	TOTAL HRS. RUN	JET SIZE IN 32nds			COND T	COND B	COND G	REMARKS
14	8¾	F53	8176		244	46½	11	11	12				Running
REAM BIT No.													
CORE No.							FEET CUT			FEET REC.			

MUD

WT. 8.9 VIS 30 WL 36.0 GEL 6/16 FC 2/32

PH 11.0 APP VIS _____ PLAS VIS 3 YLD. PT. 3

WATER _____ OIL _____ CL- _____ PPM

SOLIDS 3 SAND Tr. CA + + _____ PPM

DESILTER _____ hr. OUT _____ LB./GAL.

DESANDER _____ hr. OUT _____ LB./GAL.

DEGASSER _____ hr. OUT _____ LB./GAL.

TOT MUD DUMPED _____ bbls/day _____

MUD ADDED Gel - 15 CMC - 3 Caustic - 3
Soda Ash - 4 Benex - 3 Rayvan - 1

RIG TIME

1. DRILLING 22½
2. TRIPPING _____
3. SERVICE & BOPS ½
4. REAMING _____
5. SLIP & CUTLINE _____
6. SURVEYING 1
7. CIRCULATING _____
8. CLEAN TO BTM _____
9. COND. MUD _____
10. REPAIRING _____
11. CORING _____
12. TESTING _____
13. LOGGING _____
14. CASING _____
15. W.O.C. _____

OTHERS (SPECIFY)

16. _____
17. _____
18. _____
19. _____
20. _____

DRILLING & GEOLOGICAL REMARKS (Sequence of Operations to be inserted below)

Drilled 8¾" hole from 8290' to 8420'.

WEATHER: TEMP. _____ °F _____

FORM No. 15R

HELTON ENGINEERING, INC.

DAILY WELL REPORT
(AS OF 8:00 A.M.)

WELL Westcoast etal Mule Shoe #1 DAY No. 44 DATE 3/12/74

DEPTH 8555 FEET MADE 135 HRS. ON BOTTOM 23

OPERATION Drilling

SURVEYS								
	8533	11						

LAST PIPE TALLY _____ BOARD _____ CORRECTION: YES ____ NO ____

WT. OF STRING M LBS. 180 WT. ON BIT M LBS. 30 ROTARY RPM 47

PUMP No. 1 D700 IN USE X LINERS 5½ x 16 SPM 59 PRESS. 1600

PUMP No. 2 _____ IN USE _____ LINERS _____ SPM _____ PRESS. _____

DRILL PIPE O.D. 4½ THD. XH DRILL COLLARS O.D. 6¼ THD. H90 No. IN HOLE 18

BIT No.	SIZE	TYPE	DEPTH IN	DEPTH OUT	FT. MADE	TOTAL HRS. RUN	JET SIZE IN 32nds			COND T	COND B	COND G	REMARKS
14	8¾	F53	8176		379	69½	11	11	12				Running
REAM BIT No.													
CORE No.							FEET CUT			FEET REC.			

MUD

WT. 8.9 VIS 32 WL 35.0 GEL 5/16 FC 2/32

PH 10.5 APP VIS _____ PLAS VIS 5 YLD. PT. 4

WATER 4 OIL Tr. CL-- _____ PPM

SOLIDS _____ SAND _____ CA ++ _____ PPM

DESILTER _____ hr. OUT _____ LB./GAL.

DESANDER _____ hr. OUT _____ LB./GAL.

DEGASSER _____ hr. OUT _____ LB./GAL.

TOT MUD DUMPED _____ bbls/day _____

MUD ADDED Gel - 25 CMC - 3 Benex - 5
Caustic - 5 Soda Ash - 1

RIG TIME

1. DRILLING	23	6. SURVEYING	1	11. CORING		OTHERS (SPECIFY) 16.	
2. TRIPPING		7. CIRCULATING		12. TESTING		17.	
3. SERVICE & BOPS		8. CLEAN TO BTM		13. LOGGING		18.	
4. REAMING		9. COND. MUD		14. CASING		19.	
5. SLIP & CUTLINE		10. REPAIRING		15. W.O.C.		20.	

DRILLING & GEOLOGICAL REMARKS (Sequence of Operations to be inserted below)

Drilled 8¾" hole from 8420' to 8555'.

WEATHER: TEMP. _____ °F

FORM NO. 15R

HELTON ENGINEERING, INC.

DAILY WELL REPORT

(AS OF 8:00 A.M.)

WELL Westcoast etal Mule Shoe #1 DAY No. 45 DATE 3/13/74

DEPTH 8643 FEET MADE 88 HRS. ON BOTTOM 23

OPERATION Drilling

SURVEYS

LAST PIPE TALLY _____ BOARD _____ CORRECTION: YES ____ NO ____

WT. OF STRING M LBS. 181 WT. ON BIT M LBS. 30 ROTARY RPM 47

PUMP No. 1 D700 IN USE x LINERS 5½ x 16 SPM 58 PRESS. 1600

PUMP No. 2 _____ IN USE _____ LINERS _____ SPM _____ PRESS. _____

DRILL PIPE O.D. 4½ THD. XH DRILL COLLARS O.D. 6¼ THD. H90 No. IN HOLE 18

BIT No.	SIZE	TYPE	DEPTH IN	DEPTH OUT	FT. MADE	TOTAL HRS. RUN	JET SIZE IN 32nds			COND T	COND B	COND G	REMARKS
14	8¾	F53	8176	8643	467	92½	11	11	12				
REAM BIT No.													
CORE No.							FEET CUT			FEET REC.			

MUD

WT. 8.9 VIS 32 WL 28.0 GEL 5/16 FC 2/32

PH 11.0 APP VIS _____ PLAS VIS 6 YLD. PT. 4

WATER _____ OIL _____ CL-- _____ PPM

SOLIDS 4 SAND Tr. CA + + _____ PPM

DESILTER _____ hr. OUT _____ LB./GAL.

DESANDER _____ hr. OUT _____ LB./GAL.

DEGASSER _____ hr. OUT _____ LB./GAL.

TOT MUD DUMPED _____ bbls/day _____

MUD ADDED Gel - 10 Caustic - 4

Benex - 2 Rayvan - 2

RIG TIME

1. DRILLING 23
2. TRIPPING _____
3. SERVICE & BOPS ½
4. REAMING _____
5. SLIP & CUTLINE _____
6. SURVEYING _____
7. CIRCULATING _____
8. CLEAN TO BTM _____
9. COND. MUD _____
10. REPAIRING ½
11. CORING _____
12. TESTING _____
13. LOGGING _____
14. CASING _____
15. W.O.C. _____

OTHERS (SPECIFY)

16. _____
17. _____
18. _____
19. _____
20. _____

DRILLING & GEOLOGICAL REMARKS (Sequence of Operations to be inserted below)

Drilled 8¾" hole from 8555' to 8643'. Tightened packing in swivel and conducted BOP drill.

WEATHER: TEMP. _____ °F _____

FORM No. 15R

HELTON ENGINEERING, INC.

DAILY WELL REPORT
(AS OF 8:00 A.M.)

WELL Westcoast etal Mule Shoe #1 DAY No. 46 DATE 3/14/74

DEPTH 8785 FEET MADE 142 HRS. ON BOTTOM 15¾

OPERATION Circulating sample

SURVEYS

LAST PIPE TALLY _____ BOARD _____ CORRECTION: YES ____ NO ____

WT. OF STRING M LBS. 181 WT. ON BIT M LBS. 35 ROTARY RPM 72

PUMP No. 1 D700 IN USE X LINERS 5½ x 16 SPM 58 PRESS. 1550

PUMP No. 2 _____ IN USE _____ LINERS _____ SPM _____ PRESS. _____

DRILL PIPE O.D. 4½ THD. XH DRILL COLLARS O.D. 6¼ THD. H90 No. IN HOLE 18

BIT No.	SIZE	TYPE	DEPTH IN	DEPTH OUT	FT. MADE	TOTAL HRS. RUN	JET SIZE IN 32nds			CONC T	CONC B	CONC G	REMARKS
15	8¾	ODV	8643		142	15¾	11	12	12				Running
REAM BIT No.													
CORE No.							FEET CUT			FEET REC.			

MUD

WT. 8.9 VIS 32 WL 25 GEL 5/13 FC 2/32

PH 11.0 APP VIS _____ PLAS VIS 5 YLD. PT. 6

WATER _____ OIL _____ CL-- _____ PPM

SOLIDS 4½ SAND Tr. CA + + _____ PPM

DESILTER _____ hr. OUT _____ LB./GAL.

DESANDER _____ hr. OUT _____ LB./GAL.

DEGASSER _____ hr. OUT _____ LB./GAL.

TOT MUD DUMPED _____ bbls/day _____

MUD ADDED Gel - 37 CMC - 1 Rayvan - 3
Caustic- 3 Soda Ash-2 Benex - 1

RIG TIME

1. DRILLING 15¾
2. TRIPPING 7
3. SERVICE & BOPS _____
4. REAMING _____
5. SLIP & CUTLINE _____
6. SURVEYING _____
7. CIRCULATING ½
8. CLEAN TO BTM _____
9. COND. MUD _____
10. REPAIRING ¾
11. CORING _____
12. TESTING _____
13. LOGGING _____
14. CASING _____
15. W.O.C. _____

OTHERS (SPECIFY)
16. _____
17. _____
18. _____
19. _____
20. _____

DRILLING & GEOLOGICAL REMARKS (Sequence of Operations to be inserted below)

Pulled bit #14. Cut and slipped drilling line. Ran in w/bit #15. Drilled 8¾" hole from 8643' to 8785'. Circulated for sample.

WEATHER: TEMP. _____ °F _____

FORM NO. 15R

HELTON ENGINEERING, INC.

DAILY WELL REPORT

(AS OF 8:00 A.M.)

WELL Westcoast etal Mule Shoe #1 DAY No. 47 DATE 3/15/74

DEPTH 9030' FEET MADE 245 HRS. ON BOTTOM 11¾

OPERATION Drilling

SURVEYS

LAST PIPE TALLY _____ BOARD _____ CORRECTION: YES ____ NO ____

WT. OF STRING M LBS. 181 WT. ON BIT M LBS. 35 ROTARY RPM 72

PUMP No. 1 D700 IN USE X LINERS 5½ x 16 SPM 58 PRESS. 1600

PUMP No. 2 _____ IN USE _____ LINERS _____ SPM _____ PRESS. _____

DRILL PIPE O.D. 4½ THD. XH DRILL COLLARS O.D. 6¼ THD. H90 No. IN HOLE 18

BIT No.	SIZE	TYPE	DEPTH IN	DEPTH OUT	FT. MADE	TOTAL HRS. RUN	JET SIZE IN 32nds			CONG T	CONG B	CONG G	REMARKS
15	8¾	ODV	8643		387	27½	11	12	12				Running
REAM BIT No.													
CORE No.							FEET CUT			FEET REC.			

MUD

WT. 10.0 VIS 34 WL 10.6 GEL _____ FC _____

PH 7.8 APP VIS _____ PLAS VIS _____ YLD. PT. _____

WATER _____ OIL _____ CL- _____ PPM

SOLIDS _____ SAND _____ CA + + _____ PPM

DESILTER _____ hr. OUT _____ LB./GAL.

DESANDER _____ hr. OUT _____ LB./GAL.

DEGASSER _____ hr. OUT _____ LB./GAL.

TOT MUD DUMPED _____ bbls/day _____

MUD ADDED Gel - 97 CMC - 3 Soda Ash - 5 S. Bicarb - 2
Caustic - 2 Rayvan - 3 Starch -98 Visbestos - 12
Salt - 107

RIG TIME

1. DRILLING 11¾
2. TRIPPING _____
3. SERVICE & BOPS _____
4. REAMING _____
5. SLIP & CUTLINE _____
6. SURVEYING _____
7. CIRCULATING _____
8. CLEAN TO BTM _____
9. COND. MUD 12¼
10. REPAIRING _____
11. CORING _____
12. TESTING _____
13. LOGGING _____
14. CASING _____
15. W.O.C. _____

OTHERS (SPECIFY)

16. _____
17. _____
18. _____
19. _____
20. _____

DRILLING & GEOLOGICAL REMARKS (Sequence of Operations to be inserted below)

Changed mud system over to salt base.
Drilled 8¾" hole from 8785' to 9030'.

Top salt @ 8780'

WEATHER: TEMP. _____ °F _____

FORM No. 15R

HELTON ENGINEERING, INC.

DAILY WELL REPORT
(AS OF 8:00 A.M.)

WELL Westcoast etal Mule Shoe #1 DAY No. 48 DATE 3/16/74

DEPTH 9236 FEET MADE 206 HRS. ON BOTTOM 14½

OPERATION Drilling

SURVEYS								
	9041	8						

LAST PIPE TALLY _____ BOARD _____ CORRECTION: YES ____ NO ____

WT. OF STRING M LBS. 181 WT. ON BIT M LBS. 35 ROTARY RPM 70

PUMP No. 1 D700 IN USE X LINERS 5½ x 16 SPM 58 PRESS. 1650

PUMP No. 2 _____ IN USE _____ LINERS _____ SPM _____ PRESS. _____

DRILL PIPE O.D. 4½ THD. XH DRILL COLLARS O.D. 6¼ THD. H90 No. IN HOLE 18

BIT No.	SIZE	TYPE	DEPTH IN	DEPTH OUT	FT. MADE	TOTAL HRS. RUN	JET SIZE IN 32nds			COND T	COND B	COND G	REMARKS
15	8¾	ODV	8643	9061	418	32½	11	12	12				
16	8¾	ODV	9061		175	9½	11	12	12				Running
REAM BIT No.													
CORE No.							FEET CUT			FEET REC.			

MUD

WT. 10.3 VIS 34 WL 12.0 GEL _____ FC _____

PH 7.4 APP VIS _____ PLAS VIS _____ YLD. PT. _____

WATER _____ OIL _____ CL- _____ PPM

SOLIDS _____ SAND _____ CA ++ _____ PPM

DESILTER _____ hr. OUT _____ LB./GAL.

DESANDER _____ hr. OUT _____ LB./GAL.

DEGASSER _____ hr. OUT _____ LB./GAL.

TOT MUD DUMPED _____ bbls/day _____

MUD ADDED Gel - 22 Visbestos - 88 S. Bicarb - 1
Salt - 3 Starch - 5

RIG TIME

1. DRILLING 14½
2. TRIPPING 9¼
3. SERVICE & BOPS _____
4. REAMING _____
5. SLIP & CUTLINE _____
6. SURVEYING ¼
7. CIRCULATING _____
8. CLEAN TO BTM _____
9. COND. MUD _____
10. REPAIRING _____
11. CORING _____
12. TESTING _____
13. LOGGING _____
14. CASING _____
15. W.O.C. _____

OTHERS (SPECIFY)
16. _____
17. _____
18. _____
19. _____
20. _____

DRILLING & GEOLOGICAL REMARKS (Sequence of Operations to be inserted below)

Drilled 8¾" hole from 9030' to 9061'. Pulled bit #15. Layed down 22 jts drill pipe for hard banding. Ran in w/bit #16. Drilled from 9061' to 9236'.

WEATHER: TEMP. _____ °F _____

FORM No. 15R

HELTON ENGINEERING, INC.

DAILY WELL REPORT

(AS OF 8:00 A.M.)

WELL Westcoast etal Mule Shoe #1 DAY No. 49 DATE 3/17/74

DEPTH 9455 FEET MADE 219 HRS. ON BOTTOM 24

OPERATION Drilling

SURVEYS

LAST PIPE TALLY _____ BOARD _____ CORRECTION: YES ____ NO ____

WT. OF STRING M LBS. 181 WT. ON BIT M LBS. 35 ROTARY RPM 60

PUMP No. 1 D700 IN USE X LINERS 5½ x 16 SPM 59 PRESS. 1650

PUMP No. 2 _____ IN USE _____ LINERS _____ SPM _____ PRESS. _____

DRILL PIPE O.D. 4½ THD. XH DRILL COLLARS O.D. 6¼ THD. H90 No. IN HOLE 18

BIT No.	SIZE	TYPE	DEPTH IN	DEPTH OUT	FT. MADE	TOTAL HRS. RUN	JET SIZE IN 32nds			CONG T	CONG B	CONG G	REMARKS
16	8¾	ODV	9061		394	33½	11	12	12				Running
REAM BIT No.													
CORE No.							FEET CUT			FEET REC.			

MUD

WT. 10.2 VIS 35 WL 48 GEL _____ FC 2/32

PH 7.4 APP VIS _____ PLAS VIS _____ YLD. PT. _____

WATER _____ OIL _____ CL-- _____ PPM

SOLIDS _____ SAND _____ CA + + _____ PPM

DESILTER _____ hr. OUT _____ LB./GAL.

DESANDER _____ hr. OUT _____ LB./GAL.

DEGASSER _____ hr. OUT _____ LB./GAL.

TOT MUD DUMPED _____ bbls/day _____

MUD ADDED Salt - 32 Driscose - 3 Starch - 28

RIG TIME

1. DRILLING 24
2. TRIPPING _____
3. SERVICE & BOPS _____
4. REAMING _____
5. SLIP & CUTLINE _____
6. SURVEYING _____
7. CIRCULATING _____
8. CLEAN TO BTM _____
9. COND. MUD _____
10. REPAIRING _____
11. CORING _____
12. TESTING _____
13. LOGGING _____
14. CASING _____
15. W.O.C. _____

OTHERS (SPECIFY)

16. _____
17. _____
18. _____
19. _____
20. _____

DRILLING & GEOLOGICAL REMARKS (Sequence of Operations to be inserted below)

Drilled 8¾" hole from 9236' to 9455'.

WEATHER: TEMP. _____ °F _____

FORM No. 15R

HELTON ENGINEERING, INC.

DAILY WELL REPORT
(AS OF 8:00 A.M.)

WELL Westcoast etal Mule Shoe #1 DAY No. 50 DATE 3/18/74

DEPTH 9500 FEET MADE 45 HRS. ON BOTTOM 12½

OPERATION Drilling

SURVEYS								
	9475	- no	picture					

LAST PIPE TALLY _____ BOARD _____ CORRECTION: YES ____ NO ____

WT. OF STRING M LBS. 181 WT. ON BIT M LBS. 35 ROTARY RPM 47

PUMP No. 1 D700 IN USE X LINERS 5½ x 16 SPM 58 PRESS. 1600

PUMP No. 2 _____ IN USE _____ LINERS _____ SPM _____ PRESS. _____

DRILL PIPE O.D. 4½ THD. XH DRILL COLLARS O.D. 6¼ THD. H90 No. IN HOLE 18

BIT No.	SIZE	TYPE	DEPTH IN	DEPTH OUT	FT. MADE	TOTAL HRS. RUN	JET SIZE IN 32nds			COND T	COND B	COND G	REMARKS
16	8¾	ODV	9061	9475	414	40	11	12	12	6	6	I	
17	8¾	ODV	9475		25	6	13	13	13				Running
REAM BIT No.													
CORE No.							FEET CUT			FEET REC.			

MUD

WT. 10.0 VIS 37 WL 35 GEL _____ FC _____

PH 7.0 APP VIS _____ PLAS VIS _____ YLD. PT. _____

WATER _____ OIL _____ CL-- _____ PPM

SOLIDS _____ SAND _____ CA + + _____ PPM

DESILTER _____ hr. OUT _____ LB./GAL.

DESANDER _____ hr. OUT _____ LB./GAL.

DEGASSER _____ hr. OUT _____ LB./GAL.

TOT MUD DUMPED _____ bbls/day _____

MUD ADDED Salt - 4 Driscose - 2
Starch - 5 S. Bicarb - 1

RIG TIME

1. DRILLING 12½
2. TRIPPING 11
3. SERVICE & BOPS _____
4. REAMING _____
5. SLIP & CUTLINE _____
6. SURVEYING ½
7. CIRCULATING _____
8. CLEAN TO BTM _____
9. COND. MUD _____
10. REPAIRING _____
11. CORING _____
12. TESTING _____
13. LOGGING _____
14. CASING _____
15. W.O.C. _____

OTHERS (SPECIFY)
16. _____
17. _____
18. _____
19. _____
20. _____

DRILLING & GEOLOGICAL REMARKS (Sequence of Operations to be inserted below)

Drilled 8¾" hole from 9455' to 9475'. Pulled bit #16. Layed down 30 jts. drill pipe for hard banding. Ran in w/bit #17. Drilled from 9475' to 9500'.

WEATHER: TEMP. _____ °F _____

FORM No. 15R

HELTON ENGINEERING, INC.

DAILY WELL REPORT
(AS OF 8:00 A.M.)

WELL Westcoast etal Mule Shoe #1 DAY No. 51 DATE 3/19/74

DEPTH 9527 FEET MADE 27 HRS. ON BOTTOM 11

OPERATION Drilling

SURVEYS								
	9512	5						

LAST PIPE TALLY _____ BOARD _____ CORRECTION: YES ____ NO ____

WT. OF STRING M LBS. 181 WT. ON BIT M LBS. 40 ROTARY RPM 37

PUMP No. 1 D700 IN USE X LINERS 5½ x 16 SPM 60 PRESS. 1600

PUMP No. 2 _____ IN USE _____ LINERS _____ SPM _____ PRESS. _____

DRILL PIPE O.D. 4½ THD. XH DRILL COLLARS O.D. 6¼ THD. H90 No. IN HOLE 18

BIT No.	SIZE	TYPE	DEPTH IN	DEPTH OUT	FT. MADE	TOTAL HRS. RUN	JET SIZE IN 32nds			COND T	COND B	COND G	REMARKS
17	8¾	ODV	9475	9512	37	11	13	13	13	6	5	I	
18	8¾	F4	9512		15	6	13	13	13				Running
REAM BIT No.													
CORE No.							FEET CUT			FEET REC.			

MUD

WT. 9.9 VIS 39 WL 27.2 GEL 33/48 FC 2/32

PH 6.4 APP VIS _____ PLAS VIS 11 YLD. PT. 26

WATER _____ OIL _____ CL- _____ PPM

SOLIDS 3 SAND Tr. CA + + _____ PPM

DESILTER _____ hr. OUT _____ LB./GAL.

DESANDER _____ hr. OUT _____ LB./GAL.

DEGASSER _____ hr. OUT _____ LB./GAL.

TOT MUD DUMPED _____ bbls/day _____

MUD ADDED

RIG TIME

1. DRILLING	11	6. SURVEYING		11. CORING		OTHERS (SPECIFY) 16.	
2. TRIPPING	11½	7. CIRCULATING		12. TESTING		17.	
3. SERVICE & BOPS		8. CLEAN TO BTM		13. LOGGING		18.	
4. REAMING		9. COND. MUD		14. CASING		19.	
5. SLIP & CUTLINE		10. REPAIRING	1½	15. W.O.C.		20.	

DRILLING & GEOLOGICAL REMARKS (Sequence of Operations to be inserted below)

Drilled 8¾" hole from 9500' to 9512'. Pulled bit #17. Layed down 46 jts. drill pipe for hard banding. Ran in w/bit #18. Drilled from 9512' to 9527'.

WEATHER: TEMP. _____ °F

FORM No. 15R

HELTON ENGINEERING, INC.

DAILY WELL REPORT
(AS OF 8:00 A.M.)

WELL Westcoast etal Mule Shoe #1 DAY No. 52 DATE 3/20/74

DEPTH 9665 FEET MADE 138 HRS. ON BOTTOM 22

OPERATION Circulating for DST

SURVEYS								
	9644	3¾						

LAST PIPE TALLY _____ BOARD _____ CORRECTION: YES ____ NO ____

WT. OF STRING M LBS. 181 WT. ON BIT M LBS. 40 ROTARY RPM 47

PUMP No. 1 D700 IN USE X LINERS 5½ x 16 SPM 60 PRESS. 1600

PUMP No. 2 _____ IN USE _____ LINERS _____ SPM _____ PRESS. _____

DRILL PIPE O.D. 4½ THD. XH DRILL COLLARS O.D. 6¼ THD. H90 No. IN HOLE 18

BIT No.	SIZE	TYPE	DEPTH IN	DEPTH OUT	FT. MADE	TOTAL HRS. RUN	JET SIZE IN 32nds			COND T	COND B	COND G	REMARKS
18	8¾	F4	9512		153	28	13	13	13				
REAM BIT No.													
CORE No.							FEET CUT			FEET REC.			

MUD

WT. 10.0 VIS 38 WL 32 GEL 13/18 FC 2/32

PH 6.5 APP VIS _____ PLAS VIS 7 YLD. PT. 19

WATER _____ OIL _____ CL- _____ PPM

SOLIDS 3 SAND Tr. CA + + _____ PPM

DESILTER _____ hr. OUT _____ LB./GAL.

DESANDER _____ hr. OUT _____ LB./GAL.

DEGASSER _____ hr. OUT _____ LB./GAL.

TOT MUD DUMPED _____ bbls/day _____

MUD ADDED Salt - 20 Visbestos - 6
Starch - 20 Salt Gel - 2
Desco - 2

RIG TIME

1. DRILLING 22
2. TRIPPING _____
3. SERVICE & BOPS _____
4. REAMING _____
5. SLIP & CUTLINE _____
6. SURVEYING _____
7. CIRCULATING 2
8. CLEAN TO BTM _____
9. COND. MUD _____
10. REPAIRING _____
11. CORING _____
12. TESTING _____
13. LOGGING _____
14. CASING _____
15. W.O.C. _____

OTHERS (SPECIFY)
16. _____
17. _____
18. _____
19. _____
20. _____

DRILLING & GEOLOGICAL REMARKS (Sequence of Operations to be inserted below)

Drilled 8¾" hole from 9527' to 9665'. Circulated and waited for tester.

WEATHER: TEMP. 50 °F clear

FORM No. 15R

HELTON ENGINEERING, INC.

DAILY WELL REPORT
(AS OF 8:00 A.M.)

WELL Westcoast etal Mule Shoe #1 DAY No. 53 DATE 3/21/74

DEPTH 9665 FEET MADE ---- HRS. ON BOTTOM ----

OPERATION Testing

SURVEYS

LAST PIPE TALLY _____ BOARD _____ CORRECTION: YES ____ NO ____

WT. OF STRING M LBS. 181 WT. ON BIT M LBS. _____ ROTARY RPM _____

PUMP No. 1 D700 IN USE x LINERS 5½ x 16 SPM _____ PRESS. _____

PUMP No. 2 _____ IN USE _____ LINERS _____ SPM _____ PRESS. _____

DRILL PIPE O.D. 4½ THD. XH DRILL COLLARS O.D. 6¼ THD. H90 No. IN HOLE 18

BIT No.	SIZE	TYPE	DEPTH IN	DEPTH OUT	FT. MADE	TOTAL HRS. RUN	JET SIZE IN 32nds			COND T	COND B	COND G	REMARKS
18	8¾	F4	9512	9665	153	28	6	6	I				
REAM BIT No.													
CORE No.							FEET CUT			FEET REC.			

MUD

WT. 10.0 VIS 38 WL 32 GEL 13/18 FC 2/32

PH 6.5 APP VIS _____ PLAS VIS 7 YLD. PT. 19

WATER _____ OIL _____ CL-- _____ PPM

SOLIDS 3 SAND Tr. CA + + _____ PPM

DESILTER _____ hr. OUT _____ LB./GAL.

DESANDER _____ hr. OUT _____ LB./GAL.

DEGASSER _____ hr. OUT _____ LB./GAL.

TOT MUD DUMPED _____ bbls/day _____

MUD ADDED

RIG TIME

1. DRILLING _____
2. TRIPPING 7¾
3. SERVICE & BOPS 1
4. REAMING _____
5. SLIP & CUTLINE _____
6. SURVEYING ½
7. CIRCULATING 4½
8. CLEAN TO BTM _____
9. COND. MUD _____
10. REPAIRING _____
11. CORING _____
12. TESTING 7¼
13. LOGGING _____
14. CASING _____
15. W.O.C. _____

OTHERS (SPECIFY)

16. WO daylight - 3
17. _____
18. _____
19. _____
20. _____

DRILLING & GEOLOGICAL REMARKS (Sequence of Operations to be inserted below)

Pulled out of hole w/bit #18. Picked up test tool and ran in hole.
Ran DST #1 9619' to 9665'. Mississippian

WEATHER: TEMP. 32 °F clear

FORM No. 15R

HELTON ENGINEERING, INC.

DAILY WELL REPORT

(AS OF 8:00 A.M.)

WELL: Westcoast etal Mule Shoe #1 DAY No. 54 DATE 3/22/74

DEPTH: 9768 FEET MADE: 103 HRS. ON BOTTOM: 12¾

OPERATION: Drilling

SURVEYS

LAST PIPE TALLY: BOARD: CORRECTION: YES ___ NO ___

WT. OF STRING M LBS. 185 WT. ON BIT M LBS. 40 ROTARY RPM 47

PUMP No. 1 D700 IN USE X LINERS 5½ x 16 SPM 42 PRESS. 1800

PUMP No. 2 IN USE LINERS SPM PRESS.

DRILL PIPE O.D. 4½ THD. XH DRILL COLLARS O.D. 6¼ THD. H90 No. IN HOLE 18

BIT No.	SIZE	TYPE	DEPTH IN	DEPTH OUT	FT. MADE	TOTAL HRS. RUN	JET SIZE IN 32nds			COND T	COND B	COND G	REMARKS
19	8¾	J44	9665		103	12¾	14	14	14				Running
REAM BIT No.													
CORE No.							FEET CUT			FEET REC.			

MUD

WT. 10.1 VIS 35 WL 30.4 GEL 13/18 FC 2/32

PH 6.8 APP VIS PLAS VIS 9 YLD. PT. 20

WATER OIL CL-- 275,500 PPM

SOLIDS 3.5 SAND 0.1 CA + + PPM

DESILTER hr. OUT LB./GAL.

DESANDER hr. OUT LB./GAL.

DEGASSER hr. OUT LB./GAL.

TOT MUD DUMPED bbls/day

MUD ADDED Starch - 20
Salt - 10

RIG TIME

1. DRILLING 12¾
2. TRIPPING 7¼
3. SERVICE & BOPS
4. REAMING
5. SLIP & CUTLINE
6. SURVEYING
7. CIRCULATING ½
8. CLEAN TO BTM
9. COND. MUD
10. REPAIRING
11. CORING
12. TESTING 3½
13. LOGGING
14. CASING
15. W.O.C.

OTHERS (SPECIFY)

16.
17.
18.
19.
20.

DRILLING & GEOLOGICAL REMARKS (Sequence of Operations to be inserted below)

Finished running DST #1. Pulled out of hole and layed down test tools. Ran in hole w/bit #19. Drilled 8¾" hole from 9665' to 9768'.

DST #1 9619-9665 Mississippian
10-60-150-300
GIP WAB gradually increasing to SAB then steady throughout test. No GTS.
Recovered 1970' water cushion and 2800' salt water.

IHP: 5200 FFP: 1143-2369
IFP: 914-1143 FSIP: 3295
ISIP: 3295 FHP: 5185
BHT: 150°F

WEATHER: TEMP. 35 °F clear

FORM No. 15R

HELTON ENGINEERING, INC.

DAILY WELL REPORT
(AS OF 8:00 A.M.)

WELL Westcoast etal Mule Shoe #1 DAY No. 55 DATE 3/23/74

DEPTH 9938 FEET MADE 170 HRS. ON BOTTOM 24

OPERATION Drilling

SURVEYS

LAST PIPE TALLY _____ BOARD _____ CORRECTION: YES ____ NO ____

WT. OF STRING M LBS. 186 WT. ON BIT M LBS. 40 ROTARY RPM 47

PUMP No. 1 D700 IN USE X LINERS 5½ x 16 SPM _____ PRESS. _____

PUMP No. 2 _____ IN USE _____ LINERS _____ SPM 60 PRESS. 1650

DRILL PIPE O.D. 4½ THD. XH DRILL COLLARS O.D. 6¼ THD. H90 No. IN HOLE 18

BIT No.	SIZE	TYPE	DEPTH IN	DEPTH OUT	FT. MADE	TOTAL HRS. RUN	JET SIZE IN 32nds			COND T	COND B	COND G	REMARKS
19	8¾	J44	9665		273	36¾	14	14	14				Running
REAM BIT No.													
CORE No.							FEET CUT			FEET REC.			

MUD

WT. 10.2 VIS 39 WL 40 GEL 12/16 FC 2/32

PH 7.1 APP VIS _____ PLAS VIS 8 YLD. PT. 18

WATER _____ OIL _____ CL-- _____ PPM

SOLIDS 3 SAND 0.1 CA + + _____ PPM

DESILTER _____ hr. OUT _____ LB./GAL.

DESANDER _____ hr. OUT _____ LB./GAL.

DEGASSER _____ hr. OUT _____ LB./GAL.

TOT MUD DUMPED _____ bbls/day _____

MUD ADDED

Starch	- 60	Visbestos	- 14
Salt	- 30	Salt Mud	- 6
Gel	- 46		

RIG TIME

						OTHERS (SPECIFY)
1. DRILLING	24	6. SURVEYING		11. CORING		16.
2. TRIPPING		7. CIRCULATING		12. TESTING		17.
3. SERVICE & BOPS		8. CLEAN TO BTM		13. LOGGING		18.
4. REAMING		9. COND. MUD		14. CASING		19.
5. SLIP & CUTLINE		10. REPAIRING		15. W.O.C.		20.

DRILLING & GEOLOGICAL REMARKS (Sequence of Operations to be inserted below)

Drilled 8¾" hole from 9768' to 9938'.

Bottom hole assembly.
Stabilizers 60' & 120' above bit.

WEATHER: TEMP. 41 °F clear

FORM No. 15R

HELTON ENGINEERING, INC.

DAILY WELL REPORT

(AS OF 8:00 A.M.)

WELL Westcoast etal Mule Shoe #1 DAY No. 56 DATE 3/24/74

DEPTH 9986 FEET MADE 48 HRS. ON BOTTOM 20

OPERATION Tripping

SURVEYS								
	9986	2						

LAST PIPE TALLY _____ BOARD _____ CORRECTION: YES ____ NO ____

WT. OF STRING M LBS. 190 WT. ON BIT M LBS. 40 ROTARY RPM 47

PUMP No. 1 D700 IN USE X LINERS 5½ x 16 SPM 60 PRESS. 1650

PUMP No. 2 _____ IN USE _____ LINERS _____ SPM _____ PRESS. _____

DRILL PIPE O.D. 4½ THD. XH DRILL COLLARS O.D. 6¼ THD. H90 No. IN HOLE 18

BIT No.	SIZE	TYPE	DEPTH IN	DEPTH OUT	FT. MADE	TOTAL HRS. RUN	JET SIZE IN 32nds			COND T	COND B	COND G	REMARKS
19	8¾	J44	9665	9986	321	56¾	14	14	14	2	4	I	
REAM BIT No.													
CORE No.							FEET CUT			FEET REC.			

MUD

WT. 10.1 VIS 38 WL 9.6 GEL 16/19 FC 2/32

PH 7.1 APP VIS _____ PLAS VIS 9 YLD. PT. 23

WATER _____ OIL _____ CL-- _____ PPM

SOLIDS 3 SAND 0.1 CA + + _____ PPM

DESILTER _____ hr. OUT _____ LB./GAL.

DESANDER _____ hr. OUT _____ LB./GAL.

DEGASSER _____ hr. OUT _____ LB./GAL.

TOT MUD DUMPED _____ bbls/day _____

MUD ADDED Starch - 16 Hulls - 21 Visbestos - 5

Salt - 20 Gel - 2 Salt Mud - 2

RIG TIME

1. DRILLING 20
2. TRIPPING 3½
3. SERVICE & BOPS _____
4. REAMING _____
5. SLIP & CUTLINE _____
6. SURVEYING ½
7. CIRCULATING _____
8. CLEAN TO BTM _____
9. COND. MUD _____
10. REPAIRING _____
11. CORING _____
12. TESTING _____
13. LOGGING _____
14. CASING _____
15. W.O.C. _____

OTHERS (SPECIFY)

16. _____
17. _____
18. _____
19. _____
20. _____

DRILLING & GEOLOGICAL REMARKS (Sequence of Operations to be inserted below)

Drilled 8¾" hole from 9938' to 9986'. Pulled bit #19.

WEATHER: TEMP. 45 °F clear

FORM No. 15R

HELTON ENGINEERING, INC.

DAILY WELL REPORT
(AS OF 8:00 A.M.)

WELL Westcoast etal Mule Shoe #1 DAY No. 57 DATE 3/25/74

DEPTH 10033 FEET MADE 47 HRS. ON BOTTOM 17

OPERATION Tripping

SURVEYS								
	10033	2						

LAST PIPE TALLY _____ BOARD _____ CORRECTION: YES ____ NO ____

WT. OF STRING M LBS. 192 WT. ON BIT M LBS. 40 ROTARY RPM 47

PUMP No. 1 D700 IN USE X LINERS 5½ x 16 SPM 60 PRESS. 1200

PUMP No. 2 _____ IN USE _____ LINERS _____ SPM _____ PRESS. _____

DRILL PIPE O.D. 4½ THD. XH DRILL COLLARS O.D. 6¼ THD. H90 No. IN HOLE 18

BIT No.	SIZE	TYPE	DEPTH IN	DEPTH OUT	FT. MADE	TOTAL HRS. RUN	JET SIZE IN 32nds			COND T	COND B	COND G	REMARKS
20	8¾	J55	9986	10033	47	17	14	14	14	6	6	I	
REAM BIT No.													
CORE No.							FEET CUT			FEET REC.			

MUD

WT. 10.0 VIS 36 WL 10.8 GEL 14/18 FC 2/32

PH 6.9 APP VIS _____ PLAS VIS 37 YLD. PT. 18

WATER _____ OIL _____ CL-- _____ PPM

SOLIDS 3 SAND 0.1 CA + + _____ PPM

DESILTER _____ hr. OUT _____ LB./GAL.

DESANDER _____ hr. OUT _____ LB./GAL.

DEGASSER _____ hr. OUT _____ LB./GAL.

TOT MUD DUMPED _____ bbls/day _____

MUD ADDED

Desco - 3 Al. Sterate - 2

Preservative - 1

RIG TIME

1. DRILLING 17
2. TRIPPING 6
3. SERVICE & BOPS _____
4. REAMING _____
5. SLIP & CUTLINE _____
6. SURVEYING ½
7. CIRCULATING _____
8. CLEAN TO BTM _____
9. COND. MUD _____
10. REPAIRING _____
11. CORING _____
12. TESTING _____
13. LOGGING _____
14. CASING _____
15. W.O.C. _____

OTHERS (SPECIFY)

16. Slip drlg. line - ½
17. _____
18. _____
19. _____
20. _____

DRILLING & GEOLOGICAL REMARKS (Sequence of Operations to be inserted below)

Ran in w/bit #20. Drilled 8¾" hole from 9986' to 10033'. Pulled bit #20.

Removed stabilizers and ran junk basket on top bit.

WEATHER: TEMP. 45 °F clear

FORM No. 15R

HELTON ENGINEERING, INC.

DAILY WELL REPORT
(AS OF 8:00 A.M.)

WELL Westcoast etal Mule Shoe #1 DAY No. 58 DATE 3/26/74

DEPTH 10,100 FEET MADE 67 HRS. ON BOTTOM 17¾

OPERATION Drilling

SURVEYS

LAST PIPE TALLY _____ BOARD _____ CORRECTION: YES ____ NO ____

WT. OF STRING M LBS. 194 WT. ON BIT M LBS. 38 ROTARY RPM 47

PUMP No. 1 D700 IN USE X LINERS 5½ x 16 SPM 60 PRESS. 1550

PUMP No. 2 _____ IN USE _____ LINERS _____ SPM _____ PRESS. _____

DRILL PIPE O.D. 4½ THD. XH DRILL COLLARS O.D. 6¼ THD. H90 No. IN HOLE 18

BIT No.	SIZE	TYPE	DEPTH IN	DEPTH OUT	FT. MADE	TOTAL HRS. RUN	JET SIZE IN 32nds			COND T	COND B	COND G	REMARKS
21	8¾	4JS	10033		67	17¾	14	14	14				Running
REAM BIT No.													
CORE No.							FEET CUT			FEET REC.			

MUD

WT. 10.2 VIS 37 WL 8.8 GEL 12/18 FC 2/32

PH 6.8 APP VIS _____ PLAS VIS 9 YLD. PT. 18

WATER _____ OIL _____ CL- _____ PPM

SOLIDS 3 SAND 0.1 CA ++ _____ PPM

DESILTER _____ hr. OUT _____ LB./GAL.

DESANDER _____ hr. OUT _____ LB./GAL.

DEGASSER _____ hr. OUT _____ LB./GAL.

TOT MUD DUMPED _____ bbls/day _____

MUD ADDED

Starch	- 18	Visbestos	- 5
Salt	- 20	Salt Mud	- 2
Gel	- 2	Sod. Bicarb	- 2

RIG TIME

1. DRILLING	17¾	6. SURVEYING		11. CORING		OTHERS (SPECIFY) 16.	
2. TRIPPING	6¼	7. CIRCULATING		12. TESTING		17.	
3. SERVICE & BOPS		8. CLEAN TO BTM		13. LOGGING		18.	
4. REAMING		9. COND. MUD		14. CASING		19.	
5. SLIP & CUTLINE		10. REPAIRING		15. W.O.C.		20.	

DRILLING & GEOLOGICAL REMARKS (Sequence of Operations to be inserted below)

Finished running in w/bit #21. Drilled 8¾" hole from 10033' to 10,100'.

WEATHER: TEMP. 52 °F overcast

FORM No. 15R

HELTON ENGINEERING, INC.

DAILY WELL REPORT
(AS OF 8:00 A.M.)

WELL Westcoast etal Mule Shoe #1 DAY No. 59 DATE 3/27/74
DEPTH 10196 FEET MADE 96 HRS. ON BOTTOM 23¾
OPERATION Drilling

SURVEYS

LAST PIPE TALLY _____ BOARD _____ CORRECTION: YES ____ NO ____
WT. OF STRING M LBS. 197 WT. ON BIT M LBS. 40 ROTARY RPM 47
PUMP No. 1 D700 IN USE X LINERS 5½ x 16 SPM 60 PRESS. 1600
PUMP No. 2 _____ IN USE _____ LINERS _____ SPM _____ PRESS. _____
DRILL PIPE O.D. 4½ THD. XH DRILL COLLARS O.D. 6¼ THD. H90 No. IN HOLE 18

BIT No.	SIZE	TYPE	DEPTH IN	DEPTH OUT	FT. MADE	TOTAL HRS. RUN	JET SIZE IN 32nds			CONC T	CONC B	CONC G	REMARKS
21	8¾	4JS	10033		163	41½	14	14	14				Running
REAM BIT No.													
CORE No.							FEET CUT			FEET REC.			

MUD
WT. 10.3 VIS 36 WL 9.4 GEL 13/16 FC 2/32
PH 6.7 APP VIS _____ PLAS VIS 8 YLD. PT. 18
WATER _____ OIL _____ CL- _____ PPM
SOLIDS 3 SAND 0.1 CA ++ _____ PPM

DESILTER _____ hr. OUT _____ LB./GAL.
DESANDER _____ hr. OUT _____ LB./GAL.
DEGASSER _____ hr. OUT _____ LB./GAL.
TOT MUD DUMPED _____ bbls/day _____

MUD ADDED
Starch - 14 Salt mud - 4
Salt - 25 Visbestos - 10
Gel - 4 Sod. Bicarb - 1

RIG TIME

1. DRILLING 23¾
2. TRIPPING _____
3. SERVICE & BOPS ¼
4. REAMING _____
5. SLIP & CUTLINE _____
6. SURVEYING _____
7. CIRCULATING _____
8. CLEAN TO BTM _____
9. COND. MUD _____
10. REPAIRING _____
11. CORING _____
12. TESTING _____
13. LOGGING _____
14. CASING _____
15. W.O.C. _____

OTHERS (SPECIFY)
16. _____
17. _____
18. _____
19. _____
20. _____

DRILLING & GEOLOGICAL REMARKS (Sequence of Operations to be inserted below)

Drilled 8¾" hole from 10,100' to 10,196'.

WEATHER: TEMP. 47 °F clear

FORM No. 15R

HELTON ENGINEERING, INC.

DAILY WELL REPORT
(AS OF 8:00 A.M.)

WELL Westcoast etal Mule Shoe #1 DAY No. 60 DATE 3/28/74

DEPTH 10,248 FEET MADE 52 HRS. ON BOTTOM 16¾

OPERATION Drilling

SURVEYS								

LAST PIPE TALLY _____ BOARD _____ CORRECTION: YES ____ NO ____

WT. OF STRING M LBS. 197 WT. ON BIT M LBS. 40 ROTARY RPM 47

PUMP No. 1 D700 IN USE X LINERS 5½ x 16 SPM 60 PRESS. 1200

PUMP No. 2 _____ IN USE _____ LINERS _____ SPM _____ PRESS. _____

DRILL PIPE O.D. 4½ THD. XH DRILL COLLARS O.D. 6¼ THD. H90 No. IN HOLE 18

BIT No.	SIZE	TYPE	DEPTH IN	DEPTH OUT	FT. MADE	TOTAL HRS. RUN	JET SIZE IN 32nds			COND T	COND B	COND G	REMARKS
21	8¾	4JS	10033	10214	181	47	14	14	14	1	3	I	
22	8¾	5JS	10214		34	10¼	14	14	14				Running
REAM BIT No.													
CORE No.							FEET CUT			FEET REC.			

MUD

WT. 10.2 VIS 35 WL 10.4 GEL 12/17 FC 2/32

PH 6.7 APP VIS _____ PLAS VIS 9 YLD. PT. 17

WATER _____ OIL _____ CL-- _____ PPM

SOLIDS 3 SAND 0.1 CA ++ _____ PPM

DESILTER _____ hr. OUT _____ LB./GAL.

DESANDER _____ hr. OUT _____ LB./GAL.

DEGASSER _____ hr. OUT _____ LB./GAL.

TOT MUD DUMPED _____ bbls/day _____

MUD ADDED Starch - 6 Visbestos - 5
Salt - 10 Salt mud - 2
Gel - 2

RIG TIME

1. DRILLING	16¾	6. SURVEYING		11. CORING		OTHERS (SPECIFY) 16.	
2. TRIPPING	7¼	7. CIRCULATING		12. TESTING		17.	
3. SERVICE & BOPS		8. CLEAN TO BTM		13. LOGGING		18.	
4. REAMING		9. COND. MUD		14. CASING		19.	
5. SLIP & CUTLINE		10. REPAIRING		15. W.O.C.		20.	

DRILLING & GEOLOGICAL REMARKS (Sequence of Operations to be inserted below)

Drilled 8¾" hole from 10196' to 10214'. Pulled bit #21 and ran in w/bit #22.
Drilled from 10214' to 10248'.

WEATHER: TEMP. 50 °F clear

FORM No. 15R

HELTON ENGINEERING, INC.

DAILY WELL REPORT
(AS OF 8:00 A.M.)

WELL Westcoast etal Mule Shoe #1 DAY No. 61 DATE 3/29/74

DEPTH 10324 FEET MADE 76 HRS. ON BOTTOM 24

OPERATION Drilling

SURVEYS

LAST PIPE TALLY _____ BOARD _____ CORRECTION: YES ____ NO ____

WT. OF STRING M LBS. 198 WT. ON BIT M LBS. 40 ROTARY RPM 47

PUMP No. 1 D700 IN USE X LINERS 5½ x 16 SPM 60 PRESS. 1250

PUMP No. 2 _____ IN USE _____ LINERS _____ SPM _____ PRESS. _____

DRILL PIPE O.D. 4½ THD. XH DRILL COLLARS O.D. 6¼ THD. H90 No. IN HOLE 18

BIT No.	SIZE	TYPE	DEPTH IN	DEPTH OUT	FT. MADE	TOTAL HRS. RUN	JET SIZE IN 32nds			COND T	COND B	COND G	REMARKS
22	8¾	5JS	10214		110	34¼	14	14	14				Running
REAM BIT No.													
CORE No.							FEET CUT			FEET REC.			

MUD

WT. 10.2 VIS 36 WL 10.5 GEL 12/18 FC 2/32

PH 6.7 APP VIS _____ PLAS VIS 9 YLD. PT. 17

WATER _____ OIL _____ CL- _____ PPM

SOLIDS 3 SAND 0.1 CA + + _____ PPM

DESILTER _____ hr. OUT _____ LB./GAL.

DESANDER _____ hr. OUT _____ LB./GAL.

DEGASSER _____ hr. OUT _____ LB./GAL.

TOT MUD DUMPED _____ bbls/day _____

MUD ADDED

Starch	- 54	Visbestos	- 11
Salt	- 30	Salt mud	- 7
Gel	- 7	Sod. Bicarb	- 2

RIG TIME

1. DRILLING 24
2. TRIPPING _____
3. SERVICE & BOPS _____
4. REAMING _____
5. SLIP & CUTLINE _____
6. SURVEYING _____
7. CIRCULATING _____
8. CLEAN TO BTM _____
9. COND. MUD _____
10. REPAIRING _____
11. CORING _____
12. TESTING _____
13. LOGGING _____
14. CASING _____
15. W.O.C. _____

OTHERS (SPECIFY)

16. _____
17. _____
18. _____
19. _____
20. _____

DRILLING & GEOLOGICAL REMARKS (Sequence of Operations to be inserted below)

Drilled 8¾" hole from 10,248' to 10,324'.

WEATHER: TEMP. 35 °F partly cloudy

FORM No. 15R

HELTON ENGINEERING, INC.

DAILY WELL REPORT

(AS OF 8:00 A.M.)

WELL Westcoast etal Mule Shoe #1 DAY No. 62 DATE 3/30/74

DEPTH 10362 FEET MADE 38 HRS. ON BOTTOM 17

OPERATION Drilling

SURVEYS								
	10,340	- no	picture					

LAST PIPE TALLY _____ BOARD _____ CORRECTION: YES ____ NO ____

WT. OF STRING M LBS. 200 WT. ON BIT M LBS. 45 ROTARY RPM 47

PUMP No. 1 D700 IN USE X LINERS 5½ x 16 SPM 60 PRESS. 1200

PUMP No. 2 _____ IN USE _____ LINERS _____ SPM _____ PRESS. _____

DRILL PIPE O.D. 4½ THD. XH DRILL COLLARS O.D. 6¼ THD. H90 No. IN HOLE 18

BIT No.	SIZE	TYPE	DEPTH IN	DEPTH OUT	FT. MADE	TOTAL HRS. RUN	JET SIZE IN 32nds			CONG T	CONG B	CONG G	REMARKS
22	8¾	5JS	10214	10340	126	42¼	14	14	14	3	4	I	
20	8¾	J55	10340		22	9	14	15	16				Running rerun
REAM BIT No.													
CORE No.							FEET CUT			FEET REC.			

MUD

WT. 10.1 VIS 35 WL 8.0 GEL 13/17 FC 1/32

PH 6.8 APP VIS _____ PLAS VIS 10 YLD. PT. 19

WATER _____ OIL _____ CL-- _____ PPM

SOLIDS 0.1 SAND 3 CA + + _____ PPM

DESILTER _____ hr. OUT _____ LB./GAL.

DESANDER _____ hr. OUT _____ LB./GAL.

DEGASSER _____ hr. OUT _____ LB./GAL.

TOT MUD DUMPED _____ bbls/day _____

MUD ADDED Starch - 27 Visbestos - 17 Salt mud - 6

Salt - 14 Sod. Bicarb- 2

Gel - 8 Hulls - 20

RIG TIME

1. DRILLING 17
2. TRIPPING 6¾
3. SERVICE & BOPS _____
4. REAMING _____
5. SLIP & CUTLINE _____
6. SURVEYING ¼
7. CIRCULATING _____
8. CLEAN TO BTM _____
9. COND. MUD _____
10. REPAIRING _____
11. CORING _____
12. TESTING _____
13. LOGGING _____
14. CASING _____
15. W.O.C. _____

OTHERS (SPECIFY)

16. _____
17. _____
18. _____
19. _____
20. _____

DRILLING & GEOLOGICAL REMARKS (Sequence of Operations to be inserted below)

Drilled 8¾" hole from 10,324' to 10,340'. Pulled bit #22.
Removed junk basket and ran in w/rerun bit #20.
Drilled from 10,340' to 10,362'.

WEATHER: TEMP. 48 °F partly cloudy

FORM No. 15R

HELTON ENGINEERING, INC.

DAILY WELL REPORT

(AS OF 8:00 A.M.)

WELL Westcoast etal Mule Shoe #1 DAY No. 63 DATE 3/31/74

DEPTH 10,375' TD FEET MADE 13 HRS. ON BOTTOM 6

OPERATION Logging

SURVEYS								
	10,375	1½						

LAST PIPE TALLY _____ BOARD _____ CORRECTION: YES ____ NO ____

WT. OF STRING M LBS. 200 WT. ON BIT M LBS. 45 ROTARY RPM 47

PUMP No. 1 D700 IN USE x LINERS 5½ x 16 SPM 60 PRESS. 1250

PUMP No. 2 _____ IN USE _____ LINERS _____ SPM _____ PRESS. _____

DRILL PIPE O.D. 4½ THD. XH DRILL COLLARS O.D. 6¼ THD. H90 No. IN HOLE 18

BIT No.	SIZE	TYPE	DEPTH IN	DEPTH OUT	FT. MADE	TOTAL HRS. RUN	JET SIZE IN 32nds			COND T	COND B	COND G	REMARKS
20	8¾	J55	10,340	10,375	35	15	14	15	16	3	4	I	
REAM BIT No.													
CORE No.							FEET CUT			FEET REC.			

MUD

WT. 10.2 VIS 45 WL 8.2 GEL 13/17 FC 2/32

PH 6.8 APP VIS _____ PLAS VIS 10 YLD. PT. 19

WATER _____ OIL _____ CL-- _____ PPM

SOLIDS 3 SAND 0.1 CA + + _____ PPM

DESILTER _____ hr. OUT _____ LB./GAL.

DESANDER _____ hr. OUT _____ LB./GAL.

DEGASSER _____ hr. OUT _____ LB./GAL.

TOT MUD DUMPED _____ bbls/day _____

MUD ADDED

RIG TIME

1. DRILLING 6
2. TRIPPING 4
3. SERVICE & BOPS _____
4. REAMING _____
5. SLIP & CUTLINE _____
6. SURVEYING ½
7. CIRCULATING 1½
8. CLEAN TO BTM _____
9. COND. MUD _____
10. REPAIRING _____
11. CORING _____
12. TESTING _____
13. LOGGING 12
14. CASING _____
15. W.O.C. _____

OTHERS (SPECIFY)

16. _____
17. _____
18. _____
19. _____
20. _____

DRILLING & GEOLOGICAL REMARKS (Sequence of Operations to be inserted below)

Drilled 8¾" hole from 10,362' to 10,375'. Pulled bit #20. Ran Dresser Atlas logs.

WEATHER: TEMP. 35 °F snowing

FORM No. 15R

HELTON ENGINEERING, INC.

DAILY WELL REPORT

(AS OF 8:00 A.M.)

WELL Westcoast etal Mule Shoe #1 DAY No. 64 DATE 4/1/74

DEPTH 9300 PBTD FEET MADE ---- HRS. ON BOTTOM ----

OPERATION Tripping

SURVEYS

LAST PIPE TALLY _____ BOARD _____ CORRECTION: YES ____ NO ____

WT. OF STRING M LBS. _____ WT. ON BIT M LBS. _____ ROTARY RPM _____

PUMP No. 1 _____ IN USE _____ LINERS _____ SPM _____ PRESS. _____

PUMP No. 2 _____ IN USE _____ LINERS _____ SPM _____ PRESS. _____

DRILL PIPE O.D. 4½ THD. XH DRILL COLLARS O.D. _____ THD. _____ No. IN HOLE _____

BIT No.	SIZE	TYPE	DEPTH IN	DEPTH OUT	FT. MADE	TOTAL HRS. RUN	JET SIZE IN 32nds	COND T	COND B	COND G	REMARKS
REAM BIT No.											
CORE No.							FEET CUT	FEET REC.			

MUD

WT. 10.2 VIS 44 WL 8.8 GEL 12/18 FC 2/32

PH 6.9 APP VIS _____ PLAS VIS 10 YLD. PT. 19

WATER _____ OIL _____ CL- _____ PPM

SOLIDS 3 SAND 0.1 CA ++ _____ PPM

DESILTER _____ hr. OUT _____ LB./GAL.

DESANDER _____ hr. OUT _____ LB./GAL.

DEGASSER _____ hr. OUT _____ LB./GAL.

TOT MUD DUMPED _____ bbls/day _____

MUD ADDED

RIG TIME

1. DRILLING _____
2. TRIPPING 4½
3. SERVICE & BOPS _____
4. REAMING _____
5. SLIP & CUTLINE _____
6. SURVEYING _____
7. CIRCULATING 7¼
8. CLEAN TO BTM _____
9. COND. MUD _____
10. REPAIRING _____
11. CORING _____
12. TESTING _____
13. LOGGING 9
14. CASING _____
15. W.O.C. _____

OTHERS (SPECIFY)

16. Plugging - 3¼
17. _____
18. _____
19. _____
20. _____

DRILLING & GEOLOGICAL REMARKS (Sequence of Operations to be inserted below)

Finished running Dresser Atlas logs. Ran in hole open ended. Set plugs #1, 2, & 3

Dresser Atlas Logs
Laterolog 2" & 5" 10368' - 3403'
BHC Acoustilog 2" & 5" 10364' - 3403'
Dipmeter
Velocity survey
TD Driller - 10,375' TD Logger - 10,374'

Plug #1 9960-10060 50 scks
Plug #2 9500-9700 105 scks
Plug #3 9300-9425 60 scks

WEATHER: TEMP. 38 °F partly cloudy

FORM No. 15R

HELTON ENGINEERING, INC.

DAILY WELL REPORT
(AS OF 8:00 A.M.)

WELL Westcoast etal Mule Shoe #1 DAY No. 65 DATE 4/2/74

DEPTH 9361 PBTD FEET MADE ---- HRS. ON BOTTOM ----

OPERATION Pulling DST #2

SURVEYS								

LAST PIPE TALLY _____ BOARD _____ CORRECTION: YES ____ NO ____

WT. OF STRING M LBS. _____ WT. ON BIT M LBS. _____ ROTARY RPM _____

PUMP No. 1 _____ IN USE _____ LINERS _____ SPM _____ PRESS. _____

PUMP No. 2 _____ IN USE _____ LINERS _____ SPM _____ PRESS. _____

DRILL PIPE O.D. 4½ THD. XH DRILL COLLARS O.D. 6¼ THD. H90 No. IN HOLE 18

BIT No.	SIZE	TYPE	DEPTH IN	DEPTH OUT	FT. MADE	TOTAL HRS. RUN	JET SIZE IN 32nds	COND T	COND B	COND G	REMARKS
REAM BIT No.											
CORE No.							FEET CUT	FEET REC.			

MUD

WT. 10.1 VIS 38 WL 10.8 GEL 14/17 FC 2/32

PH 6.8 APP VIS _____ PLAS VIS 10 YLD. PT. 20

WATER _____ OIL _____ CL- _____ PPM

SOLIDS 3 SAND 0.1 CA ++ _____ PPM

DESILTER _____ hr. OUT _____ LB./GAL.

DESANDER _____ hr. OUT _____ LB./GAL.

DEGASSER _____ hr. OUT _____ LB./GAL.

TOT MUD DUMPED _____ bbls/day _____

MUD ADDED

RIG TIME

1. DRILLING _____
2. TRIPPING 8
3. SERVICE & BOPS _____
4. REAMING _____
5. SLIP & CUTLINE _____
6. SURVEYING _____
7. CIRCULATING _____
8. CLEAN TO BTM _____
9. COND. MUD _____
10. REPAIRING _____
11. CORING _____
12. TESTING 6
13. LOGGING _____
14. CASING _____
15. W.O.C. 5

OTHERS (SPECIFY)

16. Drill cement & condition mud-4
17. Slip drlg. line - 1
18. _____
19. _____
20. _____

DRILLING & GEOLOGICAL REMARKS (Sequence of Operations to be inserted below)

Ran in hole w/bit and polished off cement plug to 9361'. Pulled out picked up test tool and ran in w/DST #2. Packer seat failed. Started out w/test tool.

Felt plug @ 9358'. Drilled cement to 9361'. Took 40,000 # weight.

DST #2 9140'-9361' Cane Creek

Misrun, packer seat failed. Chased packer 10' when tool opened.
Jarred for 20 minutes to pull tool loose.

WEATHER: TEMP. 30 °F snowing

FORM No. 15R

HELTON ENGINEERING, INC.

DAILY WELL REPORT

(AS OF 8:00 A.M.)

WELL Westcoast etal Mule Shoe #1 DAY No. 66 DATE 4/3/74

DEPTH 9370 PBTD FEET MADE _____ HRS. ON BOTTOM _____

OPERATION Running DST #3

SURVEYS

LAST PIPE TALLY _____ BOARD _____ CORRECTION: YES ____ NO ____

WT. OF STRING M LBS. _____ WT. ON BIT M LBS. _____ ROTARY RPM _____

PUMP No. 1 _____ IN USE _____ LINERS _____ SPM _____ PRESS. _____

PUMP No. 2 _____ IN USE _____ LINERS _____ SPM _____ PRESS. _____

DRILL PIPE O.D. 4½ THD. XH DRILL COLLARS O.D. 6¼ THD. H90 No. IN HOLE 18

BIT No.	SIZE	TYPE	DEPTH IN	DEPTH OUT	FT. MADE	TOTAL HRS. RUN	JET SIZE IN 32nds	COND T	COND B	COND G	REMARKS
REAM BIT No.											
CORE No.							FEET CUT	FEET REC.			

MUD

WT. 10.0 VIS 39 WL 8.0 GEL 12/16 FC 1/32

PH 9.4 APP VIS _____ PLAS VIS 18 YLD. PT. 16

WATER _____ OIL _____ CL-- _____ PPM

SOLIDS 3 SAND 0.1 CA + + _____ PPM

DESILTER _____ hr. OUT _____ LB./GAL.

DESANDER _____ hr. OUT _____ LB./GAL.

DEGASSER _____ hr. OUT _____ LB./GAL.

TOT MUD DUMPED _____ bbls/day _____

MUD ADDED Salt - 20 Vishestos - 6

RIG TIME

1. DRILLING		6. SURVEYING		11. CORING		OTHERS (SPECIFY) 16.	
2. TRIPPING	7	7. CIRCULATING	4½	12. TESTING	12½	17.	
3. SERVICE & BOPS		8. CLEAN TO BTM		13. LOGGING		18.	
4. REAMING		9. COND. MUD		14. CASING		19.	
5. SLIP & CUTLINE		10. REPAIRING		15. W.O.C.		20.	

DRILLING & GEOLOGICAL REMARKS (Sequence of Operations to be inserted below)

Finished pulling DST #2. Ran in w/bit and drilled cement to 9370'.
Took 65,000# weight. Pulled bit and ran in w/DST #3.

WEATHER: TEMP. 20 °F clear

FORM No. 15R

HELTON ENGINEERING, INC.

DAILY WELL REPORT
(AS OF 8:00 A.M.)

WELL Westcoast etal Mule Shoe #1 DAY No. 67 DATE 4/4/74

DEPTH _____ FEET MADE _____ HRS. ON BOTTOM _____

OPERATION Laying down drill pipe

SURVEYS

LAST PIPE TALLY _____ BOARD _____ CORRECTION: YES ____ NO ____

WT. OF STRING M LBS. _____ WT. ON BIT M LBS. _____ ROTARY RPM _____

PUMP No. 1 _____ IN USE _____ LINERS _____ SPM _____ PRESS. _____

PUMP No. 2 _____ IN USE _____ LINERS _____ SPM _____ PRESS. _____

DRILL PIPE O.D. _____ THD. _____ DRILL COLLARS O.D. _____ THD. _____ No. IN HOLE _____

BIT No.	SIZE	TYPE	DEPTH IN	DEPTH OUT	FT. MADE	TOTAL HRS. RUN	JET SIZE IN 32nds	COND T	COND B	COND G	REMARKS
REAM BIT No.											
CORE No.							FEET CUT	FEET REC.			

MUD

WT. _____ VIS _____ WL _____ GEL _____ FC _____

PH _____ APP VIS _____ PLAS VIS _____ YLD. PT. _____

WATER _____ OIL _____ CL- _____ PPM

SOLIDS _____ SAND _____ CA ++ _____ PPM

DESILTER _____ hr. OUT _____ LB./GAL.

DESANDER _____ hr. OUT _____ LB./GAL.

DEGASSER _____ hr. OUT _____ LB./GAL.

TOT MUD DUMPED _____ bbls/day _____

MUD ADDED

RIG TIME

1. DRILLING _____
2. TRIPPING 3¼
3. SERVICE & BOPS _____
4. REAMING _____
5. SLIP & CUTLINE _____
6. SURVEYING _____
7. CIRCULATING _____
8. CLEAN TO BTM _____
9. COND. MUD _____
10. REPAIRING _____
11. CORING _____
12. TESTING 7
13. LOGGING _____
14. CASING _____
15. W.O.C. _____

OTHERS (SPECIFY)

16. Plugging - 5½
17. Lay down drill pipe - 8¼
18. _____
19. _____
20. _____

DRILLING & GEOLOGICAL REMARKS (Sequence of Operations to be inserted below)

Pulled DST #3. Ran in open ended. Set plugs #4, 5, 6, & 7.
Layed down drill pipe and drill collars.

DST #3 9210-9370 Cane Creek
10-30-45-60
GIP WAB dead in 45 min.
Recovered 1514' water cushion & 279' slightly gas cut mud
IHP: 5033 FFP: 947-947
IFP: 873-873 FSIP: 3055
ISIP: 1446 FHP: 5033
BHT: 138°

Plug #4 8400-8500 60 scks
Plug #5 6350-6450 60 scks
Plug #6 3350-3450 80 scks
Plug #7 2300-2400 50 scks

WEATHER: TEMP. _____ °F

FORM No. 15R

HELTON ENGINEERING, INC.

DAILY WELL REPORT

(AS OF 8:00 A.M.)

WELL Westcoast etal Mule Shoe #1 DAY No. 68 DATE 4/5/74

DEPTH _____ FEET MADE _____ HRS. ON BOTTOM _____

OPERATION P&A

SURVEYS								

LAST PIPE TALLY _____ BOARD _____ CORRECTION: YES ____ NO ____

WT. OF STRING M LBS. _____ WT. ON BIT M LBS. _____ ROTARY RPM _____

PUMP No. 1 _____ IN USE _____ LINERS _____ SPM _____ PRESS. _____

PUMP No. 2 _____ IN USE _____ LINERS _____ SPM _____ PRESS. _____

DRILL PIPE O.D. _____ THD. _____ DRILL COLLARS O.D. _____ THD. _____ No. IN HOLE _____

BIT No.	SIZE	TYPE	DEPTH IN	DEPTH OUT	FT. MADE	TOTAL HRS. RUN	JET SIZE IN 32nds			COND T	COND B	COND G	REMARKS
REAM BIT No.													
CORE No.							FEET CUT			FEET REC.			

MUD

WT. _____ VIS _____ WL _____ GEL _____ FC _____

PH _____ APP VIS _____ PLAS VIS _____ YLD. PT. _____

WATER _____ OIL _____ CL- _____ PPM

SOLIDS _____ SAND _____ CA + + _____ PPM

DESILTER _____ hr. OUT _____ LB./GAL.

DESANDER _____ hr. OUT _____ LB./GAL.

DEGASSER _____ hr. OUT _____ LB./GAL.

TOT MUD DUMPED _____ bbls/day _____

MUD ADDED

RIG TIME

1. DRILLING _____
2. TRIPPING _____
3. SERVICE & BOPS _____
4. REAMING _____
5. SLIP & CUTLINE _____
6. SURVEYING _____
7. CIRCULATING _____
8. CLEAN TO BTM _____
9. COND. MUD _____
10. REPAIRING _____
11. CORING _____
12. TESTING _____
13. LOGGING _____
14. CASING _____
15. W.O.C. _____

OTHERS (SPECIFY)

16. Lay down drill pipe, remove
17. BOP's and cut off casing
18. bowl - 10
19. _____
20. _____

DRILLING & GEOLOGICAL REMARKS (Sequence of Operations to be inserted below)

Finished laying down drill pipe, removed BOP's. Cut off casing bowl. Ran 5 sck cement plug @ surface. Installed dry hole marker.

Rig released: 4:00 PM 4/4/74

WEATHER: TEMP. _____ °F _____

FORM No. 15R

HELTON ENGINEERING, I[illegible]

BIT RECORD

Well Name Westcoast etal Mule Shoe #1

Location NW NW Sec. 10, T28S-R23E [redacted] San Juan, County Utah

Bit No.	DEPTH From	DEPTH To	Size	MAKE AND TYPE	Footage	Hours Run	REMARKS
1A	0	41	12¼	Smith DGJ	41	12	
2A	41	380	12¼	HTC ODVJ	339	20	
3A	0	230	17½	Security HD Hole opener	230	14½	Reaming
4A	230	355	17½	Security 3 point Hole opener	125	6¼	Reaming
1	380	781	12¼	Reed YHG	401	20¼	
2	781	3207	12¼	Reed SCH5J	2426	86	
3	3207	3457	12¼	Smith T2HJ	250	11	
4	3457	3817	8¾	Security MH4G	360	23¾	
5	3817	4966	8¾	Smith F38	1149	54¾	
6	4966	4986	8¾	Smith L4HJ	20	5	
7	4986	5127	8¾	HTC ODVJ	141	33½	
8	5127	5308	8¾	HTC ODVJ	181	20¼	
9	5308	6477	8¾	HTC J-33	1169	108½	
10	6477	7060	8¾	Smith F3	583	56½	
11	7060	7530	8¾	Smith 4JS	470	91½	
12	7530	7546	8¾	Reed Y23G	16	4	Drilling on iron
13	7546	8176	8¾	HTC J-33	630	103	
14	8176	8643	8¾	Reed F53J	467	92½	
15	8643	9061	8¾	HTC ODV	418	32½	
16	9061	9475	8¾	HTC ODV	414	40	
17	9475	9512	8¾	HTC ODV	37	11	
18	9512	9665	8¾	Smith F4	153	28	Pulled to test

HELTON ENGINEERING, I[redacted]

BIT RECORD

Well Name Westcoast etal Mule Shoe #1

Location NW NW Sec. 10, T28S-R23E [redacted] San Juan, County Utah

Bit No.	DEPTH From	DEPTH To	Size	MAKE AND TYPE	Footage	Hours Run	REMARKS
19	9665	9986	8¾	HTC J44	321	56¾	
20	9986	10033	8¾	HTC J55	47	17	
21	10033	10214	8¾	Smith 4JS	181	47	
22	10214	10340	8¾	Smith 5JS	126	42¼	
20	10340	10375	8¾	HTC J55	35	15	Rerun

Form 4

HELTON ENGINEERING [redacted] INC.

WELL NAME: Westcoast etal Mule Shoe #1

DEVIATION SURVEYS

Depth Feet	Deviation Degrees	Change Degrees	Interval Feet	Hole Size Inches
60	¾°	+¾°	60	12¼"
150	¾°	--	90	12¼"
380	1¼°	+½°	230	12¼"
688	¾°	-½°	308	12¼"
1244	1½°	+¾°	556	12¼"
1754	1¾°	+¼°	510	12¼"
2259	2¼°	+½°	505	12¼"
3457	2¼°	--	1198	12¼"
3520	2¼°	--	63	8¾"
3817	2°	-¼°	297	8¾"
4300	2°	--	783	8¾"
4810	6¼°	+4¼°	510	8¾"
4910	9°	+2¾°	100	8¾"
4960	10°	+1°	50	8¾"
4970	9°	-1°	10	8¾"

Form S-33

HELTON ENGINEERING [redacted] INC.

WELL NAME: Westcoast etal Mule Shoe #1

DEVIATION SURVEYS

Depth Feet	Deviation Degrees	Change Degrees	Interval Feet	Hole Size Inches
5000	9°	--	30'	8¾"
5039	8¾°	-¼°	39	8¾"
5079	8½°	-¼°	40	8¾"
5105	8¼°	-¼°	26	8¾"
5125	8°	-¼°	20	8¾"
5143	8°	--	18	8¾"
5174	8°	--	31	8¾"
5230	8°	--	56	8¾"
5308	7°	-1°	78	8¾"
5365	8°	+1°	57	8¾"
5388	8°	--	23	8¾"
5459	8¼°	+¼°	71	8¾"
5491	8¼°	--	32	8¾"
5521	8¼°	--	30	8¾"
5553	8°	-¼°	32	8¾"

Form S-33

HELTON ENGINEERING [redacted] INC.

WELL NAME: Westcoast etal Mule Shoe #1

DEVIATION SURVEYS

Depth Feet	Deviation Degrees	Change Degrees	Interval Feet	Hole Size Inches
5583	7¾°	-¼°	30	8¾"
5703	7°	-¾°	120	8¾"
5760	6¾°	-¼°	57	8¾"
5802	6¼°	-½°	42	8¾"
5857	6½°	+¼°	55	8¾"
5920	6°	-½°	63	8¾"
5984	6°	--	64	8¾"
6058	6°	--	74	8¾"
6126	6°	--	68	8¾"
6170	6°	--	44	8¾"
6237	6°	--	67	8¾"
6300	6¼°	+¼°	63	8¾"
6371	6¼°	--	71	8¾"
6458	7°	+¾°	87	8¾"
6520	7½°	+½°	62	8¾"

Form S-33

HELTON ENGINEERING [redacted] INC.

WELL NAME: Westcoast etal Mule Shoe #1

DEVIATION SURVEYS

Depth Feet	Deviation Degrees	Change Degrees	Interval Feet	Hole Size Inches
6588	7°	-½°	68	8¾"
6657	7°	--	69	8¾"
6720	7°	--	63	8¾"
6805	6¾°	-¼°	85	8¾"
6939	7°	+¼°	134	8¾"
7055	7¾°	+¾°	116	8¾"
7128	8½°	+¾°	73	8¾"
7160	8¼°	-¼°	32	8¾"
7256	8¼°	--	96	8¾"
7319	8¼°	--	63	8¾"
7395	8°	-¼°	76	8¾"
7438	8½°	+½°	44	8¾"
7502	9°	+½°	64	8¾"
7598	8¼°	-¾°	96	8¾"
7700	8°	-¼°	102	8¾"

Form S-33

HELTON ENGINEERING [redacted] INC.

WELL NAME: Westcoast etal Mule Shoe #1

DEVIATION SURVEYS

Depth Feet	Deviation Degrees	Change Degrees	Interval Feet	Hole Size Inches
7788	8½°	+½°	88	8¾"
7859	7½°	-1°	71	8¾"
7914	9½°	+2°	55	8¾"
8017	10°	+½°	103	8¾"
8113	9°	-1°	96	8¾"
8407	10°	+1°	294	8¾"
8533	11°	+1°	126	8¾"
9041	8°	-3°	508	8¾"
9475	Misrun			
9512	5°	-3°	471	8¾"
9644	3¾°	-1¼°	132	8¾"
9986	2°	-1¾°	342	8¾"
10,033	2°	--	47	8¾"
10,340	Misrun			
10,375	1½°	-½°	342	8¾"

Form S-33

MUD SUMMARY

Materials Used

Barytes	47 scks	Preservative	11 scks
Salt Mud	117 scks	Rayvan (lignosulf.)	18 scks
Gel	854 scks	Salt	397 scks
CMC	31 scks	Sodium Bichromate	28 scks
Aluminum Stearate	10 scks	Soda Ash	31 scks
Ben-Ex	108 scks	Starch	431 scks
Bicarbonate of Soda	4 scks	Super Visbestos	214 scks
Caustic Soda	60 scks	Colorado Fibre	115 scks
Causticised Lignite	4 scks	Cottonseed Hulls	34 scks
Desco	25 scks	Kwik Seal	55 scks
Drillaid 412	1 drum	Walnut Hulls	132 scks
Lime	9 scks		

Cost of Material	-	$27,280.00
Cost of Trucking	-	$ 1,320.00
Total Cost	-	$28,600.00

1. Surface Hole - drilled with water using some gel and lime to increase viscosity in order to clean hole.

2. Intermediate Hole - drilled with air to 3457'. Trouble was encountered in getting logs to bottom so hole was mudded up with gel-chemical.

3. Main Hole - drilled with water to 6500' using Ben-Ex to floculate solids. Mudded up at 6500' with Beneficiated Gel System to 8780'. A salt saturated system was then used to TD.

Throughout the job hole conditions were excellent with no bridges or excessive fill on bottom encountered except while running intermediate logs. Some problems could be anticipated however after drilling the intermediate hole with air and mudding up at the time logs were being run. Drilling with water from under intermediate casing to 6500' contributed to a considerable saving in the total mud cost as well as improving penetration rates through that section. No adverse effects on hole conditions from using water were noted.

HELTON ENGINEERING, INC.

RUNNING and CEMENTING

Surface Casing
~~Intermediate Casing~~
~~Production Casing~~
~~Liners~~

O.D. 13-3/8"

GENERAL

Well Westcoast etal Mule Shoe #1 Location Sec. 10, T28S-R23E Date 30 Jan/74

K.B. Elevation 6400' K.B. Csg. Flge. 17.50 Total Depth (Driller) 380'

Hole Size	17½"	12¼"		Casing in Hole		
Depth	355'	380'		Depth Set		

Mud: Type Water Wt. Visc. W.L.

B.O.P.'s N/A

RUNNING

Power Tongs Torque: Max. Nom. Min.

Time pipe started 12:00 Noon Time on Bottom 4:30 PM Time Circulated 20 min.

Fill-up Points Btm. by Csg. Ft. up from K.B.

Remarks

CEMENTING

Cement Co. Dowell Operator Bob Timlin Time on Location 9:00 AM

Types & Quantities of Cement 325 scks regular

Ht. to be Cemented to surface

Water ahead 20 bbls. Mix Times: Start 4:50 PM Finish 5:16 PM Slurry Wt. 15.6

Calc. Disp. 49.9 bbls. Measured Disp. 50.2 bbls. Displacement: Start 5:18 PM Finish 5:30 PM

Max. Pumping Press. 400 Bump Press 800 Bumped by Dowell No. Times Bumped 1

Cement Returns: Yes/No Yes Float held Yes Work Casing feet while Circulating/Cementing

Remarks:

LANDING

Time Landed 5:30 PM Date 1/30/74 Init. Wt. of Cem. String (less blocks) 16,500

Wt. Landed in Slips Make of Bowl Cameron Nom. Size 12" Series 900

Slip & Seal Assembly Remarks

OPERATOR Westcoast Oil & Gas Corporation

AGENT OF OPERATOR O. Gilliland

Form 3 (McAra)

HELTON ENGINEERING, INC.

CASING SUMMARY

Surface Casing
~~Intermediate Casing~~
~~Production Casing~~
~~Liner~~

O.D. 13-3/8"

Well Westcoast etal Mule Shoe #1 Location Sec. 10, 28S-23E Date 30 Jan/74

Jts. on Locat.	Ft. on Locat.	Csg. Wt.	Gr.	Rge.	Thd.	T.&C.	Make	Jts. Run	Depth Landed	Ft. Run in Well
9	359.32	48#	H-40	III	8 rd	S		9	355.00	359.32

Shoe: Make Rector Type Guide Length	1.86
Collar: Make Rector Type Float Length	2.05
Landing Joint (when used) Length	
Overall Length of Casing String	363.23
Feet up from K.B. (Subtract)	8.23
Setting Depth: Log Driller Tally	355.00
Shoe Joint: Overall (Subtract)	45.42
Float Collar Landed Log Driller Tally	309.58

K.B. to Csg. Flg. 17.50 ft. Cut off 25.73 ft.

CENTRALIZERS

Make Pathfinder Number 4

Positions 340', 272', 192', 120'

SCRATCHERS

Make Nil Number

Positions

No. of Joints Welded 2

Remarks

OPERATOR Westcoast Oil & Gas Corporation

AGENT OF OPERATOR O. Gilliland

Form 2

HELTON ENGINEERING, INC.
PIPE TALLY

DATE 30 Jan/74 PAGE NO 1 OF 1

WELL NAME Westcoast etal Mule Shoe #1 LOCATION NWNW Sec. 10, T28S-R23E

OPERATOR Westcoast Oil & Gas Corporation RIG Loffland #237

PIPE DESCRIPTION: SIZE 13-3/8" WT 48 LB/FT GRADE H-40 RANGE III

CPLG ST&C THREAD 8 rd MFG NEW OR USED New

TYPE OF STRING Surface Casing TALLIED BY O. Gilliland (THDS OFF)

NO	FOOTAGE FEET	FOOTAGE TENTHS	NO	FOOTAGE FEET	FOOTAGE TENTHS	NO	FOOTAGE FEET	FOOTAGE TENTHS	NO	FOOTAGE FEET	FOOTAGE TENTHS	NO	FOOTAGE FEET	FOOTAGE TENTHS
1	41	51	21			41			61			81		
2	41	30	22			42			62			82		
3	39	03	23			43			63			83		
4	39	57	24			44			64			84		
5	41	20	25			45			65			85		
6	41	46	26			46			66			86		
7	37	50	27			47			67			87		
8	37	00	28			48			68			88		
9	40	75	29			49			69			89		
10			30			50			70			90		
TOTAL 1-10	359	32	TOTAL 21-30			TOTAL 41-50			TOTAL 61-70			TOTAL 81-90		
11			31			51			71			91		
12			32			52			72			92		
13			33			53			73			93		
14			34			54			74			94		
15			35			55			75			95		
16			36			56			76			96		
17			37			57			77			97		
18			38			58			78			98		
19			39			59			79			99		
20			40			60			80			100		
TOTAL 11-20			TOTAL 31-40			TOTAL 51-60			TOTAL 71-80			TOTAL 91-100		
TOTAL 1-20			TOTAL 21-40			TOTAL 41-60			TOTAL 61-80			TOTAL 81-100		

TOTAL 1-20	359	32	GRAND TOTALS 1-100		
TOTAL 21-40			GRAND TOTALS 101-____		
TOTAL 41-60			GRAND TOTALS ____-____		
TOTAL 61-80					
TOTAL 81-100					
GRAND TOTAL 1-100	359	32	GRAND TOTAL 1-____		

REMARKS

TOTAL JOINTS ON LOCATION 9

AGENT OF OPERATOR: O. Gilliland

FORM 1

HELTON ENGINEERING, INC.

RUNNING and CEMENTING

~~Surface Casing~~
Intermediate Casing
~~Production Casing~~
~~Liner~~

O.D. 9-5/8"

GENERAL

Well Westcoast etal Mule Shoe #1 Location Sec. 10, T28S-R23E Date 9 Feb/74

K.B. Elevation 6400 K.B. Csg. Flge. 17.50 Total Depth (Driller) 3457

Hole Size	12¼			Casing in Hole	13-3/8	
Depth	3457			Depth Set	355	

Mud: Type Gel-Water Wt. 8.6 Visc. 48 W.L.

B.O.P.'s

RUNNING

Power Tongs Torque: Max. Nom. Min.

Time pipe started 1:00 AM Time on Bottom 8:30 AM Time Circulated 240 min.

Fill-up Points Btm. by Csg. Ft. up from K.B.

Remarks

CEMENTING

Cement Co. Dowell Operator Bob Timlin Time on Location 11:30 PM

Types & Quantities of Cement 1553 scks Type G w/10% D534 & ¼ #/sck D29 and 175 scks Type G neat

Ht. to be Cemented

Water ahead 15 bbls. Mix Times: Start 12:25 Finish 1:25 Slurry Wt. 14.5

Calc. Disp. 262 bbls. Measured Disp. 264 bbls. Displacement: Start 1:30 PM Finish 2:45 PM

Max. Pumping Press. 750 Bump Press 1200 Bumped by Dowell No. Times Bumped 1

Cement Returns: Yes/No No Float held Yes Work Casing feet while Circulating/Cementing

Remarks:

LANDING

Time Landed 2:45 PM Date 2/9/74 Init. Wt. of Cem. String (less blocks) 105,000

Wt. Landed in Slips 100,000 Make of Bowl Cameron Nom. Size 12" Series 900

Slip & Seal Assembly Cameron Type AW Remarks No returns on primary job.

Recemented down annulus w/175 scks neat Type G cement.

OPERATOR Westcoast Oil & Gas Corporation

AGENT OF OPERATOR O. Gilliland

Form 3 (McAra)

HELTON ENGINEERING, INC.

CASING SUMMARY

~~Surface Casing~~
Intermediate Casing
~~Production Casing~~
~~Liner~~

O.D. 9-5/8"

Well Westcoast etal Mule Shoe #1 Location Sec. 10, 28S-23E Date 9 Feb/74

Jts. on Locat.	Ft. on Locat.	Csg. Wt.	Gr.	Rge.	Thd.	T.&C.	Make	Jts. Run	Depth Landed	Ft. Run in Well
43	1512.23	32.3	K-55	III	8 rd	S		40	1485.59	1412.16
54	1986.43	36	K-55	III	8 rd	S		54	3402.00	1986.43

Shoe: Make Baker Type Guide Length	1.65
Collar: Make Baker Type Float Length	1.98
Landing Joint (when used) Length	25.72
Overall Length of Casing String	3427.94
Feet up from K.B. (Subtract)	25.94
Setting Depth: Log Driller Tally	3402.00
Shoe Joint: Overall (Subtract)	41.28
Float Collar Landed Log Driller Tally	3360.72

K.B. to Csg. Flg. 17.50 ft. Cut off 17.72 ft.

CENTRALIZERS

Make Baker Number 3

Positions 3385, 3213, 2405

SCRATCHERS

Make Nil Number

Positions

No. of Joints Welded 2

Remarks

OPERATOR Westcoast Oil & Gas Corporation

AGENT OF OPERATOR O. Gilliland

Form 2

HELTON ENGINEERING, INC.
PIPE TALLY

DATE 9 Feb/74 PAGE NO 1 OF 1

WELL NAME Westcoast etal Mule Shoe #1 LOCATION NWNW Sec. 10, T28S-R23E

OPERATOR Westcoast Oil & Gas Corporation RIG Loffland #237

PIPE DESCRIPTION: SIZE 9-5/8" WT 32.3-36 LB/FT GRADE K-55 RANGE II & III

CPLG ST&C THREAD 8 rd MFG NEW OR USED New

TYPE OF STRING Intermediate Casing TALLIED BY O. Gilliland (THDS OFF)

NO	FOOTAGE FEET	FOOTAGE TENTHS	NO	FOOTAGE FEET	FOOTAGE TENTHS	NO	FOOTAGE FEET	FOOTAGE TENTHS	NO	FOOTAGE FEET	FOOTAGE TENTHS	NO	FOOTAGE FEET	FOOTAGE TENTHS
1	37	70	21*	25	72	41	36	86	61	38	08	81	37	45
2	35	10	22	33	85	42	35	72	62	38	00	82	38	47
3	36	70	23	36	50	43	36	50	63	36	07	83	37	44
4	36	90	24	37	63	44	37	65	64	28	70	84	38	68
5	37	50	25	29	00	45	39	00	65	37	62	85	38	38
6	33	93	26	36	36	46	37	25	66	39	03	86	37	27
7	32	56	27	35	60	47	36	86	67	37	45	87	37	77
8	34	02	28	36	30	48	37	64	68	39	85	88	33	85
9	36	47	29	36	46	49	35	40	69	38	10	89	35	45
10	37	23	30	36	56	50	36	48	70	36	87	90	37	52
TOTAL 1-10	358	11	TOTAL 21-30	343	98	TOTAL 41-50	369	36	TOTAL 61-70	369	77	TOTAL 81-90	372	28
11	34	47	31*	37	05	51	34	73	71	36	92	91	38	11
12	26	64	32*	37	30	52	34	62	72	36	85	92	36	58
13	34	60	33	33	00	53	36	03	73	37	21	93	37	48
14	38	81	34	33	05	54	37	87	74	35	70	94	34	44
15	34	43	35	38	40	55	36	53	75	35	90	95	38	14
16	32	30	36	36	24	56	34	25	76	38	86	96	33	02
17	37	62	37	38	51	57	37	65	77	37	35	97	37	00
18	30	75	38	35	55	58	35	37	78	36	73	98		
19	36	21	39	32	81	59	37	87	79	35	70	99		
20	37	40	40	35	92	60	34	78	80	38	41	100		
TOTAL 11-20	343	23	TOTAL 31-40	357	83	TOTAL 51-60	359	70	TOTAL 71-80	369	63	TOTAL 91-100	254	77

TOTAL 1-20	701.34	TOTAL 21-40	701.81	TOTAL 41-60	729.06
TOTAL 61-80	739.40	TOTAL 81-100	627.05		

TOTAL 1-20	701	34	GRAND TOTALS 1-100		
TOTAL 21-40	701	81			
TOTAL 41-60	729	06	GRAND TOTALS 101-____		
TOTAL 61-80	739	40	GRAND TOTALS ____-____		
TOTAL 81-100	627	05			
GRAND TOTAL 1-100	3498	66	GRAND TOTAL 1-____		

REMARKS Jts #1 thru #43 32.3 #/ft-1512.23' Jts #44 thru #97 36#/ft - 1986.43'

TOTAL JOINTS ON LOCATION 97

AGENT OF OPERATOR: O. Gilliland

FORM 1

HELTON ENGINEERING, INC.

PLUG-BACK AND ABANDONMENT REPORT

Well: Westcoast etal Mule Shoe #1

Location: NW NW Sec. 10, T28S-R23E

Hole Size	17½	12¼	8¾	
Depth	355	3457	10,375	

K.B. Elev. 6400

F.T.D. 10,375

CASING IN HOLE	SIZE	SET AT	TOP OF CEMENT
Surface Casing	13-3/8	355	
Production String	9-5/8	3402	

Fluid in Hole: Salt mud

Plug Back String: 4½" drill pipe

Service Company: Dowell

Cons. Bd. Officer: P. Burchell & J. Long

	PLUG 1	PLUG 2	PLUG 3	PLUG 4	PLUG 5	PLUG 6
Date	4/1/74	4/1/74	4/1/74	4/3/74	4/4/74	4/4/74
Interval - Top Bottom	9960 10,060	9500 9700	9300 9425	8400 8500	6350 6450	3350 3450
Formation - Name Depth	Ovray 10,010	Miss. 9510	B. Salt 9406	Ismay 8450	Hermosd 6412	Base Casing
Calipered Hole Size (Average)	9½	9¾	10	10½	10½	11½
Type of Cement	G	G	G	C	C	C
No. of Sacks	50	105	60	60	60	80
Additives	D13	D13	D13	D13	D13	D13
Bbls. of Water Ahead	5	5	5	5	5	5
Displacement - Bbls. Water Bbls. Mud	5 137	5 130	5 127	5 115	5 85	5 43
Slurry Weight	15.7	15.7	15.7	15.6	15.6	15.6
Mixing Times - Start Finish						
Displacing Times - Start Finish	3:45 AM	4:30 AM	5:05 AM	10:55 PM	1:00 AM	3:15 AM
Felt Plug Time						
Felt Plug Depth						

Surface Casing Cut ..... Ft. Below Grd. Surface Plug 5 Sacks.

Plate Welded — [redacted]/No

CASING SALVAGE: Shot off at ..... No. of Jts. Recovered .....

Remarks .....

Operator: Westcoast Oil & Gas Agent of Operator: Ken Neish

Form No. 13

HELTON ENGINEERING, INC.

PLUG-BACK AND ABANDONMENT REPORT

Well: Westcoast etal Mule Shoe #1

Location: NW NW Sec. 10, T28S-R23E

Hole Size	17½	12¼	8¾	
Depth	355	3457	10,375	

K.B. Elev. 6400

F.T.D. 10,375

CASING IN HOLE	SIZE	SET AT	TOP OF CEMENT
Surface Casing	13-3/8	355	
Production String	9-5/8	3402	

Fluid in Hole: Salt mud

Plug Back String: 4½" drill pipe

Service Company: Dowell

Cons. Bd. Officer: P. Burchell & J. Long

	PLUG 7	PLUG 8	PLUG 3	PLUG 4	PLUG 5	PLUG 6
Date	4/4/74					
Interval - Top Bottom	2300 2400					
Formation - Name Depth	B.Wingate 2376					
Calipered Hole Size (Average)	9½					
Type of Cement	C					
No. of Sacks	50					
Additives	----					
Bbls. of Water Ahead	5					
Displacement - Bbls. Water Bbls. Mud	5 28					
Slurry Weight	15.6					
Mixing Times - Start Finish						
Displacing Times - Start Finish	3:55 AM					
Felt Plug Time						
Felt Plug Depth						

Surface Casing Cut ..... Ft. Below Grd.

Surface Plug 5 Sacks.

Plate Welded — [redacted]/No

CASING SALVAGE: Shot off at ..... No. of Jts. Recovered .....

Remarks .....

Operator: Westcoast Oil & Gas Agent of Operator: Ken Neish

Form No. 13

HELTON ENGINEERING, INC.

DRILL STEM TEST REPORT

WELL NAME Westcoast Oil & Gas Mule Shoe #1

TEST No. 1 DATE 21 March/74

FORMATION TESTED Mississippian INTERVAL TESTED 9619-9665

TESTING COMPANY Johnston Testers TESTER A. McLaughlin

HOLE SIZE 8¾ WELL DEPTH 9665 DRILL PIPE SIZE 4½

PACKER OD 7¾ ADDITIONAL EQUIPMENT USED (YES/NO):

TYPE OF PACKER Bobtail JARS Yes

No. OF PACKERS 2 PUMP-OUT SUB Yes

PRESSURE RECORDERS: SAFETY JOINT Yes

No. DEPTH SAMPLE CHAMBER Yes

No. DEPTH BY-PASS ASSEMBLY No

No. DEPTH TIGHT HOLE SUB No

PREFLOW 10 MIN. INITIAL PUFF Good

INITIAL SHUT-IN 60 MIN. BLOW Weak increasing to strong

FLOW PERIOD 150 MIN. GAS TO SURFACE No IN MIN.

FINAL SHUT-IN 300 MIN. LIQUID TO SURFACE No IN MIN.

GAS FLOW RATES: IN MIN.

Time	Orifice Size	Back Pressure	Size of Riser	Rate

RECOVERED: 1970 ft. of water cushion bbl.

2800 ft. of salt water bbl. 39.8

ft. of bbl.

IHP 5200 ISIP 3295 IFP 914-1143 FFP 1143-2369 FSIP 3295 FHP 5185

REMARKS: BHT-150°F Cl -275,000 ppm

MFF - 2400 cc salt water Res - 0.05 @ 64°

SAMPLES OF water SENT TO Chem Lab - Casper BY Johnston

OPERATOR Westcoast Oil & Gas Corp.

AGENT OF OPERATOR Ken Neish

HELTON ENGINEERING, INC.

DRILL STEM TEST REPORT

WELL NAME Westcoast etal Mule Shoe #1

TEST No. 2 DATE 2 April/74

FORMATION TESTED Cane Creek INTERVAL TESTED 9140-9361

TESTING COMPANY Johnston Testers TESTER Al Guffey

HOLE SIZE 8¾ WELL DEPTH 9361 DRILL PIPE SIZE 4½

PACKER OD 7¾ ADDITIONAL EQUIPMENT USED (YES/NO):

TYPE OF PACKER Bobtail JARS Yes

No. OF PACKERS 2 PUMP-OUT SUB Yes

PRESSURE RECORDERS: SAFETY JOINT Yes

No. DEPTH SAMPLE CHAMBER Yes

No. DEPTH BY-PASS ASSEMBLY No

No. DEPTH TIGHT HOLE SUB No

PREFLOW MIN. INITIAL PUFF

INITIAL SHUT-IN MIN. BLOW

FLOW PERIOD MIN. GAS TO SURFACE IN MIN.

FINAL SHUT-IN MIN. LIQUID TO SURFACE IN MIN.

GAS FLOW RATES: IN MIN.

Time	Orifice Size	Back Pressure	Size of Riser	Rate

RECOVERED: ft. of bbl.

ft. of bbl.

ft. of bbl.

IHP ISIP IFP FFP FSIP FHP

REMARKS: Misrun, packer seat failed

SAMPLES OF SENT TO BY

OPERATOR Westcoast Oil & Gas Corp.

AGENT OF OPERATOR Ken Neish

HELTON ENGINEERING, INC.

DRILL STEM TEST REPORT

WELL NAME Westcoast Oil & Gas Corp.

TEST No. 3 DATE 3 April/74

FORMATION TESTED Cane Creek INTERVAL TESTED 9210-9370

TESTING COMPANY Johnston Testers TESTER Al Guffey

HOLE SIZE 8¾ WELL DEPTH 9370 DRILL PIPE SIZE 4½

PACKER OD 7¾ ADDITIONAL EQUIPMENT USED (YES/NO):

TYPE OF PACKER Bobtail JARS Yes

No. OF PACKERS 2 PUMP-OUT SUB Yes

PRESSURE RECORDERS: SAFETY JOINT Yes

No. J 045 DEPTH 9228 SAMPLE CHAMBER Yes

No. J 389 DEPTH 9238 BY-PASS ASSEMBLY No

No. DEPTH TIGHT HOLE SUB No

PREFLOW 10 MIN. INITIAL PUFF Good

INITIAL SHUT-IN 30 MIN. BLOW Weak

FLOW PERIOD 45 MIN. GAS TO SURFACE ---- IN MIN.

FINAL SHUT-IN 60 MIN. LIQUID TO SURFACE ---- IN MIN.

GAS FLOW RATES: IN MIN.

Time	Orifice Size	Back Pressure	Size of Riser	Rate

RECOVERED: 1514 ft. of water cushion bbl.

279 ft. of slightly gas cut mud bbl.

ft. of bbl.

IHP 5033 ISIP 1446 IFP 873-873 FFP 947-947 FSIP 3055 FHP 5033

REMARKS: Used 1514' water cushion BHT - 138°

MFE - 1.2 ft^3 gas 1400 cc mud

SAMPLES OF Water SENT TO C&G Labs - Casper BY Johnston

OPERATOR Westcoast Oil & Gas Corp.

AGENT OF OPERATOR Ken Neish

FORM OGC-8-X
File in Quadruplicate

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

REPORT OF WATER ENCOUNTERED DURING DRILLING

Well Name and Number Westcoast etal Mule Shoe #1

Operator Westcoast Oil & Gas Corp.

Address 709 - 8th Avenue S.W. Calgary, Alberta Canada

Contractor Loffland Bros. Drilling Co.

Address Farmington, New Mexico

Location NW 1/4, NW 1/4; Sec. 10; T. 28 S; R. 23 E W:, San Juan County.

Water Sands:

	Depth: From - To -	Volume: Flow Rate or Head -	Quality: Fresh or Salty -
1.	1040 - 1825	20 bbls/hr. estimated while air drilling.	Fresh
2.			
3.			
4.			
5.			

(Continue on Reverse Side of Necessary)

Formation Tops:

[illegible] - [illegible]'
[illegible] - [illegible]'
[illegible] - [illegible]'

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

FORM OGC-8-X
File in Quadruplicate

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

REPORT OF WATER ENCOUNTERED DURING DRILLING

Well Name and Number Westcoast etal Mule Shoe #1

Operator Westcoast Oil & Gas Corp.

Address 709 - 8th Avenue S.W., Calgary, Alberta Canada

Contractor Loffland Bros. Drilling Co.

Address Farmington, New Mexico

Location NW 1/4, NW 1/4; Sec. 10; T. 38 S R. 23 E W, San Juan County.

Water Sands:

	Depth: From -	To -	Volume: Flow Rate or Head -	Quality: Fresh or Salty -
1.	9619	9665	15 bbls./hr.	Salty
2.	DST #1 Mississippian			
3.				
4.				
5.				

(Continue on Reverse Side of Necessary)

Formation Tops:

Mississippian - 9[illegible]

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

Form OGCC-3

STATE OF UTAH

OIL & GAS CONSERVATION COMMISSION

SUBMIT IN DUPLICATE*
(See other instructions on reverse side)

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 Abandon

2. NAME OF OPERATOR: Westcoast Oil & Gas Corp.

3. ADDRESS OF OPERATOR: 709 - 8th Avenue S.W., Calgary, Alberta T2P 1H5

4. LOCATION OF WELL (*Report location clearly and in accordance with any State requirements*)*
At surface 505' from north line
At top prod. interval reported below 720' from west line Sec. 10, T28S-R23E
At total depth

5. LEASE DESIGNATION AND SERIAL NO.: U 10329

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT AGREEMENT NAME:

8. FARM OR LEASE NAME:

9. WELL NO.: Muleshoe No. 1

10. FIELD AND POOL, OR WILDCAT: Wildcat

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA: 10-28S-23E SLM

API# 14. PERMIT NO. 43-037-30147 | DATE ISSUED Jan. 25, 1974 | 12. COUNTY OR PARISH San Juan | 13. STATE Utah

15. DATE SPUDDED 1/27/74 | 16. DATE T.D. REACHED 3/30/74 | 17. DATE COMPL. (*Ready to prod.*) 4/4/74 | 18. ELEVATIONS (DF, RKB, RT, GR, ETC.)* GR-6385' K.B.-6400' | 19. ELEV. CASINGHEAD

20. TOTAL DEPTH, MD & TVD 10,375' K.B. | 21. PLUG, BACK T.D., MD & TVD | 22. IF MULTIPLE COMPL., HOW MANY* | 23. INTERVALS DRILLED BY → ROTARY TOOLS 0-10375' | CABLE TOOLS

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

25. WAS DIRECTIONAL SURVEY MADE: No

26. TYPE ELECTRIC AND OTHER LOGS RUN
Laterolog, Acoustilog, Dipmeter, Velocity survey

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#	355'	17½"	325 sacks	None
9-5/8"	36#	3402'	12¼"	1728 sacks	None

29. LINER RECORD

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

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)

31. PERFORATION RECORD (*Interval, size and number*)

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

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 _____ TITLE Agent for Operator DATE ~~19 April, 1974~~

*(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

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.
Mississippian	9620	9750	DST #1 9619'-9665' 10-60-150-300 Recovered 1970' water cushion & 2800' salt water. IHP-5200 IFP-914-1143 ISIP-3295 FFP-1143-2369 FSIP-3295 FHP-5185
Cane Creek	9206	9268	DST #2 9140-9361 Misrun.
Cane Creek	9206	9268	DST #3 9210-9370 10-30-45-60 Recovered 1514' water cushion & 279' slightly gas cut mud. IHP-5033 IFP-873-873 ISIP-1446 FFP-947-947 FSIP-3055 FHP-5033 Plug #1 9960'-10,060' 50 scks Plug #2 9500'-9700' 105 scks Plug #3 9300'-9425' 60 scks Plug #4 8400'-8500' 60 scks Plug #5 6350'-6450' 60 scks Plug #6 3350'-3450' 80 scks Plug #7 2300'-2400' 50 scks Plug #8 5 scks @ surface

38. GEOLOGIC MARKERS

NAME	TOP MEAS. DEPTH	TOP TRUE VERT. DEPTH
Morrison	500	
Summerville	840	
Entrada	860	
Carmel	1255	
Navajo	1310	
Kayenta	1805	
Wingate	2033	
Chinlee	2376	
Moenkopi	2585	
Cutler	2922	
Hermosa	6412	
Paradox	7926	
Ismay	8450	
Top Salt	8772	
Cane Creek	9206	
Base Salt	9406	
Molas	9480	
Mississippian	9510	
Curay	10,010	
Elbert	10,134	
McCracken	10,262	

Form OGCC-1 b

STATE OF UTAH

OIL & GAS CONSERVATION COMMISSION

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

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.)

5. LEASE DESIGNATION AND SERIAL NO.: U 10329

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT AGREEMENT NAME:

8. FARM OR LEASE NAME:

9. WELL NO.: Mulcahoe No. 1

10. FIELD AND POOL, OR WILDCAT: Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: 10-28S-23E SLM

1. OIL WELL ☐ GAS WELL ☐ OTHER Dry

2. NAME OF OPERATOR: Westcoast Oil & Gas Corp.

3. ADDRESS OF OPERATOR: 709 - 8th Avenue S.W., Calgary, Alberta T2P 1H5

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.)
At surface
505' from north line
720' from west line Sec. 10, T28S-R23E

14. PERMIT NO.: API# 43-037-30147

15. ELEVATIONS (Show whether DF, RT, GR, etc.): GR - 6385' K.B. - 6400'

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	☐	PULL OR ALTER CASING	☐
FRACTURE TREAT	☐	MULTIPLE COMPLETE	☐
SHOOT OR ACIDIZE	☐	ABANDON*	☒
REPAIR WELL	☐	CHANGE PLANS	☐
(Other)			☐

SUBSEQUENT REPORT OF:

WATER SHUT-OFF	☐	REPAIRING WELL	☐
FRACTURE TREATMENT	☐	ALTERING CASING	☐
SHOOTING OR ACIDIZING	☐	ABANDONMENT*	☐
(Other)			☐

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

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

Plug #1	9960' - 10,060'	50 scks
Plug #2	9500' - 9700'	105 scks
Plug #3	9300' - 9425'	60 scks
Plug #4	8400' - 8500'	60 scks
Plug #5	6350' - 6450'	60 scks
Plug #6	3350' - 3450'	80 scks
Plug #7	2300' - 2400'	50 scks
Plug #8	5 scks @ surface	

Casing cut off 3' below ground level and dry hole marker installed.

As per instructions from Mr. J. Long. Durango, Colorado

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

SIGNED _____ TITLE Agent for Operator DATE 19 April, 1974

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

Form 9-330
(Rev. 5-63)

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*

5. LEASE DESIGNATION AND SERIAL NO.: U 10329

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT AGREEMENT NAME:

8. FARM OR LEASE NAME:

9. WELL NO.: Muleshoe No. 1

10. FIELD AND POOL, OR WILDCAT: Wildcat

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA: 10-28S-23E SLM

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 Abandon

2. NAME OF OPERATOR: Westcoast Oil & Gas Corp.

3. ADDRESS OF OPERATOR: 709 - 8th Avenue S.W., Calgary, Alberta T2P 1H5

4. LOCATION OF WELL (*Report location clearly and in accordance with any State requirements*)*
At surface 505' from north line
At top prod. interval reported below 720' from west line Sec. 10, T28S-R23E
At total depth

14. PERMIT NO.: API# 43-037-30147 DATE ISSUED: Jan. 25, 1974

12. COUNTY OR PARISH: San Juan 13. STATE: Utah

15. DATE SPUDDED: 1/27/74 16. DATE T.D. REACHED: 3/30/74 17. DATE COMPL. (*Ready to prod.*): 4/4/74 18. ELEVATIONS (DF, RKB, RT, GR, ETC.)*: GR-6385' K.B.-6400' 19. ELEV. CASINGHEAD:

20. TOTAL DEPTH, MD & TVD: 10,375' K.B. 21. PLUG, BACK T.D., MD & TVD: 22. IF MULTIPLE COMPL., HOW MANY*: 23. INTERVALS DRILLED BY: → ROTARY TOOLS: 0-10375' CABLE TOOLS:

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

25. WAS DIRECTIONAL SURVEY MADE: No

26. TYPE ELECTRIC AND OTHER LOGS RUN: Laterolog, Acoustilog, Dipmeter, Velocity survey

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#	355'	17½"	325 sacks	None
9-5/8"	36#	3402'	12¼"	1728 sacks	None

29. LINER RECORD

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

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)

31. PERFORATION RECORD (*Interval, size and number*)

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

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 K. H. Vlest TITLE Agent for Operator DATE 19 April, 1974

*(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

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.
Mississippian	9620	9750	DST #1 9619'-9665' 10-60-150-300 Recovered 1970' water cushion & 2800' salt water. IHP-5200 IFP-914-1143 ISIP-3295 FFP-1143-2369 FSIP-3295 FHP-5185
Cane Creek	9206	9268	DST #2 9140-9361 Misrun.
Cane Creek	9206	9268	DST #3 9210-9370 10-30-45-60 Recovered 1514' water cushion & 279' slightly gas cut mud. IHP-5033 IFP-873-873 ISIP-1446 FFP-947-947 FSIP-3055 FHP-5033 Plug #1 9960'-10,060' 50 scks Plug #2 9500'-9700' 105 scks Plug #3 9300'-9425' 60 scks Plug #4 8400'-8500' 60 scks Plug #5 6350'-6450' 60 scks Plug #6 3350'-3450' 80 scks Plug #7 2300'-2400' 50 scks Plug #8 5 scks @ surface

38. GEOLOGIC MARKERS

NAME	TOP MEAS. DEPTH	TOP TRUE VERT. DEPTH
Morrison	500	
Summerville	840	
Entrada	860	
Carmel	1255	
Navajo	1310	
Kayenta	1805	
Wingate	2033	
Chinlee	2376	
Moenkopi	2585	
Cutler	2922	
Hermosd	6412	
Paradox	7926	
Ismay	8450	
Top Salt	8772	
Cane Creek	9206	
Base Salt	9406	
Molas	9480	
Mississippian	9510	
Ouray	10,010	
Elbert	10,134	
McCracken	10,262	

U.S. GOVERNMENT PRINTING OFFICE: 1963—O-683636

Form 9-331
(May 1963)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1424.

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.)

5. LEASE DESIGNATION AND SERIAL NO.: U 10329

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

1. OIL WELL ☐ GAS WELL ☐ OTHER Dry

7. UNIT AGREEMENT NAME:

2. NAME OF OPERATOR: Westcoast Oil & Gas Corp.

8. FARM OR LEASE NAME:

3. ADDRESS OF OPERATOR: 709 - 8th Avenue S.W., Calgary, Alberta T2P 1H5

9. WELL NO.: Muleshoe No. 1

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.)
At surface
505' from north line
720' from west line Sec. 10, T28S-R23E

10. FIELD AND POOL, OR WILDCAT: Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: 10-28S-23E SLM

14. PERMIT NO.: API#43-037-30147

15. ELEVATIONS (Show whether DF, RT, GR, etc.): GR - 6385' K.B. - 6400'

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:				SUBSEQUENT REPORT OF:			
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FRACTURE TREAT	☐	MULTIPLE COMPLETE	☐	FRACTURE TREATMENT	☐	ALTERING CASING	☐
SHOOT OR ACIDIZE	☐	ABANDON*	X	SHOOTING OR ACIDIZING	☐	ABANDONMENT*	☐
REPAIR WELL	☐	CHANGE PLANS	☐	(Other)			
(Other)							

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

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

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Plug #8	5 scks @ surface	

Casing cut off 3' below ground level and dry hole marker installed

As per instructions from Mr. J. Long. Durango, Colorado

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

SIGNED K. H. Meisk TITLE Agent for Operator DATE 19 April, 1974

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side